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REPORT

May 22, 2018

Outer Limits Brewing LLC.
60 Village Green
Cavendish, Vermont

Phase I Environmental Site Assessment

Prepared for:

Vermont Department of Environmental Conservation



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EXECUTIVE SUMMARY

Weston & Sampson, on behalf of the Vermont Department of Conservation (VTDEC), has prepared this Phase I Environmental Site Assessment (ESA) Report for the Outer Limits Brewing property (the Site), located at 60 Village Green, in Proctorsville, a census-designated place in the town of Cavendish, Vermont. This Phase I ESA was completed in accordance with ASTM Standard E1527-13 and to meet EPA's All Appropriate Inquiry (AAI) requirements. Any exceptions to, deletions from, this practice are described in Sections 1.6 and 1.7.

Findings of the Phase I ESA are as follows:

- The earliest identified development of the Site was as a portion of a woolen mill complex developed circa 1836. The mill complex was destroyed by fire in 1844 and immediately rebuilt. In the late 1930's until 1950 the mill buildings may have been used to do finish work for Vermont Verde Antique Marble, a type of brecciated serpentinite that was mined locally. In 1950, the mill complex was operated by Proctor Reels, Inc., who manufactured large wooden reels for electric or telephone wire as well as some furniture. In 1978, the mill complex was used by Acousti Phase, which assembled speakers but did not manufacture them. In 1982, the majority of the mill complex was destroyed in a fire except for the portions located on the Site and the adjoining property to the west of the Site. From 1989 until 1996 the Site was operated as a warehouse for Wild Bill's Country Discount store. Other small businesses that have operated in the Site building have included CTM Marketing and a tile shop. In 1995, a limited environmental assessment at the Site identified cinders and ash in two test-pits completed south of the Site. Weston & Sampson is of the opinion that the former operation of the site as a portion of a woolen mill, two major fires at the Site, and the known presence of cinders and ash in fill at the Site suggest that common contaminants associated with incomplete combustion (polycyclic aromatic hydrocarbons, or PAHs) are likely present in soil at the Site.
- The Site is located in a commercial and residential area of Proctorsville, Vermont. The Site is approximately 0.3 acres. It is currently developed with one, approximately 8,000 square foot (sq. ft.), two-story brick building with a slab on grade foundation, which was a former portion of the mill complex. In 2017, Outer Limits Brewing, LLC purchased the Site for renovation and use as a brewery. Currently, the Site building is empty with the exception of two small offices. The exterior portions of the Site are landscaped with grass. One floor drain was observed in the eastern side of the building. The floor drain discharges to the municipal sanitary sewer. Weston & Sampson is of the opinion that the documented current use of the Site and adjoining properties does not pose an adverse environmental risk to the property. However, there may have been discharge to the floor drain of equipment grease and other hazardous substances associated with mill operations prior to the Site's connection to the municipal sanitary sewer.

- The Site is listed in the VTDEC Hazardous Sites database (SMS#20184778) for its entry into the VTDEC Brownfields Reuse and Environmental Liability Limitation Act (BRELLA) program under which this Phase I ESA is being completed.
- Six off-site listings (corresponding to two individual sites) were identified within the standardly reviewed databases that required further review. After review of available documentation, Weston & Sampson is of the opinion that these sites do not pose an adverse environmental risk

to the Site. However, investigation activities at one site, the Cavendish Village Site (SMS #20063567), located approximately 100 feet west (upgradient) of the Site, identified PAHs in soil and groundwater, interpreted to be indicative of general conditions of soil and groundwater in the vicinity of the former mill complex. This may indicate that the subsurface soil at the Site may also have elevated concentrations of ubiquitous urban contaminants such as PAHs, arsenic, and lead.

- A Vapor Encroachment Screening was performed for properties near the Site. A vapor encroachment condition (VEC) does not exist at the Site.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- The former operation of the site as a woolen mill, two major fires at the Site, the known presence of cinders and ash in fill at the Site, and known PAH contamination in soil near the Site at the Cavendish Village Site suggest that common urban contaminants such as PAHs, arsenic, and lead may be present in soil at the Site.
- Potential for equipment grease and other hazardous substances to enter floor drains during mill operations prior to the Site's connection to the municipal sanitary sewer.

The following historical recognized environmental condition (HREC) exists at the Site:

- The Former Cota & Cota Proctorsville Bulk facility (SMS#972184), located approximately 200 feet northwest (upgradient) of the Site is listed for soil and groundwater volatile organic compound (VOC) contamination identified in 1997 and 1998. No exceedances were reported in 2011 and 2012, and the site was closed. This release was addressed to the satisfaction of the applicable regulatory authority and is considered a HREC.

1.0 INTRODUCTION

Weston & Sampson, on behalf of the Vermont Department of Conservation (VTDEC), has prepared this Phase I Environmental Site Assessment (ESA) Report for the Outer Limits Brewing property (the Site), located at 60 Village Green, in Proctorsville, a census-designated place in the town of Cavendish, Vermont. The Site, shown on Figures 1 and 2, is 0.30 acres and is located in a commercial and residential area of Proctorsville. The Site is developed with an 8,000-square foot (sq. ft.) brick building that is vacant and is being remodeled as a brewery and restaurant.

The ESA was performed in accordance with the Standard Practice E 1527-13, and EPA's All Appropriate Inquiry (AAI) standard. The ESA included environmental database searches; review of local, state, and federal regulatory agency records; and a limited reconnaissance of the Site and vicinity. Any exceptions to, deletions from, this practice are described in Sections 1.6 and 1.7.

1.1 Site Ownership and Location

60 Village Green—Proctorsville, Vermont

Latitude (North): 43.38177 - 43° 22' 54.37''
Longitude (West): 72.638167 - 72° 38' 17.40''
Universal Transverse Mercator: Zone 18
UTM X (Meters): 691321.6
UTM Y (Meters): 4805705.0
Elevation: 941 ft. above sea level
Site Owner: Outer Limits Brewing LLC.
Site Occupants: None
Site Location: 60 Village Green, Proctorsville Vermont
County: Windsor
Parcel ID: 1V20-15106
Size: 0.30 acres

A Locus Map and Site Plan of the Site and general surroundings are provided as Figures 1 and 2. Photographs of the Site are included in Appendix A.

1.2 Purpose

The Phase I ESA was performed to assess the Site with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) and petroleum products. This practice is intended to permit the User to satisfy some of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the Site consistent with good commercial or customary practice" as defined in 42 U.S.C. § 9601(35)(B).

The objective of the Phase I ESA is to identify recognized environmental conditions (RECs) for the Site at the time of the Site evaluation. The term "recognized environmental condition," referenced in the E1527-13, refers to "the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the

environment." The ASTM definition does not include *de minimis* conditions, conditions which generally do not present a threat to human health or the environment and would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. Therefore, *de minimis* conditions are not considered RECs.

1.3 Scope of Services

This ESA was conducted utilizing a standard of good commercial and customary practice that is consistent with E 1527-13. Any significant scope-of-work additions, deletions, or deviations to E 1527-13 are noted below or in the corresponding sections of this report. A copy of the task order request submitted to the VTDEC, specifying the work to be performed for this Phase I ESA is included in Appendix B.

1.4 Non-ASTM Scope Considerations

The scope of work completed for this assessment did not include any non-ASTM scope considerations.

1.5 User Reliance

This report may be distributed and relied upon by the Vermont Department of Environmental Conservation (VTDEC), Outer Limits Brewing, and their successors and assigns. Reliance on the information and conclusions in this report by any other person or entity is not authorized without the written consent of the VTDEC and Weston & Sampson, Inc.

1.6 Deviations

Except for the limitations and exceptions discussed in Section 1.7, this Phase I ESA complies with the ASTM Standard E1527-13.

1.7 Limitations

This report was prepared exclusively for the VTDEC and Outer Limits Brewing. Conclusions and recommendations provided by Weston & Sampson are based solely on the information identified in this document. Future investigations and/or information that was not available to Weston & Sampson at the time of the investigation may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties that could directly impact the Site in the future, that information should be made available to Weston & Sampson for review so that, if necessary, conclusions presented in this report may be modified. The conclusions of this report are based on conditions observed at the Site by Weston & Sampson personnel at the time of the investigation, information provided by EDR, and information provided by federal, state, and local agencies. This report has been prepared in accordance with generally accepted engineering and geological practices. No other warranty, express or implied, is made.

1.8 User Provided Information

A User Questionnaire was forwarded to Mr. Wesley Tice, representative for Outer Limits Brewing, LLC. The information requested in the User Questionnaire is intended to assist in gathering evidence to identify RECs at the Site. A copy of the completed User Questionnaire is included in Appendix C. The following is a summary of the completed User Questionnaire.

1.8.1 Environmental Liens

Mr. Tice did not report any environmental cleanup liens against the Site that are filed or recorded under federal, tribal, state, or local law. A review of Site records conducted by Weston & Sampson did not identify any environmental cleanup liens against the Site.

1.8.2 Activity and Use Limitations

Mr. Tice reported no land use restrictions for the Site.

1.8.3 Specialized Knowledge

Mr. Tice reported that the Site was originally developed as a portion of the Proctorsville/Murdock Woolen Mill.

1.8.4 Valuation Reduction for Environmental Issues

Mr. Tice did not report any property valuation reduction related to environmental issues or concerns.

1.8.5 Commonly Known or Reasonably Ascertainable Information

Mr. Tice reported that the Site was originally developed as a portion of the Proctorsville/Murdock Woolen Mill.

1.8.6 Degree of Obviousness of Contamination

Mr. Tice reported that the Site was originally developed as a portion of the Proctorsville/Murdock Woolen Mill. Mr. Tice did not report any obvious signs of contamination.

1.8.7 Reason for Performing Phase I ESA

The VTDEC has indicated that the Phase I ESA is being performed as a requirement of the Site's entry into the Vermont Department of Environmental Conservation (VTDEC) Brownfields Reuse and Environmental Liability Limitation Act (BRELLA) Program.

2.0 DATA SOURCES

2.1 Electronic Database Search

A review of "standard" environmental databases as specified by ASTM Standard E 1527-13 and maintained by federal, state, and tribal offices was completed through Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. The databases were searched for properties with reported environmental conditions located within approximate minimum search distances as specified by ASTM Standard E 1527-13. The databases use geocoded information to identify the coordinates of the properties or to check the street addresses of practically reviewable non-geocoded "orphan" properties located within the same zip code. The detailed database report, including mapping of results and limitations of the search criteria, is included in Appendix D. The EDR report identifies the names of all the databases that were searched, the date information was last updated, and the date information was last updated by the original source. Any supporting documentation not referenced in the EDR report is attached at the end of Appendix D.

Plotted locations of listed sites are not always accurate. Listings that are determined or suspected to be inaccurate have been evaluated using the best available information.

The table in Section 2.2 summarizes the number of properties identified for each pertinent database. Except any that are excluded, available records for each of the listings identified in the databases were reviewed to assess the potential to impact the Site. In general, releases with sources that are proximate to, and hydraulically upgradient of, the Site have the greatest potential to impact the Site. Weston & Sampson reviewed the location of each pertinent database listing to determine if it met these criteria. If one or more of the following conditions were met, then the database listing was excluded from further consideration because it was deemed not likely to impact the Site:

- Hydrogeologically isolated from the Site (e.g., opposite bank of a river);
- At such distance from the Site that migration of contaminants to the Site is unlikely (i.e. greater than 0.25 mile upgradient for hazardous substance sites and greater 500 feet for petroleum sites); or
- Groundwater flow from the listed property is away from the Site.

The table in Section 2.2 also summarizes the number of database records which have been deemed unlikely to impact the Site for the reasons above. The remaining properties were evaluated in more detail to determine if they pose a threat to the Site. A detailed evaluation of the database results, regulatory file reviews (if performed), and the potential impact of these properties on the Site is included in Sections 3.3 and 4.3.

2.2 Federal and State Records – EDR Standard Environmental Records Database

The table below summarizes the findings of the database search performed by EDR. A copy of the EDR report is included in Appendix D. Evaluation of any onsite listings is included in Section 3.3 and evaluation of any offsite listings requiring additional review is included in Section 4.3.

Summary of EDR Federal/State Regulatory Database Search Findings						
Regulatory Database (Approximate Minimum Search Distance)	Site Listed	Offsite Listings Within Search Distance	Offsite Listings Not Requiring Additional Review			Offsite Listings Requiring Additional Review
			Hydrogeologic Isolation	Distance	Groundwater Flow Away from Site	
NPL/delisted NPL (1.0 mile)	No	0	0	0	0	0
CERCLIS/CERCLIS NFRAP (0.5 mile)	No	0	0	0	0	0
RCRA CORRACTS (1.0 mile)	No	0	0	0	0	0
RCRA non-CORRACTS TSD (0.5 mile)	No	0	0	0	0	0
Federal RCRA Generator Sites (property & adjoining)	No	0	0	0	0	0
Engineering & Institutional Control Registries (property & adjoining)	No	0	0	0	0	0
Federal ERNS list (property)	No	0	0	0	0	0
State Hazardous Waste Sites/ Equivalent NPL/CERCLIS Sites (1.0 mile)	No	2	0	0	0	2
State Landfill & Solid Waste Disposal Sites (0.5 mile)	No	0	0	0	0	0
State Leaking Storage Tank Sites (0.5 mile)	No	1	0	0	0	1
State Registered Storage Tank Sites (property & adjoining)	No	0	0	0	0	0
State Engineering & Institutional Control Registries (property & adjoining)	No	0	0	0	0	0
State Voluntary Cleanup Sites (0.5 mile)	No	0	0	0	0	0
State Brownfields Sites (0.5 mile)	No	1	0	0	0	1

2.3 State Records – Sites Management Section Vermont Hazardous Sites Database

Weston & Sampson performed a review of the Vermont Department of Environmental Conservation, Waste Management Division Interactive Database (WM-ID) and Agency of Natural Resources Natural Resources Atlas. The WM-ID is updated daily and allows for users to identify and check the status of hazardous waste sites and spill sites in Vermont. The Atlas provides geographic information about environmental features and Sites that the Vermont Agency of Natural Resources manages, monitors, permits, or regulates. In addition to standard map navigation tools, this website allows access to documents where available. Maps highlighting the location of nearby sites of concern are included in **Appendix E**. Evaluation of any onsite listings is included in **Section 3.3** and of any offsite listings requiring

additional review is included in Section 4.3. The following table provides a summary of findings of Weston & Sampson's review of the VTDEC WM-ID and ANR Natural Resources Atlas.

Summary of VT DEC WM-ID Search Findings						
Regulatory Database (Approximate Minimum Search Distance)	Site Listed	Offsite Listings Within Search Distance	Offsite Listings Not Requiring Additional Review			Offsite Listings Requiring Additional Review
			Hydrogeologic Isolation	Distance	Groundwater Flow Away from Site	
State Hazardous Sites (1.0 mile)	Yes	1	0	1	0	0
State Brownfields Sites (0.5 mile)	No	1	0	0	0	1
State Spills (Property and adjoining)	No	0	0	0	0	0
State Landfill & Solid Waste Disposal Sites (0.5 mile)	No	0	0	0	0	0
State Registered Storage Tank Sites (property & 0.25 mile)	No	2	1	0	0	1
State Salvage Yard Sites (0.5 mile)	No	0	0	0	0	0
Drycleaners (0.33 mile)	No	0	0	0	0	0

2.4 Orphan Sites

The EDR database report identified two orphan site listings. Orphan sites are those sites that could not be accurately mapped or geocoded due to inadequate location information. When identified, orphan listings provided by EDR are cross-referenced with state and local files to confirm addressing. No orphan listings were identified with the potential to adversely affect environmental media at the Site.

2.5 Historical Records Review

The purpose of consulting historical sources is to identify past high-risk uses which may have led to REC's in connection with the Site. Historical use information was obtained from the sources shown in the table below.

Summary of Historical Records Sources	
Source	Location
Historical Topographic Maps	Appendix F
Historical Aerial Photographs	Appendix G
City Directories	Appendix H
Historical Fire Insurance Maps	Appendix I

2.6 Physical Site Setting

This section presents a description of the sources reviewed during the development of the environmental setting of the Site and regional features including topography, groundwater, and geology.

Summary of Physical Site Setting Sources	
Source	Location
United States Geological Survey (USGS) Quadrangle 7.5-minute series topographic map	Figure 1
VT ANR Natural Resource Atlas - Orthophoto	Figure 2

2.7 Vapor Encroachment Screening

In 2015, ASTM International issued its revised Standard E2600-15 entitled *Standard Guide for Vapor Encroachment (VE) Screening on Property Involved in Real Estate Transactions*. The purpose of the VE standard is to define good commercial and customary practice for conducting a screening assessment of the likelihood for migrating vapors to encroach upon a Site, known as a vapor encroachment condition (VEC). The Vapor Encroachment Screening was performed in general accordance with the scope of work and limitations of ASTM Standard Practice E2600-15 for the Site. The VEC Report is provided in **Appendix J.** Whether encroaching vapors from offsite would result in a vapor intrusion problem requires further investigation that is beyond the scope of the standard.

2.8 Interviews

The purpose of the interviews is to obtain information identifying possible recognized environmental conditions (RECs) in connection with the Site. Weston & Sampson typically interviews the report user, the Site owner, and specific municipal officials that may have insight on the potential use, storage, or release of hazardous materials or USTs at the Site of adjoining properties. Interviews were conducted with the sources shown below.

Summary of Interview Sources	
Source / Interviewee	Location
Report User (VTDEC and Outer Limits Brewing, LLC)	Appendix C
Site Owner (Outer Limits Brewing, LLC)	Appendix C
Town Clerk's Office	Appendix C
Cavendish Historical Society	Appendix C

2.9 Previous Investigation Reports

No known releases have been reported at the Site. However, the following documents from nearby properties were reviewed to evaluate previous Site conditions and to determine if RECs, controlled RECs

(CRECs), or historical RECs (HRECs) exist at the Site. Excerpts from these documents are provided in Appendix K.

- Report: *Limited Environmental Site Assessment, William Markowitz Property, Cavendish, Vermont* Dufresne-Henry, Inc. October 24, 1995.
- Report: *Phase I Environmental Site Assessment of Undeveloped Southwestern Portion of Parcel #151, Proctorsville, Vermont.* ATC Associates, Inc. January 12, 2006.
- Report: *Phase II Environmental Site Assessment, Proctorsville Village Property, Southwest Portion of Parcel 151, Cavendish, Vermont*. The Johnson Company. July 2006.

2.10 Site Reconnaissance

On April 26, 2018, Mr. Steven Shaw of Weston & Sampson, performed a Site reconnaissance of the Site. The Site reconnaissance consisted of walking through the building and walking and/or observing the perimeter/boundaries of the Site. The purpose of the Site reconnaissance was to observe current conditions and assess, based on visual observations, if there was evidence of RECs (i.e., release(s) of oil and/or hazardous materials (OHM) to the surface or subsurface) at the Site or its surrounding areas.

2.11 Qualifications of Environmental Professional Staff

Mr. Nathan Shaffer conducted Site research and prepared the report. Mr. Shaffer is licensed as a Professional Engineer (P.E.) and has six years of performing Phase I and Phase II ESAs. Mr. Shaffer qualifies as an Environmental Professional.

Mr. Steven Shaw conducted Site research, completed the Site reconnaissance, and reviewed the report. He has a Master of Science degree in Geology and seven years of experience performing Phase I & II ESAs. Mr. Shaw qualifies as an Environmental Professional.

Mr. LaRosa provided senior review of the report. Mr. LaRosa has over 25 years of experience performing Phase I & II ESAs. Mr. LaRosa qualifies as an Environmental Professional.

Copies of professional resumes for the staff members listed above are included in Appendix L.

2.12 References

A list of documents referenced in the development of this report is included in Appendix M.

3.0 SITE CONDITIONS AND USE HISTORY

This section presents a descriptive summary of the use, history, and environmental setting of the Site; regional features including topography, groundwater, and geology; and field observations based upon the information gathered from the data sources listed in Section 2.0 and summarized in Table 1.

3.1 Current Use of the Site

The 0.30-acre Site is developed with one 8,000 sq. ft., two-story brick building with a slab-on-grade foundation. The Site building is serviced with Town sewer and water and is heated with electric baseboard heat.

Topography at the Site is generally level. A stormwater catchbasin is located on the west side of the Site building and reportedly discharges to a municipal storm sewer system located south of the Site. The Site is landscaped with grass south of the Site building. Site features are shown on Figure 2.

Information regarding the bedrock geology of the Site was obtained from the Bedrock Geologic Map of Vermont (Ratcliffe, et al, 2011). The Site is located within oceanic and accretionary realm belt of the Moretown Formation, possibly Lower Ordovician to Cambrian in age. Bedrock is a rusty-weathering, dark-gray biotite-muscovite-quartz schist, carbonaceous schist, and gray, splintery-fractured biotitic sulfidic quartz schist. Bedrock was not observed during the Site reconnaissance. Surficial soils at the Site are classified as Urban land. Bedrock outcrops were not observed onsite.

Based on nearby environmental investigations (listed in Section 2.9), groundwater in the vicinity of the Site flows to the east-southeast towards the Black River, approximately 500 feet southeast of the Site. Groundwater is expected to be approximately 11-12 ft. below ground surface (ft. bgs).

Currently the Site building is empty and is being remodeled. The concrete floor is in good condition and appears to have been resurfaced at some point in the building's history. One floor drain was observed in the eastern side of the building and may have been original. The floor drain reportedly discharges to the municipal sanitary sewer. It has a modern cover and the interior of the drain was not accessible during the Site reconnaissance. No hazardous materials or evidence of spills were observed in the Site building.

No other evidence of current or former uses of the Site that pose a risk of an adverse environmental impact were observed during the Site reconnaissance.

3.2 Past Use History

Based on information gathered from the review of historical data sources, results from interviews referenced in Section 2.0, database listings referenced in Section 3.3, and previous reports referenced in Section 2.9, the Site is located in an area of Proctorsville developed for commercial and manufacturing since the before the mid-1800's. The Site is a portion of a woolen mill, developed as the Proctorsville Woolen Mill in 1836. Site uses prior to 1836 were not identified during the historical review.

The Proctorsville Mill operated from 1836 until 1844 when it was destroyed by fire and immediately rebuilt. The mill operated following the fire until 1873 when it failed and was unused for three years. In

1877, it reopened as the Crescent Woolen Mill. The mill primarily used waterpower but had steam as an auxiliary source of power. In 1886, the mill operated by Herbert Murdock, who operated it until his death in 1916.

In 1927, a flood caused serious damage to the mill, at this time called the Proctor Mill. In 1929, the mill was purchased by the Black Bear Woolen Mills and later sold to the Dartmouth Woolen Mills in 1937. On November 11, 1937, the management announced that the mill was closed and the mill complex never produced textiles again. From 1938 until 1950 the mill was owned by Patrick McCormack and Antonio Moriglioni, (who owned the Proctorsville Marble Company) and then by United Marble Company. Use during this time is unknown, however it may have been used to do finish work for Vermont Verde Antique Marble, a type of brecciated serpentinite that was mined locally.

In 1950, the mill was operated by Proctor Reels Inc., who manufactured large wooden reels for electric or telephone wire as well as some furniture.

In 1978, the mill buildings were purchased by E.B.M Enterprises, Inc. and operated by Acousti Phase. Acousti Phase assembled speakers but reportedly did not do any manufacturing on Site. In 1982 the mill complex was destroyed in a fire except for the portion of the mill located on the Site.

From 1989 until 1996 the Site was operated as a warehouse for Wild Bill's Country Discount store. Other small businesses that have operated in the Site building have included CTM Marketing and a tile shop. The Site was purchased by Outer Limits Brewing, LLC, in 2017.

In 1995, a limited environmental site assessment was completed for a larger parcel which included the Site. Two test pits were completed to 9 ft. bgs south of the Site building. Fill, including ash and cinders was noted at 2.5 ft. bgs.

3.3 Database Listing Discussion

The Site was listed in the VTDEC Hazardous Sites database (SMS#20184778) for its entry into the VTDEC Brownfields Reuse and Environmental Liability Limitation Act (BRELLA) program under which this Phase I ESA is being completed. No releases have been identified at the Site to date.

4.0 OFFSITE PROPERTY CONDITIONS AND USE

This section presents a descriptive summary of the use history, and environmental setting pertaining to offsite properties, regional features including topography, groundwater, and geology and field observations based upon the information gathered from the data sources listed in Section 2.0 and summarized in Table 1.

4.1 Current Use of Adjoining Properties

The Site is located in a mixed commercial and residential area of Proctorsville, Vermont. The adjoining properties to the east and southeast are developed with residential buildings. The adjoining property to the north (former location of the mill and the mill canal) is developed as a public park. The adjoining property to the west is developed as a restaurant with residential housing beyond.

4.2 Past Use History

Based on information gathered from the review of historical data sources and results from interviews referenced in Section 2.0, offsite properties near the Site were developed for mixed residential and commercial uses since sometime prior to 1836 when the mill complex was developed. A large mill pond was located north of the Site and extended from the westerly side of the former mill complex and extended several hundred feet to the west, parallel with Main Street (Route 131). Reportedly the mill pond was filled with debris following a fire in 1982. Figure 2 shows approximate location of the former mill pond as well as a former rail spur located north and west of the Site.

4.3 Database Listing Discussion

The database review, as detailed in Section 2.0, identified two offsite listings requiring additional review.

CAVENDISH VILLAGE SITE; VILLAGE GREEN ROAD (SMS #20063567): This property, located approximately 100 feet west (upgradient) of the Site, is listed in the State Hazardous Waste Sites (SHWS) database for PAH contamination in soil and groundwater. The site was issued a Sites Management Activities Completed (SMAC) designation in 2008. Actions completed included relocating PAH-contaminated soils, confirmatory sampling, and capping remaining contaminated soil. A deed restriction is in place at the now residential property. Based on the close proximity and it's use as a mill, soil and groundwater conditions are likely similar to those at the Site.

FORMER COTA & COTA PROCTORSVILLE BULK FACILITY; 428 MAIN STREET (SMS #972184): This property, located approximately 200 feet northwest (upgradient) of the Site, is listed in the leaking underground storage tanks (LUST) and SHWS databases as a bulk storage facility. Soil contamination was identified in 1997 during the removal of two USTs. A Site Investigation was conducted in 1998; several petroleum volatile organic compounds (VOCs) were identified in groundwater in excess of the Vermont Groundwater Enforcement Standards (VGES). No exceedances were reported in 2011 and 2012, and the property was issued a SMAC designation. This property is upgradient to the subject property, however, the past release was addressed to the satisfaction of the applicable regulatory authority, and therefore is considered a Historical Recognized Environmental Condition (HREC) for the subject property.

4.4 Vapor Encroachment Screening

A VEC is defined as the presence or likely presence of chemicals of concern (COC) vapors in the subsurface of the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. An area of concern (AOC) as defined in the E2600-15 is measured 1,760 feet from the Site for known or suspect contaminated sites with volatile organic compounds (VOCs) or semi-VOCs (SVOCs); 528 feet from the Site for known or suspect petroleum hydrocarbon releases. The identification of AOCs may be reduced if the groundwater flow direction is known relative to the Site. Critical distances are considered for contaminated groundwater plumes in any direction for COCs including petroleum light non-aqueous phase liquid (LNAPL) accumulating above the water table at 100 feet from the edge of the plume to the Site and 30 feet for dissolved volatile petroleum hydrocarbons (VPH).

