



THE SOUTHLAND CORPORATION
VIRGINIA BEACH, VIRGINIA

PHASE I - INITIAL SITE INVESTIGATION

File: 6230-398

Southland Store #32513
Christy's Market #213
Route 100
West Dover, Vermont

982534

April 1999



Job No. 6230-398

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PHASE I - INITIAL SITE INVESTIGATION

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Route 100
West Dover, Vermont

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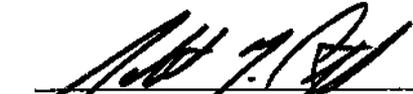
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1.0 INTRODUCTION

The purpose of this report is to present the results of a Phase I Initial Site Investigation (Phase I) conducted by ENSR on behalf of The Southland Corporation (Southland). This Phase I was completed to assess the potential release of petroleum products at the 7-Eleven facility located at Route 100 in West Dover, Vermont. All opinions presented in this report are based solely upon this investigation and are subject to the Service Constraints included in Appendix A.

A report prepared by Haley and Aldrich, dated August 1990, was submitted to the Vermont Department of Environmental Conservation (VT DEC) in October 1998. In December 1998, the VT DEC submitted a letter to Southland indicating that additional assessment was necessary to fully define potential soil and groundwater contamination at the site.

Please refer to Figure 1, Site Locus, for the regional location of the site, and Figure 2, the Site Plan, for pertinent site features.

2.0 GENERAL INFORMATION**2.1 Site Information**

This section is based on field reconnaissance, state and municipal research, the West Dover, Vermont Topography Map and information provided by Christy's Markets, Inc.

Facility Owner: Mihos Realty Trust
22 Christy's Drive
Brockton, MA 02401

Facility Operator: The Southland Corporation
814 Baker Road
Virginia Beach, Virginia

Client Environmental Contact: Garry Blair
Environmental Manager

Site Location: Christy's Market #213/Southland Store #32513
Route 100
West Dover, Vermont

USGS Quadrangle: West Dover, Vermont, 1986

Latitude, Longitude: 42°56'43"N -72°51'52"E (approximate)

UTM Coordinates: 4756749 N, 674223 E (approximate)

Zoning of Site: Commercial

General Description of Surrounding Properties:

- N/NE - Undeveloped land that is part of the Green Mountain National Forest and the North Branch of the Deerfield River
- E - Undeveloped land that is part of the Green Mountain National Forest and a commercial building occupied by a telephone switching facility
- S/SW - Route 100; beyond which is undeveloped land and Dover Watch of Mt. Snow (commercial/retail)
- W - Route 100; beyond which is the Gallery Artisan
- NW - Residential property and undeveloped land



Survey Type: Elevational

Survey Items: Monitoring wells MW-1 through MW-5 (March 2, 1999)

Please refer to Table 1, Groundwater Elevations, for well-head elevations, depth to water and groundwater elevations. Figure 3 is the Groundwater Table Topography Map.

4.4 Sampling

Sampling Date(s): Soil – February 17, 1999
Groundwater – March 2, 1999

Soil Sample
Collection Points: MW-1: 3-5 feet; MW-2: 3-5 feet; MW-3: 3-5 feet;
MW-4: 3-5 feet and MW-5: 5-7 feet

Wells Gauged: Monitoring wells MW-1 through MW-5

Groundwater Sample
Collection Points: Monitoring wells MW-1 through MW-5

Groundwater Recharge: Observed slow recharge rate in monitoring well MW-5. Good recharge in remaining wells.

All samples were collected following ENSR's Sampling Protocol, which is kept on file at ENSR. All of the soil samples collected from the site were collected from the unsaturated zone as observed during drilling. The results of the sampling are summarized in Section 5 and in Tables 2 and 3 attached to this report.

4.5 Subsurface Conditions

Topography and Surficial and Bedrock Geology

Topography: Slopes gently to the north.

Stratigraphy: Stratigraphy at the site generally consists of black rich organic soil and light brown medium to coarse sand with some silt and gravel to a depth of seven feet BSG.

Soil Permeability:
(estimated) Low to moderate.

Bedrock: Precambrian-aged schist and gneiss (Doll, 1970).



Sole Source Aquifers: Unknown, based on information provided by town officials.

Protected Open Space: None

Fish Habitats: Unknown, based on information provided by town officials.

Habitats of Species of Special Concern: Unknown, based on available information.

Threatened or Endangered Species: Unknown, based on information provided by town officials.

2.3 Facility Characteristics

Facility Use: 7-Eleven convenience store and gasoline dispensing facility, Mt. Snow Motors and John Chadwick Excavation/Trucking.

County: Windham

Assessors' Plat: Map 6/Lot RTO56

Facility SIC #s:
5541 - Gasoline Service Station
5411 - Convenience Store
4212 - Trucking without Storage, Local
7538 - Automotive Repair Shops, General

Property Size: 2 acres

Building Size: 5,200 square-foot, single-story, brick, wood and concrete building, constructed on a concrete slab foundation. Approximately 960 square-feet of the building is occupied by the Christy's convenience store. The remainder of the building is occupied by Mt. Snow Motors and John Chadwick Excavation/Trucking.

Building Construction Date: circa 1979

Floor Drains: None; however, it is not known if floor drains are present in the rear of the building (auto repair area).

UST Specifications (current): Currently, there are three 10,000-gallon gasoline, double-walled fiberglass underground storage tanks (USTs) located on the subject site property. These tanks were installed in 1988. Refer to Section 3.3 for additional information on the current/former USTs.

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2.4 Utilities

The facility is serviced by private water, municipal sewer, electricity and telephone. The subject building is heated with fuel oil. Please refer to Figure 2, the Site Plan, for the location of the utilities. A description of public and private utilities follows.

Telephone and Electric: Overhead electric and telephone lines enter the northwestern end of the property and access the northwestern side of the building.

Natural Gas: Natural gas does not service the site.

Water: A private well located on the northern corner of the property supplies drinking water to the site.

Sewer: The municipal sewer line, constructed of a PVC SDR-35 pipe, enters the site from southern side of the property (from Route 100) at a depth of approximately 4 to 6 feet BSG.

Catch Basins and Drainage: No catch basins were observed on the site.

Oil/water Separator: None observed.

Utility Corridors: Municipal sewer.

3.0 FACILITY HISTORY

3.1 Current and Historical Uses of the Facility

The facility is currently occupied by a 7-Eleven convenience store, a Citgo gasoline station, Mt. Snow Motors and John Chadwick Excavation/Trucking. The current building at the site was constructed in approximately 1979, according to municipal information. Prior to the current occupant, an Amoco gasoline station and garage were present on the property. The subject site has reportedly been utilized as a gasoline station and convenience store since its construction. Prior to construction of the site building in 1979, the land was reportedly undeveloped.

Sanborn Fire Insurance Maps were requested to develop a history of the site; however, no coverage was available for the area.

3.2 Release History

Previous reports prepared for the site in 1990 and 1993 indicate that petroleum-related constituents, greater than standards, were present in tank pad wells located at the site. The site was apparently not reported to the Vermont Department of Environmental Conservation (VT DEC). Please refer to Section 3.6 for additional information.

Available information from state and local records do not indicate that releases have occurred at the site.

3.3 Oil and Hazardous Materials Storage and Use History

UST System

USTs at the site include three 10,000-gallon double-walled fiberglass gasoline tanks. The USTs were installed in 1988. Each of the tanks has overfill/spill protection, interstitial leak detection, pipe protection and interstitial line leak detectors. There are also three 275-gallon ASTs present on the site. The contents of these ASTs are unknown. However, they are inferred to be fuel oil ASTs, because according to Robin Gallup, the store manager, the building is heated by fuel oil.

ENSR personnel reviewed a Tank Pull Form, dated May 4, 1988, in the VT DEC file records for the subject site. The form indicated that four 10,000-gallon gasoline USTs were removed from the site and replaced with three 10,000-gallon gasoline tanks on that date. The State Inspector who completed the form noted that the tanks were in good condition, no soil contamination was observed and no free-phase product was encountered. The records did not indicate whether soil sampling was conducted.



Other Oil and/or Hazardous Material

OHM observed on-site consisted of four 55-gallon drums of unknown contents, a storage trailer with unknown contents and a propane tank. No staining or leakage was observed to be associated with the drums or the trailer.

3.4 Waste Management History

The facility has been utilized as a gasoline dispensing facility/convenience store, auto repair and trucking facility since at least 1979. Prior to that time the subject site property is believed to have been undeveloped.

Process Wastes: None

Remedial Wastes: None

Waste management associated with the auto repair and trucking facility is not known. They are not listed as RCRA generators and no staining was observed. Three 275-gallon aboveground storage tanks (ASTs) were observed on this portion of the site. The use of the ASTs is not known; however, it is likely that at least one of the ASTs is used to store fuel oil to heat the building. No staining was observed.

3.5 Environmental Permits and Compliance History

The VT DEC has a UST Permit on file for the Dover Service Station/Christy's Market located at Route 100 in Dover, Vermont for three 10,000-gallon gasoline tanks. The expiration date on the permit is August 1, 2002.

The VT DEC issued a letter to Callahan Oil Company, dated November 17, 1992, regarding incomplete UST Permit Renewal Applications and Financial Responsibility. The letter stated that the Department received the UST Permit Renewal Application for the subject site facility; however, the applications were incomplete. In addition, the State had no record of Callahan Oil Company having Pollution Liability Insurance on the subject site for 1991 or 1992. The DEC requested in the letter that Callahan Oil complete application forms for Vermont's Petroleum Clean Up Fund and pay assessment fees for the three years (1990/1, 1991/2 and 1992/3) that the insurance had been expired.

The VT DEC issued a letter to Callahan Oil Company, owner of the USTs located on the subject site, dated January 4, 1993. The letter was in reference to the subject site being in alleged violation of the VT UST Regulations Section 8-303(1) and Section 8-304. The alleged violation stated that Callahan Oil Company had not demonstrated financial responsibility by supplying a Certificate of Insurance in the required amounts, nor had Callahan Oil Company paid the assessment fee, in lieu of the Certificate of Insurance, applicable to retail facilities for the assessment years October 1, 1990 to September 30, 1991 and October 1, 1991 to September 30, 1992. To bring the facility into compliance, the State requested that Callahan submit either a Certificate of Insurance or pay the appropriate assessment fee for the site.



3.6 Previous Environmental Investigations

Report on the Environmental Evaluation of the Dover Service Station located on Route 100 in West Dover, Vermont by Haley & Aldrich, Inc., of Glastonbury, Connecticut, August 1990.

Haley & Aldrich, Inc., of Glastonbury, Connecticut completed a report on the Environmental Evaluation of the Dover Service Station located on Route 100 in West Dover, Vermont, dated August 1990. Haley & Aldrich's investigation consisted of a review of existing information on site environmental conditions and existing fuel storage tanks, visual observation of the site surface conditions and a survey of the observation wells for the presence of free petroleum product as well as sampling and laboratory analyses of the groundwater.

The property was occupied by a Grampy's convenience store and Citgo Service Station at the time of Haley & Aldrich's investigation. The garage adjoining the convenience store was reportedly formerly utilized for vehicle repair and service. Three 10,000-gallon gasoline USTs, installed in 1988, were present on the site at that time. The water supply at the site was provided by a private well located on the northern corner of the property.

On July 18, 1990, Haley and Aldrich personnel collected groundwater samples from three of the four observation wells (DS1-OW through DS3-OW) located on-site. Laboratory analytical results of the groundwater collected from the site indicated the presence of, "substantial levels of methyl tertiary butyl ether (MTBE)." Free petroleum product was not detected in the site observation wells. Haley & Aldrich concluded that a minor release had occurred to the groundwater on the site and recommended that further work be performed to evaluate the source of the MTBE in the groundwater. Haley & Aldrich suggested that if additional testing indicated the persistence or increase of petroleum contaminants, remedial activities may need to be taken.

Groundwater Sampling Report of Christy's Store #213, Corporate Environmental Advisors (CEA), November 28, 1993.

On November 16, 1993, CEA collected groundwater samples from the four existing tank pad observation wells (DS1-OW through DS4-OW). Samples were submitted for laboratory analyses of volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 624 and total petroleum hydrocarbons (TPH) via GC. Laboratory analytical results indicated the presence of VOCs in each of the four observation wells. Levels of benzene detected in observation well DS1-OW exceeded Vermont Groundwater Enforcement Standards (VGES). MTBE levels detected in each of the four observation wells exceeded the VT Health Advisory Limit (VHAL). Separate-phase product was not observed in the groundwater; however, gasoline odors were noted during bailing of the wells. CEA found the private supply well located on-site to be free of impact. Trace BTEX compounds were observed during CEA's investigation that were not detected during the 1990 analyses, leading CEA to believe that some additional leakage or spillage had likely occurred on the property since 1990. CEA concluded that upon informing the VT DEC of their findings, a limited assessment involving the installation of monitoring wells would be required to define the extent of contamination.



Phase I Environmental Site Assessment, of Christy's Market #213, located on Route 100 in West Dover, Vermont, by ENSR, of Northborough, Massachusetts, May 1998.

ENSR completed a Phase I Environmental Site Assessment of the Christy's Market located on Route 100 in West Dover, Vermont, dated May 1998. ENSR's investigation consisted of a site inspection, visual asbestos survey, database search and historical research for the above-referenced site. It should be noted that the interior rear of the site building, consisting of Mt. Snow Motors and John Chadwick Excavation, was not inspected.

ENSR reported three 10,000-gallon gasoline USTs, installed in 1988, to be present on the property. Three 275-gallon ASTs of unknown content were also observed on the site. OHM observed within the convenience store consisted of several gallons of motor oil, windshield washing fluid, antifreeze and household cleaning products. These materials were neatly stored for retail sale. No staining was observed to be associated with these products. New England DataMap (NEDM) identified the subject site as a registered UST facility.

Based on information gathered from previous reports, ENSR found evidence of a release of OHM to the site during their investigation due to the presence of petroleum-related constituents detected in groundwater during previous investigations. ENSR recommended a subsurface investigation be conducted at the site to assess potential impacts to soil and groundwater and to determine groundwater flow beneath the site.



4.0 FIELD INVESTIGATIONS AND HYDROGEOLOGICAL CHARACTERISTICS

4.1 Site Health and Safety Plan

A Health and Safety Plan, as required by the Occupational Safety and Health Administration (OSHA) under Hazardous Waste Operations & Emergency Response, 29 CFR 1910.120, and the MCP, was developed for this project. The Health and Safety Plan only covers ENSR employees and subcontractors hired by ENSR. A copy of the Site Health and Safety Plan is on file at ENSR.

4.2 Drilling and Monitoring Well Installation

Drilling Date(s): February 17, 1999

Drilling Contractor: American Drilling of Westminister, Massachusetts

Boring Numbers: MW-1, MW-2, MW-3, MW-4 and MW-5

Monitoring Wells Installed: MW-1, MW-2, MW-3, MW-4 and MW-5

Drilling Method: Hollow-stem auger

Sampling Method: Split Spoon sampler

Soil Descriptions: Rich, black organic soil (specific descriptions presented in Appendix B)

Depth to Groundwater: Approximately 5-7 feet at the time of drilling. See Table 2 for groundwater elevations.

Screening Method: Headspace with photoionization detector (PID)/olfactory/visual

Laboratory Sample/
Selection/Depth: Based on highest PID reading or just above the water table

Separate-Phase
Hydrocarbons (SPH): None

Please refer to Appendix B, Boring Logs, for further information on boring completion and well construction and Figure 2, Site Plan, for boring and monitoring well locations.

4.3 Surveying

Survey Date: March 2, 1999

Benchmark: 100.00 feet (arbitrary) located on cement near well MW-3



Survey Type: Elevational

Survey Items: Monitoring wells MW-1 through MW-5 (March 2, 1999)

Please refer to Table 1, Groundwater Elevations, for well-head elevations, depth to water and groundwater elevations. Figure 3 is the Groundwater Table Topography Map.

4.4 Sampling

Sampling Date(s): Soil – February 17, 1999
Groundwater – March 2, 1999

Soil Sample
Collection Points: MW-1: 3-5 feet; MW-2: 3-5 feet; MW-3: 3-5 feet;
MW-4: 3-5 feet and MW-5: 5-7 feet

Wells Gauged: Monitoring wells MW-1 through MW-5

Groundwater Sample
Collection Points: Monitoring wells MW-1 through MW-5

Groundwater Recharge: Observed slow recharge rate in monitoring well MW-5. Good recharge in remaining wells.

All samples were collected following ENSR's Sampling Protocol, which is kept on file at ENSR. All of the soil samples collected from the site were collected from the unsaturated zone as observed during drilling. The results of the sampling are summarized in Section 5 and in Tables 2 and 3 attached to this report.

4.5 Subsurface Conditions

Topography and Surficial and Bedrock Geology

Topography: Slopes gently to the north.

Stratigraphy: Stratigraphy at the site generally consists of black rich organic soil and light brown medium to coarse sand with some silt and gravel to a depth of seven feet BSG.

Soil Permeability:
(estimated) Low to moderate.

Bedrock: Precambrian-aged schist and gneiss (Doll, 1970).



Groundwater

Measurement Device: Keck Electronic Interface Probe

Measurement Point: Top of PVC well casing

Depth to Groundwater: On February 17, 1999, depth to groundwater ranged from 5-7 feet in borings MW-1 through MW-5.

On March 2, 1999, depth to groundwater ranged from 2.36 feet BSG in well MW-2 to 4.35 feet BSG in well MW-3

Groundwater Flow Direction:

Based on wellhead elevations surveyed on March 2, 1999 relative to an arbitrary on-site datum of 100.00 feet, and depth to groundwater measurements collected on March 2, 1999, apparent groundwater flow direction is to the south (using modified straight line interpolation method). Refer to Table 2 for wellhead and groundwater elevations and Figure 3, Groundwater Table Topography Map.

Groundwater Gradient: 0.00448 (between wells MW-1 and MW-5)

Hydraulic Conductivity: 10^{-7} meters/second (m/sec) - Based on literature values (sandy till) (estimate)

Groundwater Velocity: Calculated using the following equation

$$v = \frac{K (dh/dl)}{n}$$

where:

- v = average linear velocity (feet/day)
- K = hydraulic conductivity (meter/second)
- dh/dl = hydraulic gradient (unitless)
- n = estimated volumetric porosity (percent)

For the study area, the estimated K value is 10^{-7} m/sec, dh/dl is 0.00448, and n is 0.25.

$$V = (10^{-7} * 0.00448) / 0.25 = 1.79 \times 10^{-5} \text{ m/sec}$$

$$2.39 \times 10^{-8} \text{ m/sec} * 1 \text{ ft} / 0.3048 \text{ m} * 86,400 \text{ sec/day} = 5.07 \text{ ft/day or } 1,852 \text{ ft/yr for the study area.}$$

5.0 NATURE AND EXTENT OF CONTAMINATION

5.1 Screening and Analytical Results

As part of this Phase I, ENSR collected soil and groundwater samples from the property. The headspace above the soil samples was screened for the presence of Volatile Organic Vapors (VOVs) with a photo-ionization detector (PID), and soil and groundwater samples were collected for laboratory analyses. All soil and groundwater samples collected for laboratory analysis were stored on ice in the field and delivered under chain-of-custody to Spectrum Analytical, Inc., (Spectrum) of Agawam, Massachusetts. Analyses were selected based on current facility use, PID screening and visual and olfactory observations.