An evaluation of the nearby potential offsite sources is presented in the Vapor Encroachment Screening report, included in Appendix J. The results of the Vapor Encroachment Screening indicate a VEC does not exist for the Site due to offsite sources.

5.0 DATA GAPS

All AAI reports must include an identification of "significant" data gaps (as defined in § 312.20 of AAI final rule and § 12.7 of ASTM E1527-13), if any, in the information collected for the inquiry. Significant data gaps include missing or unattainable information that affects the ability of the environmental professional to identify conditions indicative of releases or threatened releases of hazardous substances, and as applicable, pollutants and contaminants, petroleum or petroleum products, or controlled substances, on, at, in or to the subject property. The documentation of data gaps must include information regarding the significance of these data gaps. The following data gaps were identified during this Phase I ESA:

- Data failure was encountered during historical document review related to the "5-year interval."
- Data failure was encountered during historical document review related to the identification of Site use back to the date of the original development.

It is Weston & Sampson's opinion that the data gaps associated with historical document review do not represent "significant" data gaps as defined by ASTM E1527-13 because other information was identified to define the continuity of Site use and to identify potential RECs in connection with the Site.

No other data gaps, as defined by ASTM Practice E 1527-13, were noted during the Site reconnaissance and records review that would significantly affect the ability of Weston & Sampson to identify RECs in connection with the Site.

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6.0 FINDINGS AND OPINIONS

Findings of the Phase I ESA are as follows:

- The earliest identified development of the Site was as a portion of a woolen mill complex developed circa 1836. The mill complex was destroyed by fire in 1844 and immediately rebuilt. In the late 1930's until 1950 the mill buildings may have been used to do finish work for Vermont Verde Antique Marble, a type of brecciated serpentinite that was mined locally. In 1950, the mill complex was operated by Proctor Reels, Inc., who manufactured large wooden reels for electric or telephone wire as well as some furniture. In 1978, the mill complex was used by Acousti Phase, which assembled speakers but did not manufacture them. In 1982, the majority of the mill complex was destroyed in a fire except for the portions located on the Site and the adjoining property to the west of the Site. From 1989 until 1996 the Site was operated as a warehouse for Wild Bill's Country Discount store. Other small businesses that have operated in the Site building have included CTM Marketing and a tile shop. In 1995, a limited environmental assessment at the Site identified cinders and ash in two test-pits completed south of the Site. Weston & Sampson is of the opinion that the former operation of the site as a portion of a woolen mill, two major fires at the Site, and the known presence of cinders and ash in fill at the Site suggest that common contaminants associated with incomplete combustion (polycyclic aromatic hydrocarbons, or PAHs) are likely present in soil at the Site.
- The Site is located in a commercial and residential area of Proctorsville, Vermont. The Site is approximately 0.3 acres. It is currently developed with one, approximately 8,000 square foot (sq. ft.), two-story brick building with a slab on grade foundation, which was a former portion of the mill complex. In 2017, Outer Limits Brewing, LLC purchased the Site for renovation and use as a brewery. Currently, the Site building is empty with the exception of two small offices. The exterior portions of the Site are landscaped with grass. One floor drain was observed in the eastern side of the building. The floor drain discharges to the municipal sanitary sewer. Weston & Sampson is of the opinion that the documented current use of the Site and adjoining properties does not pose an adverse environmental risk to the property. However, there may have been discharge to the floor drain of equipment grease and other hazardous substances associated with mill operations prior to the Site's connection to the municipal sanitary sewer.
- The Site is listed in the VTDEC Hazardous Sites database (SMS#20184778) for its entry into the VTDEC Brownfields Reuse and Environmental Liability Limitation Act (BRELLA) program under which this Phase I ESA is being completed.
- Six off-site listings (corresponding to two individual sites) were identified within the standardly reviewed databases that required further review. After review of available documentation, Weston & Sampson is of the opinion that these sites do not pose an adverse environmental risk to the Site. However, investigation activities at one site, the Cavendish Village Site (SMS #20063567), located approximately 100 feet west (upgradient) of the Site, identified PAHs in soil and groundwater, interpreted to be indicative of general conditions of soil and groundwater in the vicinity of the former mill complex. This may indicate that the subsurface soil at the Site may also have elevated concentrations of ubiquitous urban contaminants such as PAHs, arsenic, and lead.

- A Vapor Encroachment Screening was performed for properties near the Site. A vapor encroachment condition (VEC) does not exist at the Site.

7.0 CONCLUSIONS

Weston & Sampson, on behalf of the Vermont Department of Conservation (VTDEC), has prepared this Phase I Environmental Site Assessment (ESA) Report for the Outer Limits Brewing property (the Site), located at 60 Village Green, in Proctorsville, a census-designated place in the town of Cavendish, Vermont. The Site is 0.30 acres and is located in a commercial and residential area of Proctorsville. The Site is developed with an 8,000-square foot (sq. ft.) brick building that is vacant and is being remodeled as a brewery and restaurant.

Weston & Sampson has performed this Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 and to meet EPA's All Appropriate Inquiry (AAI) requirements for the Site. Any exceptions to, or deletions from, this practice are described in Sections 1.6 and 1.7.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- The former operation of the site as a woolen mill, two major fires at the Site, the known presence of cinders and ash in fill at the Site, and known PAH contamination in soil near the Site at the Cavendish Village Site suggest that common urban contaminants such as PAHs, arsenic, and lead may be present in soil at the Site.
- Potential for equipment grease and other hazardous substances to enter floor drains during mill operations prior to the Site's connection to the municipal sanitary sewer.

The following historical recognized environmental condition (HREC) exists at the Site:

- The Former Cota & Cota Proctorsville Bulk facility (SMS#972184), located approximately 200 feet northwest (upgradient) of the Site is listed for soil and groundwater volatile organic compound (VOC) contamination identified in 1997 and 1998. No exceedances were reported in 2011 and 2012, and the site was closed. This release was addressed to the satisfaction of the applicable regulatory authority and is considered a HREC.

8.0 RECOMMENDATIONS

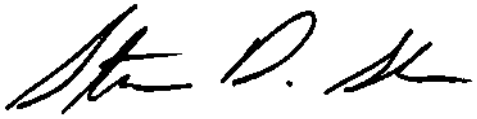
Weston & Sampson recommends performance of a Phase II Environmental Site Assessment at the Site to determine if adverse environmental conditions exist associated with the former operation of the site as a woolen mill, two major fires at the Site, and the known presence of cinders and ash in fill at the Site. Known PAH contamination in soil was identified near the Site at the Cavendish Village Site suggesting that common urban contaminants such as PAHs, arsenic, and lead may be present in soil at the Site. The following recommendations would assess the potential impacts associated with the RECs presented in Section 7.0.

- Collect soil and groundwater samples analyzed for VOCs, semi-volatile volatile organic compounds (SVOCs), and metals to characterize subsurface conditions on the south and east sides of the Site building.
- A dye test or other simple test should be performed to confirm that the floor drain discharges to the sanitary sewer.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I (Steven Shaw) meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Steven D. Shaw
Project Geologist &
Environmental Professional

I declare that, to the best of my professional knowledge and belief, I (Steven LaRosa) meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Reviewed by:



Steven LaRosa
Project Manager &
Environmental Professional

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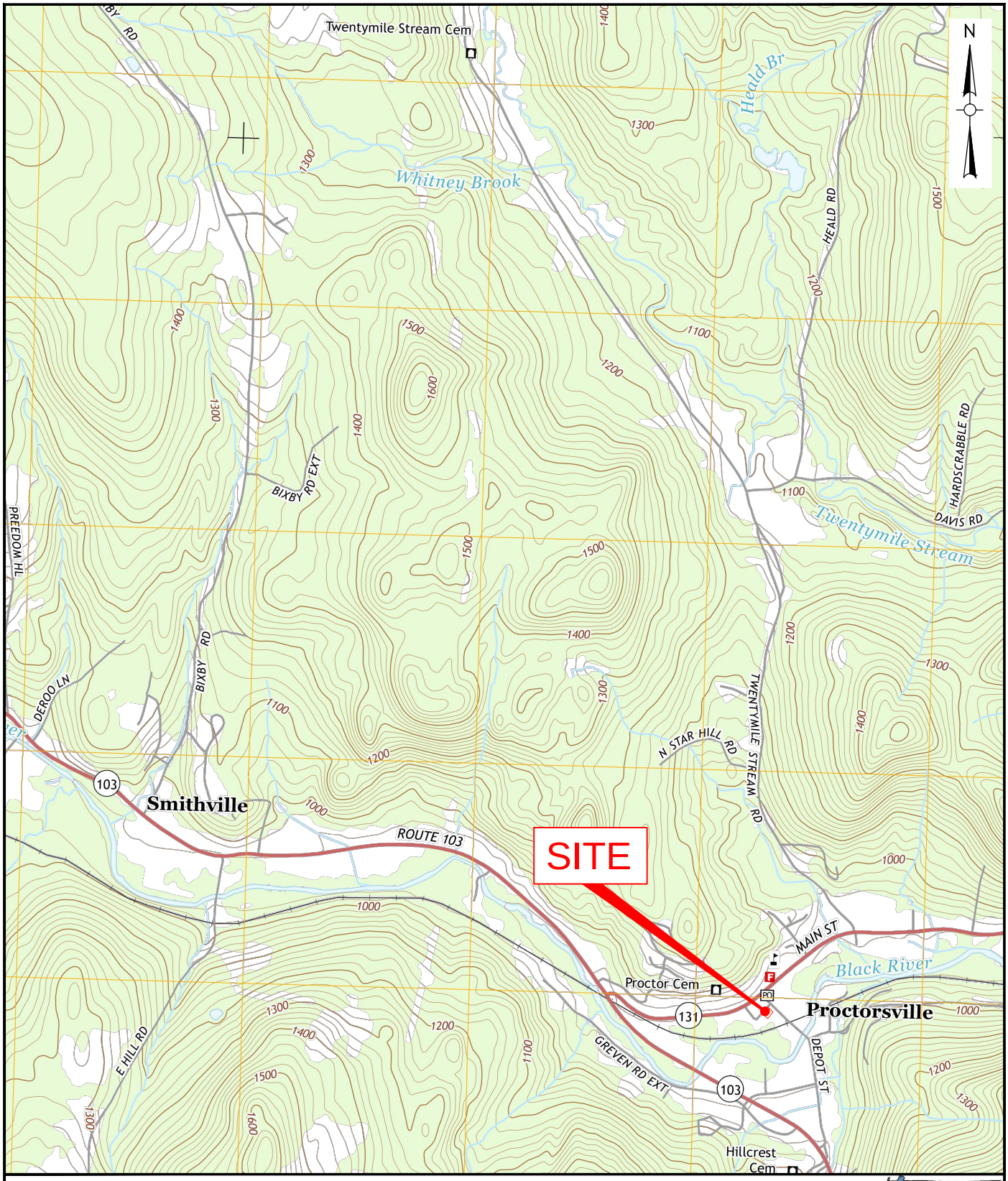
FIGURES



DATA SOURCES:

Printed from USGS Geological Survey, Ludlow Quadrangle, Vermont 7.5-Minute Series
May 8, 2018

FIGURE 1

SITE LOCUS MAP

60 VILLAGE GREEN
PROCTORSVILLE, VERMONT

SCALE: 1"=2,000'

0 2,000 4,000



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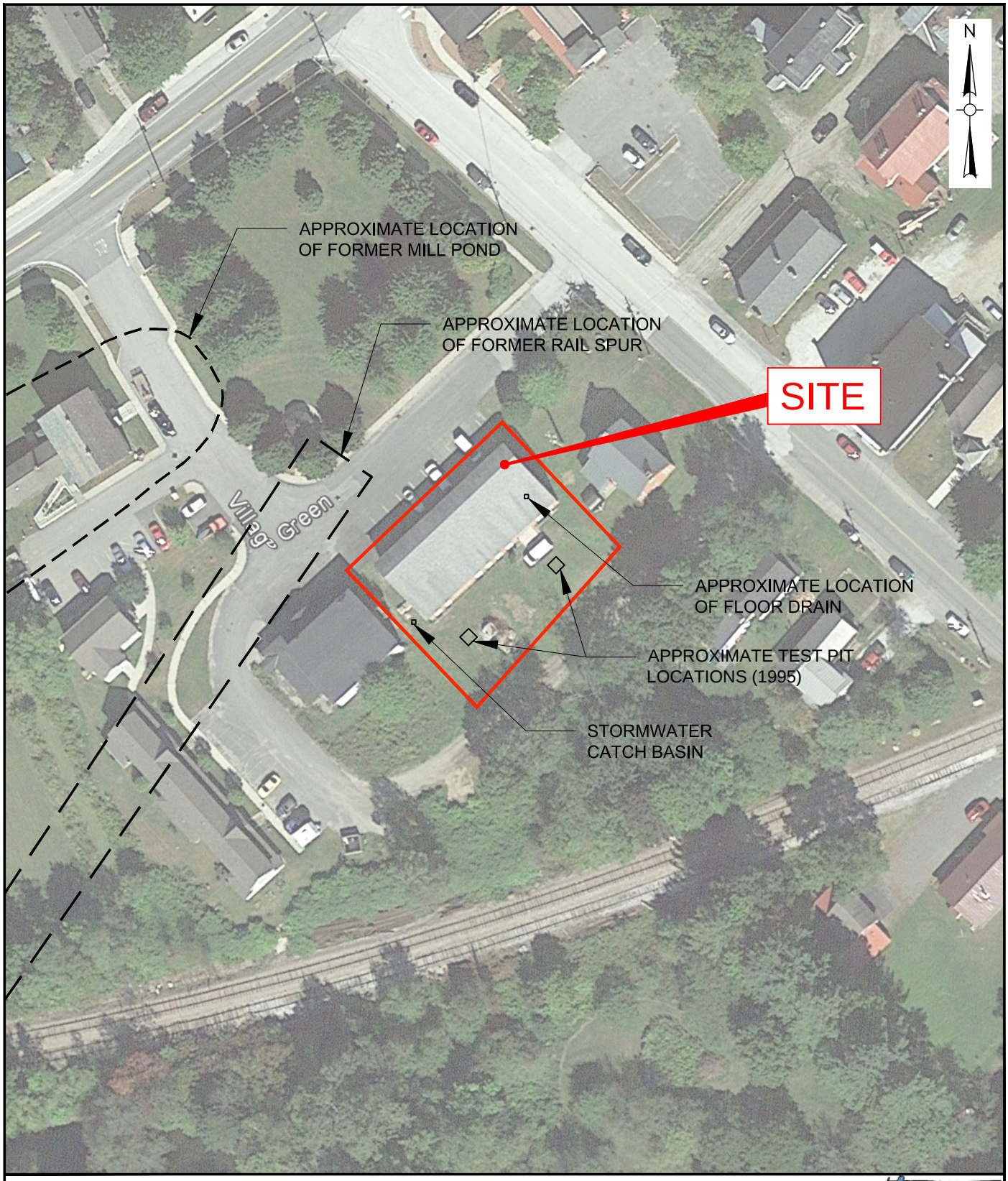

DATA SOURCES:

Printed from Google Earth
May 8, 2018

FIGURE 2
AERIAL MAP
60 VILLAGE GREEN
PROCTORSVILLE, VERMONT
SCALE: 1"=80'

0 80 160



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TABLE

TABLE 1
HISTORICAL AND PHYSICAL SITE REVIEW
60 Village Green, Proctorsville, Vermont

Date	Aerial Photograph	Topographic Map	City Directory	Fire Insurance Map	Municipal Records	Site	North	East	South	West
1914				×		Site appears developed with a building associated with industrial use labeled as H.T. Murdock & Co. Woolen Mill. Site	Large segmented building shown interconnected with Site building to the south.	Residential dwellings and a stable.	Stable shown to the south.	Multiple structures shown, two labeled for storage
1928, 1929, 1932		x				---	Cluster of apparent residential structures along roadway to the north.	---	Railroad shown to the south with river beyond.	Rail siding shown to the west of the site.
1971, 1972		x				---	---	---	---	---
1975, 1978	x					---	---	---	---	---
1987	x					Portion of the Site building extending to the north is no longer present.	Building previously shown interconnected with Site building is no longer present. And property appears mostly vacant.	---	Stable no longer present to the south.	Rail siding no longer visible.
1993, 1994	x					---	---	---	---	---
1997		x				---	---	---	---	---
2000			×			Initial listing of the site address at 60 Village Green in City Directory records	---	---	---	---
2008	x					---	Village Green Road to the north is now visible and the formerly vacant property to the north appears landscaped with trees present along the roadways.	---	---	One building formerly present northwest of the site is no longer visible and property further to the west appears fully developed with new buildings and paved parking areas.
2011	x					---	---	---	---	---
2012		x				---	---	---	The railroad is no longer shown to the south of the site.	---
2014	x		×			---	---	---	---	---
2017					x	Site deed granted to Outer Limits Brewing, LLC. by grantee James B. Filipowicz	---	---	---	---

--- No significant changes apparent

APPENDIX A

Phase I Environmental Site Assessment

Outer Limits Brewing LLC.
60 Village Green, Proctorsville, Vermont



Photo #1
Site overview – north side of Site building.



Photo #2
Site overview – south side of Site building –view to northwest.



Photo #3
Western Site boundary – view to southeast.



Photo #4
Eastern Site boundary –view to southwest.



Photo #5
Interior of first floor – view to northwest.



Photo #6
Office area, first floor.



Photo #7
First floor, looking towards garage door exit on backside of Site building – view to southeast.

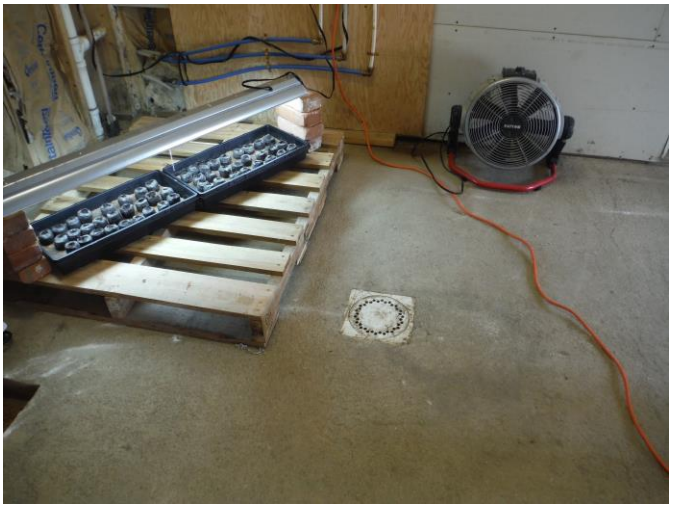

Photo #8
Interior floor drain in garage bay.



Photo #9
Interior of second floor of Site building.

APPENDIX B

98 South Main Street, Suite 2, Waterbury, VT 05676
Tel: 802.244.5051

TASK ORDER REQUEST

PROJECT NAME:	Outer Limits Brewery - Phase I Environmental Site Assessment					
LOCATION:	60 Village Green, Proctorsville					
TASK DESCRIPTION: *(check one)*	X	Phase I ESA		Phase II ESA		Groundwater Monitoring
		CAFI		CAP		
TO:	Kimberly Caldwell, Vermont Department of Environmental Conservation					
FROM:	Steven LaRosa, Weston & Sampson Engineers, Inc.					
DATE:	4/7/18					

The following proposal was developed to provide a Phase I Environmental Site Assessment (ESA) for the Outer Limits Brewery property at 60 Village Green in Proctorsville.

WORK SCOPE

The following general scope of services will be performed for this project. A detailed scope of services specifying the work to be performed for the Phase I ESA is included in Attachment A.

Task 1: Historical, Environmental Site Review, Interviews
Task 2: Database Review
Task 3: Site Inspection/Reconnaissance
Task 4: Questionnaires
Task 5: Phase I ESA Report
Task 6: Recommendations to Client regarding further investigations.

SCHEDULE

We are prepared to perform a site visit upon your return during the week of April 23, 2018. We plan on completing the work scope as soon as possible and no later than May 15, 2018.

COST ESTIMATE

Our Level of Effort and Cost Table (Table 1) is attached including a breakdown of work to be performed and basis of our estimated costs. We propose to perform this work on a not-to-exceed time and expenses basis.

Phase I ESA $2,750

Please contact me at (802)-244-5051 X6007, or via e-mail at larosas@wseinc.com if you have any questions regarding the proposed work scope and costs.

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Attachment A
Weston & Sampson
Phase I Environmental Site Assessment Scope of Work

Phase I ESA User Responsibilities

Outer Limits Brewery will be considered the user of the Phase I ESA. As such, there are user responsibilities identified in the Phase I ESA standard that must be completed in order for the work to be considered compliant. These user responsibilities include:

1. Reviewing title and judicial records for environmental liens, or activity and use limitations (AULs).
2. Provide any specialized knowledge or experience that is material to RECs associated with the subject property; it is the user's responsibility to communicate this knowledge to the environmental professional.
3. Provide any actual knowledge of any environmental liens or other encumbrances for the subject property to the environmental professional.
4. Provide any reasons for a significantly lower purchase price if the subject property is involved in a transaction for purchase or sale.
5. Provide any commonly known or reasonably ascertainable information within the local community about the subject property to the environmental professional.
6. Provide information to the environmental professional why the Phase I ESA is being conducted. If the user does not identify the purpose(s) of the Phase I ESAs, the environmental professional will assume the purpose is to qualify innocent landowner liability protection under CERCLA and will state this in the report.

Weston & Sampson will provide Outer Limits Brewery with a user questionnaire that will assist will completing these responsibilities. While Outer Limits Brewery are responsible for reviewing title and judicial records (item #1 above), which typically falls to the responsibility of a title search company, Weston & Sampson can have this completed if necessary.

The following elements will be included in the proposed ASTM E 1527-13 compliant Phase I ESA:

Agency File Reviews and Historical Records Review

The purpose of the records review is to obtain and review reasonably ascertainable records that will help identify recognized environmental conditions in connection with the subject property. At a minimum the following standard state and federal environmental record sources will be reviewed and may be available from both government sources and/or third party vendors specializing in record retrieval: Federal NPL Site List 1.0 mile; Federal CERCLIS List 0.5 mile; Federal RCRA TSD Facilities List 1.0 mile; Federal RCRA Generators List Subject Property and Adjoining Properties; Federal ERNS List Subject (site only); State Leaking UST Sites 0.5 miles; State Registered UST Sites (site and adjoining properties)

Vermont DEC and/or other state agency files will be reviewed to determine the history of use and regulatory status of the site and of adjoining properties may have the potential to impact the subject property. ASTM E1527-13 also requires that agency files be reviewed if the property use at the site or any adjoining properties is identified as industrial. Weston & Sampson may, as deemed necessary, check additional state and local sources to supplement federal and state sources identified above. Additional records and sources which may be useful and which may be reviewed include:

- ✓ Landfill/Solid Waste Disposal Sites Lists
- ✓ Emergency Release Reports
- ✓ USGS Topographic Maps
- ✓ Building Department Records
- ✓ Local Health Department
- ✓ Fire Department Records
- ✓ Dept. of Natural Resources Publications

Historical sources will be reviewed to ascertain the previous uses or occupancies of the subject property and surrounding area and to identify those uses or occupancies that are likely to have led to recognized environmental conditions in connection with the subject property. The historical records reviewed generally include at least three of the following (where available) sources:

- ✓ Title Records
- ✓ Aerial Photographs
- ✓ USGS Topographic Maps
- ✓ Historical City Directory Records
- ✓ Prior Env. Assessment Reports
- ✓ Historical Fire Insurance Maps
- ✓ Fire Department Records
- ✓ Historical Tax Records
- ✓ Historical Topographic Maps

Site Reconnaissance

The site reconnaissance will be performed to identify recognized environmental conditions in connection with the subject property. To accomplish this objective, visual and physical observations (i.e. noxious or foul odors) will be noted while observing the exterior of the subject property and all structures on the site. Observations will also be made in all accessible interior areas of any site structures.

Weston & Sampson will also note the current use(s) of the subject property during the site reconnaissance. Visual or physical indications of past uses of the subject property that were likely to involve the use, treatment, storage, disposal, or generation of hazardous substances or petroleum products will be described to the extent that this information is noted. Current of adjoining properties will also be described. The observable geologic, hydrogeologic, and topographic conditions on-site and surrounding the site will be described.

During the site reconnaissance, Weston & Sampson will note the presence and/or absence (where applicable) of the following important site conditions:

- ➢ Storage tanks
- ➢ Noxious Odors
- ➢ Drums
- ➢ Drains and sumps
- ➢ Pools of liquid
- ➢ Solid waste
- ➢ Pits, ponds, lagoons
- ➢ Stressed vegetation
- ➢ Stained soil or pavement

- Septic systems
- Waste water
- Monitor Wells
- Heating source
- Identified and/or unidentified substance containers

Interviews

As required by ASTM E 1527-13, Weston & Sampson will conduct interviews with current and past owners and occupants and the individual identified as the Key Site Manager of the Site. The goal of these interviews will be to obtain information concerning the potential for recognized environmental conditions in connection with the site. As such, interviews will focus on obtaining information about current and/or past uses and conditions noted during the site reconnaissance. We will also ask questions to determine if prior environmental documents exist and if any environmental related threatened, pending, or past litigation, administrative actions, or notices of violation exist relevant to hazardous substances or petroleum products in, on, or from the subject property. Reasonable attempts will be made to interview the owners of the site, a representative any site occupants, and/or key site managers.

Interviews with local government officials will also be conducted to obtain information associated with potential RECs in connection with the subject property. Reasonable attempts will be made to interview a staff member of the following types of local government agencies: fire department, health agencies, and/or local/regional office of state agency having jurisdiction over hazardous waste disposal or other environmental matters in the area in which the subject property are located.

Phase I ESA Report

Weston & Sampson's Phase I ESA report will document the observations made and work completed. The report will be devised such that we clearly detail our findings and opinions. Conclusions will focus on the likely presence or absence of recognized environmental conditions in connection with the site. The report will include the environmental professional's opinion of the potential impact of recognized generally follow the recommended format environmental conditions detailed in ASTM E 1527-13. If the assessment reveals no evidence of recognized environmental conditions, then a statement to this effect would be made in the report. Reccomendations regarding the need for additional assessment of the property to evaluate RECs, if identified, will also be included.

APPENDIX C

Initials: WAT

AAI – USER QUESTIONNAIRE
FOR

Outer Limits Brewing LLC.
60 Village Green
Proctorsville, VT

In order to receive CERCLA liability protection, the *user*[1] must provide the following information (if available). Failure to provide this information could result in the determination that "all appropriate inquiry" was not complete.

1. **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**
   Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?
   - ☐ Yes
   - ☒ No
   - ☐ Unknown

   If yes, please describe (attach a separate piece of paper if necessary).

2. **Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).**
   Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?
   - ☐ Yes
   - ☒ No
   - ☐ Unknown

   If yes, please describe.

3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).**
   As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so

[1] The party seeking to complete an AAI to receive CERCLA liability protection

that you would have specialized knowledge of the chemicals and processes used by this type of business?

- ☐ Yes
- ☒ No
- ☐ Unknown

If yes, please describe.

4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

- ☒ Yes
- ☐ No
- ☐ Unknown

If yes, please describe.

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user, (a.) Do you know the past uses of the property? (b.) Do you know of specific chemicals that are present or once were present at the property? (c.) Do you know of any spills or other chemical releases that have taken place at the property? (d.) Do you know of any environmental cleanups that have taken place at the property?

- ☐ Yes
- ☒ No
- ☐ Unknown

If yes, please describe.

5. The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Initials: WAT

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

- [x] **Yes**
- [ ] **No**
- [ ] **Unknown**

If yes, please describe.

Our building and lot were once part of the Proctorsville's Mill locally known as Murdocks.

04/25/2018
Date

Wesley A. Tice
Signature

Weston & Sampson Phase I ESA Questionnaire
for Property Owner, Occupants, Prospective Purchaser and Consultant

Description of Site/Address:

Outer Limits Brewing LLC
60 Village Green
Proctorsville, VT

Question	Owner	Occupant or Prospective Purchaser	Consultant Site Visit	If Yes, provide description
1a. Is the *property* used for an industrial use?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
1b. Is any *adjoining property* used for an industrial use?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
2a. Did you observe evidence or do you have any prior knowledge that the *property* has been used for an industrial use in the past?	Yes ☒ No ☐ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
2b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used for an industrial use in the past?	Yes ☒ No ☐ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
3a. Is the *property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
3b. Is any *adjoining property* used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
4a. Did you observe evidence or do you have any prior knowledge that the *property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	

Weston & Sampson Phase I ESA Questionnaire for Property Owner, Occupants, Prospective Purchaser and Consultant

Question	Owner	Occupants or Prospective Purchaser	Consultant Site Visit	If yes, provide description
4b. Did you observe evidence or do you have any prior knowledge that any *adjoining property* has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility (if applicable, identify which)?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
5a. Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
5b. Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the *property* or at the facility?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
6a. Are there currently any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the *property* or at the facility?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
6b. Did you observe evidence or do you have any prior knowledge that there have been previously any industrial *drums* (typically 55 gal (208 L)) or sacks of chemicals located on the *property* or at the facility?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
7a. Did you observe evidence or do you have any prior knowledge that *fil dirt* has been brought onto the *property* that originated from a contaminated site?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
7b. Did you observe evidence or do you have any prior knowledge that *fill dirt* has been brought onto the *property* that is of an unknown origin?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	

Weston & Sampson Phase I ESA Questionnaire
for Property Owner, Occupants, Prospective Purchaser and Consultant

Question	Owner	Occupants or Prospective Purchaser	Consultant Site Visit	If yes, provide description
8a. Are there currently any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
8b. Did you observe evidence or do you have any prior knowledge that there have been previously, any *pits, ponds*, or *lagoons* located on the *property* in connection with waste treatment or waste disposal?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
9a. Is there currently any stained soil on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
9b. Did you observe evidence or do you have any prior knowledge that there has been previously, any stained soil on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
10a. Are there currently any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
10b. Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
11a. Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
11b. Did you observe evidence or do you have any prior knowledge that there have been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
12a. Is there currently evidence of leaks, spills or staining by substances other than water, or foul odors, associated with any flooring, drains, walls, ceilings, or exposed grounds on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	

Weston & Sampson Phase I ESA Questionnaire
for Property Owner, Occupants, Prospective Purchaser and Consultant

Question	Owner	Occupants or Prospective Purchaser	Consultant Site Visit	If yes, provide description
13a. If the *property* is served by a private well or non-public water system, is there evidence or do you have prior knowledge that contaminants have been identified in the well or system that exceed guidelines applicable to the water system?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
13b. If the *property* is served by a private well or non-public water system, is there evidence or do you have prior knowledge that the well has been designated as contaminated by any government environmental/health agency?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
14. Does the *owner* or *occupant* of the *property* have any knowledge of *environmental liens* or governmental notification relating to past or recurrent violations of environmental laws with respect to the *property* or any facility located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
15a. Has the *owner* or *occupant* of the *property* been informed of the past existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
15b. Has the *owner* or *occupant* of the *property* been informed of the current existence of *hazardous substances* or *petroleum products* with respect to the *property* or any facility located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
15c. Has the *owner* or *occupant* of the *property* been informed of the past existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
15d. Has the *owner* or *occupant* of the *property* been informed of the current existence of environmental violations with respect to the *property* or any facility located on the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		

Weston & Sampson Phase I ESA Questionnaire
for Property Owner, Occupants, Prospective Purchaser and Consultant

Question	Owner	Occupants or Prospective Purchaser	Consultant Site Visit	If yes, provide description
16. Does the *owner* or *occupant* of the *property* have any knowledge of any *environmental site assessment* of the *property* or facility that indicated the presence of *hazardous substances* or *petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
17. Does the *owner* or *occupant* of the *property* know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any *hazardous substance* or *petroleum products* involving the *property* by any *owner* or *occupant* of the *property*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐		
18a. Does the *property* discharge *waste-water* (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a storm water system?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
18b. Does the *property* discharge waste water (not including sanitary waste or storm water) onto or adjacent to the *property* and/or into a sanitary sewer system?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
19. Did you observe evidence or do you have any prior knowledge that any *hazardous substances* or *petroleum products*, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials have been dumped above grade, buried and/or burned on the *property* ?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of *PCBs*?	Yes ☐ No ☒ Unk ☐	Yes ☐ No ☐ Unk ☐	Yes ☐ No ☐	

This questionnaire answers was provided by:

Owner / Occupant / Prospective Purchaser / Consultant

Date: 04/25/2018
Name: Outer Limits Brewing, LLC
Signature: Wesley A. Fiske
Title: Owner
Firm: ~~Outer Limits Brewing, LLC~~
Address: 60 Village Green
Proctorsville, VT 05153

Phone number: 802-554-0136
Role(s) at the site:
Number of years at the site:
Relationship to *user* (for example, principal, employee, agent, consultant): **Property Owner**

Town Record Review
60 Village Green
Cavendish, Vermont

Book	Page	Grantor	Grantee	Date
84	660-661	James B. Filipowicz	Outer Limits Brewing, LLC	4/10/2017
79	368-369	James A. Filipowicz	James B. Filipowicz	11/21/2012
72	704-706	Town of Cavendish	James A. Filipowicz	9/24/2007
48	279	Wild Bill's Country Discount, Inc.	Town of Cavendish	8/12/1996
48	274	Estates of William and Judith Marlowitz	Town of Cavendish	8/29/1996
43	366	E.B.M. Enterprises, Inc.	Wild Bill's Country Discount, Inc.	3/17/1989
36	468-470	Jewell Brook Mills, Inc.	E.B.M. Enterprises, Inc.	2/8/1978
33	105-106	Cavendish Realty Co., Inc.	Jewell Brook Mills, Inc.	9/29/1970
32	186	Town of Cavendish	Cavendish Realty Co., Inc.	2/8/1978
29	346	United Marble Co. Inc	Proctor Reels, Inc.	6/24/1950
28	514	Patrick McCormack and Antonio Moriglioni	United Marble Co. Inc	5/14/1946
27	526	Edward Krock	Patrick McCormack and Antonio Moriglioni	11/29/1938
27	503-506	Dartmouth Woolen Mills	Edward Krock	7/26/1938
27	473	Black Bear Woolen Mills	Dartmouth Woolen Mills	12/29/1937
26	538-540	Archie M. Peisch	Black Bear Woolen Mills	7/30/1929
23	255	RT Murdock and wife	Murdock Company	10/31/1906

APPENDIX D

60 Village Green
60 Village Green
Proctorsville, VT 05153

Inquiry Number: 5259976.2s
April 16, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Physical Setting Source Map	A-15
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

60 VILLAGE GREEN
PROCTORSVILLE, VT 05153

COORDINATES

Latitude (North):	43.3817700 - 43° 22' 54.37''
Longitude (West):	72.6381670 - 72° 38' 17.40''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	691321.6
UTM Y (Meters):	4805705.0
Elevation:	941 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5645111 LUDLOW, VT
Version Date:	2012
Northeast Map:	5641720 CAVENDISH, VT
Version Date:	2012
Southeast Map:	5641722 CHESTER, VT
Version Date:	2012
Southwest Map:	5641716 ANDOVER, VT
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140908, 20140829, 20140810
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
60 VILLAGE GREEN
PROCTORSVILLE, VT 05153

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	PROCTORSVILLE VILLAG	VILLAGE GREEN ROAD	US BROWNFIELDS, FINDS	Higher	71, 0.013, WSW
A2	CAVENDISH VILLAGE SI	ROUTE 131	SHWS, BROWNFIELDS	Higher	142, 0.027, SW
A3	FORMER COTA & COTA P	428 MAIN STREET	SHWS, LUST	Higher	215, 0.041, NW
4	FORMER DEPOT CORNER	DEPOT STREET AND PRA	UST	Higher	617, 0.117, ESE
5	G & G RESTORATIONS	159 MAPLE ST	RCRA-CESQG	Higher	1318, 0.250, North

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Landfills and Transfer Stations

State and tribal leaking storage tank lists

LAST ---------- Sites Database
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
AST ---------- Above Ground Storage Tanks
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS ---------- Engineering Controls Site Listing
INST CONTROL ---------- Institutional Control Sites Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
US CDL ---------- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---------- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
SPILLS ---------- Sites Database
SPILLS 90 ---------- SPILLS 90 data from FirstSearch
SPILLS 80 ---------- SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---------- RCRA - Non Generators / No Longer Regulated

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
AIRS	Permitted AIRS Facility Listing
ASBESTOS	ASBESTOS
DRYCLEANERS	Drycleaner Facilities List
Financial Assurance	Financial Assurance Information Listing
MANIFEST	Hazardous Waste Manifest Data
NPDES	Inventory of NPDES Permits
TIER 2	Tier 2 Data Listing
VAPOR	Vapor Intrusion
UIC	Underground Injection Wells Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS ---------- Recovered Government Archive State Hazardous Waste Facilities List
RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
G & G RESTORATIONS	159 MAPLE ST	N 1/8 - 1/4 (0.250 mi.)	5	21

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Vermont Hazardous Waste Sites List.

A review of the SHWS list, as provided by EDR, and dated 08/11/2017 has revealed that there are 2

SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAVENDISH VILLAGE SI	***ROUTE 131***	***SW 0 - 1/8 (0.027 mi.)***	***A2***	***18***
Facility ID: 20063567 Contamination: PAH Project Status:: Site had a Phase I that indicated it used to be an old Woolen Mill. The area of the site that was investigated for redevelopment through SWCRPC brownfields money was formerly a rail line. Soil and groundwater sampling was conducted revealing low level PAHs. CAP will be prepared to put a restriction on the property as the future use will be housing.				
FORMER COTA & COTA P	***428 MAIN STREET***	***NW 0 - 1/8 (0.041 mi.)***	***A3***	***19***
Facility ID: 972184 Project Status:: 10,000 gallon Kerosene UST and 20,000 gallon fuel oil UST removed May 1997. PID readings peaked at 100 ppm at the time of removal, and at 7.5 ppm during a July 1997 test pit investigation. ISI conducted April 1998; three MWs installed. Former UST area well contained multiple petroleum VOCs in excess of VGES. Subsequent sampling in June 2011 and February 2012 revealed residual TPH in groundwater in all three monitoring points, but no VOCs in excess of lab MDLs. MWs closed August 2012, notice to the Town of Cavendish Land Records filed September 2012.				

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Conservation's Vermont Hazardous Waste Sites List.

A review of the LUST list, as provided by EDR, and dated 08/11/2017 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER COTA & COTA P	***428 MAIN STREET***	***NW 0 - 1/8 (0.041 mi.)***	***A3***	***19***
Closure Date: 12/10/2012 Project Status: 10,000 gallon Kerosene UST and 20,000 gallon fuel oil UST removed May 1997. PID readings peaked at 100 ppm at the time of removal, and at 7.5 ppm during a July 1997 test pit investigation. ISI conducted April 1998; three MWs installed. Former UST area well contained multiple petroleum VOCs in excess of VGES. Subsequent sampling in June 2011 and February 2012 revealed residual TPH in groundwater in all three monitoring points, but no VOCs in excess of lab MDLs. MWs closed August 2012, notice to the Town of Cavendish Land Records filed September 2012. Facility Id: 972184				

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's State of Vermont Underground Storage Tank Database.

A review of the UST list, as provided by EDR, and dated 02/06/2018 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER DEPOT CORNER	DEPOT STREET AND PRA	ESE 0 - 1/8 (0.117 mi.)	4	20

Facility Id: 2460
Facility Status: PULLED
Facility ID: 2460
Facility Status: PULLED

State and tribal Brownfields sites

BROWNFIELDS: A listing of sites in the Brownfields program.

A review of the BROWNFIELDS list, as provided by EDR, and dated 02/21/2018 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAVENDISH VILLAGE SI	***ROUTE 131***	***SW 0 - 1/8 (0.027 mi.)***	***A2***	***18***
Closure Date: 07/29/2008 Site #: 20063567				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 01/19/2018 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

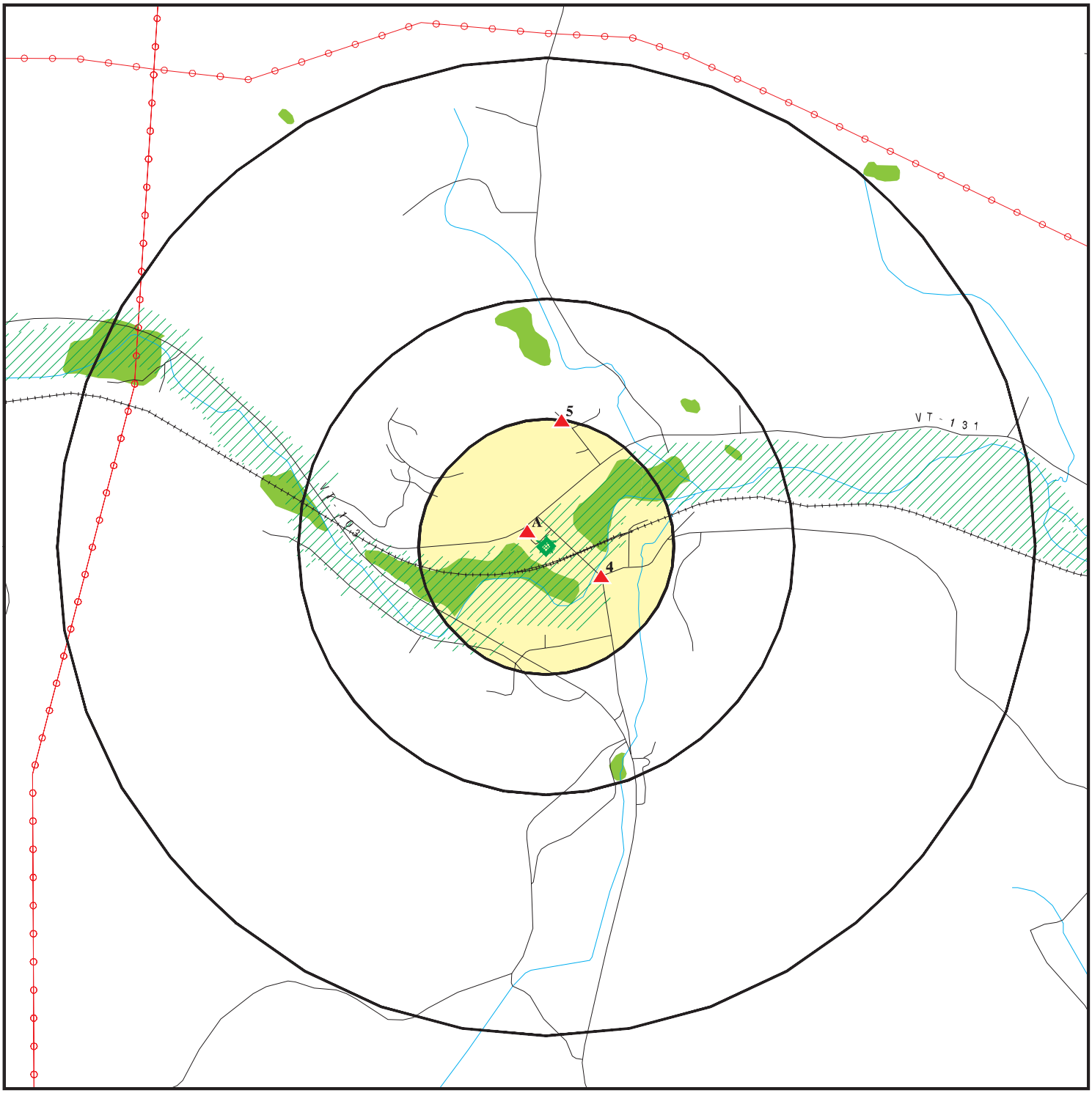
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PROCTORSVILLE VILLAG	***VILLAGE GREEN ROAD***	***WSW 0 - 1/8 (0.013 mi.)***	***A1***	***8***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
BLACK RIVER PRODUCE	LUST
WHITNEY BROOK INN	LUST, UST

OVERVIEW MAP - 5259976.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	60 Village Green	CLIENT:	Weston & Sampson Engineers,Inc
ADDRESS:	60 Village Green Proctorsville VT 05153	CONTACT:	Nathan Shaffer
		INQUIRY #:	5259976.2s
LAT/LONG:	43.38177 / 72.638167	DATE:	April 16, 2018 11:37 am

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DETAIL MAP - 5259976.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

0 1/16 1/8 1/4 Miles

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 60 Village Green ADDRESS: 60 Village Green Proctorsville VT 05153 LAT/LONG: 43.38177 / 72.638167	CLIENT: Weston & Sampson Engineers,Inc CONTACT: Nathan Shaffer INQUIRY #: 5259976.2s DATE: April 16, 2018 11:38 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		2	0	0	0	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		1	0	0	NR	NR	1
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		1	0	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		1	0	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		1	0	0	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
VAPOR	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	6	1	0	0	0	7

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
WSW
< 1/8
0.013 mi.
71 ft.

PROCTORSVILLE VILLAGE PROPERTY
VILLAGE GREEN ROAD
CAVENDISH, VT 05153

Site 1 of 3 in cluster A

US BROWNFIELDS FINDS | **1016348944 N/A**

Relative: Higher

Actual: 943 ft.

US BROWNFIELDS:

Property Name:	PROCTORSVILLE VILLAGE PROPERTY
Recipient Name:	Southern Windsor County Regional Planning Commission
Grant Type:	Assessment
Property Number:	Southwest corner of parcel #151
Parcel size:	.5
Latitude:	43.38251
Longitude:	-72.63837
HCM Label:	Address Matching-Other
Map Scale:	1:24,000
Point of Reference:	Center of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	27641
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completition Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	17700
Assessment Funding Source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	Not reported
Grant Type:	Hazardous
Accomplishment Type:	Phase II Environmental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	97110501
Start Date:	07/13/2006 00:00:00
Ownership Entity:	Government
Completion Date:	07/13/2006 00:00:00
Current Owner:	Town of Cavendish
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	06/09/2008 00:00:00
IC in place:	Y
State/tribal program date:	Not reported
State/tribal program ID:	20063567
State/tribal NFA date:	06/16/2008 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	.1
Future use greenspace acreage:	Not reported
Future use residential acreage:	.5
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Undeveloped property adjacent to property that has included a woolen mill, a manufacturer of cable spools, and a loudspeaker assembly plant. The property was crossed at one time by a railroad spur. The Village of Proctorsville, one of the two village centers in the Town of Cavendish, is located on the main route to the popular Okemo Mountain Resort in Ludlow. Proctorsville Green was the second phase of a broader community development initiative to rebuild an important section of the village center which suffered a disastrous fire in 1982. The 2.23-acre site had been home to the Proctorsville Woolen Mill since 1836. The Mill had been a complex of buildings made of brick, wood and stone. Some of the structures were four-and-a-half stories tall before the fire leveled the area. Only a smokestack, some foundation remnants and a few, smaller, damaged buildings remained.
Below Poverty Number:	23
Below Poverty Percent:	11.3%
Meidan Income:	1404
Meidan Income Number:	43
Meidan Income Percent:	21.1%
Vacant Housing Number:	35
Vacant Housing Percent:	28.0%
Unemployed Number:	4
Unemployed Percent:	2.0%

Property Name:	PROCTORSVILLE VILLAGE PROPERTY
Recipient Name:	Southern Windsor County Regional Planning Commission
Grant Type:	BCRLF
Property Number:	Southwest corner of parcel #151
Parcel size:	.5
Latitude:	43.38251
Longitude:	-72.63837
HCM Label:	Address Matching-Other
Map Scale:	1:24,000
Point of Reference:	Center of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	27641
IC Data Access:	Not reported
Start Date:	07/06/2007 00:00:00
Redev Completition Date:	Not reported
Completed Date:	11/24/2007 00:00:00

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Acres Cleaned Up:	.5
Cleanup Funding:	16052.43
Cleanup Funding Source:	Brownfields RLF Grant Funds Subgranted
Assessment Funding:	Not reported
Assessment Funding Source:	Not reported
Redevelopment Funding:	750000
Redev. Funding Source:	Other Federal Funding
Redev. Funding Entity Name:	CDBG
Redevelopment Start Date:	07/06/2007 00:00:00
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	EPA
Grant Type:	Hazardous
Accomplishment Type:	Not reported
Accomplishment Count:	0
Cooperative Agreement Number:	98191401
Start Date:	Not reported
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	Town of Cavendish
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	06/09/2008 00:00:00
IC in place:	Y
State/tribal program date:	Not reported
State/tribal program ID:	20063567
State/tribal NFA date:	06/16/2008 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	.1
Future use greenspace acreage:	Not reported
Future use residential acreage:	.5
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Undeveloped property adjacent to property that has included a woolen mill, a manufacturer of cable spools, and a loudspeaker assembly plant. The property was crossed at one time by a railroad spur. The Village of Proctorsville, one of the two village centers in the Town of Cavendish, is located on the main route to the popular Okemo

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Mountain Resort in Ludlow. Proctorsville Green was the second phase of a broader community development initiative to rebuild an important section of the village center which suffered a disastrous fire in 1982. The 2.23-acre site had been home to the Proctorsville Woolen Mill since 1836. The Mill had been a complex of buildings made of brick, wood and stone. Some of the structures were four-and-a-half stories tall before the fire leveled the area. Only a smokestack, some foundation remnants and a few, smaller, damaged buildings remained.

Below Poverty Number:	23
Below Poverty Percent:	11.3%
Meidan Income:	1404
Meidan Income Number:	43
Meidan Income Percent:	21.1%
Vacant Housing Number:	35
Vacant Housing Percent:	28.0%
Unemployed Number:	4
Unemployed Percent:	2.0%

Property Name:	PROCTORSVILLE VILLAGE PROPERTY
Recipient Name:	Southern Windsor County Regional Planning Commission
Grant Type:	Assessment
Property Number:	Southwest corner of parcel #151
Parcel size:	.5
Latitude:	43.38251
Longitude:	-72.63837
HCM Label:	Address Matching-Other
Map Scale:	1:24,000
Point of Reference:	Center of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	27641
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completition Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	2000
Assessment Funding Source:	Private/Other Funding
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	RACLT
Cleanup Funding Entity:	Not reported
Grant Type:	Hazardous
Accomplishment Type:	Supplemental Assessment
Accomplishment Count:	0
Cooperative Agreement Number:	97110501
Start Date:	07/01/2006 00:00:00
Ownership Entity:	Government
Completion Date:	Not reported
Current Owner:	Town of Cavendish
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	06/09/2008 00:00:00
IC in place:	Y
State/tribal program date:	Not reported
State/tribal program ID:	20063567
State/tribal NFA date:	06/16/2008 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	.1
Future use greenspace acreage:	Not reported
Future use residential acreage:	.5
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Undeveloped property adjacent to property that has included a woolen mill, a manufacturer of cable spools, and a loudspeaker assembly plant. The property was crossed at one time by a railroad spur. The Village of Proctorsville, one of the two village centers in the Town of Cavendish, is located on the main route to the popular Okemo Mountain Resort in Ludlow. Proctorsville Green was the second phase of a broader community development initiative to rebuild an important section of the village center which suffered a disastrous fire in 1982. The 2.23-acre site had been home to the Proctorsville Woolen Mill since 1836. The Mill had been a complex of buildings made of brick, wood and stone. Some of the structures were four-and-a-half stories tall before the fire leveled the area. Only a smokestack, some foundation remnants and a few, smaller, damaged buildings remained.
Below Poverty Number:	23
Below Poverty Percent:	11.3%
Meidan Income:	1404
Meidan Income Number:	43
Meidan Income Percent:	21.1%
Vacant Housing Number:	35
Vacant Housing Percent:	28.0%
Unemployed Number:	4
Unemployed Percent:	2.0%
Property Name:	PROCTORSVILLE VILLAGE PROPERTY
Recipient Name:	Southern Windsor County Regional Planning Commission
Grant Type:	Assessment
Property Number:	Southwest corner of parcel #151

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Parcel size:	.5
Latitude:	43.38251
Longitude:	-72.63837
HCM Label:	Address Matching-Other
Map Scale:	1:24,000
Point of Reference:	Center of a Facility or Station
Highlights:	Not reported
Datum:	North American Datum of 1983
Acres Property ID:	27641
IC Data Access:	Not reported
Start Date:	Not reported
Redev Completition Date:	Not reported
Completed Date:	Not reported
Acres Cleaned Up:	Not reported
Cleanup Funding:	Not reported
Cleanup Funding Source:	Not reported
Assessment Funding:	1500
Assessment Funding Source:	US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment Funding:	Not reported
Redev. Funding Source:	Not reported
Redev. Funding Entity Name:	Not reported
Redevelopment Start Date:	Not reported
Assessment Funding Entity:	Not reported
Cleanup Funding Entity:	Not reported
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	1
Cooperative Agreement Number:	97110501
Start Date:	01/12/2006 00:00:00
Ownership Entity:	Government
Completion Date:	01/12/2006 00:00:00
Current Owner:	Town of Cavendish
Did Owner Change:	N
Cleanup Required:	Y
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	Y
IC Category Proprietary Controls:	Not reported
IC Cat. Info. Devices:	Y
IC Cat. Gov. Controls:	Not reported
IC Cat. Enforcement Permit Tools:	Not reported
IC in place date:	06/09/2008 00:00:00
IC in place:	Y
State/tribal program date:	Not reported
State/tribal program ID:	20063567
State/tribal NFA date:	06/16/2008 00:00:00
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported
Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Y
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Y
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Surface Water:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	.1
Future use greenspace acreage:	Not reported
Future use residential acreage:	.5
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
Nickel Cleaned Up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported
No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported

PROCTORSVILLE VILLAGE PROPERTY (Continued) **1016348944**

Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported
Property Description:	Undeveloped property adjacent to property that has included a woolen mill, a manufacturer of cable spools, and a loudspeaker assembly plant. The property was crossed at one time by a railroad spur. The Village of Proctorsville, one of the two village centers in the Town of Cavendish, is located on the main route to the popular Okemo Mountain Resort in Ludlow. Proctorsville Green was the second phase of a broader community development initiative to rebuild an important section of the village center which suffered a disastrous fire in 1982. The 2.23-acre site had been home to the Proctorsville Woolen Mill since 1836. The Mill had been a complex of buildings made of brick, wood and stone. Some of the structures were four-and-a-half stories tall before the fire leveled the area. Only a smokestack, some foundation remnants and a few, smaller, damaged buildings remained.
Below Poverty Number:	23
Below Poverty Percent:	11.3%
Meidan Income:	1404
Meidan Income Number:	43
Meidan Income Percent:	21.1%
Vacant Housing Number:	35
Vacant Housing Percent:	28.0%
Unemployed Number:	4
Unemployed Percent:	2.0%

FINDS:

Registry ID: 110038751605

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A2 **CAVENDISH VILLAGE SITE** **SHWS S108114031**
SW **ROUTE 131** **BROWNFIELDS N/A**
< 1/8 **CAVENDISH, VT**
0.027 mi.
142 ft. **Site 2 of 3 in cluster A**

Relative: Higher
Actual: 942 ft.