Soil Analyses:

February 17, 1999 All soil samples were analyzed for the presence of VOCs by EPA Method 8260 and TPH by Modified 8015. Refer to the Boring Logs in Appendix B for PID readings.

Groundwater Analyses:

March 2, 1999 All groundwater samples were analyzed for the presence of VOCs by Method 8260 and TPH by Modified Method 8015.

Soil and Groundwater Analytical Results

Refer to Table 2 for a summary of the soil analytical results. Refer to Table 3 for a summary of the groundwater analytical results. Laboratory analytical results and chain of custody documentation are included in Appendix C.

5.2 Potential Source(s) of Contamination

Potential Sources

Based on contaminant distribution and groundwater flow direction, the following appear to have contributed to the release detected at the disposal site:

- Current and former gasoline UST system.
- Potential overfills of the current and former gasoline UST system during routine deliveries.

ENSR contracted New England DataMap Technology Corporation, Inc. (NEDM) to complete an "Environmental FirstSearch Report" for the area surrounding the disposal site in order to identify other potential off-site sources (spill incidents) of contamination. The NEDM report identified a total of twenty-two sites; two RCRA GEN sites, two ERNS sites, fifteen REG UST sites (including the subject site) and three LUST sites. However, none of the twenty-two sites identified were geocoded, meaning that the distance and direction of the sites from the subject site were not identified. According to ENSR's Phase I ESA, none of the sites identified by



NEDM appear to pose a threat of release to the subject site. For additional information, refer to the Environmental FirstSearch Report in Appendix D.

5.3 Extent of Contamination (Soil and Groundwater)

Soil

Based on visual and olfactory observations and laboratory analysis of soil samples collected during the completion of the on-site monitoring well installation, it appears that petroleum-impacted soil is present west and northwest of the site building, in the vicinity of wells MW-1 and MW-5. The soil sample collected from the area of well MW-5 contained PID readings at 4.0 ppm at 5-7 feet BSG. No PID readings were detected in soil samples from well MW-1. Results of soil laboratory analyses are presented in Table 3 and copies of the laboratory reports are included in Appendix C.

Groundwater

Based on the groundwater analytical results, petroleum constituents were detected in wells MW-1, MW-3, MW-4 and MW-5. Benzene, 1,2,4-trimethylbenzene, 1,3, 5-trimethylbenzene and MTBE were present in wells MW-3, MW-4 and MW-5 above the VGES and VHAL. Results of laboratory analyses are presented in Table 3 and copies of laboratory reports are included in Appendix C.

6.0 MIGRATION PATHWAYS AND EXPOSURE POTENTIAL

6.1 Migration Pathways

The potential sources of petroleum compounds identified as part of this and previous investigations include the current gasoline UST system and current and former use of the site as a gasoline dispensing facility.

Since no separate phase hydrocarbons (SPH) have been detected during investigations performed at the disposal site, SPH is not specifically addressed in this section. The primary migratory pathway for gasoline released to the subsurface was determined to be migration with groundwater in a southerly direction. Groundwater velocity was calculated to be approximately 1,852 feet/year. Due to the depth of the burial and location of subsurface utilities (sewer) in relation to the dissolved hydrocarbon plume, there is a potential for preferential migration of impacted groundwater along subsurface utilities located on-site, and in Route 100.

Volatilization of gasoline compounds from the groundwater and soil and/or adsorption onto soil particles and organic matter, prior to reaching the water table, is dependent on the individual characteristics of each petroleum compound in conjunction with other site-specific characteristics. The on-site underground municipal sewer line is located downgradient of the gasoline UST area and the dissolved phase plume. Also, based on the results of this investigation, including groundwater analytical results and PID readings collected during the advancement of borings, the potential for soil and groundwater to be a source of vapors to occupied structures or ambient air appears insignificant. In addition, portions of the site are paved and the facility building is constructed on a concrete slab. As of the date of this investigation, and based on the files reviewed, there have been no reports or complaints of vapors present in the facility building.

6.2 Potential Receptors

Based on the contaminant concentrations, distribution and potential migration pathways, it is the opinion of ENSR that potential receptors may include the following:

- Construction workers performing excavations at the facility and possibly in areas directly abutting the site.
- Workers at the on-site facility building.
- Off-site private wells.

6.3 Exposure Potential

The determination of the potential for exposure to oil and/or hazardous material from the site is based on the results obtained from work performed as part of this Phase I. No known exposures have occurred. Potential exposures may include the following:



Human

- Inhalation or dermal contact by construction workers performing excavations at the facility.
- Occupied structures located downgradient of the site; however, exposure is unlikely based on contaminant concentrations and contaminant distribution.

Environmental

- None identified at this time.

7.0 SUMMARY AND FINDINGS

Based on the Phase I Initial Site Investigation performed by ENSR and subject to the Service Constraints in Appendix A, ENSR presents the following summary and opinions regarding Southland Store #32513 located at Route 100 in West Dover, Vermont.

1. The facility has been operated as a gasoline dispensing facility since at least 1979. The current UST system on the site includes three 10,000-gallon gasoline double-walled fiberglass USTs. These tanks were installed in 1988. Other OHM stored at the facility includes four 55-gallon drums of unknown contents, a storage trailer with unknown contents and a propane tank. No staining or leakage was observed to be associated with the drums of the trailer.
2. According to a Tank Pull Form reviewed at the VT DEC, dated May 1988, four 10,000-gallon gasoline USTs were removed from the site and replaced with the three USTs mentioned above. The tanks removed from the site were noted to be in good condition. No soil contamination or free phase product was observed.
3. ENSR completed a total of five borings and the installation of five monitoring wells within the borings as part of this investigation. Sediments encountered consisted of rich black organic soil and light brown medium to coarse sand with some silt and gravel. Groundwater beneath the property was encountered at a depth of approximately two to five feet BSG in March 1999. Groundwater flow direction beneath the property was determined to be to the south at an estimated flow rate of 1,852 feet-per-year.
4. Soil sampling indicates the presence of petroleum compounds; however, no standards are available for comparison. Groundwater was also found to be affected by gasoline-related compounds at concentrations greater than applicable VGES and VHAL.
5. Potential sources of contamination include the current and former gasoline UST system and historical facility use. It is ENSR's opinion that the potential for preferential migration of impacted groundwater along subsurface utilities and the potential for soil and groundwater to be a source of vapors to occupied structures may exist. However, indoor air exposure is unlikely based on current concentrations, contaminant distribution and the construction of the site building. In addition, there have been no documented complaints of petroleum odors to-date.
6. No known exposures have occurred from contaminants detected at the site. In ENSR's opinion, exposure potential is most likely limited to construction workers who may complete excavations on-site, residential properties located downgradient of the site and private drinking water wells located downgradient of the site. Exposure to occupied structures is unlikely based on contaminant concentrations and contaminant distribution. On-site workers are not expected to be affected because no vapors have been detected and there have been no complaints of vapors in the area. Groundwater at the disposal site is not likely to pose significant risk to the environment based on the lack of any environmental receptors within the immediate vicinity of the site.
7. It is the opinion of ENSR that periodic groundwater monitoring of the existing wells should be conducted.

8.0 REFERENCES

1. Am-Pro Mailing & Telemarketing List Company, Inc., SIC Code Reference (Standard Industrial Classification), Undated.
2. Doll, Charles, "Generalized Geologic Map of Vermont, 1970."
3. Groundwater Sampling Results of Dover Service Station, Route 100, West Dover, Vermont, CEA, Worcester, Massachusetts, November 1993.
4. Harrington, Bob, Town of West Dover's Sewer Department, March 1999.
5. Murray, Ted, Town of West Dover Zoning Administrator, surface water & natural resource information, March 24, 1999.
6. New England DataMap Technologies, Inc., "Environmental First Search Report," March 1999.
7. Phase I Environmental Site Assessment Report of Christy's Market #213, West Dover, Vermont, ENSR, Northborough, Massachusetts, May 1998.
8. Report on Environmental Evaluation of the Dover Service Station, West Dover, Vermont, Haley & Aldrich, Inc., August 1990.
9. Town of West Dover's Clerk's Office, map and parcel information, March 1999.
10. Vermont Department of Environmental Conservation, Waterbury, Vermont, January 1999.
11. United States Geological Survey, West Dover, VT, 1986.

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TABLES

TABLE 1

**Groundwater Measurements and Project Data
Christy's Market #213/Southland Store #32513
Route 100
West Dover, Vermont
March 2, 1999**

Well ID	Well Elevation	Depth to Water	Depth of Well	Product Thicknes	Corrected Depth	Water Table Elevation
MW-1	99.18	3.23	9.35	ND	NA	95.95
MW-2	97.79	2.36	9.01	ND	NA	95.43
MW-3	99.06	4.35	8.72	ND	NA	94.71
MW-4	98.78	3.82	9.24	ND	NA	94.96
MW-5	98.76	4.17	9.28	ND	NA	94.59

ND = Not detected

NA = Not applicable

TABLE 2

**Soil Analytical Results
Christy's Market #213/Southland Store #32513
Route 100
West Dover, Vermont
February 17, 1999**

Compound	Well ID # Depth	MW-1 3-5	MW-2 3-5	MW-3 3-5	MW-4 3-5	MW-5 5-7	EPA Region III RBC
TPH (mg/Kg)							
Total Hydrocarbons		250	ND	ND	ND	200	NSA
Fingerprint based quantifications							
Motor Oil		ND	ND	ND	ND	200	NSA
Unidentified		250	ND	ND	ND	ND	NSA

ND - Not Detected

NSA - No Standard Available

mg/Kg - milligrams-per-kilogram

TPH - Total Petroleum Hydrocarbons

No volatile organic compounds (VOCs) present above detection limits in any of the samples

EPA Region III RBC - Environmental Protection Agency Region III Risk Based Concentrations

TABLE 3

Groundwater Analytical Results
 Christy's Market #213/Southland Store #32513
 Route 100
 West Dover, Vermont
 March 2, 1999

Compound	Well ID #	MW-1	MW-2	MW-3	MW-4	MW-5	VGES
VOCs (ug/L)							
Benzene		ND	ND	180	ND	17	5
n-Butylbenzene		ND	ND	1.6	ND	2.4	NSA
sec-Butylbenzene		ND	ND	ND	ND	1.7	NSA
Ethylbenzene		ND	ND	5.2	ND	16	700
Isopropylbenzene		ND	ND	3.1	ND	2.8	NSA
Naphthalene		ND	ND	2.5	ND	3.7	20
n-Propylbenzene		ND	ND	3.3	ND	3.6	NSA
Toluene		ND	ND	15	7.8	6	1,000
1,2,4-Trimethylbenzene		ND	ND	37	3.6	14	5
1,3,5-Trimethylbenzene		ND	ND	9.3	ND	ND	4
Total Xylenes		ND	ND	144	9.5	36	10,000
MTBE		8.9	ND	8.5	190	270	40*
TPH (mg/L)							
Total Hydrocarbons		ND	ND	1.3	0.3	0.5	NSA

ND - Not Detected

mg/L - milligrams-per-liter

ug/L - micrograms-per-liter

NSA - No Standard Available

MTBE - Methyl tertiary butyl ether

TPH - Total Petroleum Hydrocarbons

Results in bold indicate the exceedance of the VGES

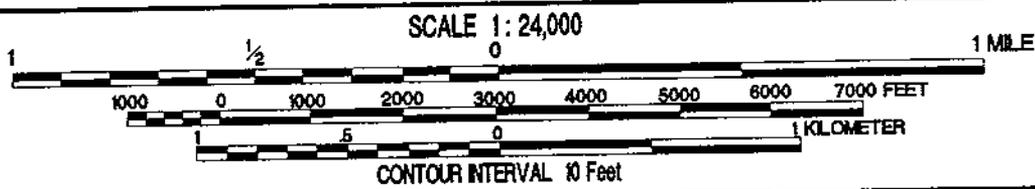
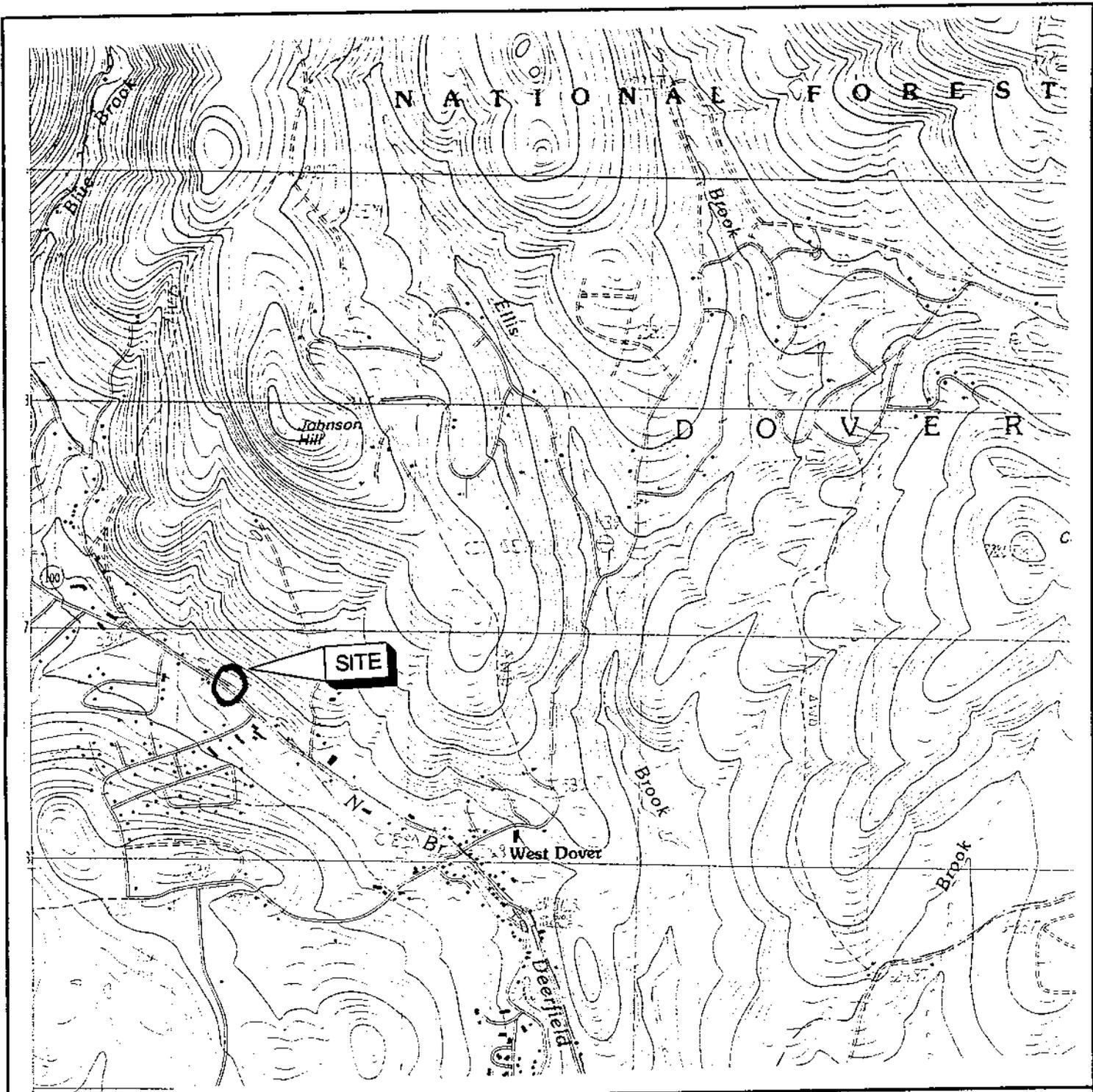
VGES - Vermont Groundwater Enforcement Standard

VOCs - Volatile Organic Compounds by EPA Method 8260

* Indicates a VT Health Advisory Limit since a VGES is not available for this constituent.

ENSR

FIGURES



Site Locus

Southland Store #32513
Route 100
West Dover, Vermont

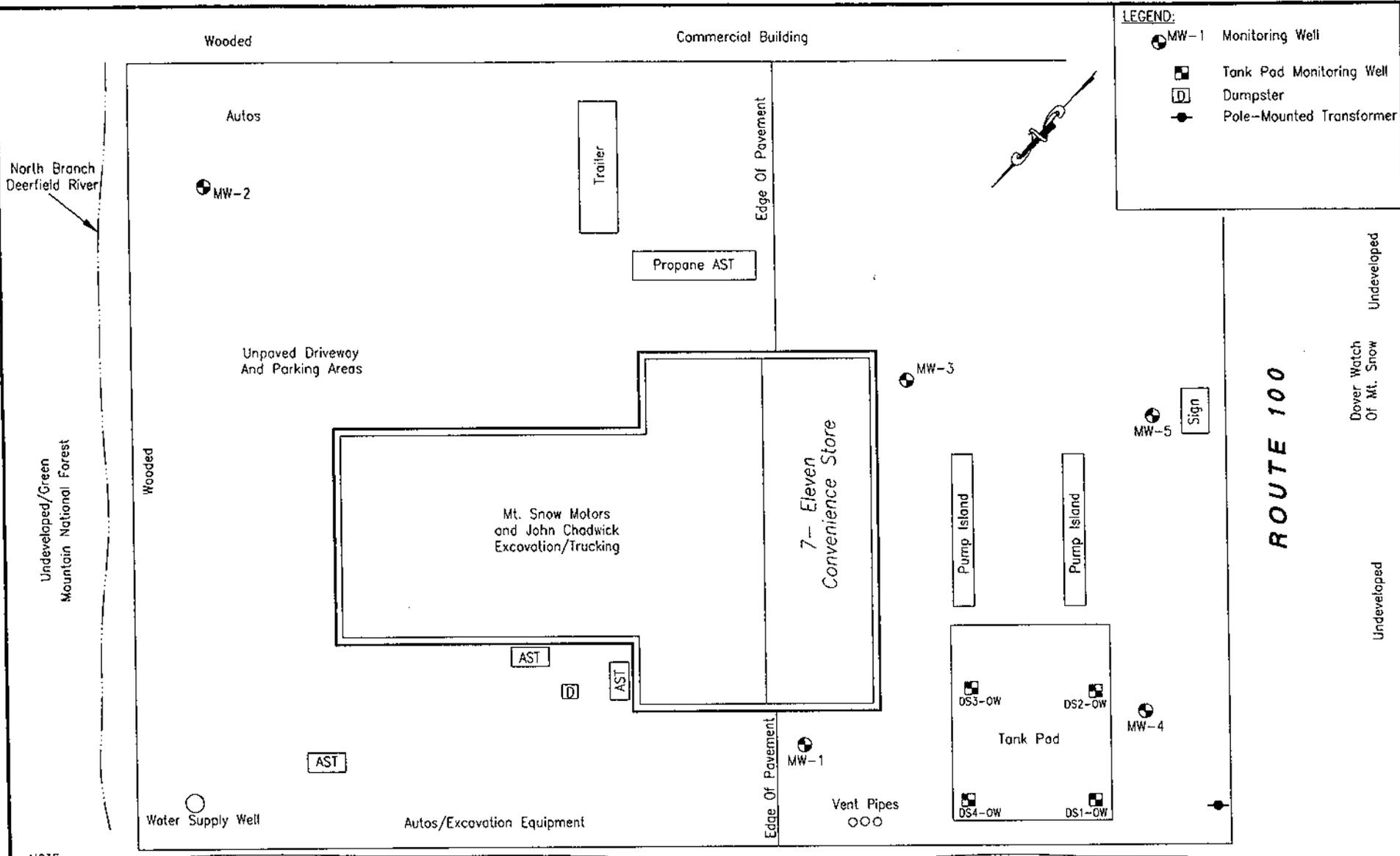
**Environmental Site
Assessment**

The Southland Corporation

Job No. 6230-398

Figure 1





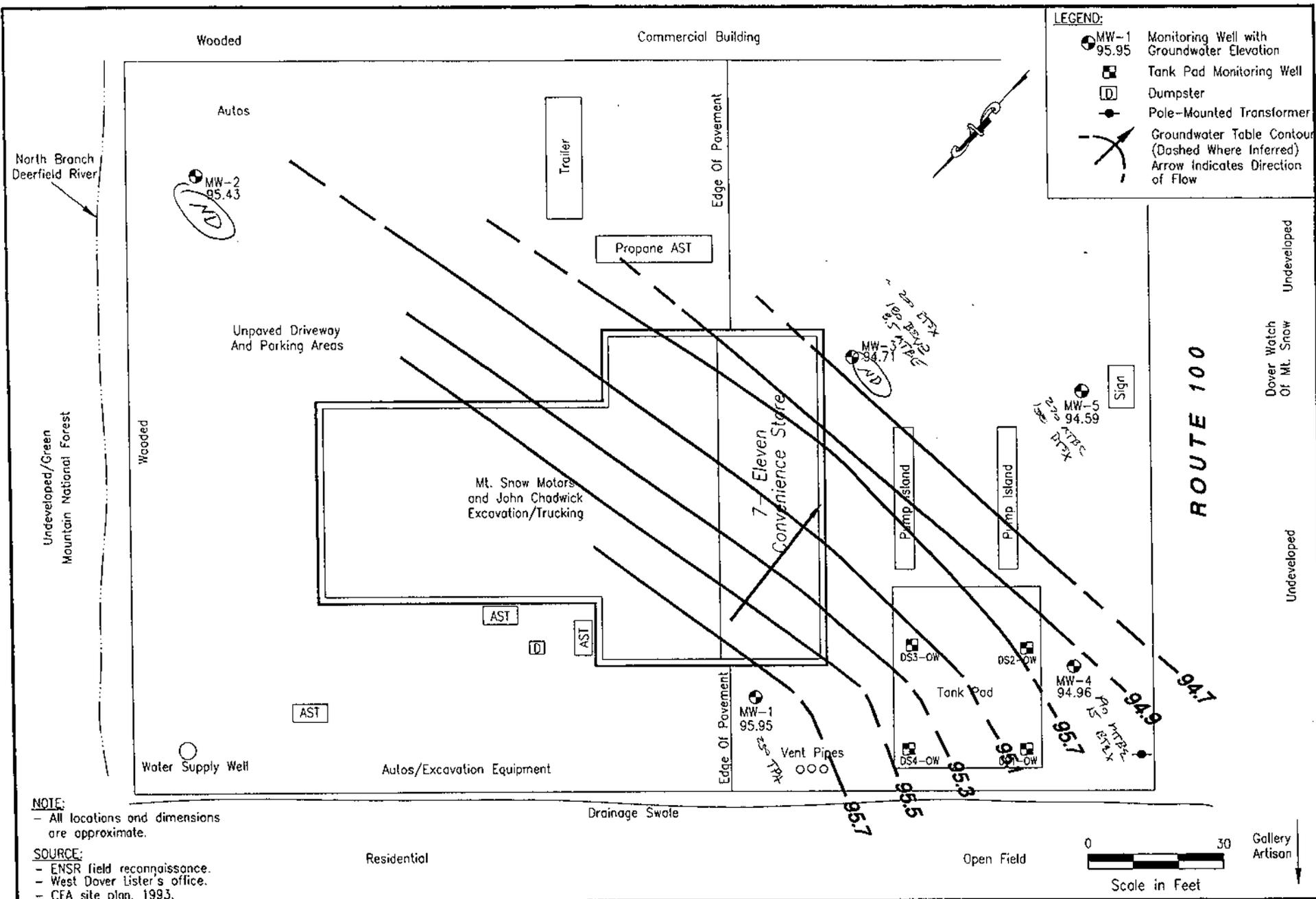
LEGEND:

- MW-1 Monitoring Well
- Tank Pad Monitoring Well
- Dumpster
- Pole-Mounted Transformer

NOTE:
 - All locations and dimensions are approximate.
SOURCE:
 - ENSR field reconnaissance.
 - West Dover Lister's office.
 - CEA site plan, 1993.

0 30
 Scale in Feet
 Gallery Artisan

Site Plan Southland Store #32513 Route 100 West Dover, Vermont	Client: The Southland Corporation	Site Assessment Activities		Figure 2	
		April 1999	Job No. 6230-398	1" = 30'±	



Groundwater Table Topography Map
 Southland Store #32513
 Route 100
 West Dover, Vermont

Client:
 The Southland Corporation

Site Assessment Activities

April 1999 Job No. 6230-398

Figure 3
 1" = 30'±



APPENDIX A
Service Constraints

SERVICE CONSTRAINTS

1. Preliminary Findings

The following limitation is applicable if the report is stamped "DRAFT" or otherwise identified as preliminary: ENSR has prepared this Preliminary Report at the specific request of the client. Due to Client imposed time, information, and financial restrictions, ENSR has not performed the services necessary for it to render any opinions or reach any conclusions. Accordingly, the studies, data, information, and findings contained in this Preliminary Report are not the final conclusions of ENSR, but merely basic information requested by the client upon which the Client may draw its own conclusions. Client agrees that ENSR shall not be liable for any claims, loss, damage, or expenses incurred by the Client or others arising out of the use of, or reliance on, any information contained in this Preliminary Report.

2. General

- A. This Report was prepared for the exclusive use of the Client. No other party is entitled to rely on the conclusions, observations, specifications, or data contained therein without the express written consent of ENSR.
- B. This Report was prepared pursuant to an Agreement between the Client and ENSR. All uses of and reliance upon this Report are subject to, and deemed acceptance of, the conditions and restrictions contained therein.

3. Purpose of Report

It is ENSR's understanding that this Report is to be used for the purpose described in the introduction of the Report. This stated purpose has been a significant factor in determining the scope and level of services provided for in the Agreement. Should the purpose for which the Report is to be used, or the proposed use of the site(s) change, this Report is no longer valid, and use of this Report by Client or others without ENSR's review and written authorization shall be at the user's sole risk. Should ENSR be required to review the Report after its date of submission, ENSR shall be entitled to additional compensation at then existing rates or such other terms as agreed between ENSR and the Client.

4. Scope of Services

The observations and conclusions described in this Report are based solely on the Scope of Services provided pursuant to the Agreement between Client and ENSR and summarized in the introduction of this Report. ENSR has not performed any additional observations, investigations, studies, or testing not specifically stated therein. ENSR shall not be liable for the existence of any condition, the discovery of which required the performance of services not authorized under the Agreement. Unless otherwise specified in the introduction of this Report, ENSR did not evaluate the presence of asbestos, electromagnetic fields, lead paint, lead or copper in water, radon gas or other radioactive or infectious materials.

5. Time

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the Report inaccurate. Accordingly, neither the Client, nor any other party, shall rely on the information or conclusions contained in this Report after three (3) months from its date of submission without the express written consent of ENSR. Reliance on the Report after such period of time shall be at the user's sole risk. Should ENSR be required to review the Report after three (3) months from its date of submission, ENSR shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the Client.

6. Conclusions

The conclusions stated in this Report are based upon: observations of existing physical and/or economic conditions; our interpretation of site history and site usage information; information provided by the Client; and information and/or analyses provided by independent testing and information services or laboratories upon which ENSR is entitled to reasonably rely. ENSR was not authorized and did not attempt to independently verify the accuracy or completeness of information or materials received from third parties during the performance of its services. ENSR shall not be liable for any conditions, information, or conclusion, the discovery of which required information not available or independent investigation of information provided to ENSR unless otherwise indicated. Any site drawing(s) provided within this Report is not meant to be an accurate base plan, but is used to present the general, relative locations of features on, and surrounding, the site.



APPENDIX B

Boring Logs

Project Number: 6230-398		Client: Southland Corp.		 155 Ois Street Northborough, Massachusetts (508)393-6779		Boring Log											
Site Location: Christy's Route 100 West Dover, VT		Project Manager: A. Mathur				Field Technician: D. Gallagher		Date Started: 2/17/99		Use: Monitoring Well							
Drilling Contractor: American		Driller: Charlie		Date Completed: 2/17/99		Equipment: Hollow Stem Auger		Well Data									
								Well Depth: 10 feet									
								Screen Depth:									
								Screen length:									
								Water Depth: 5 feet									
Depth	Sample Depth	Sample Number	Blow Counts (24")				Pen (in)	Pec (in)	Spring	Moisture	PID (ppm)	Field Identification	Description	Fill Mat.	Tube	Fill Mat.	Depth
			0-6	6-12	12-18	18-24											
1																	1
2																	2
3																	3
4																	4
5	3-5	S1	5	4	3	2			Dry	0	Black, rich organic SOIL, roots, shells, organic/septic-like						5
6																	6
7	5-7	S2	5	7	4	15			Wet	0	Same as above	Hit water					7
8																	8
9																	9
10												Bottom of Well					10
11																	11
12																	12
13																	13
14																	14
15																	15
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18																	18
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31																	31
32																	32
33																	33
34																	34
35																	35
36																	36

F: Fine; M: Medium; C: Coarse

Project Number: 6230-398		Client: Southland Corp.		 155 Otis Street Northborough, Massachusetts (508)393-6779		Boring Log											
Site Location: Christy's Route 100 West Dover, VT		Project Manager: A. Mathur				Field Technician: D. Gallagher		Date Started: 2/17/99		Use: Monitoring Well Boring Number: MW-2		Sheet: 1 of 1		Well Data			
Drilling Contractor: American		Driller: Charlie		Date Completed: 2/17/99		Equipment: Hollow Stem Auger		Well Depth: 10 feet		Screen Depth:		Water Depth: 5 feet					
Depth	Sample Depth	Sample Number	Blow Counts (24")				Pen (in)	Rec (in)	Sanding	Moisture	PID (ppm)	Field Identification	Description	FIL MBL	Tube	FIL MBL	Depth
			0-6	6-12	12-18	18-24											
1																	1
2																	2
3																	3
4																	4
5	3-5	S1	3	3	2	3				Dry	0	Black, rich organic TOPSOIL					5
6																	6
7	5-7	S2	2	5	5	4				Wet	0	Same as above	Hit water				7
8																	8
9																	9
10													Bottom of well				10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
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F: Fine; M: Medium; C: Coarse

Project Number: 6230-398 Client: Southland Corp.		ENSR. 155 Otis Street Northborough, Massachusetts (508)393-6779		Boring Log													
Site Location: Christy's Route 100 West Dover, VT				Use: Monitoring Well Boring Number: MW-3 Sheet: 1 of 1 Surface Elevation (ft-ast): Equipment: Hollow Stem Auger					Well Data Well Depth: 10 feet Screen Depth: Screen length: Water Depth: 5 feet								
Project Manager: A. Mathur		Field Technician: D. Gallagher		Date Started: 2/17/99		Inside Diameter:					Outside Diameter:						
Drilling Contractor: American		Driller: Charlie		Date Completed: 2/17/99													
Depth	Sample Depth	Sample Number	Blow Counts (24")				Pen (in)	Roc (in)	Sorting	Moisture	PID (ppm)	Field Identification	Description	Fill Mat.	Tube	Fill Mat.	Depth
			0-6	6-12	12-18	18-24											
1																	1
2																	2
3																	3
4																	4
5	3-5	S1	4	3	5	4			Dry	0	Light brown F-C SAND, some silt, some gravel	No odor, no staining					5
6																	6
7	5-7	S2	3	7	9	4			Wet	0	Same as above	Hit water					7
8																	8
9																	9
10												Bottom of well					10
11																	11
12																	12
13																	13
14																	14
15																	15
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34																	34
35																	35
36																	36

F: Fine; M: Medium; C: Coarse

Project Number: 6230-398		Client: Southland Corp.		 155 Otis Street Northborough, Massachusetts (508)393-6779										Boring Log			
Site Location: Christy's Route 100 West Dover, VT		Project Manager: A. Mathur												Field Technician: D. Gallagher		Date Started: 2/17/99	
Boring Number: MW-4		Sheet: 1 of 1		Surface Elevation (ft-asl):		Equipment: Hollow Stem Auger		Well Depth: 10 feet		Screen Depth:		Screen length:		Water Depth: 5 feet			
Depth	Sample Depth	Sample Number	Blow Counts (24")				Pen (in)	Res (in)	Sorting	Moisture	PID (ppm)	Field Identification	Description	Fill Mat.	Tube	Fill Mat.	Depth
			0-6	6-12	12-18	18-24											
1																	1
2																	2
3																	3
4																	4
5	3-5	S1	7	5	6	7			Dry	0	Light brown M-C SAND, some silt and gravel	No odor				5	
6																	6
7	5-7	S2	6	6	3	6			Wet	0	Same as above	Hit water				7	
8																	8
9																	9
10												Bottom of well					10
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35																	35
36																	36

F: Fine; M: Medium; C: Coarse

Project Number: 6230-398		Client: Southland Corp.		ENSR.										Boring Log									
Site Location: Christy's Route 100 West Dover, VT				155 Otis Street Northborough, Massachusetts (508)393-6779										Use: Monitoring Well					Well Data				
				Boring Number: MW-5					Sheet: 1 of 1					Surface Elevation (ft-asl):					Well Depth: 10 feet				
Project Manager: A. Mathur				Field Technician: D. Gallagher				Date Started: 2/17/99				Equipment: Hollow Stem Auger					Screen length:						
Drilling Contractor: American				Driller: Charlie				Date Completed: 2/17/99				Inside Diameter:					Water Depth: 5 feet						
Depth	Sample Depth	Sample Number	Blow Counts (24")				Pen (in)	Rec (in)	Sorting	Moisture	PID (ppm)	Field Identification	Description	Fill Mat.	Tube	Fill Mat.	Depth						
			0-6	6-12	12-18	18-24																	
1																	1						
2																	2						
3																	3						
4																	4						
5	3-5	S1	6	5	5	6				Dry	0	Dark brown M-C SAND, some silt, little gravel					5						
6																	6						
7	5-7	S2								Wet	0	Same as above	Hit water				7						
8																	8						
9																	9						
10												Bottom of well					10						
11																	11						
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34																	34						
35																	35						
36																	36						

F: Fine; M: Medium; C: Coarse

ENSR

APPENDIX C
Laboratory Reports



SPECTRUM ANALYTICAL, INC.

Massachusetts Certification M-MA 138
Connecticut Approval # PH 0777
Rhode Island # 98 & Maine # n/a
New Hampshire ID # 2538
New York ID #11393
Florida HRS87448

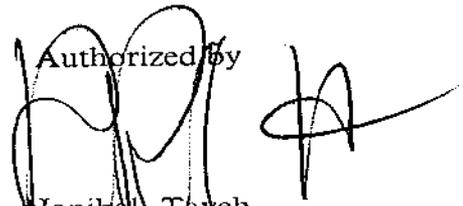
ENSR
155 Otis Street
Northboro, MA 01532

March 4, 1999

Attn: Angela Mathur

Client Project No.: 6230-398 Location: Christy's - West Dover, VT

<u>Lab ID No.</u>	<u>Client ID</u>	<u>Analysis Requested</u>
AB34524	MW1-35	EPA Method 8260 TPH Modified 8015
AB34525	MW2-35	EPA Method 8260 TPH Modified 8015
AB34526	MW3-35	EPA Method 8260 TPH Modified 8015
AB34527	MW4-35	EPA Method 8260 TPH Modified 8015
AB34528	MW5-57	EPA Method 8260 TPH Modified 8015

Authorized by 
Hanibal Tayeh
President/Laboratory Director

ENVIRONMENTAL ANALYSES

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW1-35**
Lab ID No.: **AB34524**Location: **Christy's - West Dover, VT**
Client Job No.: **6230-398**Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDRPreservative: Refrigeration
Container: 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier**Volatile Organics**

EPA Method 8260

Parameter for AB34524	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
Benzene	Not detected	14.0	02/26/99	03/01/99	DG
Bromobenzene	Not detected	14.0	02/26/99	03/01/99	DG
Bromochloromethane	Not detected	14.0	02/26/99	03/01/99	DG
Bromodichloromethane	Not detected	14.0	02/26/99	03/01/99	DG
Bromoform	Not detected	14.0	02/26/99	03/01/99	DG
n-Butylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
sec-Butylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
tert-Butylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
Carbon tetrachloride	Not detected	14.0	02/26/99	03/01/99	DG
Chlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
Chloroform	Not detected	14.0	02/26/99	03/01/99	DG
2-Chlorotoluene	Not detected	14.0	02/26/99	03/01/99	DG
4-Chlorotoluene	Not detected	14.0	02/26/99	03/01/99	DG
1,2-Dibromo-3-chloropropane	Not detected	14.0	02/26/99	03/01/99	DG
Dibromochloromethane	Not detected	14.0	02/26/99	03/01/99	DG
1,2-Dibromoethane (EDB)	Not detected	14.0	02/26/99	03/01/99	DG
Dibromomethane	Not detected	14.0	02/26/99	03/01/99	DG
1,2-Dichlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,3-Dichlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,4-Dichlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,1-Dichloroethane	Not detected	14.0	02/26/99	03/01/99	DG
1,2-Dichloroethane	Not detected	14.0	02/26/99	03/01/99	DG
1,1-Dichloroethene	Not detected	14.0	02/26/99	03/01/99	DG
cis-1,2-Dichloroethene	Not detected	14.0	02/26/99	03/01/99	DG
trans-1,2-Dichloroethene	Not detected	14.0	02/26/99	03/01/99	DG
1,2-Dichloropropane	Not detected	14.0	02/26/99	03/01/99	DG
1,3-Dichloropropane	Not detected	14.0	02/26/99	03/01/99	DG
2,2-Dichloropropane	Not detected	14.0	02/26/99	03/01/99	DG