SHWS:

Facility ID:	20063567
Source Type:	Unknown
Priority:	SMAC - Site Management Activities Completed
Staff:	Patricia Coppolino
Closure Date:	07/29/2008
Site Use:	Residential

CAVENDISH VILLAGE SITE (Continued) **S108114031**

site Status: Brownfields
Contamination: PAH
Institutional Control: Deed Restriction
Record Last Update: 11/18/2016
Project Status: Site had a Phase I that indicated it used to be an old Woolen Mill. The area of the site that was investigated for redevelopment through SWCRPC brownfields money was formerly a rail line. Soil and groundwater sampling was conducted revealing low level PAHs. CAP will be prepared to put a restriction on the property as the future use will be housing.

Click here to access VT DEC Site:

BROWNFIELDS:
Site #: 20063567
Priority: SMAC
Discovery Date: 07/01/2006
Closure Date: 07/29/2008
Contamination: PAHs soil and groundwater

A3 NW < 1/8 0.041 mi. 215 ft. **FORMER COTA & COTA PROCTORSVILLE BULK FA** **SHWS S107176111**
428 MAIN STREET **LUST N/A**
CAVENDISH, VT

Site 3 of 3 in cluster A

Relative: Higher
Actual: 953 ft.

SHWS:
Facility ID: 972184
Source Type: Other
Priority: SMAC - Site Management Activities Completed
Staff: Sarah A. Bartlett
Closure Date: 12/10/2012
Site Use: Bulk Storage
site Status: Not reported
Contamination: Not reported
Institutional Control: Not reported
Record Last Update: 07/01/2013
Project Status: 10,000 gallon Kerosene UST and 20,000 gallon fuel oil UST removed May 1997. PID readings peaked at 100 ppm at the time of removal, and at 7.5 ppm during a July 1997 test pit investigation. ISI conducted April 1998; three MWs installed. Former UST area well contained multiple petroleum VOCs in excess of VGES. Subsequent sampling in June 2011 and February 2012 revealed residual TPH in groundwater in all three monitoring points, but no VOCs in excess of lab MDLs. MWs closed August 2012, notice to the Town of Cavendish Land Records filed September 2012.

Click here to access VT DEC Site:

LUST:
Facility ID: 972184
Source: UST-Heating Oil
Closure Date: 12/10/2012
Priority: SMAC - Site Management Activities Completed
Staff: Sarah A. Bartlett
Source: UST-Heating Oil
Site Use: Bulk Storage

FORMER COTA & COTA PROCTORSVILLE BULK FA (Continued) **S107176111**

Site Status:	Not reported
Contamination:	Not reported
Institutional Control:	Not reported
Record Last Update:	07/01/2013
Project Status:	10,000 gallon Kerosene UST and 20,000 gallon fuel oil UST removed May 1997. PID readings peaked at 100 ppm at the time of removal, and at 7.5 ppm during a July 1997 test pit investigation. ISI conducted April 1998; three MWs installed. Former UST area well contained multiple petroleum VOCs in excess of VGES. Subsequent sampling in June 2011 and February 2012 revealed residual TPH in groundwater in all three monitoring points, but no VOCs in excess of lab MDLs. MWs closed August 2012, notice to the Town of Cavendish Land Records filed September 2012.

Click here to access VT DEC Site:

4
ESE
< 1/8
0.117 mi.
617 ft.

FORMER DEPOT CORNER INN **UST** **U001921033**
DEPOT STREET AND PRATT HILL ROAD **N/A**
CAVENDISH, VT 05153

Relative: Higher

Actual: 951 ft.

UST:

Facility:

Facility ID:	2460
Facility Status:	PULLED
Sites Id:	Not reported
Pin:	Not reported
Permitted To:	Not reported
Landowner:	Lucien Choiniere
Permit Expires:	Not reported
Fee Status:	Not reported
Tanks Pulled:	1
Site Code:	No contamination
Removed:	1
Receipt:	Not reported
Owner Name:	Lucien Choiniere
Owner Person:	Not reported
Owner Address:	PO Box 213
Owner City,St,Zip:	Proctorsville, VT 05153
Owner Telephone:	Not reported
Operator Name:	Not reported
Operator Person:	Not reported
Operator Address:	Not reported
Operator City,St,Zip:	Not reported
Operator Telephone:	Not reported
Groundwater Monitoring Wells:	Not reported
Vapor Monitoring Points:	Not reported

Tank Data:

Tank ID:	13039
Tank Status:	PULLED
Tank Label:	-1-1
Tank Protect:	Unprotected Steel
Year Removed:	1998
Capacity (Gal):	4000

FORMER DEPOT CORNER INN (Continued) **U001921033**

Category One:	UST
CP Test:	Not reported
Release Monitor:	Not reported
Condition:	GOOD
Date Reference:	Not reported

Compartment:

Comp Id:	13120
Compartment Label:	A
Substance:	Fuel Oil #2 or #4
Spill:	Not reported
Overfill:	Not reported

Piping:

Pipe Seq:	1
Pipe Type:	furnace
Pipe Installation Year:	-1
Pipe Protection:	Unprotected steel
CP Pipe Test:	Not reported
Pipe Monitor 1:	Not reported
Pipe Monitor 1 Test:	Not reported
Pipe Monitor 2:	Not reported
Pipe Monitor 2 Tested Date:	Not reported
Pump Type:	Suction

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5 **G & G RESTORATIONS** **RCRA-CESQG** **1004792821**
North **159 MAPLE ST** **VTR000014464**
1/8-1/4 **CAVENDISH, VT 05153**
0.250 mi.
1318 ft.

Relative: **Higher**

Actual: **1006 ft.**

RCRA-CESQG:

Date form received by agency:	05/08/2000
Facility name:	G & G RESTORATIONS
Facility address:	159 MAPLE ST CAVENDISH, VT 05153
EPA ID:	VTR000014464
Mailing address:	PO BOX 108 PROCTORSVILLE, VT 05153-0108
Contact:	JOHN JONET
Contact address:	PO BOX 108 PROCTORSVILLE, VT 05153-0108
Contact country:	US
Contact telephone:	802-226-7844
Contact email:	Not reported
EPA Region:	01
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of

G & G RESTORATIONS (Continued) **1004792821**

any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	JOHN JONET
Owner/operator address:	159 MAPLE ST PROCTORSVILLE, VT 05153
Owner/operator country:	Not reported
Owner/operator telephone:	802-226-7844
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D001
. Waste name:	IGNITABLE WASTE
. Waste code:	D018
. Waste name:	BENZENE
. Waste code:	D039
. Waste name:	TETRACHLOROETHYLENE
. Waste code:	D040
. Waste name:	TRICHLORETHYLENE
. Waste code:	F003
. Waste name:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL

G & G RESTORATIONS (Continued) **1004792821**

BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: VT02
. Waste name: Waste containing greater than 5% by weight petroleum distillates with melting points of less than 100 degrees F, including but not limited to kerosene, fuel oil, hydraulic oils, lubricating oils, penetrating oils, tramp oils, quenching oils, and crankcase and automotive oils which have not been exempted under Section 7-203(n), (o) and (p)

Violation Status: No violations found

Count: 2 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CAVENDISH	S103869056	BLACK RIVER PRODUCE	ROUTE 103		LUST
CAVENDISH	U003984649	WHITNEY BROOK INN	2423 TWENTY MILE STREAM RD		LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 14

Source: EPA
Telephone: N/A
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 66

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 66

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 06/13/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 94

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/09/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 01/16/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 63

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

SHWS: Sites Database

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 08/11/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Landfills and Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/17/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 802-241-3444
Last EDR Contact: 03/08/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Sites Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. Source Type: Underground Storage Tank.

Date of Government Version: 08/11/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 802-241-3888
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

LAST: Sites Database

Leaking aboveground storage tank site locations included in the Sites database.

Date of Government Version: 08/11/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/06/2018
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/16/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Varies

UST: State of Vermont Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/06/2018
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/26/2018
Number of Days to Update: 46
Source: Department of Environmental Conservation
Telephone: 802-241-3888
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

AST: Above Ground Storage Tanks
A listing of facilities with aboveground storage tanks.

Date of Government Version: 08/17/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 43
Source: Department of Public Safety
Telephone: 802-244-8721
Last EDR Contact: 01/29/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/16/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 134

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/13/2018
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/14/2017
Date Data Arrived at EDR: 01/23/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 80

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/23/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing
A listing of Active and Closed sites with institutional controls in place

Date of Government Version: 08/11/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

INST CONTROL: Institutional Control Sites Listing
Active and Closed Sites with institutional controls in place.

Date of Government Version: 08/11/2017
Date Data Arrived at EDR: 08/11/2017
Date Made Active in Reports: 10/04/2017
Number of Days to Update: 54

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/15/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/21/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site LIst
A listing of sites in the Brownfields program.

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/22/2018
Date Made Active in Reports: 03/26/2018
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 802-241-3888
Last EDR Contact: 02/22/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 01/19/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/21/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/22/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/02/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/19/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 16

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 16

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/27/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 01/19/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 63

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

SPILLS: Sites Database

Hazardous materials spills included in the Sites database.

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/22/2018
Date Made Active in Reports: 03/26/2018
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 02/22/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 04/19/2000
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/09/2018
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/11/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/16/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/11/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/23/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/09/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/06/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/09/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/06/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/26/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 01/04/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/05/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 79

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018
Date Data Arrived at EDR: 02/06/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36
Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 10/29/2017
Date Data Arrived at EDR: 11/28/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 45
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/20/2017
Date Data Arrived at EDR: 12/21/2017
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 92

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/13/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018
Date Data Arrived at EDR: 02/21/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 30

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Quarterly

AIRS: Permitted AIRS Facility Listing

A listing of permitted AIRS facility locations.

Date of Government Version: 11/27/2017
Date Data Arrived at EDR: 12/26/2017
Date Made Active in Reports: 02/13/2018
Number of Days to Update: 49

Source: Department of Environmental Conservation
Telephone: 802-241-3840
Last EDR Contact: 03/28/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

Asbestos notification sites

Date of Government Version: 03/09/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 03/26/2018
Number of Days to Update: 13

Source: Department of Health
Telephone: 802-865-7784
Last EDR Contact: 03/08/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facilities List

A listing of drycleaners that use perchloroethylene.

Date of Government Version: 02/06/2018
Date Data Arrived at EDR: 02/08/2018
Date Made Active in Reports: 03/26/2018
Number of Days to Update: 46

Source: Department of Environmental Conservation
Telephone: 802-241-3857
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 06/30/2009
Date Data Arrived at EDR: 09/14/2009
Date Made Active in Reports: 09/30/2009
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 802-241-3868
Last EDR Contact: 03/22/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 01/12/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 02/13/2018
Number of Days to Update: 25

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/12/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Annually

NPDES: Inventory of NPDES Permits
A listing of NPDES permits.

Date of Government Version: 01/17/2018
Date Data Arrived at EDR: 01/18/2018
Date Made Active in Reports: 02/13/2018
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 802-241-2369
Last EDR Contact: 01/18/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Varies

TIER 2: Tier 2 Data Listing
A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 06/11/2012
Number of Days to Update: 33

Source: Department of Public Safety
Telephone: 802-244-8721
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Varies

VAPOR: Vapor Intrusion
A listing of where the site project manager has determined that an indoor air impact has occurred. This may be due to either vapor intrusion (VI) or direct releases of a hazardous material into a building.

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/08/2017
Date Made Active in Reports: 01/24/2018
Number of Days to Update: 138

Source: Agency of Natural Resources
Telephone: 802-828-1295
Last EDR Contact: 03/01/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Varies

UIC: Underground Injection Wells Listing
A listing of underground injection wells in the state.

Date of Government Version: 10/30/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 01/08/2018
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 802-585-4913
Last EDR Contact: 03/12/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Vermont.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 191

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Vermont.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/17/2014
Number of Days to Update: 200

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Vermont.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 187

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/14/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/31/2018
Date Made Active in Reports: 03/09/2018
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/12/2018
Next Scheduled EDR Contact: 07/30/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Providers
Source: Social & Rehabiltation Services
Telephone: 802-241-2158

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: VT Center for Geographic Information
Telephone: 802-882-3001

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

60 VILLAGE GREEN
60 VILLAGE GREEN
PROCTORSVILLE, VT 05153

TARGET PROPERTY COORDINATES

Latitude (North):	43.38177 - 43° 22' 54.37''
Longitude (West):	72.638167 - 72° 38' 17.40''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	691321.6
UTM Y (Meters):	4805705.0
Elevation:	941 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5645111 LUDLOW, VT
Version Date:	2012
Northeast Map:	5641720 CAVENDISH, VT
Version Date:	2012
Southeast Map:	5641722 CHESTER, VT
Version Date:	2012
Southwest Map:	5641716 ANDOVER, VT
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

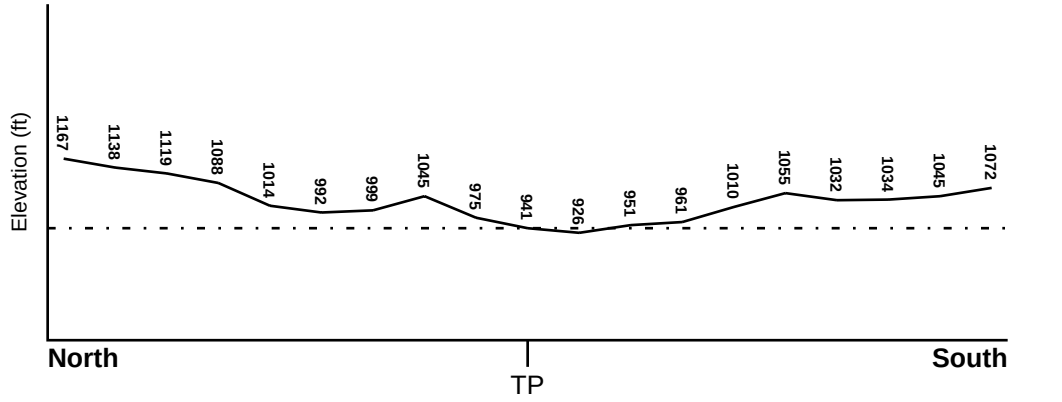
TOPOGRAPHIC INFORMATION

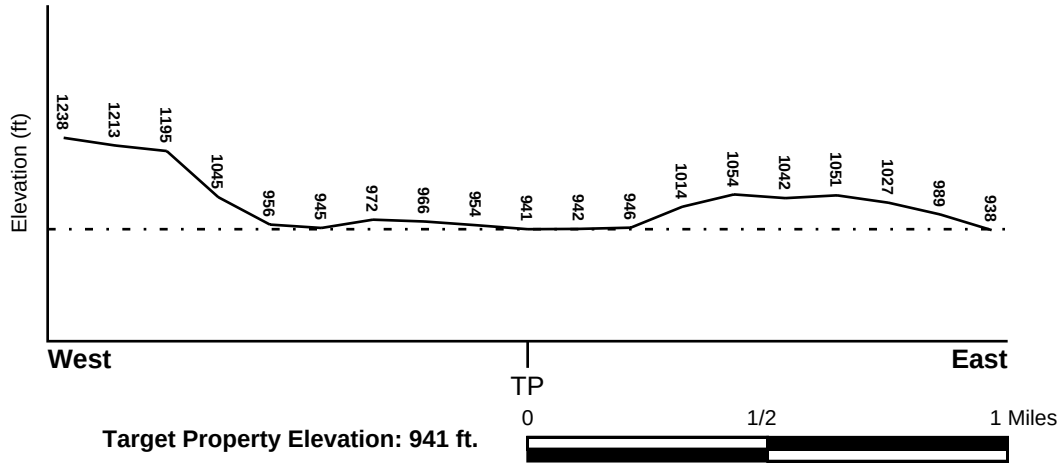
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 941 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
50027C0594E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
50027C0593E	FEMA FIRM Flood data
50027C0613E	FEMA FIRM Flood data
50027C0682E	FEMA FIRM Flood data
50027C0701E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LUDLOW	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

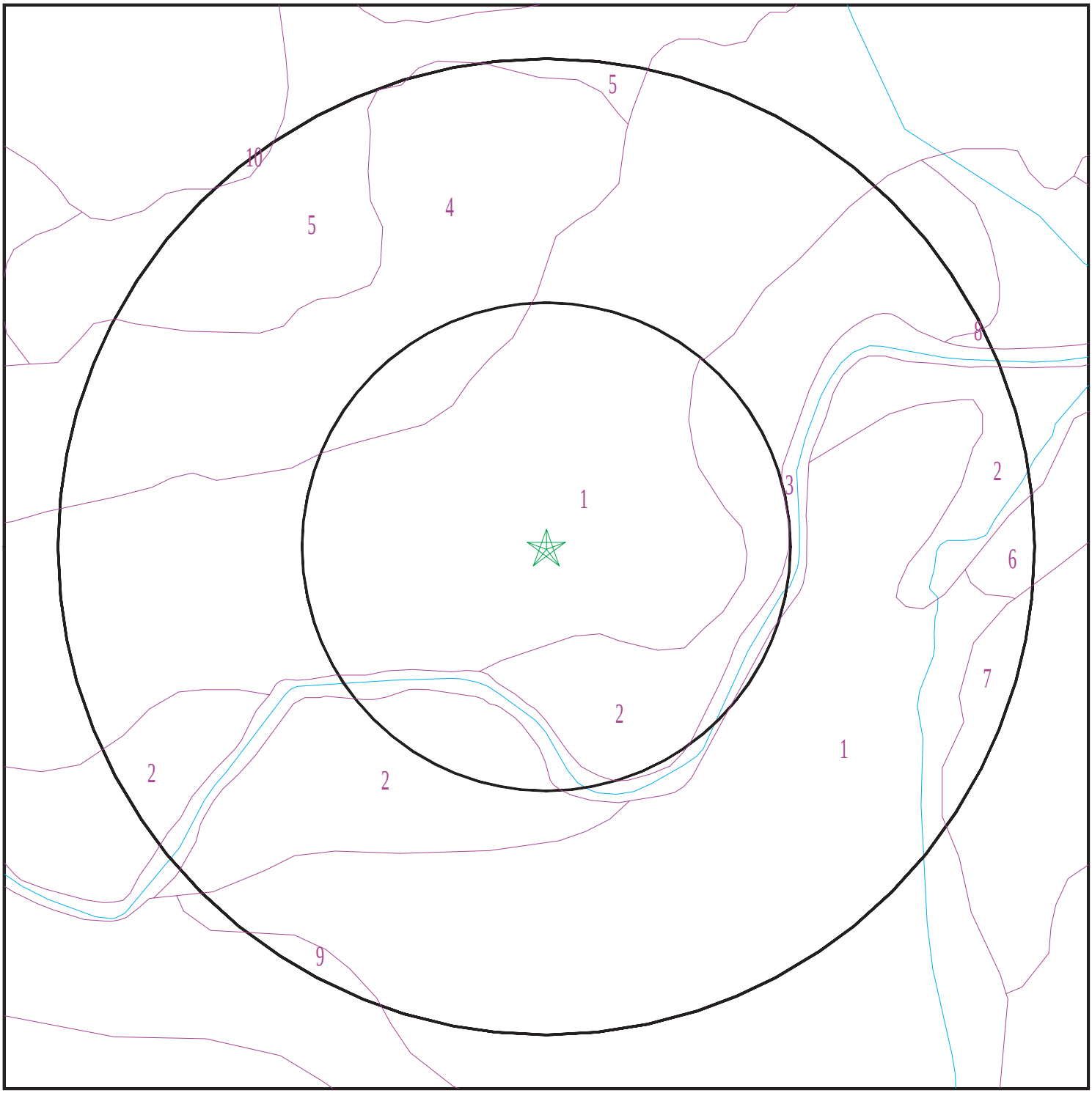
Era:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	Ce *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5259976.2s



SITE NAME:	60 Village Green	CLIENT:	Weston & Sampson Engineers,Inc
ADDRESS:	60 Village Green Proctorsville VT 05153	CONTACT:	Nathan Shaffer
LAT/LONG:	43.38177 / 72.638167	INQUIRY #:	5259976.2s
		DATE:	April 16, 2018 11:38 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 54 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: 0.4233 Min: 0.01	Max: Min:

Soil Map ID: 2

Soil Component Name: Podunk

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6.5 Min: 4.5
2	5 inches	27 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6.5 Min: 4.5
3	27 inches	64 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Adams

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	5 inches	9 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 3.6
2	9 inches	25 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
3	25 inches	64 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141.1111	Max: 6.5 Min: 4.5
4	0 inches	5 inches	moderately decomposed plant material	A-8	Highly organic soils, Peat.	Max: 42.3333 Min: 14.1111	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Adams

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	5 inches	9 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 3.6
2	9 inches	25 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
3	25 inches	64 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141.1111	Max: 6.5 Min: 4.5
4	0 inches	5 inches	slightly decomposed plant material	A-8	Highly organic soils, Peat.	Max: 42.3333 Min: 14.1111	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 6

Soil Component Name: Colton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6.5 Min: 4.5
2	14 inches	22 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
3	7 inches	14 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
4	22 inches	64 inches	very gravelly loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 705 Min: 141.1111	Max: 6.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Berkshire

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 4.5
2	3 inches	33 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 4.5
3	33 inches	64 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 4.5

Soil Map ID: 8

Soil Component Name: Rumney

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 7.3 Min: 5.1
2	3 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 7.3 Min: 5.1
3	20 inches	27 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 7.3 Min: 5.1
4	27 inches	64 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 7.3 Min: 5.1

Soil Map ID: 9

Soil Component Name: Colton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6.5 Min: 4.5
2	14 inches	22 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
3	7 inches	14 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141.1111 Min: 42.3333	Max: 6 Min: 4.5
4	22 inches	64 inches	very gravelly loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 705 Min: 141.1111	Max: 6.5 Min: 4.5

Soil Map ID: 10

Soil Component Name: Berkshire

Soil Surface Texture: slightly decomposed plant material

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 64 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	slightly decomposed plant material	A-8	Highly organic soils, Peat.	Max: 42 Min: 14	Max: 5.5 Min: 3.6
2	1 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 3.6
3	3 inches	33 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 3.6
4	33 inches	64 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42.3333 Min: 4.2333	Max: 6 Min: 3.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40001195638	1/4 - 1/2 Mile West
6	USGS40001195639	1/4 - 1/2 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

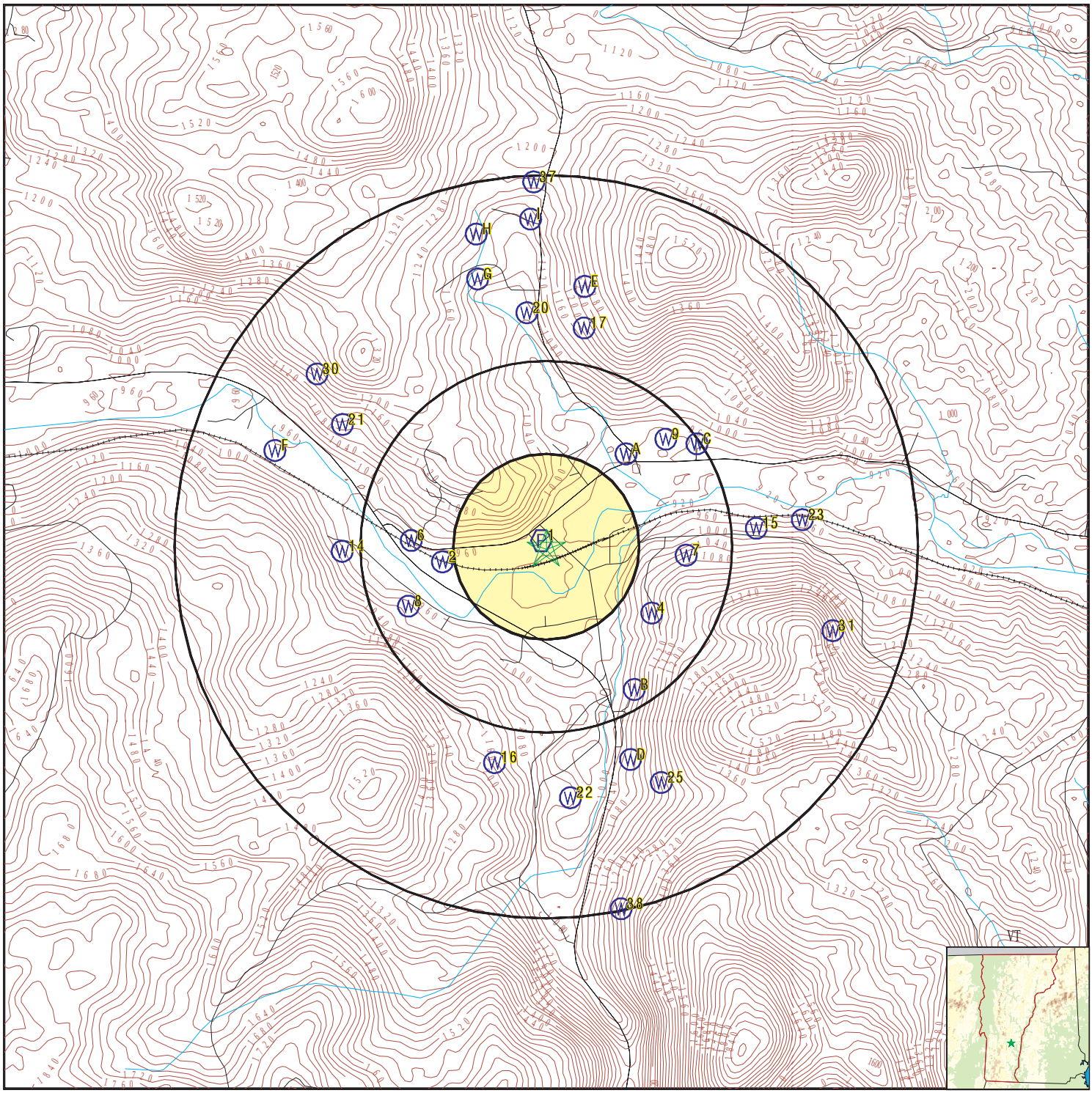
MAP ID	WELL ID	LOCATION FROM TP
1	VT0001059	0 - 1/8 Mile NW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	VT5000000020318	1/4 - 1/2 Mile NE
4	VT5000000052067	1/4 - 1/2 Mile ESE
A5	VT5000000001124	1/4 - 1/2 Mile NE
7	VT5000000082756	1/4 - 1/2 Mile East
8	VT5000000082757	1/4 - 1/2 Mile WSW
9	VT5000000082824	1/4 - 1/2 Mile NE
B10	VT5000000043007	1/4 - 1/2 Mile SSE
B11	VT5000000042916	1/4 - 1/2 Mile SE
C12	VT5000000025128	1/4 - 1/2 Mile NE
C13	VT5000000000811	1/2 - 1 Mile NE
14	VT5000000009154	1/2 - 1 Mile West
15	VT5000000053493	1/2 - 1 Mile East
16	VT5000000082753	1/2 - 1 Mile SSW
17	VT5000000020319	1/2 - 1 Mile North
D18	VT5000000023037	1/2 - 1 Mile SSE
D19	VT5000000082809	1/2 - 1 Mile SSE
20	VT5000000026140	1/2 - 1 Mile North
21	VT5000000082750	1/2 - 1 Mile WNW
22	VT5000000042942	1/2 - 1 Mile South
23	VT5000000082837	1/2 - 1 Mile East
E24	VT5000000008010	1/2 - 1 Mile North
25	VT5000000082792	1/2 - 1 Mile SSE
E26	VT5000000042996	1/2 - 1 Mile North
F27	VT5000000082781	1/2 - 1 Mile WNW
G28	VT5000000009594	1/2 - 1 Mile NNW
G29	VT5000000009595	1/2 - 1 Mile NNW
30	VT5000000082811	1/2 - 1 Mile NW
31	VT5000000042923	1/2 - 1 Mile ESE
F32	VT5000000082782	1/2 - 1 Mile WNW
H33	VT5000000031446	1/2 - 1 Mile NNW
I34	VT5000000082829	1/2 - 1 Mile North
H35	VT5000000022280	1/2 - 1 Mile NNW
I36	VT5000000026074	1/2 - 1 Mile North
37	VT5000000050595	1/2 - 1 Mile North
38	VT5000000042975	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 5259976.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location

N

SITE NAME:	60 Village Green	CLIENT:	Weston & Sampson Engineers,Inc
ADDRESS:	60 Village Green Proctorsville VT 05153	CONTACT:	Nathan Shaffer
		INQUIRY #:	5259976.2s
LAT/LONG:	43.38177 / 72.638167	DATE:	April 16, 2018 11:38 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NW
0 - 1/8 Mile
Higher | **FRDS PWS** | **VT0001059**

Epa region:	01	State:	VT
Pwsid:	VT0001059		
Pwsname:	SISTERS SNACK BAR		
City served:	Not Reported	State served:	VT
Zip served:	Not Reported	Fips county:	50027
Status:	Closed	Pop srvd:	40
Pwssvcconn:	1	Source:	Groundwater
Pws type:	TNCWS	Owner:	unknown
Contact:	Not Reported		
Contactor gname:	Not Reported		
Contact phone:	Not Reported	Contact address1:	Not Reported
Contact address2:	Not Reported	Contact city:	CAVENDISH
Contact state:	VT	Contact zip:	051530000
Activity code:	I		

Location Information:

Name:	SISTERS SNACK BAR		
Pwstypcd:	TNCWS	Primsrccd:	GW
Popserved:	40		
Add1:	Not Reported		
Add2:	Not Reported		
City:	CAVENDISH	State:	VT
Zip:	051530000	Phone:	Not Reported
Cityserv:	Not Reported	Cntyserv:	Not Reported
Stateserv:	VT	Zipserv:	Not Reported

PWS ID: VT0001059
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: SISTERS SNACK BAR
PROCTORSVILLE, VT 05153

Addressee / Facility: Not Reported

Facility Latitude: 43 22 55 Facility Longitude: 072 38 20
City Served: Not Reported
Treatment Class: Untreated Population: 00000040

Violations information not reported.