Parameter for AB34524	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
1,1-Dichloropropene	Not detected	14.0	02/26/99	03/01/99	DG
cis-1,3-Dichloropropene	Not detected	14.0	02/26/99	03/01/99	DG
trans-1,3-Dichloropropene	Not detected	14.0	02/26/99	03/01/99	DG
Ethylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
Hexachlorobutadiene	Not detected	14.0	02/26/99	03/01/99	DG
Isopropylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
4-Isopropyltoluene	Not detected	14.0	02/26/99	03/01/99	DG
Methylene chloride	Not detected	14.0	02/26/99	03/01/99	DG
Naphthalene	Not detected	14.0	02/26/99	03/01/99	DG
n-Propylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
Styrene	Not detected	14.0	02/26/99	03/01/99	DG
1,1,1,2-Tetrachloroethane	Not detected	14.0	02/26/99	03/01/99	DG
1,1,2,2-Tetrachloroethane	Not detected	14.0	02/26/99	03/01/99	DG
Tetrachloroethene	Not detected	14.0	02/26/99	03/01/99	DG
Toluene	Not detected	14.0	02/26/99	03/01/99	DG
1,2,3-Trichlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,2,4-Trichlorobenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,1,1-Trichloroethane	Not detected	14.0	02/26/99	03/01/99	DG
1,1,2-Trichloroethane	Not detected	14.0	02/26/99	03/01/99	DG
Trichloroethene	Not detected	14.0	02/26/99	03/01/99	DG
1,2,3-Trichloropropane	Not detected	14.0	02/26/99	03/01/99	DG
1,2,4-Trimethylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
1,3,5-Trimethylbenzene	Not detected	14.0	02/26/99	03/01/99	DG
m,p-Xylenes	Not detected	28.0	02/26/99	03/01/99	DG
o-Xylene	Not detected	14.0	02/26/99	03/01/99	DG
Methyl-t-butyl ether	Not detected	14.0	02/26/99	03/01/99	DG
BFB Surrogate Recovery (%)	111		02/26/99	03/01/99	DG
p-DFB Surrogate Recovery (%)	109		02/26/99	03/01/99	DG
CLB-d5 Surrogate Recovery (%)	113		02/26/99	03/01/99	DG
% Solids	55.1	0.1	02/27/99	02/27/99	JK

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW1-35
Lab ID No: AB34524

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDR

Preservative: Refrigeration
Container : 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/Kg)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	250		02/26/99	03/02/99	LR
Fingerprint based quantification:					
Gasoline	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #2	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #4	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #6	Not detected	40	02/26/99	03/02/99	LR
Motor Oil	*	40	02/26/99	03/02/99	LR
Ligroin	Not detected	20	02/26/99	03/02/99	LR
Aviation Fuel	Not detected	20	02/26/99	03/02/99	LR
Unidentified	250		02/26/99	03/02/99	LR
Other Oil	**	40	02/26/99	03/02/99	LR
% Solids	55.1	0.1	02/27/99	02/27/99	JK

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.**Laboratory Report**Client ID: **MW2-35**
Lab ID No.: **AB34525**Location: **Christy's - West Dover, VT**
Client Job No.: **6230-398**Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDRPreservative: Refrigeration
Container: 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier**Volatile Organics**

EPA Method 8260

Parameter for AB34525	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
Benzene	Not detected	7.0	02/26/99	03/01/99	DG
Bromobenzene	Not detected	7.0	02/26/99	03/01/99	DG
Bromochloromethane	Not detected	7.0	02/26/99	03/01/99	DG
Bromodichloromethane	Not detected	7.0	02/26/99	03/01/99	DG
Bromoform	Not detected	7.0	02/26/99	03/01/99	DG
n-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
sec-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
tert-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Carbon tetrachloride	Not detected	7.0	02/26/99	03/01/99	DG
Chlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
Chloroform	Not detected	7.0	02/26/99	03/01/99	DG
2-Chlorotoluene	Not detected	7.0	02/26/99	03/01/99	DG
4-Chlorotoluene	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dibromo-3-chloropropane	Not detected	7.0	02/26/99	03/01/99	DG
Dibromochloromethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dibromoethane (EDB)	Not detected	7.0	02/26/99	03/01/99	DG
Dibromomethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,3-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,4-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,1-Dichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
cis-1,2-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
trans-1,2-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
1,3-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
2,2-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG

Parameter for AB34525	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
1,1-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
cis-1,3-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
trans-1,3-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
Ethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Hexachlorobutadiene	Not detected	7.0	02/26/99	03/01/99	DG
Isopropylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
4-Isopropyltoluene	Not detected	7.0	02/26/99	03/01/99	DG
Methylene chloride	Not detected	7.0	02/26/99	03/01/99	DG
Naphthalene	Not detected	7.0	02/26/99	03/01/99	DG
n-Propylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Styrene	Not detected	7.0	02/26/99	03/01/99	DG
1,1,1,2-Tetrachloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1,2,2-Tetrachloroethane	Not detected	7.0	02/26/99	03/01/99	DG
Tetrachloroethene	Not detected	7.0	02/26/99	03/01/99	DG
Toluene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,3-Trichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,4-Trichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,1,1-Trichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1,2-Trichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
Trichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,3-Trichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
1,2,4-Trimethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,3,5-Trimethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
m,p-Xylenes	Not detected	14.0	02/26/99	03/01/99	DG
o-Xylene	Not detected	7.0	02/26/99	03/01/99	DG
Methyl-t-butyl ether	Not detected	7.0	02/26/99	03/01/99	DG
BFB Surrogate Recovery (%)	114		02/26/99	03/01/99	DG
p-DFB Surrogate Recovery (%)	109		02/26/99	03/01/99	DG
CLB-d5 Surrogate Recovery (%)	115		02/26/99	03/01/99	DG
% Solids	84.4	0.1	02/27/99	02/27/99	JK

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW2-35
Lab ID No: AB34525

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDR

Preservative: Refrigeration
Container : 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/Kg)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	Not detected		02/27/99	02/27/99	LR
Fingerprint based quantification:					
Gasoline	Not detected	20	02/27/99	02/27/99	LR
Fuel Oil #2	Not detected	20	02/27/99	02/27/99	LR
Fuel Oil #4	Not detected	20	02/27/99	02/27/99	LR
Fuel Oil #6	Not detected	40	02/27/99	02/27/99	LR
Motor Oil	Not detected	40	02/27/99	02/27/99	LR
Ligroin	Not detected	20	02/27/99	02/27/99	LR
Aviation Fuel	Not detected	20	02/27/99	02/27/99	LR
Unidentified	Not detected		02/27/99	02/27/99	LR
Other Oil	Not detected	40	02/27/99	02/27/99	LR
% Solids	84.4	0.1	02/27/99	02/27/99	JK

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW3-35
Lab ID No.: AB34526Location: Christy's - West Dover, VT
Client Job No.: 6230-398Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDRPreservative: Refrigeration
Container: 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier**Volatile Organics**

EPA Method 8260

Parameter for AB34526	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
Benzene	Not detected	7.0	02/26/99	03/01/99	DG
Bromobenzene	Not detected	7.0	02/26/99	03/01/99	DG
Bromochloromethane	Not detected	7.0	02/26/99	03/01/99	DG
Bromodichloromethane	Not detected	7.0	02/26/99	03/01/99	DG
Bromoform	Not detected	7.0	02/26/99	03/01/99	DG
n-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
sec-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
tert-Butylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Carbon tetrachloride	Not detected	7.0	02/26/99	03/01/99	DG
Chlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
Chloroform	Not detected	7.0	02/26/99	03/01/99	DG
2-Chlorotoluene	Not detected	7.0	02/26/99	03/01/99	DG
4-Chlorotoluene	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dibromo-3-chloropropane	Not detected	7.0	02/26/99	03/01/99	DG
Dibromochloromethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dibromoethane (EDB)	Not detected	7.0	02/26/99	03/01/99	DG
Dibromomethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,3-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,4-Dichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,1-Dichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
cis-1,2-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
trans-1,2-Dichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
1,2-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
1,3-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
2,2-Dichloropropane	Not detected	7.0	02/26/99	03/01/99	DG

Parameter for AB34526	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
1,1-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
cis-1,3-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
trans-1,3-Dichloropropene	Not detected	7.0	02/26/99	03/01/99	DG
Ethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Hexachlorobutadiene	Not detected	7.0	02/26/99	03/01/99	DG
Isopropylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
4-Isopropyltoluene	Not detected	7.0	02/26/99	03/01/99	DG
Methylene chloride	Not detected	7.0	02/26/99	03/01/99	DG
Naphthalene	Not detected	7.0	02/26/99	03/01/99	DG
n-Propylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
Styrene	Not detected	7.0	02/26/99	03/01/99	DG
1,1,1,2-Tetrachloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1,2,2-Tetrachloroethane	Not detected	7.0	02/26/99	03/01/99	DG
Tetrachloroethene	Not detected	7.0	02/26/99	03/01/99	DG
Toluene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,3-Trichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,4-Trichlorobenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,1,1-Trichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
1,1,2-Trichloroethane	Not detected	7.0	02/26/99	03/01/99	DG
Trichloroethene	Not detected	7.0	02/26/99	03/01/99	DG
1,2,3-Trichloropropane	Not detected	7.0	02/26/99	03/01/99	DG
1,2,4-Trimethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
1,3,5-Trimethylbenzene	Not detected	7.0	02/26/99	03/01/99	DG
m,p-Xylenes	Not detected	14.0	02/26/99	03/01/99	DG
o-Xylene	Not detected	7.0	02/26/99	03/01/99	DG
Methyl-t-butyl ether	Not detected	7.0	02/26/99	03/01/99	DG
BFB Surrogate Recovery (%)	110		02/26/99	03/01/99	DG
p-DFB Surrogate Recovery (%)	109		02/26/99	03/01/99	DG
CLB-d5 Surrogate Recovery (%)	112		02/26/99	03/01/99	DG
% Solids	85.8	0.1	02/27/99	02/27/99	JK

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW3-35
Lab ID No: AB34526

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by DDR

Preservative: Refrigeration
Container : 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/Kg)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	Not detected		02/26/99	03/02/99	LR
Fingerprint based quantification:					
Gasoline	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #2	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #4	Not detected	20	02/26/99	03/02/99	LR
Fuel Oil #6	Not detected	40	02/26/99	03/02/99	LR
Motor Oil	Not detected	40	02/26/99	03/02/99	LR
Ligroin	Not detected	20	02/26/99	03/02/99	LR
Aviation Fuel	Not detected	20	02/26/99	03/02/99	LR
Unidentified	Not detected		02/26/99	03/02/99	LR
Other Oil	Not detected	40	02/26/99	03/02/99	LR
% Solids	85.8	0.1	02/27/99	02/27/99	JK

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.
- Fuel Oil #4 - Includes #4 Fuel Oil
- Fuel Oil #6 - includes #6 oil and bunker "C" oil.
- Motor Oil - includes virgin and waste automobile oils.
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.
- Aviation Fuels - includes Kerosene, Jet A and JP-4.
- Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW4-35
Lab ID No.: AB34527

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Volatile Organics

EPA Method 8260

Parameter for AB34527	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
Benzene	Not detected	6.3	02/26/99	03/01/99	DG
Bromobenzene	Not detected	6.3	02/26/99	03/01/99	DG
Bromochloromethane	Not detected	6.3	02/26/99	03/01/99	DG
Bromodichloromethane	Not detected	6.3	02/26/99	03/01/99	DG
Bromoform	Not detected	6.3	02/26/99	03/01/99	DG
n-Butylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
sec-Butylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
tert-Butylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
Carbon tetrachloride	Not detected	6.3	02/26/99	03/01/99	DG
Chlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
Chloroform	Not detected	6.3	02/26/99	03/01/99	DG
2-Chlorotoluene	Not detected	6.3	02/26/99	03/01/99	DG
4-Chlorotoluene	Not detected	6.3	02/26/99	03/01/99	DG
1,2-Dibromo-3-chloropropane	Not detected	6.3	02/26/99	03/01/99	DG
Dibromochloromethane	Not detected	6.3	02/26/99	03/01/99	DG
1,2-Dibromoethane (EDB)	Not detected	6.3	02/26/99	03/01/99	DG
Dibromomethane	Not detected	6.3	02/26/99	03/01/99	DG
1,2-Dichlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,3-Dichlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,4-Dichlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,1-Dichloroethane	Not detected	6.3	02/26/99	03/01/99	DG
1,2-Dichloroethane	Not detected	6.3	02/26/99	03/01/99	DG
1,1-Dichloroethene	Not detected	6.3	02/26/99	03/01/99	DG
cis-1,2-Dichloroethene	Not detected	6.3	02/26/99	03/01/99	DG
trans-1,2-Dichloroethene	Not detected	6.3	02/26/99	03/01/99	DG
1,2-Dichloropropane	Not detected	6.3	02/26/99	03/01/99	DG
1,3-Dichloropropane	Not detected	6.3	02/26/99	03/01/99	DG
2,2-Dichloropropane	Not detected	6.3	02/26/99	03/01/99	DG

Parameter for AB34527	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
1,1-Dichloropropene	Not detected	6.3	02/26/99	03/01/99	DG
cis-1,3-Dichloropropene	Not detected	6.3	02/26/99	03/01/99	DG
trans-1,3-Dichloropropene	Not detected	6.3	02/26/99	03/01/99	DG
Ethylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
Hexachlorobutadiene	Not detected	6.3	02/26/99	03/01/99	DG
Isopropylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
4-Isopropyltoluene	Not detected	6.3	02/26/99	03/01/99	DG
Methylene chloride	Not detected	6.3	02/26/99	03/01/99	DG
Naphthalene	Not detected	6.3	02/26/99	03/01/99	DG
n-Propylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
Styrene	Not detected	6.3	02/26/99	03/01/99	DG
1,1,1,2-Tetrachloroethane	Not detected	6.3	02/26/99	03/01/99	DG
1,1,2,2-Tetrachloroethane	Not detected	6.3	02/26/99	03/01/99	DG
Tetrachloroethene	Not detected	6.3	02/26/99	03/01/99	DG
Toluene	Not detected	6.3	02/26/99	03/01/99	DG
1,2,3-Trichlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,2,4-Trichlorobenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,1,1-Trichloroethane	Not detected	6.3	02/26/99	03/01/99	DG
1,1,2-Trichloroethane	Not detected	6.3	02/26/99	03/01/99	DG
Trichloroethene	Not detected	6.3	02/26/99	03/01/99	DG
1,2,3-Trichloropropane	Not detected	6.3	02/26/99	03/01/99	DG
1,2,4-Trimethylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
1,3,5-Trimethylbenzene	Not detected	6.3	02/26/99	03/01/99	DG
m,p-Xylenes	Not detected	12.6	02/26/99	03/01/99	DG
o-Xylene	Not detected	6.3	02/26/99	03/01/99	DG
Methyl-t-butyl ether	Not detected	6.3	02/26/99	03/01/99	DG
BFB Surrogate Recovery (%)	120		02/26/99	03/01/99	DG
p-DFB Surrogate Recovery (%)	109		02/26/99	03/01/99	DG
CLB-d5 Surrogate Recovery (%)	121		02/26/99	03/01/99	DG
% Solids	85.7	0.1	02/27/99	02/27/99	JK

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW4-35
Lab ID No: AB34527

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container : 1 Clear Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/Kg)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	Not detected		02/26/99	03/05/99	LR
Fingerprint based quantification:					
Gasoline	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #2	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #4	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #6	Not detected	40	02/26/99	03/05/99	LR
Motor Oil	Not detected	40	02/26/99	03/05/99	LR
Ligroin	Not detected	20	02/26/99	03/05/99	LR
Aviation Fuel	Not detected	20	02/26/99	03/05/99	LR
Unidentified	Not detected		02/26/99	03/05/99	LR
Other Oil	Not detected	40	02/26/99	03/05/99	LR
% Solids	85.7	0.1	02/27/99	02/27/99	JK

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.
- Fuel Oil #4 - Includes #4 Fuel Oil
- Fuel Oil #6 - includes #6 oil and bunker "C" oil.
- Motor Oil - includes virgin and waste automobile oils.
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.
- Aviation Fuels - includes Kerosene, Jet A and JP-4.
- Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW5-57**
Lab ID No.: **AB34528**Location: **Christy's - West Dover, VT**
Client Job No.: **6230-398**Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review byPreservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier**Volatile Organics**

EPA Method 8260

Parameter for AB34528	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
Benzene	Not detected	35.0	02/26/99	03/01/99	DG
Bromobenzene	Not detected	35.0	02/26/99	03/01/99	DG
Bromochloromethane	Not detected	35.0	02/26/99	03/01/99	DG
Bromodichloromethane	Not detected	35.0	02/26/99	03/01/99	DG
Bromoform	Not detected	35.0	02/26/99	03/01/99	DG
n-Butylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
sec-Butylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
tert-Butylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
Carbon tetrachloride	Not detected	35.0	02/26/99	03/01/99	DG
Chlorobenzene	Not detected	35.0	02/26/99	03/01/99	DG
Chloroform	Not detected	35.0	02/26/99	03/01/99	DG
2-Chlorotoluene	Not detected	35.0	02/26/99	03/01/99	DG
4-Chlorotoluene	Not detected	35.0	02/26/99	03/01/99	DG
1,2-Dibromo-3-chloropropane	Not detected	35.0	02/26/99	03/01/99	DG
Dibromochloromethane	Not detected	35.0	02/26/99	03/01/99	DG
1,2-Dibromoethane (EDB)	Not detected	35.0	02/26/99	03/01/99	DG
Dibromomethane	Not detected	35.0	02/26/99	03/01/99	DG
1,2-Dichlorobenzene	Not detected	35.0	02/26/99	03/01/99	DG
1,3-Dichlorobenzene	Not detected	35.0	02/26/99	03/01/99	DG
1,4-Dichlorobenzene	Not detected	35.0	02/26/99	03/01/99	DG
1,1-Dichloroethane	Not detected	35.0	02/26/99	03/01/99	DG
1,2-Dichloroethane	Not detected	35.0	02/26/99	03/01/99	DG
1,1-Dichloroethene	Not detected	35.0	02/26/99	03/01/99	DG
cis-1,2-Dichloroethene	Not detected	35.0	02/26/99	03/01/99	DG
trans-1,2-Dichloroethene	Not detected	35.0	02/26/99	03/01/99	DG
1,2-Dichloropropane	Not detected	35.0	02/26/99	03/01/99	DG
1,3-Dichloropropane	Not detected	35.0	02/26/99	03/01/99	DG
2,2-Dichloropropane	Not detected	35.0	02/26/99	03/01/99	DG

Parameter for AB34528	Result (ug/Kg)	MDL	Extracted	Analyzed	Analyst
1,1-Dichloropropene	Not detected	35.0	02/26/99	03/01/99	DG
cis-1,3-Dichloropropene	Not detected	35.0	02/26/99	03/01/99	DG
trans-1,3-Dichloropropene	Not detected	35.0	02/26/99	03/01/99	DG
Ethylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
Hexachlorobutadiene	Not detected	35.0	02/26/99	03/01/99	DG
Isopropylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
4-Isopropyltoluene	Not detected	35.0	02/26/99	03/01/99	DG
Methylene chloride	Not detected	35.0	02/26/99	03/01/99	DG
Naphthalene	Not detected	70.0	02/26/99	03/01/99	DG
n-Propylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
Styrene	Not detected	35.0	02/26/99	03/01/99	DG
1,1,1,2-Tetrachloroethane	Not detected	35.0	02/26/99	03/01/99	DG
1,1,2,2-Tetrachloroethane	Not detected	35.0	02/26/99	03/01/99	DG
Tetrachloroethene	Not detected	35.0	02/26/99	03/01/99	DG
Toluene	Not detected	35.0	02/26/99	03/01/99	DG
1,2,3-Trichlorobenzene	Not detected	70.0	02/26/99	03/01/99	DG
1,2,4-Trichlorobenzene	Not detected	35.0	02/26/99	03/01/99	DG
1,1,1-Trichloroethane	Not detected	35.0	02/26/99	03/01/99	DG
1,1,2-Trichloroethane	Not detected	35.0	02/26/99	03/01/99	DG
Trichloroethene	Not detected	35.0	02/26/99	03/01/99	DG
1,2,3-Trichloropropane	Not detected	35.0	02/26/99	03/01/99	DG
1,2,4-Trimethylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
1,3,5-Trimethylbenzene	Not detected	35.0	02/26/99	03/01/99	DG
m,p-Xylenes	Not detected	70.0	02/26/99	03/01/99	DG
o-Xylene	Not detected	35.0	02/26/99	03/01/99	DG
Methyl-t-butyl ether	Not detected	35.0	02/26/99	03/01/99	DG
BFB Surrogate Recovery (%)	112		02/26/99	03/01/99	DG
p-DFB Surrogate Recovery (%)	111		02/26/99	03/01/99	DG
CLB-d5 Surrogate Recovery (%)	116		02/26/99	03/01/99	DG
% Solids	83.5	0.1	02/27/99	02/27/99	JK

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW5-57
Lab ID No: AB34528

Location: Christy's - West Dover, VT
Client Job No.: 6230-398

Matrix: Soil
Collected: 02/17/99 by ENSR
Received on 02/22/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container : 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC Modified EPA Method 8015

Parameter	Result (mg/Kg)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	200		02/26/99	03/05/99	LR
Fingerprint based quantification:					
Gasoline	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #2	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #4	Not detected	20	02/26/99	03/05/99	LR
Fuel Oil #6	Not detected	40	02/26/99	03/05/99	LR
Motor Oil	200	40	02/26/99	03/05/99	LR
Ligroin	Not detected	20	02/26/99	03/05/99	LR
Aviation Fuel	Not detected	20	02/26/99	03/05/99	LR
Unidentified	Not detected		02/26/99	03/05/99	LR
Other Oil	Not detected	40	02/26/99	03/05/99	LR
% Solids	83.5	0.1	02/27/99	02/27/99	JK

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.
- Fuel Oil #4 - Includes #4 Fuel Oil
- Fuel Oil #6 - includes #6 oil and bunker "C" oil.
- Motor Oil - includes virgin and waste automobile oils.
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.
- Aviation Fuels - includes Kerosene, Jet A and JP-4.
- Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

Spectrum Analytical, Inc.