2
West
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40001195638**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-432252072383901		
Monloc name:	VT-CFW 11WELL 2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.3811838
Longitude:	-72.6437056	Sourcemap scale:	Not Reported

Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A3
NE
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000020318**

Fid:	20317	Objectid:	146741
Town:	Cavendish	Wellreport:	27032
Tag:	27032	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Robert Frost		
Owners first:	Not Reported	Owners last:	Cavendish Town
Date complete:	28-AUG-03	Date receive:	17-OCT-03
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	400	Yield gpm:	2.5
Static water:	1	Overburden:	15
Casing length:	20	Casing diam:	6
Casing le 1:	18.5	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Public
Well reason:	Test or exploration	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	test well # 2-3		
Unique gisn:	CF27032		
Location de:	E911 Address		
Welltype:	Bedrock	Casingle 2:	1.5
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	92712
Longdd:	-72.634516333		
Latdd:	43.385299666		
Site id:	VT5000000020318		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

4
ESE
1/4 - 1/2 Mile
Higher | **VT WELLS** | **VT5000000052067**

Fid:	52066	Objectid:	178490
Town:	Cavendish	Wellreport:	40268
Tag:	40268	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	David Parker		
Owners first:	Bill	Owners last:	Delong
Date complete:	03-OCT-07	Date receive:	10-OCT-07
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	325	Yield gpm:	10
Static water:	60	Overburden:	7
Casing length:	20	Casing diam:	6
Casing le 1:	18.5	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Not Reported
Well reason:	Not Reported	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF40268		
Location de:	Not Reported		
Welltype:	Bedrock	Casingle 2:	1.5
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	2	Wellrepo 1:	104190
Longdd:	-72.632527111		
Latdd:	43.379193777		
Site id:	VT5000000052067		

A5
NE
1/4 - 1/2 Mile
Lower | **VT WELLS** | **VT5000000001124**

Fid:	1123	Objectid:	127547
Town:	Cavendish	Wellreport:	17024
Tag:	73	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Tom	Owners last:	Barr
Date complete:	30-JUN-99	Date receive:	12-JAN-01
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	325	Yield gpm:	5

Static water:	0	Overburden:	10
Casing length:	20	Casing diam:	6
Casing le 1:	18	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF17024		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	83465
Longdd:	-72.633280972		
Latdd:	43.385496361		
Site id:	VT5000000001124		

6
West
1/4 - 1/2 Mile
Higher

FED USGS **USGS40001195639**

Org. Identifier:	USGS-NH		
Formal name:	USGS New Hampshire Water Science Center		
Monloc Identifier:	USGS-432255072384501		
Monloc name:	VT-CFW 12WELL 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	43.3820171
Longitude:	-72.6453723	Sourcemap scale:	Not Reported
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
East
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000082756**

Fid:	82755	Objectid:	186429
Town:	Cavendish	Wellreport:	60
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Raymond Leonard		
Owners first:	RICHARD	Owners last:	KIDSON
Date complete:	26-APR-76	Date receive:	18-JUN-76
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	175	Yield gpm:	3
Static water:	0	Overburden:	14
Casing length:	21	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Other
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	METHOD OF SEALING CASING: COUPLING.		
Unique gisn:	CF60		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10001
Longdd:	-72.630687694		
Latdd:	43.381449305		
Site id:	VT5000000082756		

8
WSW
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000082757**

Fid:	82756	Objectid:	186430
Town:	Cavendish	Wellreport:	61
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Larry Cushing		
Owners first:	MERRITT	Owners last:	SHELDON
Date complete:	15-JUL-76	Date receive:	14-SEP-76
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	310	Yield gpm:	20

Static water:	0	Overburden:	48
Casing length:	58	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	DRIVE SHOE-10 FT. IN BEDROCK.		
Unique gisn:	CF61		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10002
Longdd:	-72.645528027		
Latdd:	43.379464333		
Site id:	VT5000000082757		

9
NE
1/4 - 1/2 Mile
Lower

VT WELLS **VT5000000082824**

Fid:	82823	Objectid:	186497
Town:	Cavendish	Wellreport:	218
Tag:	31	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	JOE	Owners last:	FARRUGIA
Date complete:	20-MAY-94	Date receive:	25-JUL-94
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	305	Yield gpm:	20
Static water:	15	Overburden:	40
Casing length:	53	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF218		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0

Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10159
Longdd:	-72.631777666		
Latdd:	43.385976333		
Site id:	VT5000000082824		

B10
SSE
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000043007**

Fid:	43006	Objectid:	169430
Town:	Cavendish	Wellreport:	2885
Tag:	270	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jay Wragg		
Owners first:	RODNEY	Owners last:	WOODELL
Date complete:	29-JAN-97	Date receive:	04-JUN-97
Purchaser first:	SAME	Purchaser last:	Not Reported
Welldepth:	225	Yield gpm:	5
Static water:	20	Overburden:	4
Casing length:	20	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Bailed	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	.		
Unique gisn:	CF2885		
Location de:	E911 Address		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10181
Longdd:	-72.634083		
Latdd:	43.376099333		
Site id:	VT5000000043007		

B11
SE
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000042916**

Fid:	42915	Objectid:	169339
Town:	Cavendish	Wellreport:	70
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Lloyd Moyer		
Owners first:	J.L.	Owners last:	HODGEMAN
Date complete:	27-JUL-78	Date receive:	17-AUG-78
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	173	Yield gpm:	30
Static water:	0	Overburden:	6
Casing length:	21	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	Y
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF70		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10011
Longdd:	-72.632836		
Latdd:	43.376329333		
Site id:	VT5000000042916		

C12
NE
1/4 - 1/2 Mile
Higher

VT WELLS **VT5000000025128**

Fid:	25127	Objectid:	151551
Town:	Cavendish	Wellreport:	15365
Tag:	15365	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Tom	Owners last:	Barr
Date complete:	09-AUG-00	Date receive:	01-MAR-01
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	205	Yield gpm:	8
Static water:	25	Overburden:	70
Casing length:	80	Casing diam:	6
Casing le 1:	78	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0

Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF15365		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	2	Wellrepo 1:	84240
Longdd:	-72.630391027		
Latdd:	43.385693		
Site id:	VT5000000025128		

C13
NE
1/2 - 1 Mile
Higher

VT WELLS **VT5000000000811**

Fid:	810	Objectid:	127234
Town:	Cavendish	Wellreport:	17009
Tag:	17	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Joel	Owners last:	Farrugia
Date complete:	29-MAR-99	Date receive:	12-JAN-01
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	345	Yield gpm:	20
Static water:	30	Overburden:	10
Casing length:	33	Casing diam:	6
Casing le 1:	31	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Type III Portland Cement
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Shoe & grout bottom
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF17009		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	82775
Longdd:	-72.629831027		
Latdd:	43.385888		
Site id:	VT5000000000811		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

14
West
1/2 - 1 Mile
Higher | **VT WELLS** | **VT5000000009154**

Fid:	9153	Objectid:	135577
Town:	Cavendish	Wellreport:	26180
Tag:	26180	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jeffrey Cushing		
Owners first:	Cyr Wood Builders	Owners last:	Not Reported
Date complete:	11-MAY-04	Date receive:	02-JUL-04
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	200	Yield gpm:	15
Static water:	0	Overburden:	17
Casing length:	30	Casing diam:	6
Casing le 1:	28	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	static water level not measured		
Unique gisn:	CF26180		
Location de:	E911 Address		
Welltype:	Bedrock	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	94535
Longdd:	-72.649066333		
Latdd:	43.381599333		
Site id:	VT5000000009154		

15
East
1/2 - 1 Mile
Higher | **VT WELLS** | **VT5000000053493**

Fid:	53492	Objectid:	179916
Town:	Cavendish	Wellreport:	40896
Tag:	40896	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jeffrey Cushing		
Owners first:	David & Darlene	Owners last:	Darrar
Date complete:	08-APR-96	Date receive:	14-SEP-09
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	0	Yield gpm:	2.5

Static water:	40	Overburden:	137
Casing length:	150	Casing diam:	6
Casing le 1:	148	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Provide additional supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF40896		
Location de:	Not Reported		
Welltype:	Bedrock	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	107252
Longdd:	-72.626943777		
Latdd:	43.382499333		
Site id:	VT5000000053493		

16
SSW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082753**

Fid:	82752	Objectid:	186426
Town:	Cavendish	Wellreport:	40
Tag:	Not Reported	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Calvin Rabtoy		
Owners first:	LLOYD	Owners last:	STILLWELL
Date complete:	04-OCT-73	Date receive:	08-NOV-73
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	145	Yield gpm:	0
Static water:	14	Overburden:	78
Casing length:	84	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Not Reported
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	YIELD TEST: 3 GPM AT 135 FT. WATER LEVEL DURING YIELD TEST: 145 FT.		
Unique gisn:	CF40		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0

Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	9981
Longdd:	-72.640926333		
Latdd:	43.373366		
Site id:	VT5000000082753		

17
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000020319**

Fid:	20318	Objectid:	146742
Town:	Cavendish	Wellreport:	27033
Tag:	27033	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Robert Frost		
Owners first:	Not Reported	Owners last:	Cavendish Town
Date complete:	29-AUG-03	Date receive:	17-OCT-03
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	400	Yield gpm:	5
Static water:	20	Overburden:	8
Casing length:	20	Casing diam:	6
Casing le 1:	18.5	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Industrial
Well reason:	Test or exploration	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Test Well #2-2		
Unique gisn:	CF27033		
Location de:	Welldriller/Clarion		
Welltype:	Bedrock	Casingle 2:	1.5
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	92713
Longdd:	-72.636139666		
Latdd:	43.390309666		
Site id:	VT5000000020319		

D18
SSE
1/2 - 1 Mile
Higher

VT WELLS **VT5000000023037**

Fid:	23036	Objectid:	149460
Town:	Cavendish	Wellreport:	11005
Tag:	11005	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Richard Stromberg		
Owners first:	Michael	Owners last:	Ceravale
Date complete:	24-AUG-99	Date receive:	16-NOV-99
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	200	Yield gpm:	15
Static water:	17	Overburden:	30
Casing length:	40	Casing diam:	6
Casing le 1:	38	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Clay/Seal Bentonite
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Grout bottom only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF11005		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	78009
Longdd:	-72.633369694		
Latdd:	43.373572666		
Site id:	VT5000000023037		

D19
SSE
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082809**

Fid:	82808	Objectid:	186482
Town:	Cavendish	Wellreport:	189
Tag:	82	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Gary	Owners last:	Brothers
Date complete:	26-AUG-92	Date receive:	14-SEP-92
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	145	Yield gpm:	20
Static water:	6	Overburden:	3
Casing length:	23	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0

Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF189		
Location de:	E911 Address		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10130
Longdd:	-72.633949666		
Latdd:	43.373399333		
Site id:	VT5000000082809		

20
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000026140**

Fid:	26139	Objectid:	152563
Town:	Cavendish	Wellreport:	19911
Tag:	19911	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Larry & Claire	Owners last:	Miloscia
Date complete:	07-NOV-01	Date receive:	30-NOV-01
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	505	Yield gpm:	1
Static water:	82	Overburden:	15
Casing length:	40	Casing diam:	6
Casing le 1:	38.5	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF19911		
Location de:	GPS location		
Welltype:	Not Reported	Casingle 2:	1.5
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	86232
Longdd:	-72.639199694		
Latdd:	43.390899666		
Site id:	VT5000000026140		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

21
WNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082750**

Fid:	82749	Objectid:	186423
Town:	Cavendish	Wellreport:	37
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Lloyd Moyer		
Owners first:	DONALD	Owners last:	GUY
Date complete:	25-JUL-73	Date receive:	24-OCT-73
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	97	Yield gpm:	7
Static water:	10	Overburden:	4
Casing length:	20	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF37		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	9978
Longdd:	-72.649052972		
Latdd:	43.386546333		
Site id:	VT5000000082750		

22
South
1/2 - 1 Mile
Higher

VT WELLS **VT5000000042942**

Fid:	42941	Objectid:	169365
Town:	Cavendish	Wellreport:	126
Tag:	Not Reported	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	JOHN	Owners last:	PETSCO
Date complete:	21-OCT-86	Date receive:	31-DEC-86
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	245	Yield gpm:	8

Static water:	16	Overburden:	15
Casing length:	20	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF126		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10067
Longdd:	-72.636874694		
Latdd:	43.371994333		
Site id:	VT5000000042942		

23
East
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082837**

Fid:	82836	Objectid:	186510
Town:	Cavendish	Wellreport:	4665
Tag:	84-G	Mapcell:	37C3
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Larry Cushing		
Owners first:	Darlton	Owners last:	Cenate & Sons Bldrs
Date complete:	13-OCT-97	Date receive:	05-NOV-97
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	800	Yield gpm:	.5
Static water:	0	Overburden:	96
Casing length:	150	Casing diam:	6
Casing le 1:	148	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF4665		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0

Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10188
Longdd:	-72.624482694		
Latdd:	43.382834333		
Site id:	VT5000000082837		

E24
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000008010**

Fid:	8009	Objectid:	134433
Town:	Cavendish	Wellreport:	27031
Tag:	27031	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Robert Frost		
Owners first:	Not Reported	Owners last:	Cavendish Town
Date complete:	26-AUG-03	Date receive:	17-OCT-03
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	600	Yield gpm:	1
Static water:	50	Overburden:	8
Casing length:	20	Casing diam:	6
Casing le 1:	18.2	Casing matl:	Steel
Casing weight:	19	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Public
Well reason:	Test or exploration	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	Y
Water analy:	N	Well screen:	N
Comments:	Test well #2-1		
Unique gisn:	CF27031		
Location de:	Welldriller/Clarion		
Welltype:	Bedrock	Casingle 2:	1.8
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	92714
Longdd:	-72.636109666		
Latdd:	43.391779666		
Site id:	VT5000000008010		

25
SSE
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082792**

Fid:	82791	Objectid:	186465
Town:	Cavendish	Wellreport:	144
Tag:	164-78-88	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Donald Allen		
Owners first:	William	Owners last:	Roy
Date complete:	12-SEP-88	Date receive:	12-OCT-88
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	100	Yield gpm:	30
Static water:	0	Overburden:	5
Casing length:	39	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, unfinished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF144		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10085
Longdd:	-72.632017666		
Latdd:	43.372589333		
Site id:	VT5000000082792		

E26
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000042996**

Fid:	42995	Objectid:	169419
Town:	Cavendish	Wellreport:	229
Tag:	55	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	RICHARD	Owners last:	STEVENS
Date complete:	21-JUL-95	Date receive:	28-AUG-95
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	265	Yield gpm:	5
Static water:	20	Overburden:	120
Casing length:	132	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0

Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF229		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10170
Longdd:	-72.636109666		
Latdd:	43.392074666		
Site id:	VT5000000042996		

F27
WNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082781**

Fid:	82780	Objectid:	186454
Town:	Cavendish	Wellreport:	119
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Donald Allen		
Owners first:	JOSEPH	Owners last:	CERNIGLIA SR
Date complete:	08-MAY-86	Date receive:	03-JUN-86
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	150	Yield gpm:	14
Static water:	0	Overburden:	86
Casing length:	86	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Replace existing supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, unfinished	Casing seal:	Shoe & grout bottom
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF119		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10060
Longdd:	-72.65202		
Latdd:	43.385361333		
Site id:	VT5000000082781		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G28
NNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000009594**

Fid:	9593	Objectid:	136017
Town:	Cavendish	Wellreport:	27234
Tag:	27234	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jay Wragg		
Owners first:	Not Reported	Owners last:	Timic Corp
Date complete:	21-APR-04	Date receive:	30-JUN-04
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	125	Yield gpm:	40
Static water:	20	Overburden:	6
Casing length:	20	Casing diam:	6
Casing le 1:	19.2	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Replace existing supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF27234		
Location de:	Welldriller/Clarion		
Welltype:	Bedrock	Casingle 2:	.8
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	95523
Longdd:	-72.641829666		
Latdd:	43.392219666		
Site id:	VT5000000009594		

G29
NNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000009595**

Fid:	9594	Objectid:	136018
Town:	Cavendish	Wellreport:	27233
Tag:	27233	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jay Wragg		
Owners first:	Not Reported	Owners last:	Twin State Management
Date complete:	21-APR-04	Date receive:	30-JUN-04
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	325	Yield gpm:	4.5

Static water:	10	Overburden:	5
Casing length:	20	Casing diam:	6
Casing le 1:	19.2	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF27233		
Location de:	Welldriller/Clarion		
Welltype:	Bedrock	Casingle 2:	.8
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	95524
Longdd:	-72.641829666		
Latdd:	43.392219666		
Site id:	VT5000000009595		

30
NW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082811**

Fid:	82810	Objectid:	186484
Town:	Cavendish	Wellreport:	191
Tag:	117	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Phillip Aylward		
Owners first:	Not Reported	Owners last:	Norton and sons
Date complete:	02-SEP-92	Date receive:	13-NOV-92
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	305	Yield gpm:	2
Static water:	0	Overburden:	30
Casing length:	40	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Tested yield: 2 gpm at 305 feet		
Unique gisn:	CF191		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0

Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10132
Longdd:	-72.650408361		
Latdd:	43.388513		
Site id:	VT5000000082811		

31
ESE **VT WELLS** **VT5000000042923**
1/2 - 1 Mile
Higher

Fid:	42922	Objectid:	169346
Town:	Cavendish	Wellreport:	80
Tag:	Not Reported	Mapcell:	37C3
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Stanley Lundin		
Owners first:	DONALD & SANDRA	Owners last:	GREEN
Date complete:	09-AUG-79	Date receive:	11-OCT-79
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	155	Yield gpm:	5
Static water:	20	Overburden:	35
Casing length:	41	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	YIELD TEST: 5 GPM AT 155 FT.		
Unique gisn:	CF80		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10021
Longdd:	-72.622855972		
Latdd:	43.378506		
Site id:	VT5000000042923		

F32
WNW **VT WELLS** **VT5000000082782**
1/2 - 1 Mile
Higher

Fid:	82781	Objectid:	186455
Town:	Cavendish	Wellreport:	120
Tag:	Not Reported	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Donald Allen		
Owners first:	REINO	Owners last:	KALINEN
Date complete:	03-APR-86	Date receive:	03-JUN-86
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	125	Yield gpm:	12
Static water:	0	Overburden:	69
Casing length:	70	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Not Reported	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, unfinished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF120		
Location de:	E911 Address		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10061
Longdd:	-72.6533		
Latdd:	43.385699666		
Site id:	VT5000000082782		

H33
NNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000031446**

Fid:	31445	Objectid:	157869
Town:	Cavendish	Wellreport:	36775
Tag:	36775	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	David Parker		
Owners first:	Barbara	Owners last:	Dickey
Date complete:	03-AUG-05	Date receive:	10-AUG-05
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	525	Yield gpm:	5
Static water:	80	Overburden:	4
Casing length:	20	Casing diam:	6
Casing le 1:	18	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0

Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF36775		
Location de:	GPS location		
Welltype:	Bedrock	Casingle 2:	2
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	2	Wellrepo 1:	98273
Longdd:	-72.641999666		
Latdd:	43.393499666		
Site id:	VT5000000031446		

I34
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000082829**

Fid:	82828	Objectid:	186502
Town:	Cavendish	Wellreport:	223
Tag:	118	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Jay Wragg		
Owners first:	ALAN	Owners last:	REGIER
Date complete:	07-SEP-94	Date receive:	14-MAR-95
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	185	Yield gpm:	20
Static water:	15	Overburden:	25
Casing length:	40	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	Replace existing supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF223		
Location de:	E911 Address		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10164
Longdd:	-72.639399666		
Latdd:	43.394299666		
Site id:	VT5000000082829		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H35
NNW
1/2 - 1 Mile
Higher

VT WELLS **VT5000000022280**

Fid:	22279	Objectid:	148703
Town:	Cavendish	Wellreport:	7739
Tag:	88	Mapcell:	37A9
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Not Reported	Owners last:	Vermont Quaries Corp
Date complete:	27-JUL-98	Date receive:	26-JAN-99
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	465	Yield gpm:	10
Static water:	20	Overburden:	10
Casing length:	27	Casing diam:	6
Casing le 1:	25	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF7739		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	75734
Longdd:	-72.641811361		
Latdd:	43.394438		
Site id:	VT5000000022280		

I36
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000026074**

Fid:	26073	Objectid:	152497
Town:	Cavendish	Wellreport:	17651
Tag:	17651	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	Gerald Parker		
Owners first:	Jonathon	Owners last:	Woodell
Date complete:	26-SEP-01	Date receive:	03-OCT-01
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	305	Yield gpm:	5

Static water:	19	Overburden:	21
Casing length:	33	Casing diam:	6
Casing le 1:	31.5	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF17651		
Location de:	GPS location		
Welltype:	bedrock	Casingle 2:	1.5
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	1	Wellrepo 1:	86109
Longdd:	-72.638599694		
Latdd:	43.394799666		
Site id:	VT5000000026074		

37
North
1/2 - 1 Mile
Higher

VT WELLS **VT5000000050595**

Fid:	50594	Objectid:	177018
Town:	Cavendish	Wellreport:	46370
Tag:	46370	Mapcell:	Not Reported
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	David Parker		
Owners first:	Peter	Owners last:	Jordan
Date complete:	21-FEB-07	Date receive:	27-FEB-07
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	305	Yield gpm:	20
Static water:	15	Overburden:	5
Casing length:	20	Casing diam:	6
Casing le 1:	18.5	Casing matl:	Steel
Casing weight:	17	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Not Reported
Casing finish:	Not Reported	Casing seal:	Drive shoe only
Yield testm:	Not Reported	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Not Reported		
Unique gisn:	CF46370		
Location de:	Not Reported		
Welltype:	Bedrock	Casingle 2:	1.5

Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	2	Wellrepo 1:	102672
Longdd:	-72.638833		
Latdd:	43.395999666		
Site id:	VT5000000050595		

38
SSE **VT WELLS** **VT5000000042975**
1/2 - 1 Mile
Higher

Fid:	42974	Objectid:	169398
Town:	Cavendish	Wellreport:	183
Tag:	16/23602	Mapcell:	37B7
Taxmap:	Not Reported	Subdivision:	Not Reported
Lotnumber:	Not Reported		
Driller lic:	H Allen Follett		
Owners first:	Mike & Pat	Owners last:	Ceravole & Lezulla
Date complete:	24-OCT-91	Date receive:	09-MAR-92
Purchaser first:	Not Reported	Purchaser last:	Not Reported
Welldepth:	200	Yield gpm:	12
Static water:	20	Overburden:	30
Casing length:	64	Casing diam:	6
Casing le 1:	0	Casing matl:	Not Reported
Casing weight:	0	Liner length:	0
Liner diameter:	0	Liner material:	Not Reported
Liner weight:	0	Grout type:	Not Reported
Diameterdr:	0	Depth drill:	0
Screen make:	Not Reported	Screen matl:	Not Reported
Screen length:	0	Screen diam:	0
Screen slot:	0	Depth of scr:	0
Gravel size:	Not Reported	Welluse code:	Domestic
Well reason:	New Supply	Drilling meth:	Rotary (AP)
Casing finish:	Above ground, finished	Casing seal:	Drive shoe only
Yield testm:	Compressed air	Well develo:	Not Reported
Not steelca:	N	Overflowin:	N
Water analy:	N	Well screen:	N
Comments:	Note: co-owner is Mike Ceravole		
Unique gisn:	CF183		
Location de:	screen digitized		
Welltype:	Not Reported	Casingle 2:	0
Depth to lin:	0	Hydrofract:	N
Hydrofra 1:	0	Sealtype:	Not Reported
Yieldtestt:	0	Wellrepo 1:	10124
Longdd:	-72.634166305		
Latdd:	43.367666		
Site id:	VT5000000042975		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: VT Radon

Radon Test Results

City	# Tests	Avg Result	Std Dev	Min	Max
ROCHESTER	84	3.1	2.1	0.3	11.0
ANDOVER	11	1.4	0.9	0.2	2.4
ATHENS	3	0.6	0.2	0.4	0.8
BALTIMORE	2	1.0	0.4	0.7	1.2
BARNARD	24	3.1	3.4	0.2	12.7
BETHEL	46	3.7	6.4	0.3	30.5
BRIDGEWATER	8	1.4	0.7	0.6	2.4
CAVENDISH	18	1.8	1.7	0.4	7.9
CHESTER	62	2.9	4.3	0.3	22.2
HARTFORD	124	2.1	3.0	0.1	25.7
HARTLAND	56	3.1	3.4	0.2	18.6
LUDLOW	61	2.5	2.8	0.3	18.9
NORWICH	82	1.8	1.5	0.2	6.9
PLYMOUTH	16	2.9	2.5	0.2	7.8
POMFRET	22	2.6	2.3	0.4	10.0
READING	12	2.5	2.2	0.4	8.5
ROYALTON	50	1.6	1.1	0.1	4.3
SHARON	33	1.6	1.3	0.2	6.2
SPRINGFIELD	117	1.6	1.9	0.1	10.0
STOCKBRIDGE	15	3.9	5.0	0.5	16.5
WEATHERSFIELD	42	2.0	3.9	0.0	19.7
WEST WINDSOR	16	1.7	1.5	0.5	7.1
WESTON	17	2.5	2.9	0.5	12.9
WINDSOR	38	2.9	5.6	0.2	33.8
WOODSTOCK	90	2.1	3.5	0.2	31.4

Federal EPA Radon Zone for WINDSOR County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 05153

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	5.200 pCi/L	0%	100%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: VT Center for Geographic Information
Telephone: 802-882-3001

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Vermont Public Drinking Water Sources
Source: ANR, Water Supply Division
Telephone: 802-241-3406

OTHER STATE DATABASE INFORMATION

RADON

State Database: VT Radon
Source: Department of Health
Telephone: 802-865-7200
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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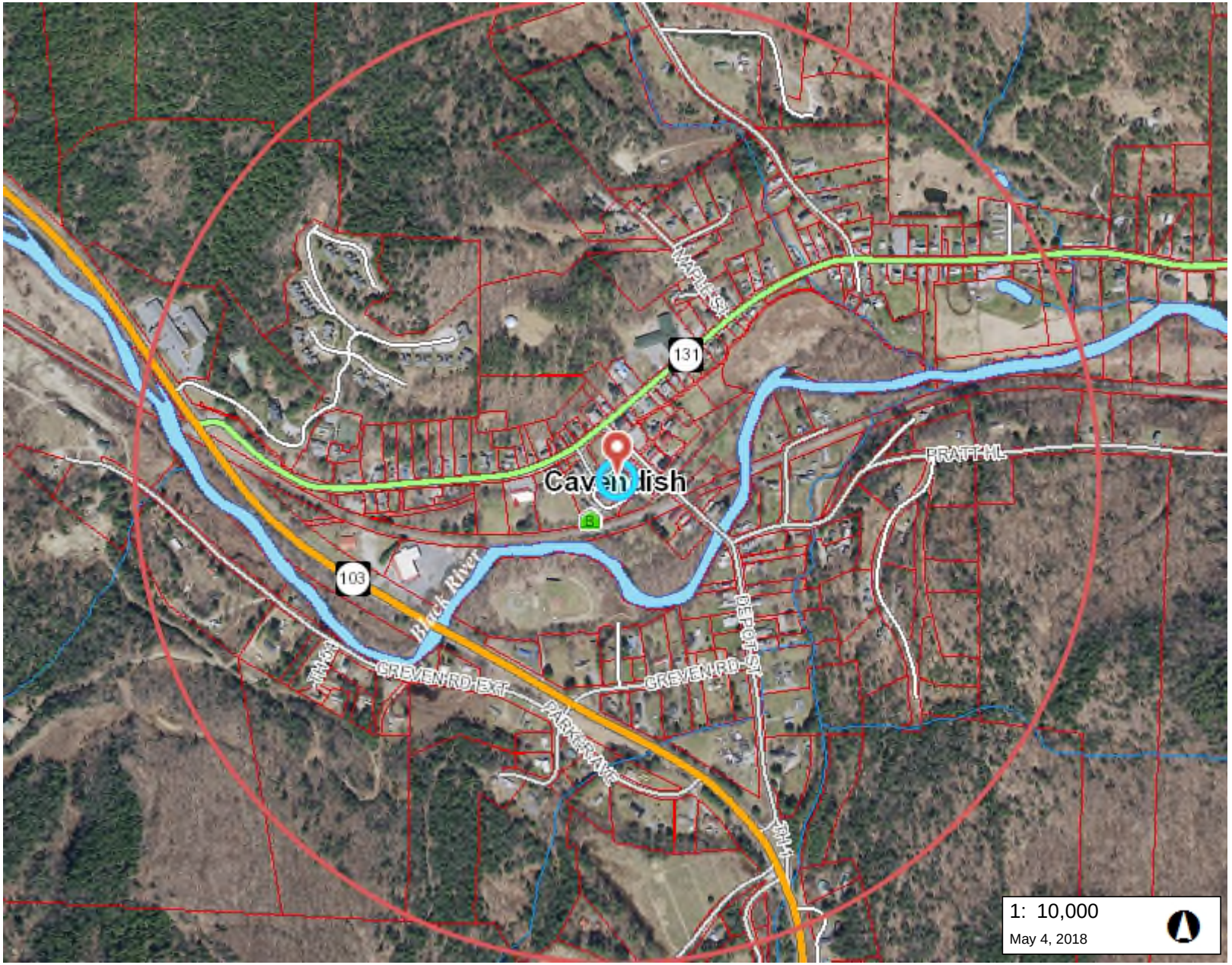
APPENDIX E

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov





LEGEND

- Landfills
  - OPERATING
  - CLOSED
- Brownfields
- Salvage Yard
- Parcels (Standardized)
- Roads
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  - Not part of function Classification S
- Waterbody
- Stream
- Parcels (Non-Standardized)
- Town Boundary

NOTES

Brownfields, Landfills, and Salvage Yards (0.5 Mile)

508.0 0 254.00 508.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 833 Ft. 1cm = 100 Meters

© Vermont Agency of Natural Resources

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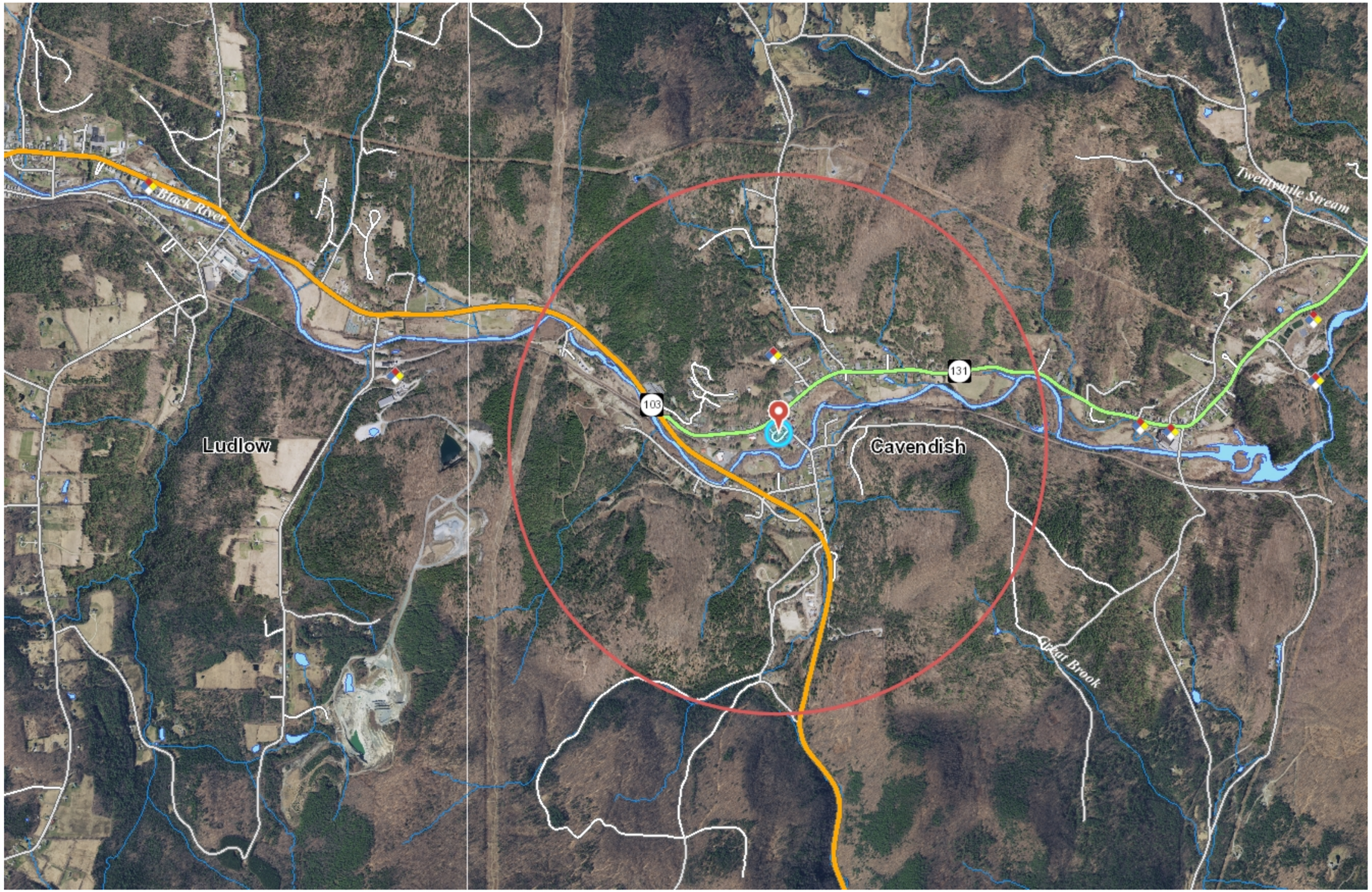
Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov





LEGEND

- Hazardous Waste Generators
- Roads
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  - Not part of function Classification System
- Waterbody
- Stream
- Town Boundary

1: 24,000

1in = 2000 ft.
1cm = 240 meters

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

NOTES

Hazardous Sites (1-Mile)

Natural Resources Atlas

Vermont Agency of Natural Resources

vermont.gov





LEGEND

- Aboveground Storage Tank
- Underground Storage Tank (w
- Parcels (Standardized)
- Roads
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  - Not part of function Classification S
- Waterbody
- Stream
- Parcels (Non-Standardized)
- Town Boundary

NOTES

Registered Storage Tanks (0.25 Mile)

508.0 0 254.00 508.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 833 Ft. 1cm = 100 Meters

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

APPENDIX F

60 Village Green

60 Village Green

Proctorsville, VT 05153

Inquiry Number: 5259976.4

April 16, 2018

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/16/18

Site Name:

60 Village Green
60 Village Green
Proctorsville, VT 05153
EDR Inquiry # 5259976.4

Client Name:

Weston & Sampson Engineers,Inc
P.O. Box 189
Waterbury, VT 05676
Contact: Nathan Shaffer

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Weston & Sampson Engineers,Inc were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: Outer Limits Brewing

Coordinates:

Latitude:	43.38177 43° 22' 54" North
Longitude:	-72.638167 -72° 38' 17" West
UTM Zone:	Zone 18 North
UTM X Meters:	691316.12
UTM Y Meters:	4805920.33
Elevation:	941.00' above sea level

Maps Provided:

2012
1997
1971, 1972
1932
1929
1928

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Topo Sheet Key

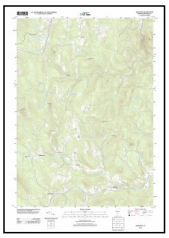
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



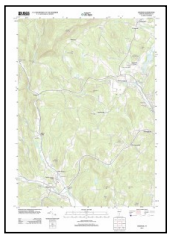
Ludlow

7.5-minute, 24000



Andover

7.5-minute, 24000



Chester

7.5-minute, 24000



Cavendish

7.5-minute, 24000

1997 Source Sheets



Ludlow

7.5-minute, 24000
Aerial Photo Revised 1997

1971, 1972 Source Sheets



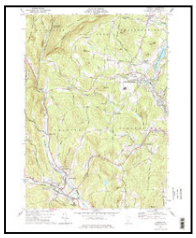
Ludlow

7.5-minute, 24000
Aerial Photo Revised 1971



Andover

7.5-minute, 24000
Aerial Photo Revised 1971



Chester

7.5-minute, 24000
Aerial Photo Revised 1971



Cavendish

7.5-minute, 24000
Aerial Photo Revised 1971

1932 Source Sheets



Ludlow

15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1929 Source Sheets



Ludlow

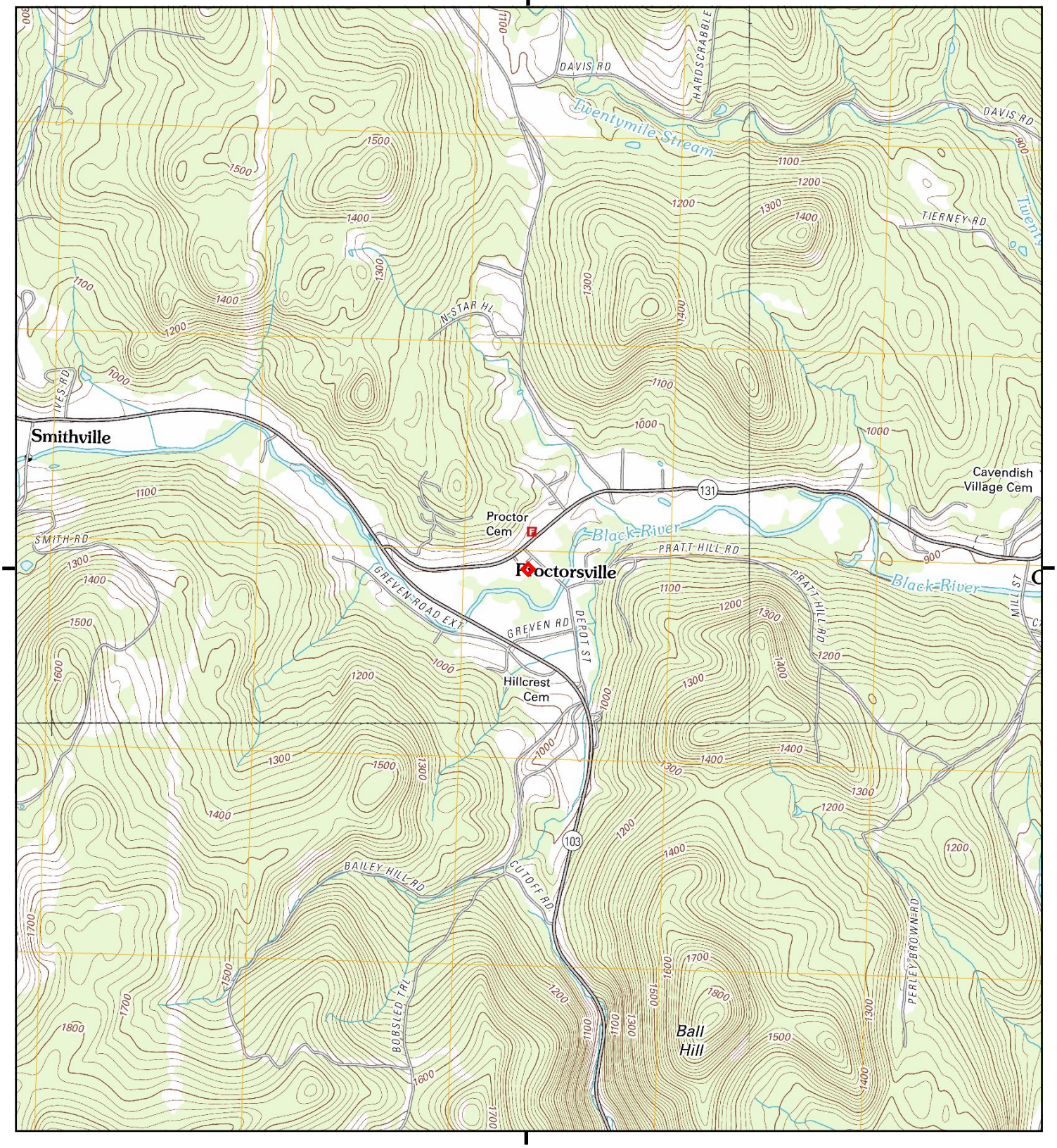
15-minute, 62500

1928 Source Sheets



Ludlow

15-minute, 48000



This report includes information from the following map sheet(s).

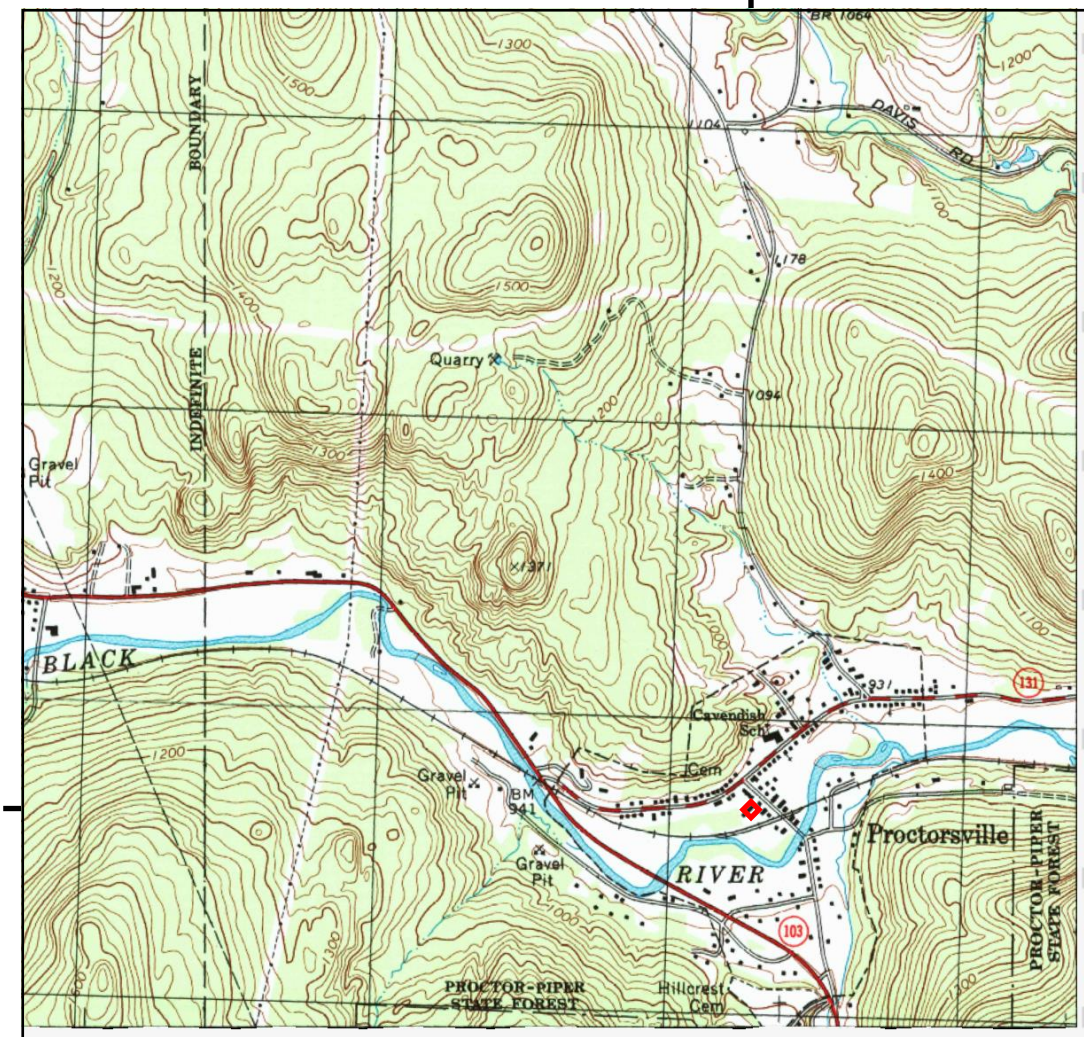
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 2012, 7.5-minute
NE, Cavendish, 2012, 7.5-minute
SE, Chester, 2012, 7.5-minute
SW, Andover, 2012, 7.5-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N



MAPPED UNMAPPED

This report includes information from the following map sheet(s).

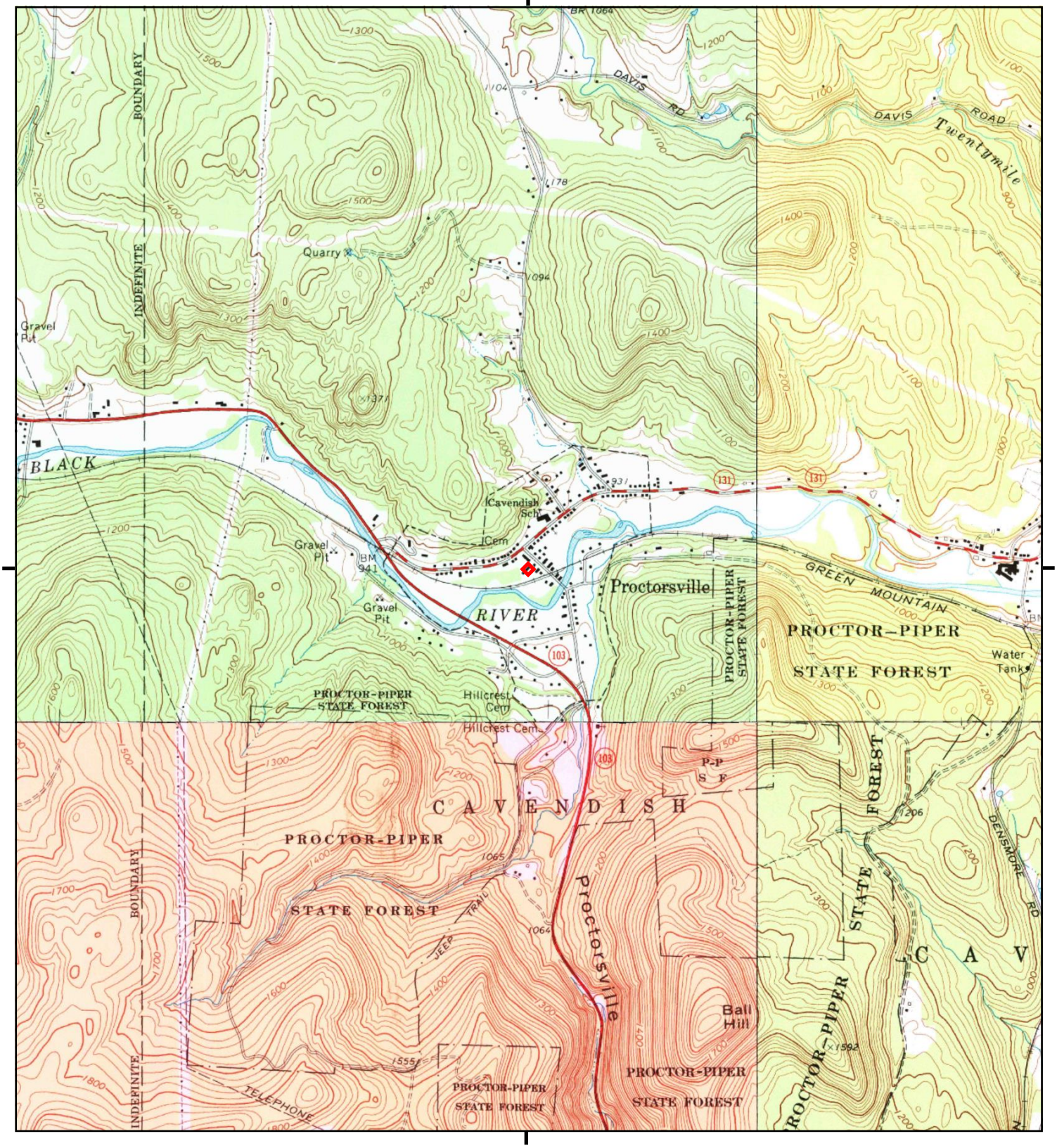
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 1997, 7.5-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N



This report includes information from the following map sheet(s).

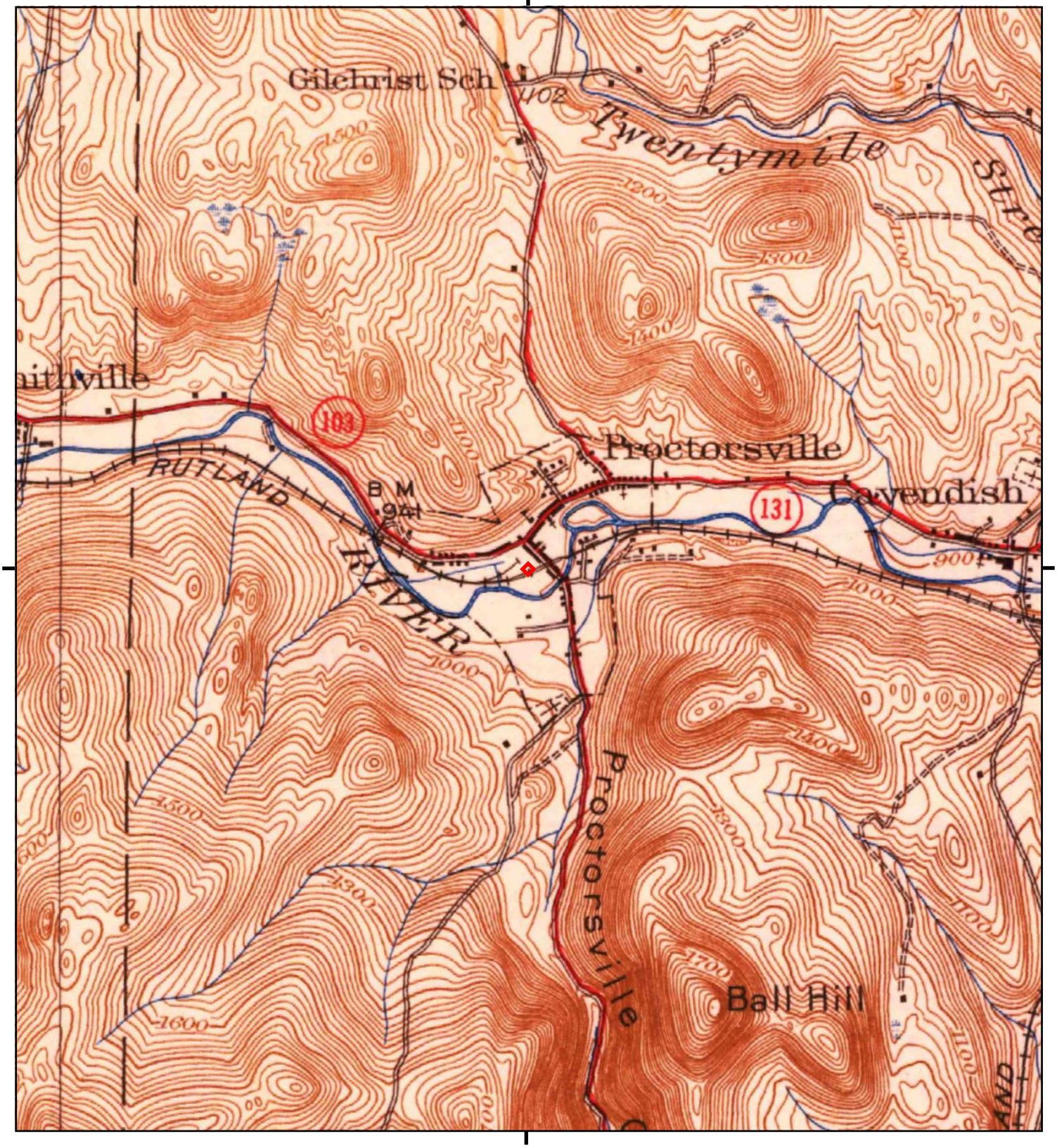
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 1971, 7.5-minute
NE, Cavendish, 1972, 7.5-minute
SE, Chester, 1972, 7.5-minute
SW, Andover, 1971, 7.5-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N



This report includes information from the following map sheet(s).