Laboratory Report Supplement

References

- Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/4-88/039. EMSL 1988.
- Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. EMSL 1983.
- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater. EPA 600/4-82-057. EMSL 1982.
- Test Methods for Evaluating Solid Waste. Physical/Chemical Methods. EPA SW-846. 1986.
- Standard Methods for the Examination of Water and Wastes. APHA-AWWA-WPCF. 16th Edition. 1985.
- Standard Methods for Comparison of Waterborne Petroleum Oils by Gas Chromatography. ASTM D 3328. 1982.
- Oil Spill Identification System. U.S. Coast Guard CG-D-52-77. 1977.
- Handbook for Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019. EMSL 1979.
- Choosing Cost-Effective QA/QC (Quality Assurance/Quality Control) Programs for Chemical Analyses. EPA 600/4-85/056. EMSL 1985.

Report Notations

Not Detected,	=	<i>The compound was not detected at a concentration equal to or above the established method detection limit.</i>	
Not Det, ND or nd	=	<i>Not Calculated</i>	
NC	=	<i>EPA Maximum Contamination Level</i>	
MCL	=	<i>Volatile Organic Analysis</i>	
VOA	=	<i>4-Bromofluorobenzene</i>	<i>(An EPA 624 Surrogate)</i>
BFB	=	<i>1,4-Difluorobenzene</i>	<i>(An EPA 624 Surrogate)</i>
p-DFB	=	<i>Chlorobenzene-d5</i>	<i>(An EPA 624 Surrogate)</i>
CLB-d5	=	<i>2-Bromo-1-chloropropane</i>	<i>(An EPA 601 Surrogate)</i>
BCP	=	<i>a,a,a-Trifluorotoluene</i>	<i>(An EPA 602 Surrogate)</i>
TFT	=	<i>(an EPA 608/8080 Surrogate)</i>	
Decachlorobiphenyl	=		

Definitions

Surrogate Recovery = The recovery (expressed as a percent) of a non-method analyte (see surrogates listed above) added to the sample for the purpose of monitoring system performance.

Matrix Spike Recovery = The recovery (expressed as a percent) of method analytes added to the sample for the purpose of determining any effect of sample composition on analyte recovery.

Laboratory Replicate = Two sample aliquots taken in the analytical laboratory and analyzed separately with identical procedures. Analyses of laboratory duplicates give a measure of the precision associated with laboratory procedures, but not with sample collection, preservation, or storage procedures.

Field Duplicate = Two separate samples collected at the same time and place under identical circumstances and treated exactly the same throughout field and laboratory procedures. Analysis of Field duplicates give a measure of the precision associated with sample collection, preservation and storage, as well as with laboratory procedures.

Relative Percent Difference (% RPD) = The precision measurement obtained on duplicate/replicate analyses. %RPD is calculated as:

$$\%RPD = \frac{(\text{value1} - \text{value2})}{\text{ave. value}} * 100\%$$



CHAIN OF CUSTODY RECORD

Page 1 of

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval; min. 24 hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Angela Mathur
ENSR - NORTHBORO
 Project Mgr.: SAME

Invoice To: SAME
 P.O. No.: _____ RQN: _____

Project No.: 6230 398
 Site Name: CHRISTY'S
 Location: WEST DOVER State: VT
 Sampler(s): D. Gallagher

1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=MeOH 7=_____
 DW=Drinking Water GW=Ground Water WW=Waste Water
 SO=Soil SL=Sludge O=Oil X1=_____ X2=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	pH	Containers:				Analyses:		Notes:	
								# Of VOA Vials	# Of Amber Glass	# Of Clear Glass	# Of Plastic				
AB 24521	MW1-35	2/17/99	1000	G	So	1			1	1			X	X	
AB 30125	MW2-35	↓	1100	↓	↓	1				2			X	X	
AB 30126	MW3-35	↓	1200	↓	↓	1				2			X	X	
AB 30127	MW4-35	↓	1300	↓	↓	1				2			X	X	
AB 30128	MW5-57	✓	1400	↓	↓	1			2				X	X	
AB															
AB															
AB															
AB															
AB															

Additional Instructions: Analyses per fax
from ENSR 2/23/99
 Fax results when available to (508) 393-8647

Relinquished By:	Received By:	Date:	Time:
<u>D. Gallagher</u>	<u>E. Mendron</u>	<u>2/22/99</u>	<u>0900</u>
<u>E. Mendron</u>	<u>D. Gallagher</u>	<u>2-22-99</u>	<u>16:15</u>



SPECTRUM ANALYTICAL, INC.

Massachusetts Certification M-MA 138
Connecticut Approval # PH 0777
Rhode Island # 98 & Maine # n/a
New Hampshire ID # 2538
New York ID #11393
Florida HRS87448

RECEIVED
MAR 18 1999

ENSR
155 Otis Street
Northboro, MA 01532

March 16, 1999

Attn: Angela Mathur

Client Project No.: 6230-398 Location: West Dover, VT

<u>Lab ID No.</u>	<u>Client ID</u>	<u>Analysis Requested</u>
AB35560	MW-5	EPA Method 8260 TPH Modified 8015
AB35561	MW-4	EPA Method 8260 TPH Modified 8015
AB35562	MW-3	TPH Modified 8015 EPA Method 8260
AB35563	MW-1	EPA Method 8260 TPH Modified 8015
AB35564	MW-2	EPA Method 8260 TPH Modified 8015

Authorized by

Hanibal Tayeh
President/Laboratory Director

ENVIRONMENTAL ANALYSES

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW-1**
Lab ID No: **AB35563**Location: **West Dover, VT**
Client Job No.: **6230-398**Matrix: **Ground Water**
Sampled on **03/02/99** by **ENSR**
Received on **03/03/99** by **DDR**
QC and Data Review byPreservative: **Refrigeration, HCl**
Container : **2 VOA Vials**
Condition of Sample as Received: **Satisfactory**
Delivered by: **Courier****Volatile Organics**

EPA Method 8260

Parameter for AB35563	Result (ug/L)	MDL	Analyzed	Analyst
Benzene	Not detected	1.0	03/12/99	CD
Bromobenzene	Not detected	1.0	03/12/99	CD
Bromochloromethane	Not detected	1.0	03/12/99	CD
Bromodichloromethane	Not detected	1.0	03/12/99	CD
Bromoform	Not detected	1.0	03/12/99	CD
Bromomethane	Not detected	1.0	03/12/99	CD
n-Butylbenzene	Not detected	1.0	03/12/99	CD
sec-Butylbenzene	Not detected	1.0	03/12/99	CD
tert-Butylbenzene	Not detected	1.0	03/12/99	CD
Carbon tetrachloride	Not detected	1.0	03/12/99	CD
Chlorobenzene	Not detected	1.0	03/12/99	CD
Chloroethane	Not detected	1.0	03/12/99	CD
Chloroform	Not detected	1.0	03/12/99	CD
Chloromethane	Not detected	1.0	03/12/99	CD
2-Chlorotoluene	Not detected	1.0	03/12/99	CD
4-Chlorotoluene	Not detected	1.0	03/12/99	CD
1,2-Dibromo-3-chloropropane	Not detected	1.0	03/12/99	CD
Dibromochloromethane	Not detected	1.0	03/12/99	CD
1,2-Dibromoethane (EDB)	Not detected	1.0	03/12/99	CD
Dibromomethane	Not detected	1.0	03/12/99	CD
1,2-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,3-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,4-Dichlorobenzene	Not detected	1.0	03/12/99	CD
Dichlorodifluoromethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethane	Not detected	1.0	03/12/99	CD
1,2-Dichloroethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethene	Not detected	1.0	03/12/99	CD
cis-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
trans-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
1,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,3-Dichloropropane	Not detected	1.0	03/12/99	CD
2,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,1-Dichloropropene	Not detected	1.0	03/12/99	CD
cis-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD

Volatile Organics
EPA Method 8260

Parameter for AB35563	Result (ug/L)	MDL	Analyzed	Analyst
trans-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD
Ethylbenzene	Not detected	1.0	03/12/99	CD
Hexachlorobutadiene	Not detected	1.0	03/12/99	CD
Isopropylbenzene	Not detected	1.0	03/12/99	CD
4-Isopropyltoluene	Not detected	1.0	03/12/99	CD
Methylene chloride	Not detected	1.0	03/12/99	CD
Naphthalene	Not detected	1.0	03/12/99	CD
n-Propylbenzene	Not detected	1.0	03/12/99	CD
Styrene	Not detected	1.0	03/12/99	CD
1,1,1,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
1,1,2,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
Tetrachloroethene	Not detected	1.0	03/12/99	CD
Toluene	Not detected	1.0	03/12/99	CD
1,2,3-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,2,4-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,1,1-Trichloroethane	Not detected	1.0	03/12/99	CD
1,1,2-Trichloroethane	Not detected	1.0	03/12/99	CD
Trichloroethene	Not detected	1.0	03/12/99	CD
Trichlorofluoromethane	Not detected	1.0	03/12/99	CD
1,2,3-Trichloropropane	Not detected	1.0	03/12/99	CD
1,2,4-Trimethylbenzene	Not detected	1.0	03/12/99	CD
1,3,5-Trimethylbenzene	Not detected	1.0	03/12/99	CD
m,p-Xylenes	Not detected	2.0	03/12/99	CD
o-Xylene	Not detected	1.0	03/12/99	CD
Vinyl chloride	Not detected	1.0	03/12/99	CD
Methyl-t-butyl ether	8.9	1.0	03/12/99	CD
BFB Surrogate Recovery (%)	118		03/12/99	CD
p-DFB Surrogate Recovery (%)	104		03/12/99	CD
CLB-d5 Surrogate Recovery (%)	118		03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-1
Lab ID No: AB35563

Location: West Dover, VT
Client Job No: 6230-398

Matrix: Ground Water
Collected: 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	Not detected		03/09/99	03/10/99	LR
Fingerprint based quantification					
Gasoline	Not detected	0.2	03/09/99	03/10/99	LR
Fuel Oil #2	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #4	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #6	Not detected	0.7	03/09/99	03/10/99	LR
Motor Oil	Not detected	0.5	03/09/99	03/10/99	LR
Ligroin	Not detected	0.3	03/09/99	03/10/99	LR
Aviation Fuel	Not detected	0.3	03/09/99	03/10/99	LR
Other	Not detected	0.5	03/09/99	03/10/99	LR
Unidentified	Not detected		03/09/99	03/10/99	LR

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

Volatile Organics
EPA Method 8260

Parameter for AB35564	Result (ug/L)	MDL	Analyzed	Analyst
trans-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD
Ethylbenzene	Not detected	1.0	03/12/99	CD
Hexachlorobutadiene	Not detected	1.0	03/12/99	CD
Isopropylbenzene	Not detected	1.0	03/12/99	CD
4-Isopropyltoluene	Not detected	1.0	03/12/99	CD
Methylene chloride	Not detected	1.0	03/12/99	CD
Naphthalene	Not detected	1.0	03/12/99	CD
n-Propylbenzene	Not detected	1.0	03/12/99	CD
Styrene	Not detected	1.0	03/12/99	CD
1,1,1,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
1,1,2,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
Tetrachloroethene	Not detected	1.0	03/12/99	CD
Toluene	Not detected	1.0	03/12/99	CD
1,2,3-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,2,4-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,1,1-Trichloroethane	Not detected	1.0	03/12/99	CD
1,1,2-Trichloroethane	Not detected	1.0	03/12/99	CD
Trichloroethene	Not detected	1.0	03/12/99	CD
Trichlorofluoromethane	Not detected	1.0	03/12/99	CD
1,2,3-Trichloropropane	Not detected	1.0	03/12/99	CD
1,2,4-Trimethylbenzene	Not detected	1.0	03/12/99	CD
1,3,5-Trimethylbenzene	Not detected	1.0	03/12/99	CD
m,p-Xylenes	Not detected	2.0	03/12/99	CD
o-Xylene	Not detected	1.0	03/12/99	CD
Vinyl chloride	Not detected	1.0	03/12/99	CD
Methyl-t-butyl ether	Not detected	2.0	03/12/99	CD
BFB Surrogate Recovery (%)	116		03/12/99	CD
p-DFB Surrogate Recovery (%)	107		03/12/99	CD
CLB-d5 Surrogate Recovery (%)	124		03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW-2**
 Lab ID No: **AB35564**

Location: **West Dover, VT**
 Client Job No.: **6230-398**

Matrix: **Ground Water**
 Sampled on 03/02/99 by ENSR
 Received on 03/03/99 by DDR
 QC and Data Review by

Preservative: Refrigeration, HCl
 Container : 2 VOA Vials
 Condition of Sample as Received: Satisfactory
 Delivered by: Courier

Volatile Organics

EPA Method 8260

Parameter for AB35564	Result (ug/L)	MDL	Analyzed	Analyst
Benzene	Not detected	2.0	03/12/99	CD
Bromobenzene	Not detected	1.0	03/12/99	CD
Bromochloromethane	Not detected	1.0	03/12/99	CD
Bromodichloromethane	Not detected	1.0	03/12/99	CD
Bromoform	Not detected	1.0	03/12/99	CD
Bromomethane	Not detected	1.0	03/12/99	CD
n-Butylbenzene	Not detected	1.0	03/12/99	CD
sec-Butylbenzene	Not detected	1.0	03/12/99	CD
tert-Butylbenzene	Not detected	1.0	03/12/99	CD
Carbon tetrachloride	Not detected	1.0	03/12/99	CD
Chlorobenzene	Not detected	1.0	03/12/99	CD
Chloroethane	Not detected	1.0	03/12/99	CD
Chloroform	Not detected	1.0	03/12/99	CD
Chloromethane	Not detected	1.0	03/12/99	CD
2-Chlorotoluene	Not detected	1.0	03/12/99	CD
4-Chlorotoluene	Not detected	1.0	03/12/99	CD
1,2-Dibromo-3-chloropropane	Not detected	1.0	03/12/99	CD
Dibromochloromethane	Not detected	1.0	03/12/99	CD
1,2-Dibromoethane (EDB)	Not detected	1.0	03/12/99	CD
Dibromomethane	Not detected	1.0	03/12/99	CD
1,2-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,3-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,4-Dichlorobenzene	Not detected	1.0	03/12/99	CD
Dichlorodifluoromethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethane	Not detected	1.0	03/12/99	CD
1,2-Dichloroethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethene	Not detected	1.0	03/12/99	CD
cis-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
trans-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
1,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,3-Dichloropropane	Not detected	1.0	03/12/99	CD
2,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,1-Dichloropropene	Not detected	1.0	03/12/99	CD
cis-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-2
Lab ID No: AB35564

Location: West Dover, VT
Client Job No: 6230-398

Matrix: Ground Water
Collected: 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	Not detected		03/09/99	03/10/99	LR
Fingerprint based quantification					
Gasoline	Not detected	0.2	03/09/99	03/10/99	LR
Fuel Oil #2	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #4	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #6	Not detected	0.7	03/09/99	03/10/99	LR
Motor Oil	Not detected	0.5	03/09/99	03/10/99	LR
Ligroin	Not detected	0.3	03/09/99	03/10/99	LR
Aviation Fuel	Not detected	0.3	03/09/99	03/10/99	LR
Other	Not detected	0.5	03/09/99	03/10/99	LR
Unidentified	Not detected		03/09/99	03/10/99	LR

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-3
Lab ID No: AB35562Location: West Dover, VT
Client Job No.: 6230-398Matrix: Ground Water
Sampled on 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review byPreservative: Refrigeration, HCl
Container : 2 VOA Vials
Condition of Sample as Received: Satisfactory
Delivered by: Courier**Volatile Organics**

EPA Method 8260

Parameter for AB35562	Result (ug/L)	MDL	Analyzed	Analyst
Benzene	180	1.0	03/12/99	CD
Bromobenzene	Not detected	1.0	03/12/99	CD
Bromochloromethane	Not detected	1.0	03/12/99	CD
Bromodichloromethane	Not detected	1.0	03/12/99	CD
Bromoform	Not detected	1.0	03/12/99	CD
Bromomethane	Not detected	1.0	03/12/99	CD
n-Butylbenzene	1.6	1.0	03/12/99	CD
sec-Butylbenzene	Not detected	1.0	03/12/99	CD
tert-Butylbenzene	Not detected	1.0	03/12/99	CD
Carbon tetrachloride	Not detected	1.0	03/12/99	CD
Chlorobenzene	Not detected	1.0	03/12/99	CD
Chloroethane	Not detected	1.0	03/12/99	CD
Chloroform	Not detected	1.0	03/12/99	CD
Chloromethane	Not detected	1.0	03/12/99	CD
2-Chlorotoluene	Not detected	1.0	03/12/99	CD
4-Chlorotoluene	Not detected	1.0	03/12/99	CD
1,2-Dibromo-3-chloropropane	Not detected	1.0	03/12/99	CD
Dibromochloromethane	Not detected	1.0	03/12/99	CD
1,2-Dibromoethane (EDB)	Not detected	1.0	03/12/99	CD
Dibromomethane	Not detected	1.0	03/12/99	CD
1,2-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,3-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,4-Dichlorobenzene	Not detected	1.0	03/12/99	CD
Dichlorodifluoromethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethane	Not detected	1.0	03/12/99	CD
1,2-Dichloroethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethene	Not detected	1.0	03/12/99	CD
cis-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
trans-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
1,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,3-Dichloropropane	Not detected	1.0	03/12/99	CD
2,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,1-Dichloropropene	Not detected	1.0	03/12/99	CD
cis-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD

Volatile Organics
EPA Method 8260

Parameter for AB35562	Result (ug/L)	MDL	Analyzed	Analyst
trans-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD
Ethylbenzene	5.2	1.0	03/12/99	CD
Hexachlorobutadiene	Not detected	1.0	03/12/99	CD
Isopropylbenzene	3.1	1.0	03/12/99	CD
4-Isopropyltoluene	Not detected	1.0	03/12/99	CD
Methylene chloride	Not detected	1.0	03/12/99	CD
Naphthalene	2.5	1.0	03/12/99	CD
n-Propylbenzene	3.3	1.0	03/12/99	CD
Styrene	Not detected	1.0	03/12/99	CD
1,1,1,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
1,1,2,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
Tetrachloroethene	Not detected	1.0	03/12/99	CD
Toluene	15	1.0	03/12/99	CD
1,2,3-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,2,4-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,1,1-Trichloroethane	Not detected	1.0	03/12/99	CD
1,1,2-Trichloroethane	Not detected	1.0	03/12/99	CD
Trichloroethene	Not detected	1.0	03/12/99	CD
Trichlorofluoromethane	Not detected	1.0	03/12/99	CD
1,2,3-Trichloropropane	Not detected	1.0	03/12/99	CD
1,2,4-Trimethylbenzene	37	1.0	03/12/99	CD
1,3,5-Trimethylbenzene	9.3	1.0	03/12/99	CD
m,p-Xylenes	100	2.0	03/12/99	CD
o-Xylene	44	1.0	03/12/99	CD
Vinyl chloride	Not detected	1.0	03/12/99	CD
Methyl-t-butyl ether	8.5	1.0	03/12/99	CD
BFB Surrogate Recovery (%)	124		03/12/99	CD
p-DFB Surrogate Recovery (%)	107		03/12/99	CD
CLB-d5 Surrogate Recovery (%)	125		03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-3
Lab ID No: AB35562

Location: West Dover, VT
Client Job No: 6230-398

Matrix: Ground Water
Collected: 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	1.3		03/09/99	03/10/99	LR
Fingerprint based quantification					
Gasoline	*	0.2	03/09/99	03/10/99	LR
Fuel Oil #2	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #4	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #6	Not detected	0.7	03/09/99	03/10/99	LR
Motor Oil	Not detected	0.5	03/09/99	03/10/99	LR
Ligroin	Not detected	0.3	03/09/99	03/10/99	LR
Aviation Fuel	Not detected	0.3	03/09/99	03/10/99	LR
Other	**	0.5	03/09/99	03/10/99	LR
Unidentified	1.3		03/09/99	03/10/99	LR

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW-4**
 Lab ID No: **AB35561**

Location: **West Dover, VT**
 Client Job No.: **6230-398**

Matrix: **Ground Water**
 Sampled on **03/02/99** by **ENSR**
 Received on **03/03/99** by **DDR**
 QC and Data Review by

Preservative: **Refrigeration, HCl**
 Container : **2 VOA Vials**
 Condition of Sample as Received: **Satisfactory**
 Delivered by: **Courier**

Volatile Organics

EPA Method 8260

Parameter for AB35561	Result (ug/L)	MDL	Analyzed	Analyst
Benzene	Not detected	2.5	03/12/99	CD
Bromobenzene	Not detected	2.5	03/12/99	CD
Bromochloromethane	Not detected	2.5	03/12/99	CD
Bromodichloromethane	Not detected	2.5	03/12/99	CD
Bromoform	Not detected	3.5	03/12/99	CD
Bromomethane	Not detected	2.5	03/12/99	CD
n-Butylbenzene	Not detected	2.5	03/12/99	CD
sec-Butylbenzene	Not detected	2.5	03/12/99	CD
tert-Butylbenzene	Not detected	2.5	03/12/99	CD
Carbon tetrachloride	Not detected	2.5	03/12/99	CD
Chlorobenzene	Not detected	2.5	03/12/99	CD
Chloroethane	Not detected	2.5	03/12/99	CD
Chloroform	Not detected	2.5	03/12/99	CD
Chloromethane	Not detected	2.5	03/12/99	CD
2-Chlorotoluene	Not detected	2.5	03/12/99	CD
4-Chlorotoluene	Not detected	2.5	03/12/99	CD
1,2-Dibromo-3-chloropropane	Not detected	2.5	03/12/99	CD
Dibromochloromethane	Not detected	2.5	03/12/99	CD
1,2-Dibromoethane (EDB)	Not detected	2.5	03/12/99	CD
Dibromomethane	Not detected	2.5	03/12/99	CD
1,2-Dichlorobenzene	Not detected	2.5	03/12/99	CD
1,3-Dichlorobenzene	Not detected	2.5	03/12/99	CD
1,4-Dichlorobenzene	Not detected	2.5	03/12/99	CD
Dichlorodifluoromethane	Not detected	2.5	03/12/99	CD
1,1-Dichloroethane	Not detected	2.5	03/12/99	CD
1,2-Dichloroethane	Not detected	2.5	03/12/99	CD
1,1-Dichloroethene	Not detected	2.5	03/12/99	CD
cis-1,2-Dichloroethene	Not detected	2.5	03/12/99	CD
trans-1,2-Dichloroethene	Not detected	2.5	03/12/99	CD
1,2-Dichloropropane	Not detected	2.5	03/12/99	CD
1,3-Dichloropropane	Not detected	2.5	03/12/99	CD
2,2-Dichloropropane	Not detected	2.5	03/12/99	CD
1,1-Dichloropropene	Not detected	2.5	03/12/99	CD
cis-1,3-Dichloropropene	Not detected	2.5	03/12/99	CD

Volatile Organics

EPA Method 8260

Parameter for AB35561	Result (ug/L)	MDL	Analyzed	Analyst
trans-1,3-Dichloropropene	Not detected	2.5	03/12/99	CD
Ethylbenzene	Not detected	2.5	03/12/99	CD
Hexachlorobutadiene	Not detected	2.5	03/12/99	CD
Isopropylbenzene	Not detected	2.5	03/12/99	CD
4-Isopropyltoluene	Not detected	2.5	03/12/99	CD
Methylene chloride	Not detected	2.5	03/12/99	CD
Naphthalene	Not detected	2.5	03/12/99	CD
n-Propylbenzene	Not detected	2.5	03/12/99	CD
Styrene	Not detected	2.5	03/12/99	CD
1,1,1,2-Tetrachloroethane	Not detected	2.5	03/12/99	CD
1,1,2,2-Tetrachloroethane	Not detected	2.5	03/12/99	CD
Tetrachloroethene	Not detected	2.5	03/12/99	CD
Toluene	7.8	2.5	03/12/99	CD
1,2,3-Trichlorobenzene	Not detected	2.5	03/12/99	CD
1,2,4-Trichlorobenzene	Not detected	2.5	03/12/99	CD
1,1,1-Trichloroethane	Not detected	2.5	03/12/99	CD
1,1,2-Trichloroethane	Not detected	2.5	03/12/99	CD
Trichloroethene	Not detected	2.5	03/12/99	CD
Trichlorofluoromethane	Not detected	2.5	03/12/99	CD
1,2,3-Trichloropropane	Not detected	2.5	03/12/99	CD
1,2,4-Trimethylbenzene	3.6	2.5	03/12/99	CD
1,3,5-Trimethylbenzene	Not detected	2.5	03/12/99	CD
m,p-Xylenes	6.7	5.0	03/12/99	CD
o-Xylene	2.8	2.5	03/12/99	CD
Vinyl chloride	Not detected	2.5	03/12/99	CD
Methyl-t-butyl ether	190	2.5	03/12/99	CD
BFB Surrogate Recovery (%)	113		03/12/99	CD
p-DFB Surrogate Recovery (%)	105		03/12/99	CD
CLB-d5 Surrogate Recovery (%)	123		03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-4
Lab ID No: AB35561

Location: West Dover, VT
Client Job No: 6230-398

Matrix: Ground Water
Collected: 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	0.3		03/09/99	03/10/99	LR
Fingerprint based quantification					
Gasoline	*	0.2	03/09/99	03/10/99	LR
Fuel Oil #2	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #4	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #6	Not detected	0.7	03/09/99	03/10/99	LR
Motor Oil	Not detected	0.5	03/09/99	03/10/99	LR
Ligroin	Not detected	0.3	03/09/99	03/10/99	LR
Aviation Fuel	Not detected	0.3	03/09/99	03/10/99	LR
Other	Not detected	0.5	03/09/99	03/10/99	LR
Unidentified	0.3		03/09/99	03/10/99	LR

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: **MW-5**
Lab ID No: **AB35560**Location: **West Dover, VT**
Client Job No.: **6230-398**Matrix: **Ground Water**
Sampled on 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review byPreservative: **Refrigeration, HCl**
Container : **2 VOA Vials**
Condition of Sample as Received: **Satisfactory**
Delivered by: **Courier****Volatile Organics**

EPA Method 8260

Parameter for AB35560	Result (ug/L)	MDL	Analyzed	Analyst
Benzene	17	1.0	03/12/99	CD
Bromobenzene	Not detected	1.0	03/12/99	CD
Bromochloromethane	Not detected	1.0	03/12/99	CD
Bromodichloromethane	Not detected	1.0	03/12/99	CD
Bromoform	Not detected	1.0	03/12/99	CD
Bromomethane	Not detected	2.0	03/12/99	CD
n-Butylbenzene	2.4	1.0	03/12/99	CD
sec-Butylbenzene	1.7	1.0	03/12/99	CD
tert-Butylbenzene	Not detected	1.0	03/12/99	CD
Carbon tetrachloride	Not detected	1.0	03/12/99	CD
Chlorobenzene	Not detected	1.0	03/12/99	CD
Chloroethane	Not detected	1.0	03/12/99	CD
Chloroform	Not detected	1.0	03/12/99	CD
Chloromethane	Not detected	1.0	03/12/99	CD
2-Chlorotoluene	Not detected	1.0	03/12/99	CD
4-Chlorotoluene	Not detected	1.0	03/12/99	CD
1,2-Dibromo-3-chloropropane	Not detected	1.0	03/12/99	CD
Dibromochloromethane	Not detected	1.0	03/12/99	CD
1,2-Dibromoethane (EDB)	Not detected	1.0	03/12/99	CD
Dibromomethane	Not detected	1.0	03/12/99	CD
1,2-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,3-Dichlorobenzene	Not detected	1.0	03/12/99	CD
1,4-Dichlorobenzene	Not detected	1.0	03/12/99	CD
Dichlorodifluoromethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethane	Not detected	1.0	03/12/99	CD
1,2-Dichloroethane	Not detected	1.0	03/12/99	CD
1,1-Dichloroethene	Not detected	1.0	03/12/99	CD
cis-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
trans-1,2-Dichloroethene	Not detected	1.0	03/12/99	CD
1,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,3-Dichloropropane	Not detected	1.0	03/12/99	CD
2,2-Dichloropropane	Not detected	1.0	03/12/99	CD
1,1-Dichloropropene	Not detected	1.0	03/12/99	CD
cis-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD

Volatile Organics

EPA Method 8260

Parameter for AB35560	Result (ug/L)	MDL	Analyzed	Analyst
trans-1,3-Dichloropropene	Not detected	1.0	03/12/99	CD
Ethylbenzene	16	1.0	03/12/99	CD
Hexachlorobutadiene	Not detected	1.0	03/12/99	CD
Isopropylbenzene	2.8	1.0	03/12/99	CD
4-Isopropyltoluene	Not detected	1.0	03/12/99	CD
Methylene chloride	Not detected	1.0	03/12/99	CD
Naphthalene	3.7	1.0	03/12/99	CD
n-Propylbenzene	3.6	1.0	03/12/99	CD
Styrene	Not detected	2.0	03/12/99	CD
1,1,1,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
1,1,2,2-Tetrachloroethane	Not detected	1.0	03/12/99	CD
Tetrachloroethene	Not detected	1.0	03/12/99	CD
Toluene	6.0	1.0	03/12/99	CD
1,2,3-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,2,4-Trichlorobenzene	Not detected	1.0	03/12/99	CD
1,1,1-Trichloroethane	Not detected	1.0	03/12/99	CD
1,1,2-Trichloroethane	Not detected	1.0	03/12/99	CD
Trichloroethene	Not detected	1.0	03/12/99	CD
Trichlorofluoromethane	Not detected	1.0	03/12/99	CD
1,2,3-Trichloropropane	Not detected	1.0	03/12/99	CD
1,2,4-Trimethylbenzene	14	1.0	03/12/99	CD
1,3,5-Trimethylbenzene	Not detected	1.0	03/12/99	CD
m,p-Xylenes	15	2.0	03/12/99	CD
o-Xylene	21	1.0	03/12/99	CD
Vinyl chloride	Not detected	1.0	03/12/99	CD
Methyl-t-butyl ether	270	1.0	03/12/99	CD
BFB Surrogate Recovery (%)	117		03/12/99	CD
p-DFB Surrogate Recovery (%)	105		03/12/99	CD
CLB-d5 Surrogate Recovery (%)	122		03/12/99	CD

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Client ID: MW-5
Lab ID No: AB35560

Location: West Dover, VT
Client Job No: 6230-398

Matrix: Ground Water
Collected: 03/02/99 by ENSR
Received on 03/03/99 by DDR
QC and Data Review by

Preservative: Refrigeration
Container: 1 Amber Glass
Condition of Sample as Received: Satisfactory
Delivered by: Courier

Total Petroleum Hydrocarbons by GC

Modified EPA Method 8015

Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
Total Hydrocarbons	0.5		03/09/99	03/10/99	LR
Fingerprint based quantification					
Gasoline	*	0.2	03/09/99	03/10/99	LR
Fuel Oil #2	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #4	Not detected	0.3	03/09/99	03/10/99	LR
Fuel Oil #6	Not detected	0.7	03/09/99	03/10/99	LR
Motor Oil	Not detected	0.5	03/09/99	03/10/99	LR
Ligroin	Not detected	0.3	03/09/99	03/10/99	LR
Aviation Fuel	Not detected	0.3	03/09/99	03/10/99	LR
Other	Not detected	0.5	03/09/99	03/10/99	LR
Unidentified	0.5		03/09/99	03/10/99	LR

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile oils.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes cutting and lubricating oils.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

Spectrum Analytical, Inc.

Laboratory Report Supplement

References

- Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/4-88/039. EMSL 1988.
- Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. EMSL 1983.
- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater. EPA 600/4-82-057. EMSL 1982.
- Test Methods for Evaluating Solid Waste. Physical/Chemical Methods. EPA SW-846. 1986.
- Standard Methods for the Examination of Water and Wastes. APHA-AWWA-WPCF. 16th Edition. 1985.
- Standard Methods for Comparison of Waterborne Petroleum Oils by Gas Chromatography. ASTM D 3328. 1982.
- Oil Spill Identification System. U.S. Coast Guard CG-D-52-77. 1977.
- Handbook for Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019. EMSL 1979.
- Choosing Cost-Effective QA/QC (Quality Assurance/Quality Control) Programs for Chemical Analyses. EPA 600/4-85/056. EMSL 1985.

Report Notations

Not Detected, Not Det, ND or nd	=	<i>The compound was not detected at a concentration equal to or above the established method detection limit.</i>
NC	=	<i>Not Calculated</i>
MCL	=	<i>EPA Maximum Contamination Level</i>
VOA	=	<i>Volatile Organic Analysis</i>
BFB	=	<i>4-Bromofluorobenzene</i> (An EPA 624 Surrogate)
p-DFB	=	<i>1,4-Difluorobenzene</i> (An EPA 624 Surrogate)
CLB-d5	=	<i>Chlorobenzene-d5</i> (An EPA 624 Surrogate)
BCP	=	<i>2-Bromo-1-chloropropane</i> (An EPA 601 Surrogate)
TFT	=	<i>a,a,a-Trifluorotoluene</i> (An EPA 602 Surrogate)
Decachlorobiphenyl	=	<i>(an EPA 608/8080 Surrogate)</i>

Definitions

Surrogate Recovery = The recovery (expressed as a percent) of a non-method analyte (see surrogates listed above) added to the sample for the purpose of monitoring system performance.

Matrix Spike Recovery = The recovery (expressed as a percent) of method analytes added to the sample for the purpose of determining any effect of sample composition on analyte recovery.

Laboratory Replicate = Two sample aliquots taken in the analytical laboratory and analyzed separately with identical procedures. Analyses of laboratory duplicates give a measure of the precision associated with laboratory procedures, but not with sample collection, preservation, or storage procedures.

Field Duplicate = Two separate samples collected at the same time and place under identical circumstances and treated exactly the same throughout field and laboratory procedures. Analysis of Field duplicates give a measure of the precision associated with sample collection, preservation and storage, as well as with laboratory procedures.

Relative Percent Difference (% RPD) = The precision measurement obtained on duplicate/replicate analyses. %RPD is calculated as:

$$\%RPD = \frac{(\text{value1} - \text{value2})}{\text{ave. value}} * 100\%$$



CHAIN OF CUSTODY RECORD

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval; min. 24 hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: ENSR
155 Otis Street
Northboro MA 01532

Project Mgr.: Angela Mathur

Invoice To: A. Mathur

P.O. No.: _____ RQN: _____

Project No.: 6230398

Site Name: W. Dover

Location: W. Dover State: VT

Sampler(s): Mark Newell

1=4°C 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=MeOH 7=_____

DW=Drinking Water GW=Ground Water WW=Waste Water
 SO=Soil SL=Sludge O=Oil X1=_____ X2=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	pH	Containers:				Analyses:				Notes:				
								# Of VOA Vials	# Of Amber Glass	# Of Clear Glass	# Of Plastic									
AB 35500	MW-5	3/2/99	12:25/12:26	G	GW	2		2	1											
AB 35521	MW-4	3/2/99	12:00/12:01	G	GW	2		2	1											
AB 35522	MW-3	3/2/99	12:07/12:08	G	GW	2		2	1											
AB 35523	MW-1	3/2/99	12:15/12:16	G	GW	2		2	1											
AB 35524	MW-2	3/2/99	12:21/12:22	G	GW	2		2	1											
AB																				
AB																				
AB																				
AB																				
AB																				

Additional Instructions: _____

Fax results when available to (508) 393 8647

Relinquished By:	Received By:	Date:	Time:
<u>Mark Newell</u>	<u>[Signature]</u>	<u>3-3-99</u>	<u>11:50</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>3-3-99</u>	<u>3:45</u>



APPENDIX D

Environmental FirstSearch Report

DataMap Technology Corporation

Environmental FirstSearch™ Report

TARGET PROPERTY:

ROUTE 100

WEST DOVER VT 05356

Job Number: 8726437140

PREPARED FOR:

ENSR

155 Otis St.

Northboro MA 01532

03-22-99

Tel: (781) 320-3720

Fax: (781) 320-3715

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**Environmental FirstSearch
Search Summary Report**

Target Site: ROUTE 100
WEST DOVER VT 05356

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2 >	ZIP	TOTALS
NPL	Y	01-19-99	1.00	0	0	0	0	0	0	0
CERCLIS	Y	01-15-99	0.50	0	0	0	0	-	0	0
RCRA TSD	Y	01-19-99	1.00	0	0	0	0	0	0	0
RCRA COR	Y	01-19-99	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	01-19-99	0.25	0	0	0	-	-	2	2
RCRA NLR	N	01-19-99	0.25	-	-	-	-	-	-	-
ERNS	Y	01-22-99	0.25	0	0	0	-	-	2	2
NPDES	N	06-16-98	0.25	-	-	-	-	-	-	-
FINDS	N	07-16-98	0.25	-	-	-	-	-	-	-
TRIS	N	01-20-99	0.25	-	-	-	-	-	-	-
STATE SITES	Y	01-14-99	1.00	0	0	0	0	0	0	0
SPILLS-1990	Y	01-14-99	0.25	0	0	0	-	-	0	0
SPILLS-1980	N	01-14-99	0.25	-	-	-	-	-	-	-
SWL	Y	01-01-98	0.50	0	0	0	0	-	0	0
PERMITS	N	NA	0.25	-	-	-	-	-	-	-
OTHER	N	NA	0.25	-	-	-	-	-	-	-
REG UST/AST	Y	10-23-98	0.25	0	0	0	-	-	15	15
LEAKING UST	Y	01-14-99	0.50	0	0	0	0	-	3	3
ACTIVE PWS	N	NA	0.50	-	-	-	-	-	-	-
AQUIFERS	N	NA	0.50	-	-	-	-	-	-	-
ACEC	N	NA	0.50	-	-	-	-	-	-	-
WETLANDS	N	NA	0.50	-	-	-	-	-	-	-
FLOODPLAINS	N	09-01-96	0.50	-	-	-	-	-	-	-
- TOTALS -				0	0	0	0	0	22	22

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to DataMap Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in DataMap Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although DataMap Technology Corp. uses its best efforts to research the actual location of each site, DataMap Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of DataMap Technology Corp.'s services proceeding are signifying an understanding of DataMap Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

**Environmental FirstSearch
Site Information Report**

Request Date: 03-22-99
Requestor Name: KIM CORDWELL
Standard: ASTM

Search Type: COORD
Job Number: 8726437140

Target Address: ROUTE 100
WEST DOVER VT 05356

Demographics

Sites: 22	Receptors: 0	Population: NA
Radon: 0.7 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>	<u>UTMs</u>
Longitude:	-72.864498	-72:51:52	Easting: 674223.148
Latitude:	42.945404	42:56:43	Northing: 4756749.697
			Zone: 18

Comment

Comment:

Additional Requests

Adjacent ZIP Codes: 0.00 Mile(s)	Topo Map Boundaries: 0.00 Mile(s)																
<table border="1"><thead><tr><th>ZIP Code</th><th>City Name</th><th>ST</th><th>Dist/Dir</th><th>Sel</th></tr></thead><tbody><tr><td colspan="5"> </td></tr></tbody></table>	ZIP Code	City Name	ST	Dist/Dir	Sel						<table border="1"><thead><tr><th>Quadrant Name</th><th>Dist/Dir</th><th>Sel</th></tr></thead><tbody><tr><td colspan="3"> </td></tr></tbody></table>	Quadrant Name	Dist/Dir	Sel			
ZIP Code	City Name	ST	Dist/Dir	Sel													
Quadrant Name	Dist/Dir	Sel															

*Environmental FirstSearch
Sites Summary Report*

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

TOTAL: 22 **GEOCODED:** 0 **NON GEOCODED:** 22 **SELECTED:** 22

<u>ID</u>	<u>DB Type</u>	<u>Site Name/ID/Status</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>
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Environmental FirstSearch Sites Summary Report

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

TOTAL: 22 **GEOCODED:** 0 **NON GEOCODED:** 22 **SELECTED:** 22

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	RCRAGN	EV N EDS VTD988366175/SGN	RTE 100 WEST DOVER VT 05356	NON GC	
2	RCRAGN	MOUNT SNOW LTD VTD039696885/SGN	ROUTE 100 WEST DOVER VT 05356	NON GC	
3	ERNS	MOUNT SNOW SKI AREA 596393/UNKNOWN	RTE 100 WEST DOVER VT 05356	NON GC	
4	ERNS	P41567/UNKNOWN	WEST DOVER VT	NON GC	
5	UST	AUSTRIAN HAUS LODGE 4643911	ROUTE 100 DOVER VT 05356	NON GC	
6	UST	CHRISTY S #212 972/CHRISTY S MARKET INC	ROUTE 100 DOVER VT 05356	NON GC	
7	UST	DOVER SERVICE STATION 13/CHRISTY S MARKET INC	ROUTE 100 DOVER VT 05356	NON GC	
8	UST	DOVER TOWN GARAGE 713/TOWN OF DOVER	LANDFILL ROAD #55 DOVER VT 05356	NON GC	
9	UST	ENCORE HOTEL 4643392	HANDLE ROAD DOVER VT 05356	NON GC	
10	UST	FOX S LAIR 1009	UPPER HIGHLANDS ROAD DOVER VT 05356	NON GC	
11	UST	MOUNT SNOW BASE LODGE 502	DOVER VT 05356	NON GC	
12	UST	MOUNT SNOW CONFERENCE CENTER 503	DOVER VT 05356	NON GC	
13	UST	MOUNT SNOW GOLF COURSE 2007/MOUNT SNOW LTD	COUNTRY CLUB ROAD DOVER VT 05356	NON GC	
14	UST	MOUNT SNOW MAINTENANCE BUILDING 499/MOUNT SNOW LTD	DOVER VT 05356	NON GC	
15	UST	MOUNTAINEER INN 2118	BOX 140 HANDLE ROAD DOVER VT 05356	NON GC	
16	UST	QUEEN RESIDENCE 4648191	UPPER HIGHLANDS ROAD DOVER VT 05356	NON GC	
17	UST	SNOW BARN 500	DOVER VT 05356	NON GC	
18	UST	SNOW LAKE LODGE 498	DOVER VT 05356	NON GC	
19	UST	SUNDANCE LODGE 501	DOVER VT 05356	NON GC	
20	LUST	GREENE FARM 9991113	GREENE ROAD WEST DOVER DOVER VT 05356	NON GC	

*Environmental FirstSearch
Sites Summary Report*

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

TOTAL: 22 **GEOCODED:** 0 **NON GEOCODED:** 22 **SELECTED:** 22

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
21	LUST	RED CRICKETT INN 9991114	RTE 100 DOVER VT 05356	NON GC	
22	LUST	WEATHER VANE LODGE 9999995	DORR FITCH RD DOVER VT 05356	NON GC	

Environmental FirstSearch Site Detail Report

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

RCRA GENERATOR SITE			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
NAME: EV N EDS ADDRESS: RTE 100 WEST DOVER VT 05356 WINDHAM CONTACT: JOAN ROGERS	REV: ID1: VTD988366175 ID2: STATUS: SGN PHONE: 8025551212		
ADDRESS: OWNERSTREET OWNERCITY VT 99999	NOTIFIED: PART A:		
ACTIVITIES: SG: GENERATES 100-1000 KG/MONTH OF HAZARDOUS WASTE			
CM+E LIST: RAATS:	VIOL DATE: ACTION DATE:	AGENCY: DOCKET:	UPDATED: 11-10-98 UPDATED: 06-24-96
VIOL: NUM: ENF: DATE:	ASSESS:	SETTLE:	

RCRA GENERATOR SITE			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
NAME: MOUNT SNOW LTD ADDRESS: ROUTE 100 WEST DOVER VT 05356 WINDHAM CONTACT: DAVID BUCKLEY	REV: ID1: VTD039696885 ID2: STATUS: SGN PHONE: 8025551212		
ADDRESS: OWNERSTREET OWNERCITY VT 99999	NOTIFIED: PART A:		
ACTIVITIES: SG: GENERATES 100-1000 KG/MONTH OF HAZARDOUS WASTE			
CM+E LIST: RAATS:	VIOL DATE: ACTION DATE:	AGENCY: DOCKET:	UPDATED: 11-10-98 UPDATED: 06-24-96
VIOL: NUM: ENF: DATE:	ASSESS:	SETTLE:	

Environmental FirstSearch Site Detail Report

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

EMERGENCY RESPONSE NOTIFICATION SITE			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
NAME: MOUNT SNOW SKI AREA	REV:		
ADDRESS: RTE 100	ID1: 596393		
WEST DOVER VT 05356	ID2:		
CONTACT:	STATUS: UNKNOWN		
	PHONE:		
CERCLIS (Y/N):			
MAT: NO.5W30 MOBIL OIL	QUANT: 10.00	GALLONS	
LOCATION: RTE 100	REPORTED: 09/08/98		
CITY: WEST DOVER VT 05356			
SOURCE: UNKNOWN	MEDIUM: WATER		
CAUSE: CRANE MATERIAL SPILLED DUE TO AN O RING RUPTURE			
	UNKNOWN		
ACT: MTRL SPILLED AS FINE MIST/BETWEEN 5 & 10G SPILLED/BOOM DEPLOYED/			
BY:			

EMERGENCY RESPONSE NOTIFICATION SITE			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
NAME:	REV:		
ADDRESS: WEST DOVER VT	ID1: P41567		
	ID2:		
CONTACT: UNKNOWN,	STATUS: UNKNOWN		
	PHONE:		
CERCLIS (Y/N):			
MAT: UNKNOWN RED MATERIAL	QUANT: 0.00	UNKNOWN	
LOCATION: SMALL BROOK AT BASE OF COOPER HILL	REPORTED: 19940803		
CITY:			
SOURCE: UNKNOWN	MEDIUM: WATER		
CAUSE: UNKNOWN			
	CALLER REPORTS A THICK RED SUBSTANCE IS LEAKING INTO A SWIMMING HOLE		
ACT: NONE			
BY:			

Environmental FirstSearch Site Detail Report

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 6

DIST/DIR: NON GC

MAP ID:

NAME: CHRISTY S #212
ADDRESS: ROUTE 100
DOVER VT 05356
13
CONTACT: 757 490 1711

REV: 01/14/99
ID1: 972
ID2: 96
STATUS: CHRISTY S MARKET INC
PHONE:

TOTAL NUMBER OF TANKS: 5

TANK ID: 1
SUBSTANCE STORED: KEROSENE
TYPE OF OPERATION: RETAIL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING: DC95

INSTALLED: 1985
TANK CAP. (gallons): 2000

PERMIT CANCELLED OR REVOKED?:

TANK ID: 2
SUBSTANCE STORED: GASOLINE
TYPE OF OPERATION: RETAIL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING: DC95

INSTALLED: 1983
TANK CAP. (gallons): 8000

PERMIT CANCELLED OR REVOKED?:

TANK ID: 3
SUBSTANCE STORED: GASOLINE
TYPE OF OPERATION: RETAIL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING: DC95

INSTALLED: 1983
TANK CAP. (gallons): 8000

PERMIT CANCELLED OR REVOKED?:

TANK ID: 4
SUBSTANCE STORED: GASOLINE
TYPE OF OPERATION: RETAIL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING: DC95

INSTALLED: 1983
TANK CAP. (gallons): 8000

PERMIT CANCELLED OR REVOKED?:

TANK ID: 5
SUBSTANCE STORED: DIESEL
TYPE OF OPERATION: RETAIL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING: DC95

INSTALLED: 1985
TANK CAP. (gallons): 8000

PERMIT CANCELLED OR REVOKED?:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 7	DIST/DIR: NON GC	MAP ID:
NAME: DOVER SERVICE STATION	REV: 01/14/99	
ADDRESS: ROUTE 100	ID1: 13	
DOVER VT 05356	ID2:	
13	STATUS: CHRISTY S MARKET INC	
CONTACT: 757 490 1711	PHONE:	

TOTAL NUMBER OF TANKS: 3

TANK ID:	1	INSTALLED:	1988	
SUBSTANCE STORED:	GASOLINE	TANK CAP. (gallons):	10000	
TYPE OF OPERATION:	RETAIL			
TANK PROTECTION:	FIBERGLASS REINFORCED PLASTIC			
TANK MONITORING:	INTERSTITIAL/SECONDARILY CONTAINED TANK			

PERMIT CANCELLED OR REVOKED?:

TANK ID:	2	INSTALLED:	1988	
SUBSTANCE STORED:	GASOLINE	TANK CAP. (gallons):	10000	
TYPE OF OPERATION:	RETAIL			
TANK PROTECTION:	FIBERGLASS REINFORCED PLASTIC			
TANK MONITORING:	INTERSTITIAL/SECONDARILY CONTAINED TANK			

PERMIT CANCELLED OR REVOKED?:

TANK ID:	3	INSTALLED:	1988	
SUBSTANCE STORED:	GASOLINE	TANK CAP. (gallons):	10000	
TYPE OF OPERATION:	RETAIL			
TANK PROTECTION:	FIBERGLASS REINFORCED PLASTIC			
TANK MONITORING:	INTERSTITIAL/SECONDARILY CONTAINED TANK			

PERMIT CANCELLED OR REVOKED?:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 8	DIST/DIR: NON GC	MAP ID:
NAME: DOVER TOWN GARAGE	REV: 01/14/99	
ADDRESS: LANDFILL ROAD #55	ID1: 713	
DOVER VT 05356	ID2: 921138	
13	STATUS: TOWN OF DOVER	
CONTACT: 802-464-2000	PHONE:	

TOTAL NUMBER OF TANKS: 2

TANK ID: 1	INSTALLED: 1992
SUBSTANCE STORED: DIESEL	TANK CAP. (gallons): 3000
TYPE OF OPERATION: TOWN	
TANK PROTECTION: PROTECTED STEEL	
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK	

PERMIT CANCELLED OR REVOKED?:

TANK ID: 2	INSTALLED: 1992
SUBSTANCE STORED: GASOLINE	TANK CAP. (gallons): 3000
TYPE OF OPERATION: TOWN	
TANK PROTECTION: PROTECTED STEEL	
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK	

PERMIT CANCELLED OR REVOKED?:

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 9	DIST/DIR:	NON GC	MAP ID:
NAME: ENCORE HOTEL ADDRESS: HANDLE ROAD DOVER VT 05356 13 CONTACT:		REV: 01/14/99 ID1: 4643392 ID2: STATUS: PHONE:	
TOTAL NUMBER OF TANKS:	1		
TANK ID: 1 SUBSTANCE STORED: #2 OR #4 FUEL OIL TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL TANK PROTECTION: UNPROTECTED TANK MONITORING:		INSTALLED: 1964 TANK CAP. (gallons): 1200	
PERMIT CANCELLED OR REVOKED?:			

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 10	DIST/DIR:	NON GC	MAP ID:
NAME: FOX S LAIR ADDRESS: UPPER HIGHLANDS ROAD DOVER VT 05356 13 CONTACT:		REV: 01/14/99 ID1: 1009 ID2: STATUS: PHONE:	
TOTAL NUMBER OF TANKS:	1		
TANK ID: 1 SUBSTANCE STORED: #2 OR #4 FUEL OIL TYPE OF OPERATION: RESIDENTIAL TANK PROTECTION: UNPROTECTED TANK MONITORING:		INSTALLED: 1974 TANK CAP. (gallons): 2000	
PERMIT CANCELLED OR REVOKED?:			

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 11	DIST/DIR: NON GC	MAP ID:
NAME: MOUNT SNOW BASE LODGE	REV: 01/14/99	
ADDRESS: DOVER VT 05356	ID1: 502	
CONTACT: 13	ID2:	
	STATUS:	
	PHONE:	
TOTAL NUMBER OF TANKS: 1		
TANK ID: 1	INSTALLED: 1987	
SUBSTANCE STORED: #2 OR #4 FUEL OIL	TANK CAP. (gallons): 6000	
TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL		
TANK PROTECTION: PROTECTED STEEL		
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK		
PERMIT CANCELLED OR REVOKED?:		

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 12	DIST/DIR: NON GC	MAP ID:
NAME: MOUNT SNOW CONFERENCE CENTER	REV: 01/14/99	
ADDRESS: DOVER VT 05356	ID1: 503	
CONTACT: 13	ID2:	
	STATUS:	
	PHONE:	
TOTAL NUMBER OF TANKS: 1		
TANK ID: 1	INSTALLED: 1988	
SUBSTANCE STORED: #2 OR #4 FUEL OIL	TANK CAP. (gallons): 4000	
TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL		
TANK PROTECTION: PROTECTED STEEL		
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK		
PERMIT CANCELLED OR REVOKED?:		

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 15	DIST/DIR:	NON GC	MAP ID:
NAME: MOUNTAINEER INN ADDRESS: BOX 140 HANDLE ROAD DOVER VT 05356 13 CONTACT: 802-464-5404		REV: 01/14/99 ID1: 2118 ID2: STATUS: PHONE:	
TOTAL NUMBER OF TANKS: 1			
TANK ID: 1 SUBSTANCE STORED: #2 OR #4 FUEL OIL TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL TANK PROTECTION: UNPROTECTED TANK MONITORING:		INSTALLED: 1983 TANK CAP. (gallons): 2000	
PERMIT CANCELLED OR REVOKED?:			

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 16	DIST/DIR:	NON GC	MAP ID:
NAME: QUEEN RESIDENCE ADDRESS: UPPER HIGHLANDS ROAD DOVER VT 05356 13 CONTACT:		REV: 01/14/99 ID1: 4648191 ID2: STATUS: PHONE:	
TOTAL NUMBER OF TANKS: 1			
TANK ID: 1 SUBSTANCE STORED: #2 OR #4 FUEL OIL TYPE OF OPERATION: RESIDENTIAL TANK PROTECTION: UNPROTECTED TANK MONITORING:		INSTALLED: 1972 TANK CAP. (gallons): 2000	
PERMIT CANCELLED OR REVOKED?:			

Environmental FirstSearch Site Detail Report

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 17	DIST/DIR:	NON GC	MAP ID:
NAME: SNOW BARN	REV: 01/14/99	ID1: 500	
ADDRESS: DOVER VT 05356	ID2:	STATUS:	
CONTACT: 13	PHONE:		
TOTAL NUMBER OF TANKS: 1			
TANK ID: 1	INSTALLED: 1987	TANK CAP. (gallons): 2000	
SUBSTANCE STORED: #2 OR #4 FUEL OIL			
TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL			
TANK PROTECTION: PROTECTED STEEL			
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK			
PERMIT CANCELLED OR REVOKED?:			

REGISTERED UNDERGROUND STORAGE TANKS			
SEARCH ID:	DIST/DIR:	NON GC	MAP ID:
SEARCH ID: 18	DIST/DIR:	NON GC	MAP ID:
NAME: SNOW LAKE LODGE	REV: 01/14/99	ID1: 498	
ADDRESS: DOVER VT 05356	ID2:	STATUS:	
CONTACT: 13	PHONE:		
CONTACT: 802-464-3333			
TOTAL NUMBER OF TANKS: 1			
TANK ID: 1	INSTALLED: 1988	TANK CAP. (gallons): 6000	
SUBSTANCE STORED: #2 OR #4 FUEL OIL			
TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL			
TANK PROTECTION: PROTECTED STEEL			
TANK MONITORING: INTERSTITIAL/SECONDARILY CONTAINED TANK			
PERMIT CANCELLED OR REVOKED?:			

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 19

DIST/DIR: NON GC

MAP ID:

NAME: SUNDANCE LODGE
ADDRESS: DOVER VT 05356
13
CONTACT:

REV: 01/14/99
ID1: 501
ID2:
STATUS:
PHONE:

TOTAL NUMBER OF TANKS: 1

TANK ID: 1
SUBSTANCE STORED: #2 OR #4 FUEL OIL
TYPE OF OPERATION: INDUSTRIAL/COMMERCIAL
TANK PROTECTION: PROTECTED STEEL
TANK MONITORING:

INSTALLED: 1986
TANK CAP. (gallons): 4000

PERMIT CANCELLED OR REVOKED?:

*Environmental FirstSearch
Site Detail Report*

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 20 **DIST/DIR:** NON GC **MAP ID:**

NAME: GREENE FARM
ADDRESS: GREENE ROAD WEST DOVER
DOVER VT 05356
WINDHAM
CONTACT: ESTATE OF JANET GREENE

REV: 01/14/99
ID1: 9991113
ID2:
STATUS:
PHONE:

OWNER INFORMATION:

OWNER NAME: Estate of Janet Greene
PO Box 812
Brattleboro VT, 05301

OWNER PERSON: Stravest Group

OPERATOR INFORMATION:

OPERATOR NAME: Estate of Janet Greene

OPERATOR PERSON:

LANDOWNER:

FACILITY TYPE: FARM
PERMITTEE:
SITE FINDINGS:
NO CONTAMINATION FOUND

NUMBER OF TANKS PULLED: 2
NUMBER OF GROUNDWATER MONITORING WELLS:
NUMBER OF VAPOR MONITORING WELLS:
COMMENTS: 1998

**Environmental FirstSearch
Site Detail Report**

TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 21 **DIST/DIR:** NON GC **MAP ID:**

NAME: RED CRICKETT INN
ADDRESS: RTE 100
DOVER VT 05356
WINDHAM
CONTACT: TODD BAYLES

REV: 01/14/99
ID1: 9991114
ID2: 98
STATUS:
PHONE:

OWNER INFORMATION:

OWNER NAME: Todd Bayles
PO Box 1710
West Dover VT, 05356

OWNER PERSON:

OPERATOR INFORMATION:

OPERATOR NAME: Todd Bayles

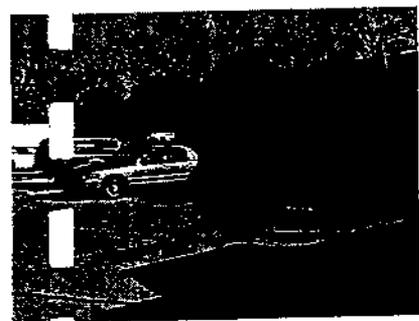
OPERATOR PERSON:

LANDOWNER:

FACILITY TYPE: INDUSTRIAL/COMMERCIAL
PERMITTEE

SITE FINDINGS:
CONTAMINATION FOUND ABOVE STATE STANDARD. REFERRED TO SITE MANAGEMENT

NUMBER OF TANKS PULLED: 1
NUMBER OF GROUNDWATER MONITORING WELLS:
NUMBER OF VAPOR MONITORING WELLS:
COMMENTS: 1998



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**Environmental FirstSearch
Federal Databases and Sources**

1. **NPL: National Priority List.** The EPA's list of confirmed or proposed Superfund sites.

Updated quarterly.

2. **CERCLIS: Comprehensive Environmental Response Compensation and Liability Information System.** The EPA's database of current and potential Superfund sites currently or previously under investigation.

Updated quarterly.

3. **RCRIS: Resource Conservation and Recovery Information System.** The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEI (Compliance Monitoring & Enforcement List).

Updated quarterly.

4. **ERNS: Emergency Response Notification System.**
The EPA's database of EPA emergency response actions.

Updated quarterly.

5. **NPDES: National Pollution Discharge Elimination System.**
The EPA's database of all permitted facilities receiving and discharging effluents to and from the environment.

Updated semi-annually.

6. **FINDS: The Facility Index System.** The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility.

Updated quarterly.

**Environmental FirstSearch
Vermont Databases and Sources**

1. **STATE SITES:** The Vermont Department of Environmental Conservation's database listing of all hazardous waste inventory sites as maintained by the Hazardous Materials Management Division.

Updated quarterly.

2. **UST:** Underground Storage Tanks. The Vermont Department of Environmental Conservation's database listing of all registered underground Storage tanks maintained by the Hazardous Materials Management Division.

Updated quarterly.

3. **LUST:** Leaking Underground Storage Tanks. The State of Vermont does not maintain a list of leaking underground storage tanks. The Vermont Department of Environmental Conservation's database listing of all pulled underground storage tanks maintained by the Hazardous Materials Management Division.

Updated quarterly.

4. **LANDFILLS:** The Vermont Department of Environmental Conservation's Database listing of landfills and transfer stations maintained by the Solid Waste Management Division.

Updated annually.

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

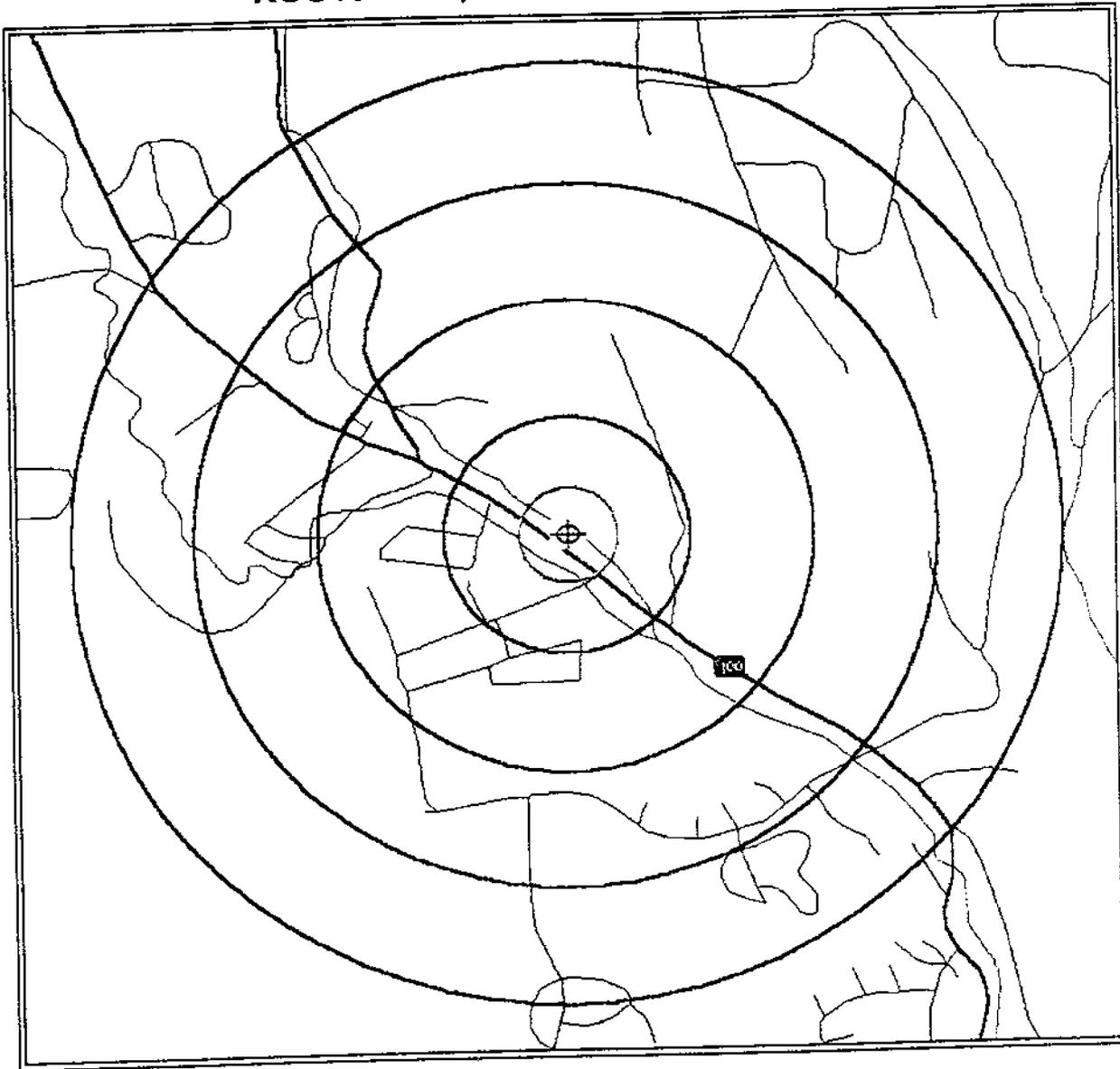
TARGET SITE: ROUTE 100
WEST DOVER VT 05356

JOB: 8726437140

Street Name	Dist/Dir	Street Name	Dist/Dir
COUNTRY CLUB ROAD	0.11 SE		
MAPLE HILL ROAD	0.22 SE		
SPRUCE HAVEN	0.23 SW		
STATE HWY 100	0.03 SW		
THE VILLAGE ROAD	0.17 NW		
WINDY HILL ROAD	0.22 SE		

Environmental FirstSearch
1 Mile Radius
ASTM Map: NPL, RCRACOR, STATE Sites

ROUTE 100 , WEST DOVER VT 05356



Source: 1994 U.S. Census TIGER Files

-  Target Site
-  Identified Site
-  Multiple Sites
-  Receptor
-  NPL, SWL or Haz. Waste

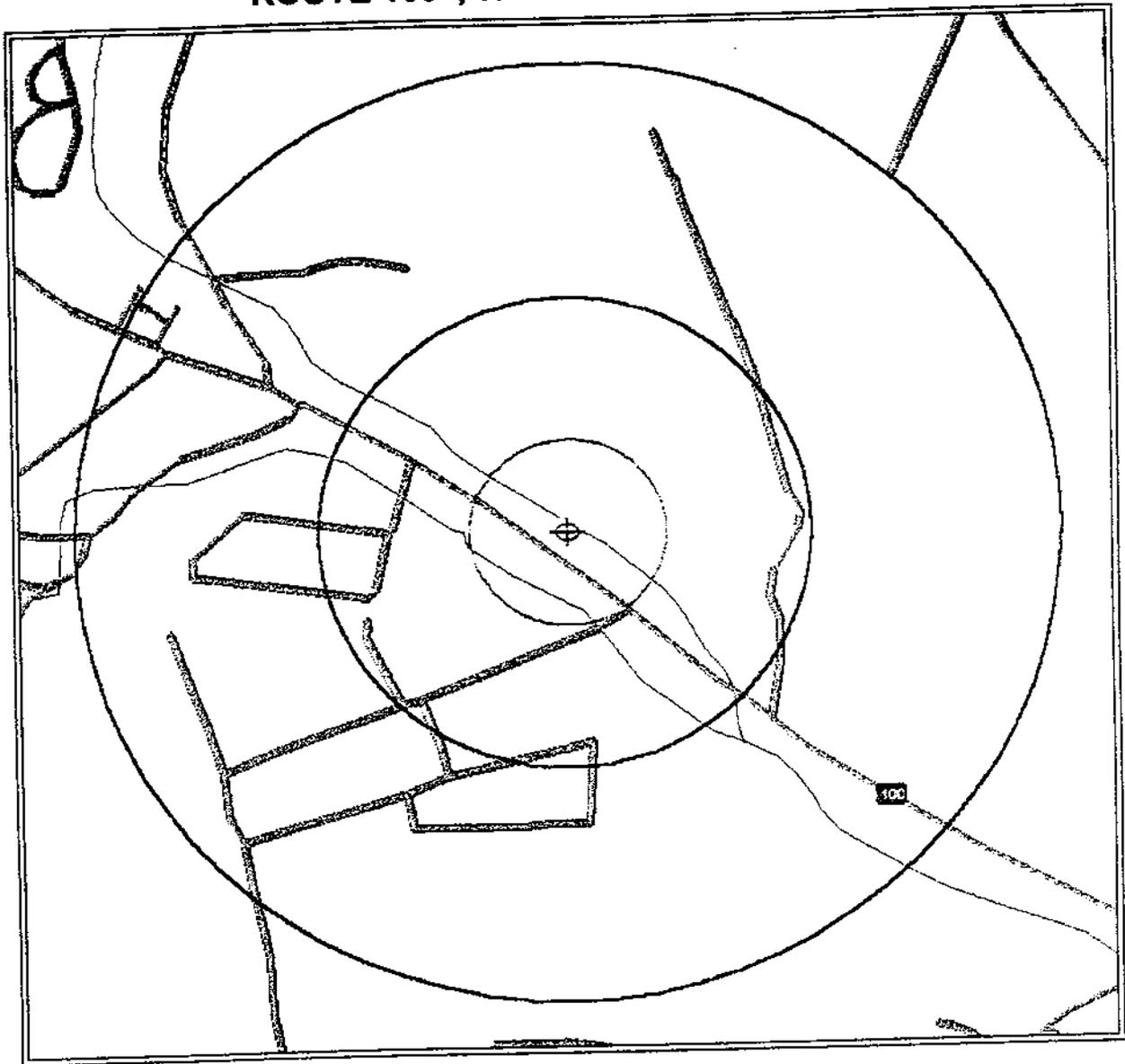
-  Target ZIP Boundary
-  Adjacent ZIP Boundary
-  Railroad

Black Rings Represent 1/4 Mile Radii
Red Ring Represents 500 ft. Radius



Environmental FirstSearch
 .5 Mile Radius
 ASTM Map: CERCLIS, RCRATSD, SPILLS90, SWL, LUST

ROUTE 100 , WEST DOVER VT 05356



Source: 1994 U.S. Census TIGER Files

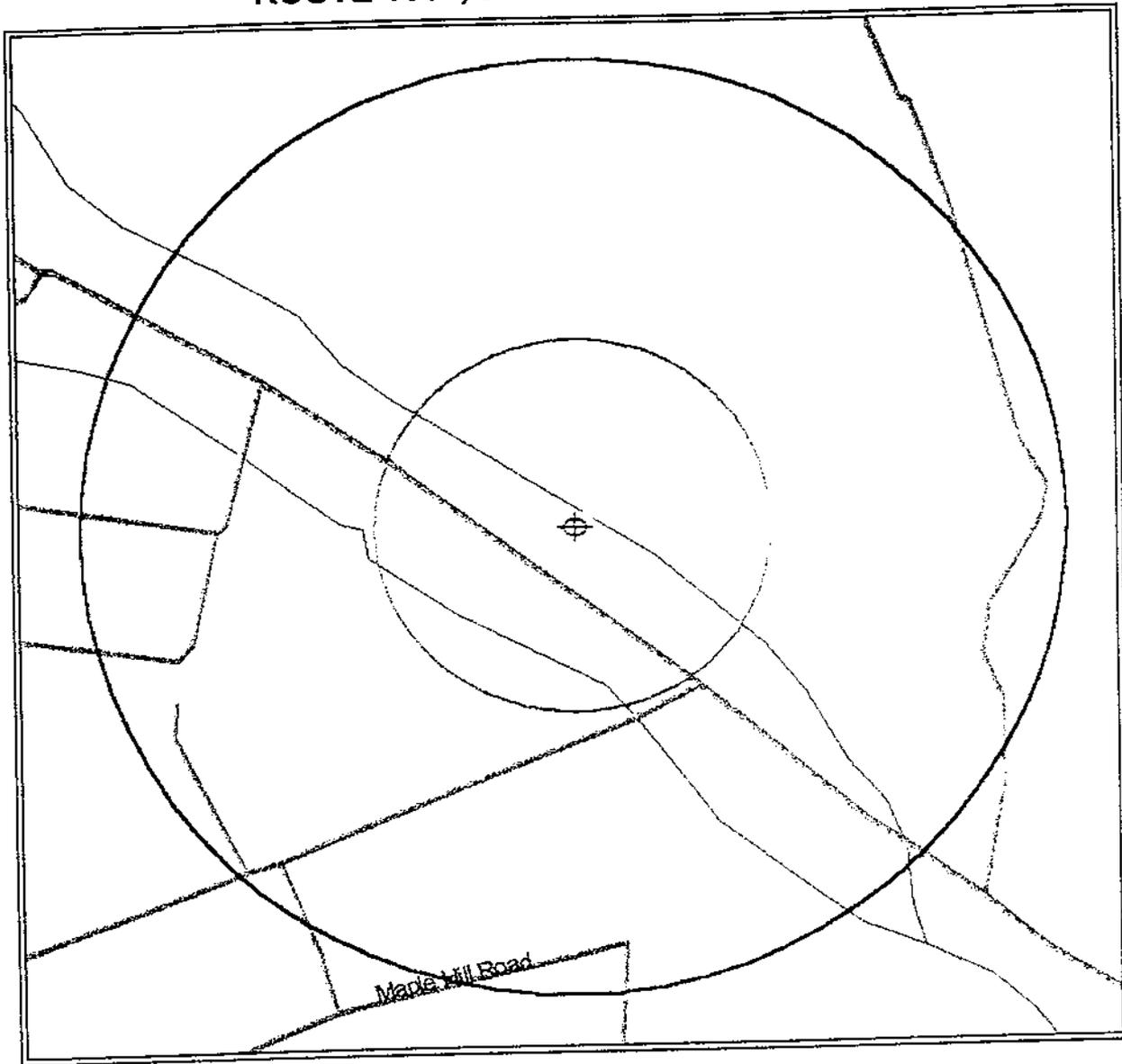
-  Target Site
-  Identified Site
-  Multiple Sites
-  Receptor
-  NPL, SWL or Haz. Waste

-  Target ZIP Boundary
-  Adjacent ZIP Boundary
-  Railroad
- Black Rings Represent 1/4 Mile Radii
- Red Ring Represents 500 ft. Radius



Environmental FirstSearch
.25 Mile Radius
ASTM Map: RCRAGEN, ERNS, UST

ROUTE 100 , WEST DOVER VT 05356



Source: 1994 U.S. Census TIGER Files

-  Target Site
-  Identified Site
-  Multiple Sites
-  Receptor
-  NPL, SWL or Haz. Waste

-  Target ZIP Boundary
-  Adjacent ZIP Boundary
-  Railroad

Black Rings Represent 1/4 Mile Radii
Red Ring Represents 500 ft. Radius