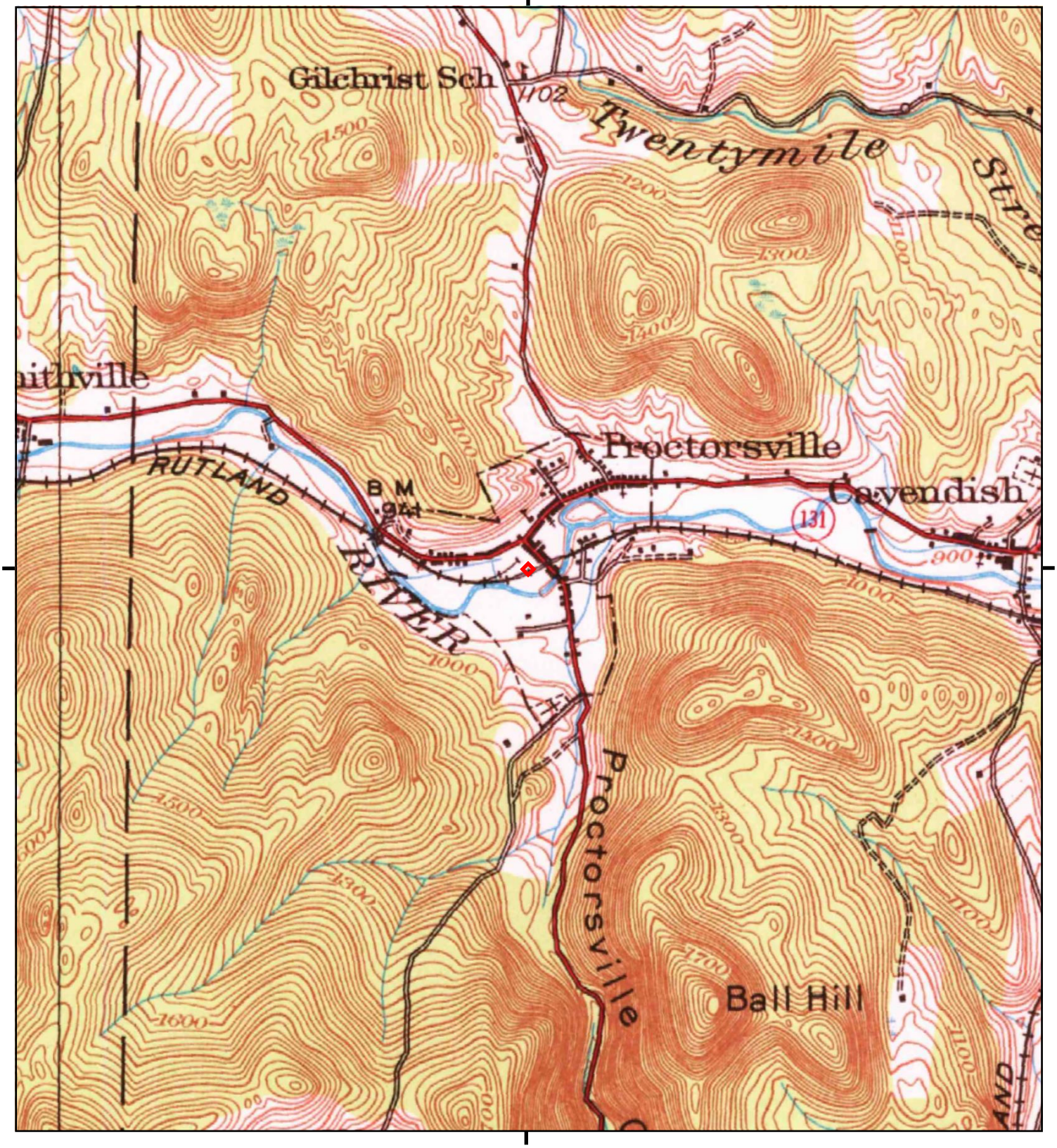
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 1932, 15-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N



This report includes information from the following map sheet(s).

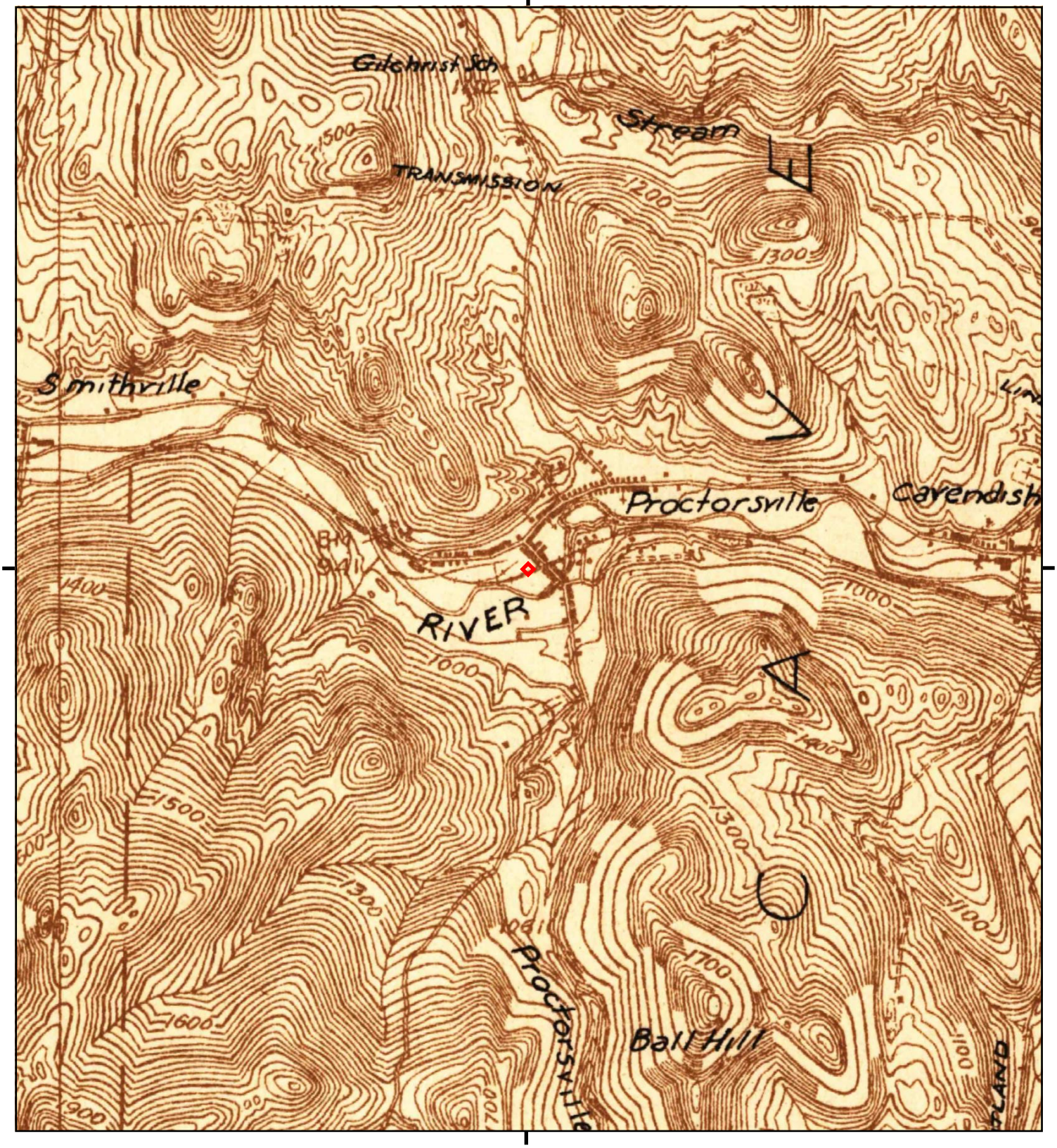
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 1929, 15-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ludlow, 1928, 15-minute

SITE NAME: 60 Village Green
ADDRESS: 60 Village Green
Proctorsville, VT 05153
CLIENT: Weston & Sampson Engineers,Inc

N

APPENDIX G

60 Village Green

60 Village Green

Proctorsville, VT 05153

Inquiry Number: 5259976.9

April 16, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/16/18

Site Name:

60 Village Green
60 Village Green
Proctorsville, VT 05153
EDR Inquiry # 5259976.9

Client Name:

Weston & Sampson Engineers,Inc
P.O. Box 189
Waterbury, VT 05676
Contact: Nathan Shaffer

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1994	1"=500'	Acquisition Date: May 03, 1994	USGS/DOQQ
1993	1"=750'	Flight Date: April 28, 1993	USGS
1987	1"=500'	Flight Date: May 13, 1987	USGS
1978	1"=500'	Flight Date: June 15, 1978	USGS
1975	1"=500'	Flight Date: November 01, 1975	USGS

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INQUIRY #: 5259976.9

YEAR: 2014

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 2011

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 2008

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 1994

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 1993

= 750'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5259976.9

YEAR: 1987

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 1978

= 500'

N

EDR



INQUIRY #: 5259976.9

YEAR: 1975

= 500'

N

EDR

APPENDIX H

60 Village Green
60 Village Green
Proctorsville, VT 05153

Inquiry Number: 5259976.5
April 16, 2018

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive

FINDINGS

TARGET PROPERTY STREET

60 Village Green
Proctorsville, VT 05153

Year	*CD Image*	*Source*
VILLAGE GRN		
2014	pg A2	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A6	EDR Digital Archive
2000	pg A8	EDR Digital Archive

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
DEPOT ST		
2014	pg. A1	EDR Digital Archive
2010	pg. A3	EDR Digital Archive
2005	pg. A5	EDR Digital Archive
2000	pg. A7	EDR Digital Archive

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

DEPOT ST 2014

7	CROWS CORNER BAKERY
	FIBER ARTS IN VERMONT
	PROCTORSVILLE GREEN HOUSING LP
15	DORTCH, ANN
51	KUVALANKA, DENNIS
55	ARDOLINO, ERIC
	MOORE, PATRICK
	PARCIAK, K
58	OCONNELL, G N
73	P R GIROUARD ENTERPRISES INC
88	BEAUMONT, SCOTT
89	GETHSEMANE EPISCOPAL CHURCH
95	MCNAMARA, ROGER A
129	KENNEY, LORI
198	GARVEY, JIM
207	KEMPF, LARRY
214	WEBSTER, NATE J
221	POTTER, ALETIA
247	CALDERARA, WILLIAM P
260	HOSZKIEWICZ, STANLEY
265	JAMES, CHARLES W
277	MANN, FRED
289	SAYLOR, CHRIS N
293	OCCUPANT UNKNOWN,
294	ROUNDS, BOB C
315	SMITH, ERICA
332	WARNER, CATHERINE
394	TYRRELL, BILLY V
	TYRRELLS ENTERPRISES LLC
399	GOLDEN STAGE INN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

VILLAGE GRN 2014

20	BALCH, STEVE E
	BEAN, ANITA L
	DEMOND, JEREMY J
	HARMEN, KENNETH P
	HITCHCOCK, NEIL
	TAMASI, JOE
42	OCCUPANT UNKNOWN,
70	BURNS, DOUG

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

DEPOT ST 2010

7	CROWS CORNER BAKERY
	SIX LOOSE LADIES
51	FERNANDEZ, FRANK
55	MOORE, PATRICK
58	OCONNELL, RICHARD T
73	P R GIROUARD ENTERPRISES INC
78	HARWOOD, MARK R
89	GETHSEMANE EPISCOPAL CHURCH
95	MCNAMARA, ROGER A
198	GARVEY, JIM
207	BOURGEOIS, JASON
214	WEBSTER, DONALD R
221	BOMHOWER, SANDRA L
231	FARMTOWN REALTY LLC
260	HOSZKIEWICZ, STANLEY
265	JAMES, CHARLES J
277	MARIN, FRED T
289	SAYLOR, CHRIS
293	OCCUPANT UNKNOWN,
294	ROUNDS, BOB C
332	DERRICO, J D
394	TYRRELL, BILLY V
	TYRRELLS ENTERPRISES LLC
399	GOLDEN STAGE INN
	GREGG HOSPITALITY ENTPS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

VILLAGE GRN 2010

20	BEAN, KARLA M
	HARMEN, KENNETH P
28	CARNEY, DAN
56	CARLING, GARY
70	BURNS, DOUG
71	CLARK, ALBERT A
88	HEIST, THOMAS

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

DEPOT ST 2005

1	CROWS CORNER BAKERY
13	WESTCOTT, PAUL J
51	KUVALANKA, DENNIS
55	MOORE, PATRICK
58	OCONNELL, RICHARD T
73	GIROUARDS TAEKWON-DO INC
	LEICESTER, BRIDGET
	P R GIROUARD ENTERPRISES INC
78	HARWOOD, MARK R
88	BEAUMONT, S
95	MCNAMARA, BRENDAN
207	BABYTOOTH TECHNOLOGIES LLC
	PHELPS, CHRISTOPHER A
214	WEBSTER, VERONICA J
231	FARMTOWN REALTY LLC
	GAFFIGAN, JIM
	TRI MOUNTAIN MORTGAGE
236	LAWRENCE, ROBERT G
247	CALDERARA, WILLIAM
260	HOSZKIEWICZ, STANLEY
265	JAMES, CHARLES
	VERMONT APPLE PIE
277	MARIN, FRED T
289	OCCUPANT UNKNOWN,
294	ROUNDS, BOB C
332	VEYSEY, RICHARD J
394	TYRRELL, BILLY V
	TYRRELLS ENTERPRISES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

VILLAGE GRN 2005

20	BEAN, KARLA M
	CARLSON, PAUL E
	DECONCINI, L
	HARMEN, KENNETH
	MERITHEW, DIANE
	TARNOWSKI, L
	TASSINARI, L
28	CARNEY, DAN
42	NORDMONT HOSE & RUBBER CO INC
	OCCUPANT UNKNOWN,
43	TWIBELL, BRIAN
56	CARLING, GARY
70	LABELLA, FRANK
88	JENSEN, RICK

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

DEPOT ST 2000

1	CROWS CORNER BAKERY
58	OCONNELL, RICHARD T
88	DEATON, ARDATH
207	NOWAK, RANDY
214	WEBSTER, DONALD
236	LAWRENCE, ROBERT
247	SHELDON, ANDREW
260	HOSZKIEWICZ, STANLEY
265	JAMES, CHARLES
277	JAMES, T
289	KARL, JOE
294	ROUNDS, BOB
332	VEYSEY, RICK
394	TYRRELL ENTERPRISES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

VILLAGE GRN 2000

20	HEYNIG, R
	MCINTYRE, EDNA
60	SANTORE, DAVID

APPENDIX I

60 Village Green

60 Village Green

Proctorsville, VT 05153

Inquiry Number: 5259976.3

April 16, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

04/16/18

Site Name:

60 Village Green
60 Village Green
Proctorsville, VT 05153
EDR Inquiry # 5259976.3

Client Name:

Weston & Sampson Engineers,Inc
P.O. Box 189
Waterbury, VT 05676
Contact: Nathan Shaffer

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Certified Sanborn Results:

Certification # 0420-4AD1-8AB9

PO # NA

Project Outer Limits Brewing

Maps Provided:

1914

Sanborn® Library search results

Certification #: 0420-4AD1-8AB9

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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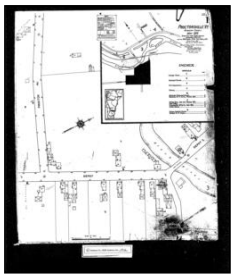
Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1914 Source Sheets



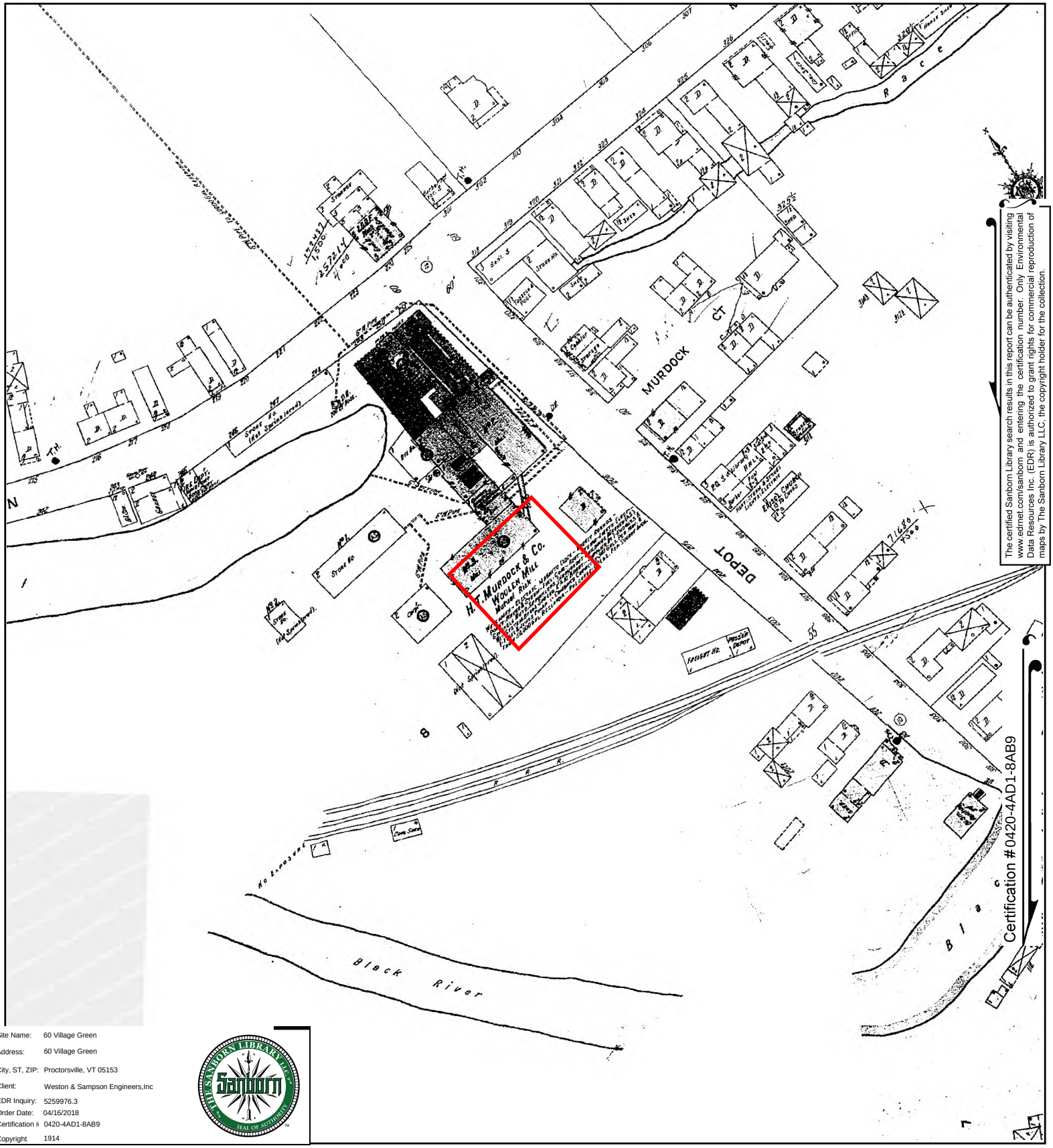
Volume 1, Sheet Keymap/Sheet1



Volume 1, Sheet 2



Volume 1, Sheet 3



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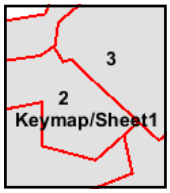
Site Name: 60 Village Green
Address: 60 Village Green
City, ST, ZIP: Proctorsville, VT 05153
Client: Weston & Sampson Engineers,Inc
EDR Inquiry: 5259976.3
Order Date: 04/16/2018
Certification #: 0420-4AD1-8AB9
Copyright: 1914

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600





Volume 1, Sheet 3
Volume 1, Sheet 2
Volume 1, Sheet Keymap/Sheet1

N

APPENDIX J

60 Village Green
60 Village Green
Proctorsville, VT 05153

Inquiry Number: 5259976.2s
May 1, 2018

EDR Vapor Encroachment Screen

Prepared using EDR's Vapor Encroachment Worksheet

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Primary Map	**2**
Secondary Map	**3**
Map Findings	**4**
Record Sources and Currency	**GR-1**

Thank you for your business.
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by EDR. The report was designed to assist parties seeking to meet the search requirements of the ASTM Standard Practice for Assessment of Vapor Encroachment into Structures on Property Involved in Real Estate Transactions (E 2600).

STANDARD ENVIRONMENTAL RECORDS	Default Area of Concern (Miles)*	property	1/10	> 1/10
Federal NPL site list	1.0	0	0	0
Federal Delisted NPL site list	1.0	0	0	0
Federal CERCLIS list	0.5	0	0	0
Federal CERCLIS NFRAP site list	0.5	0	0	0
Federal RCRA CORRACTS facilities list	1.0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list	0.5	0	0	0
Federal RCRA generators list	0.25	0	0	0
Federal institutional controls / engineering controls registries	0.5	0	0	0
Federal ERNS list	property	0	-	-
State- and tribal - equivalent NPL	not searched	-	-	-
State- and tribal - equivalent CERCLIS	1.0	0	2	0
State and tribal landfill and/or solid waste disposal site lists	0.5	0	0	0
State and tribal leaking storage tank lists	0.5	0	1	0
State and tribal registered storage tank lists	0.25	0	0	0
State and tribal institutional control / engineering control registries	0.5	0	0	0
State and tribal voluntary cleanup sites	0.5	0	0	0
State and tribal Brownfields sites	0.5	0	1	0

ADDITIONAL ENVIRONMENTAL RECORDS				
Local Brownfield lists	0.5	0	1	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	0	0	0
Local Lists of Hazardous waste / Contaminated Sites	property	0	-	-
Local Lists of Registered Storage Tanks	not searched	-	-	-
Local Land Records	property	0	-	-
Records of Emergency Release Reports	property	0	-	-
Other Ascertainable Records	1.0	0	1	0

EDR HIGH RISK HISTORICAL RECORDS				
EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

EDR Exclusive Records	1.0	0	0	0
Exclusive Recovered Govt. Archives	property	0	-	-

*The Default Area of Concern may be adjusted by the environmental professional using experience and professional judgement. Each category may include several databases, and each database may have a different distance. A list of individual databases is provided at the back of this report.

EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

60 VILLAGE GREEN
60 VILLAGE GREEN
PROCTORSVILLE, VT 05153

COORDINATES

Latitude (North):	43.38177 - 43° 22′ 54.375916″
Longitude (West):	72.638167 - 72° 38′ 17.406006″
Elevation:	941 ft. above sea level

EXECUTIVE SUMMARY

SEARCH RESULTS

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
CAVENDISH VILLAGE SITE SHWS: SHWS BROWNFIELDS: BROWNFIELDS	ROUTE 131	<1/10 SW	▲ A2	8
FORMER COTA & COTA PROCTORSVILLE BULK FA SHWS: SHWS LUST: LUST	428 MAIN STREET	<1/10 NW	▲ A3	9

ADDITIONAL ENVIRONMENTAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
PROCTORSVILLE VILLAGE PROPERTY US BROWNFIELDS: US BROWNFIELDS FINDS: FINDS	VILLAGE GREEN ROAD	<1/10 WSW	▲ A1	8

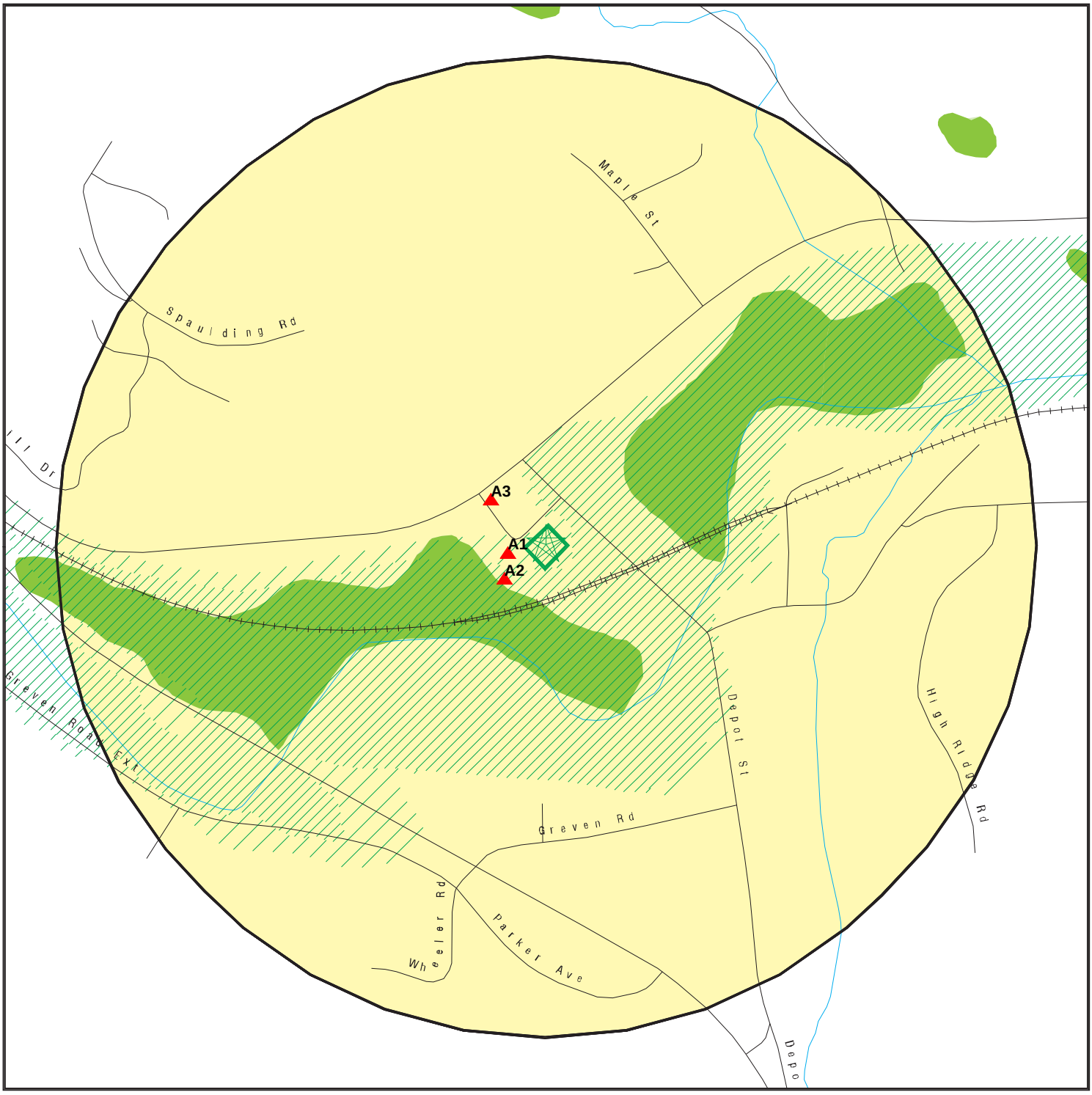
EDR HIGH RISK HISTORICAL RECORDS

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

EDR RECOVERED GOVERNMENT ARCHIVES

Name	Address	Dist/Dir	Map ID	Page
Not Reported				

PRIMARY MAP - 5259976.2S



0 300 1/3 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 60 Village Green ADDRESS: 60 Village Green Proctorsville VT 05153 LAT/LONG: 43.38177 / 72.638167	CLIENT: Weston & Sampson Engineers,Inc CONTACT: Nathan Shaffer INQUIRY #: 5259976.2s DATE: April 16, 2018 11:37 am

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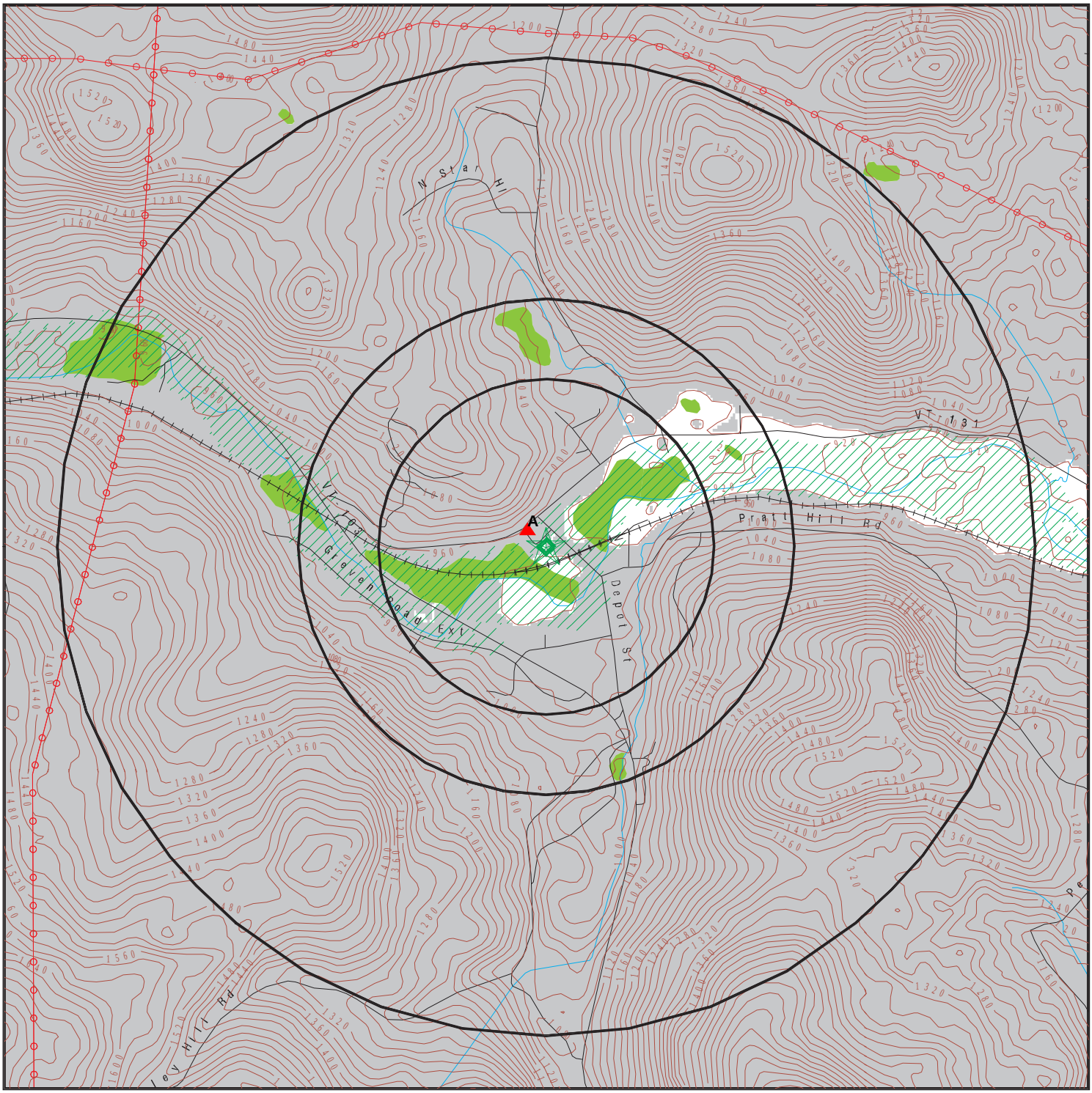
SECONDARY MAP - 5259976.2S



0 1/3 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 60 Village Green ADDRESS: 60 Village Green Proctorsville VT 05153 LAT/LONG: 43.38177 / 72.638167	CLIENT: Weston & Sampson Engineers,Inc CONTACT: Nathan Shaffer INQUIRY #: 5259976.2s DATE: April 16, 2018 11:37 am

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MAP FINDINGS

LEGEND

FACILITY NAME **FACILITY ADDRESS, CITY, ST, ZIP**		EDR SITE ID NUMBER
◆ **MAP ID#**	Direction Distance Range (Distance feet / miles) Relative Elevation Feet Above Sea Level	ASTM 2600 Record Sources found in this report. Each database searched has been assigned to one or more categories. For detailed information about categorization, see the section of the report Records Searched and Currency.

Worksheet:

Comments:
Comments may be added on the online Vapor Encroachment Worksheet.

DATABASE ACRONYM: Applicable categories (A hoverbox with database description).

PROCTORSVILLE VILLAGE PROPERTY VILLAGE GREEN ROAD, CAVENDISH, VT, 05153			1016348944
▲ A1	WSW <1/10	(71 ft. / 0.013 mi.)	Local Brownfield lists Other Ascertainable Records
	2 ft. Higher Elevation	943 ft. Above Sea Level	

Worksheet:

Comments: Did not include in report because listing was for an assessment grant which cross-listed with the adjacent listing Cavendish Village Site (2006356) which is discussed in report.

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Topographically: YES

Preferential Pathway:

Utility corridor: YES

CAVENDISH VILLAGE SITE ROUTE 131, CAVENDISH, VT,			S108114031
▲ A2	SW <1/10	(142 ft. / 0.027 mi.)	State- and tribal - equivalent CERCLIS State and tribal Brownfields sites
	1 ft. Higher Elevation	942 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: Based on the types of SVOCs detected in soil groundwater, it is Weston & Sampson's opinion that a VEC does not exist.

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Topographically: YES

FORMER COTA & COTA PROCTORSVILLE BULK FA 428 MAIN STREET, CAVENDISH, VT,			S107176111
▲ A3	NW <1/10	(215 ft. / 0.041 mi.)	State- and tribal - equivalent CERCLIS State and tribal leaking storage tank lists
	12 ft. Higher Elevation	953 ft. Above Sea Level	

Worksheet:

Impact on Target Property: VEC does not exist

Comments: Chemicals of concern are not likely to be present at this source. Previous Spill was reported when a 10,000 gallon Kerosene UST and 20,000 gallon fuel oil UST removed in May 1997. ISI conducted in April 1998; three MWs installed. Former UST area well contained multiple petroleum VOCs in excess of VGES. Subsequent sampling in June 2011 and February 2012 revealed residual TPH in groundwater in all three monitoring points, but no VOCs in excess of lab MDLs. MWs closed August 2012, notice to the Town of Cavendish Land Records filed September 2012.

Conditions:

Not Applicable: YES

Groundwater Flow Gradient:

Upgradient or Indeterminate: YES

Topographically: YES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
ENVIRONMENTAL RECORDS						
Federal NPL site list						
US	NPL	National Priority List	EPA	12/11/2017	12/22/2017	01/05/2018
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/11/2017	12/22/2017	01/05/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
Federal CERCLIS list						
US	SEMS	Superfund Enterprise Management System	EPA	01/09/2018	02/06/2018	04/13/2018
Federal RCRA CORRACTS facilities list						
US	CORRACTS	Corrective Action Report	EPA	12/11/2017	12/26/2017	02/09/2018
Federal RCRA TSD facilities list						
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
Federal RCRA generators list						
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
Federal institutional controls / engineering controls registries						
US	LUCIS	Land Use Control Information System	Department of the Navy	05/22/2017	06/13/2017	09/15/2017
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	11/13/2017	11/27/2017	02/09/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	11/13/2017	11/27/2017	02/09/2018
Federal ERNS list						
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	01/16/2018	01/19/2018	03/23/2018
State and tribal - equivalent CERCLIS						
VT	SHWS	Sites Database	Department of Environmental Conservation	08/11/2017	08/11/2017	10/04/2017
State and tribal landfill / solid waste disposal						
VT	SWF/LF	Landfills and Transfer Stations	Department of Environmental Conservation	09/17/2017	09/19/2017	10/04/2017
State and tribal leaking storage tank lists						
VT	LAST	Sites Database	Department of Environmental Conservation	08/11/2017	08/11/2017	10/04/2017
VT	LUST	Sites Database	Department of Environmental Conservation	08/11/2017	08/11/2017	10/04/2017
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/30/2017	01/23/2018	04/13/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	01/06/2018	01/23/2018	04/13/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
State and tribal registered storage tank lists						
VT	UST	State of Vermont Underground Storage Tank Database	Department of Environmental Conservation	02/06/2018	02/08/2018	03/26/2018
VT	AST	Above Ground Storage Tanks	Department of Public Safety	08/17/2017	08/22/2017	10/04/2017
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	12/08/2017
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/13/2018	01/23/2018	04/13/2018
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/30/2017	01/23/2018	04/13/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
State and tribal institutional control / engineering control registries						
VT	ENG CONTROLS	Engineering Controls Site Listing	Department of Environmental Conservation	08/11/2017	08/11/2017	10/04/2017
VT	INST CONTROL	Institutional Control Sites Listing	Department of Environmental Conservation	08/11/2017	08/11/2017	10/04/2017
State and tribal voluntary cleanup sites						
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
State and tribal Brownfields sites						
VT	BROWNFIELDS	Brownfields Site LIst	Department of Environmental Conservation	02/21/2018	02/22/2018	03/26/2018
Other Records						
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2017	01/24/2018	04/13/2018
US	ROD	Records Of Decision	EPA	12/11/2017	12/22/2017	01/12/2018
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	12/11/2017	12/22/2017	01/12/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/09/2018	02/06/2018	03/02/2018
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	12/23/2016	12/27/2016	02/17/2017
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/19/2018	01/24/2018	02/09/2018
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	01/11/2018	01/19/2018	03/02/2018
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	Delisted NPL	National Priority List Deletions	EPA	12/11/2017	12/22/2017	01/05/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/09/2018	02/06/2018	04/13/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	01/19/2018	01/19/2018	03/23/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	01/09/2018	01/24/2018	02/09/2018
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	01/19/2018	01/19/2018	02/09/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	10/29/2017	11/28/2017	01/12/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/03/2018	01/04/2018	04/13/2018
US	FINDS	Facility Index System/Facility Registry System	EPA	02/21/2018	02/23/2018	03/23/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2017	11/17/2017	12/08/2017
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	PWS	Public Water System Data	EPA	12/17/2013	01/09/2014	10/15/2014
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
VT	AIRS	Permitted AIRS Facility Listing	Department of Environmental Conservation	11/27/2017	12/26/2017	02/13/2018
VT	ASBESTOS	Asbestos Notification Listing	Department of Health	03/09/2018	03/13/2018	03/26/2018
VT	DRYCLEANERS	Drycleaner Facilities List	Department of Environmental Conservation	02/06/2018	02/08/2018	03/26/2018
VT	Financial Assurance	Financial Assurance Information Listing	Department of Environmental Conservation	06/30/2009	09/14/2009	09/30/2009
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	01/12/2018	01/19/2018	02/13/2018
VT	NPDES	Inventory of NPDES Permits	Department of Environmental Conservation	01/17/2018	01/18/2018	02/13/2018
VT	SPILLS	Sites Database	Department of Environmental Conservation	02/21/2018	02/22/2018	03/26/2018
VT	SPILLS 80	SPILLS80 data from FirstSearch	FirstSearch	04/19/2000	01/03/2013	03/07/2013
VT	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	11/05/2012	01/03/2013	03/07/2013
VT	TIER 2	Tier 2 Data Listing	Department of Public Safety	12/31/2011	05/09/2012	06/11/2012
VT	UIC	Underground Injection Wells Listing	Department of Environmental Conservation	10/30/2017	11/27/2017	01/08/2018
VT	VAPOR	Vapor Intrusion	Agency of Natural Resources	09/05/2017	09/08/2017	01/24/2018
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	01/04/2018	01/19/2018	04/13/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2017	12/21/2017	03/23/2018
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2016	10/31/2017	01/12/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/13/2018	01/19/2018	03/02/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/20/2018	02/21/2018	03/23/2018
HISTORICAL USE RECORDS						
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
VT	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Environmental Conservation		07/01/2013	01/08/2014
VT	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Conservation		07/01/2013	01/17/2014
VT	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Conservation		07/01/2013	01/04/2014

STREET AND ADDRESS INFORMATION

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APPENDIX K

Dufresne-Henry, Inc.
A DVI Company
Precision Park ◊ North Springfield, Vermont 05150-0029 ◊ Tel.: 802 / 886 / 2261 ◊ Fax: 802 / 886 / 2260

October 24, 1995

Mr. Richard F. Svec
Town Manager
Cavendish, Vermont 05142

Re: Markowitz Property
Limited Environmental Assessment

Dear Mr. Svec:

Enclosed is a copy of our Limited Environmental Assessment of the subject property in Proctorsville.

As noted in the report, we have not yet received the results for the one sample that was submitted for lab analyses. We expect those results within the next 10 days.

We have also attempted to contact several other individuals to fill in some of the apparent gaps in the site history between the reel manufacturing and the speaker assembly operation.

We will advise you if either the lab results or the additional historical research result in findings that would alter the conclusions of the report.

Including the laboratory analysis, we expect that the total cost of our effort will be in the range of $1,200 to $1,500.

Very truly yours,

DUFRESNE-HENRY, INC.

F. David Deane, P.E.
Environmental Services Division

FDD/dim

Enclosure

CAV1024.WP

LIMITED ENVIRONMENTAL SITE ASSESSMENT
WILLIAM MARKOWITZ PROPERTY
CAVENDISH, VERMONT

Purpose and Introduction

The purpose of an Environmental Site Assessment (ESA) is to determine, within certain limitations and constraints, the likelihood of the existence or threat of environmental conditions which could impact the current or future use and value of a particular property. This ESA was performed for the Town of Cavendish based on a verbal request by Town Manager, Richard F. Svec.

The subject of this limited ESA is a former industrial and retail property in the Village of Proctorsville, located on the southwesterly corner of the intersection of Depot Street and Vermont Route 131. The property consists of two, connected, two story mill buildings, a one story "office" building and a brick chimney that was associated with the former main mill building which burned in 1982. The Town supplied the attached sketch of the 2.23 acre parcel. The sketch is apparently based on a fire insurance map (date unknown) to which more recent information has been added.

Site History

The purpose of compiling a site history is to determine past uses of a property and surrounding properties. The site history can provide areas for specific focus during the site walkover. The goal is to develop a description dating back at least forty years or to the point where the area was undeveloped or in agricultural use. Also, practices which may be suspected of using or disposing of materials that may have had an environmental impact on the site may be identified.

Based on time constraints and the general knowledge of the history of this property, no detailed investigation of ownership, or review of governmental files was undertaken as

a part of this limited ESA. Knowledge of the historical use of the property is incomplete. A brief history of the mill operation from 1836 to 1938 has been prepared by Barbara Kingsbury, based on several historical documents. With the exception of a few years when economic difficulties forced it to shut down, the facility apparently operated as a textile producing woolen mill over that hundred year period. A copy of that document, supplied by the Town, is attached. It is noted that during the November 1927 flood, 400 tons of coal were washed away.

Historical photographs, as well as the Proctorsville entry in the "Atlas of Windsor Co., Vermont" by F.W. Beers, show a mill pond that extended from the westerly side of the mill several hundred feet to the west, parallel with Main Street. It is our understanding that the pond and canal were filled in with debris following the 1982 fire.

Following the woolen operation, the mill was reportedly occupied by Proctor Reel and the Shook Company from 1941 until 1953. Proctor Reel manufactured wooden utility cable spools. The line of work of the Shook Company is not known. The facility may have remained vacant for many years.

The last business to occupy the facility, prior to a devastating fire in 1982, was a loudspeaker assembly operation. Based on the recollection of Joe Farrugia, who worked at the facility, there was no use of potentially hazardous or regulated materials in the operation. Speaker and cabinet components were delivered to the facility in bulk and assembled. There was no finishing done on site which involved paints, stains or solvents. Mr. Farrugia did recall that there were two large boilers used for heat, but did not recall any fuel storage tank(s).

Mr. Andy Blaise, a long time Cavendish resident, recalled that following the 1982 fire, he removed a 10,000 gallon fuel oil tank from the property. A test pit was excavated at the reported former tank location, indicated as TP1 on the attached sketch. Apparently,

after the fire, the remains of the main mill building were bulldozed into the foundation, and graded off flat as the site remains today.

The limited historical research, albeit incomplete, did not disclose any specific information to indicate the potential for adverse environmental conditions at the subject property. However, because of the number of unknowns, and the presence of fuel oil tanks on the subject property and on adjacent properties, it was recommended that a series of test pits be excavated to gain a better understanding of subsurface conditions.

Site Walkover

A brief walkover of the Markowitz property was performed on October 13, 1995 by F. David Deane, P.E. of the Dufresne-Henry Environmental Services Division. Mr. Richard Svec, Cavendish Town Manager, accompanied. A representative of the owner provided access to the No. 3 Mill. The office building was not entered. All of the rooms in the No. 3 Mill were observed. No attempt was made to take an inventory of the contents.

The building is of timber frame construction. The first floor of the easterly section of the building was the retail area of Wild Bill's Country Discount. This area is still occupied by a wide range of merchandise ranging from clothing to video tapes. No material of concern to this assessment was identified in the retail area.

Access to the second floor is gained by wooden stairs at the south end of the building. The second floor area is a "warehouse" area for the former retail operation. There are also remains of components associated with the speaker assembly operation. The only item of possible concern to this assessment was a 55 gallon drum, tipped on its side, with a spigot in it. It is suspected that this may be left over glue from the speaker operation. No attempt was made to verify the drum contents.

The westerly section of the building is reached by a connecting walkway between the second floors. Both the upper and lower levels of the westerly section served as additional

warehouse area. There is a large amount of stock still present. Nothing of specific concern to this assessment was observed in this section of the building.

A brief walkover of the exterior portions of the property was also performed. The property is bounded by Main Street, with residential and commercial properties, to the north; Depot Street, with more residential and commercial properties to the east; residential properties and the railroad right-of-way to the south, and vacant land and commercial property to the west.

The only neighbor identified as a potential concern is the Cota & Cota bulk fuel facility which sits between the northwest edge of the property and Main Street. There are at least two underground fuel oil storage tanks at this facility, and there were reportedly above ground tanks in the past. It is our understanding that the Cota & Cota parcel will, in the future, be incorporated into the subject property, following removal of the tanks, and a demonstration that the property is not significantly contaminated.

There were no specific surficial conditions of concern noted during the brief site walkover. Several hundred yards of soil were piled in the northwest corner of the property. The source of the soil was the local school and it was placed at its present location at the direction of Mr. Svec. The remnants of the former railroad spur to the mill could be seen near the former office building. There was some apparent roofing tar that had been spilled in this general area. The concrete slab which occupies the space between Mill No. 3 on the south and the office building and chimney on the north, was observed to have several covered holes in it. These appeared to possibly be related to a former drainage system.

Test Pit Excavation

The limited and incomplete historical information, and the lack of surficial features indicated that limited subsurface investigations were warranted. A series of 7 shallow test pits were excavated with the Town backhoe on October 18, 1995, under the observation of

Bruce H. Cox, P.E. a Dufresne-Henry geologist. Mr. Andy Blaise assisted in the selection of appropriate test pit locations, which are indicated on the attached sketch. Test pit logs for each location are also attached.

Samples from various depths were screened for the presence of volatile organic compounds with a Photovac HL-2000 photoionization detector (PID) with a 10.6 eV lamp calibrated with isobutylene. The visual character and odor of each sample is also noted in the logs.

The apparent water table was encountered at a depth of 11' to 12' in those locations where the hole could be excavated that far. Caving of the hole limited the depth of excavation at several locations. The pit dug within the former mill footprint only extended to about 5.5'.

Only the sample obtained from the bottom of TP 2, excavated in or near the former canal/pond, exhibited a positive PID reading. At 1.5 ppm, that reading is quite low, but coupled with a slight oil like odor, it prompted a recommendation to have the sample analyzed for the presence of volatile organics and petroleum hydrocarbons. The results of these analyses have not been received as of this writing.

Conclusions

A limited walkover and subsurface investigation of the Markowitz property in Proctorsville, Vermont did not specifically identify significant environmental concerns. The property has been occupied by various types of industry for over 150 years. The longest tenure was by a woolen mill which occupied the property for over 100 years.

The primary structure on the property burned in 1982. The remains were bulldozed into the foundation, and apparently into the former mill pond and canal. A 10,000 gallon fuel oil tank was also removed.

Based on the limited historical information disclosed, long term industrial use and former underground fuel oil tank, it was recommended that test pits be excavated to observe subsurface conditions. A series of 7 test pits were excavated, revealing the water table at about 11' to 12' and a variety of soil types, much of which appeared to be fill.

One sample, from the former canal/pond area, gave a positive PID reading and had a slight oil odor. This sample has been submitted for laboratory analyses. Results have not been received at the time of this writing.

Based on the limited investigation at this site, we conclude that unless unexpectedly high levels of contaminants are revealed in the laboratory analyses, that further investigations are not warranted at this site at this time. We do recommend that care be taken during any future excavations at the site to observe for possible contamination at locations that were not covered by the limited work performed for this assessment.

Limitations

This report represents the observations of the subject property with regard to the presence of environmental problems. The services completed were based upon the time and budgetary constraints imposed by the client.

The preparation of this report was based in part on information provided by state and local officials, and other individuals associated with and/or familiar with the site. Much of this information has not, or cannot be verified. Information contained within this report was usually corroborated by another source, or is contained within regulatory files available to the public.

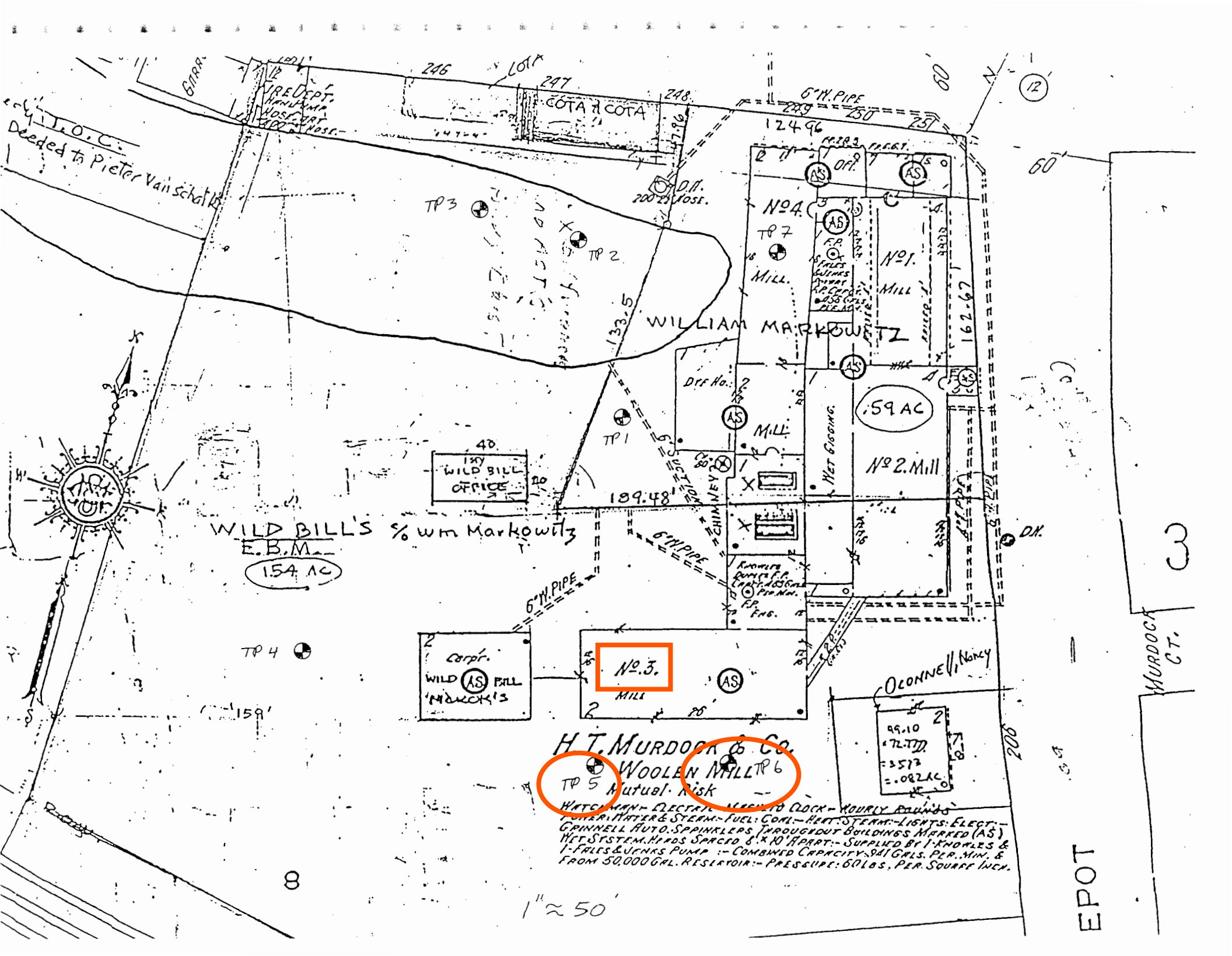
Observations made on the subject property were based on the condition at the time of the assessment, and the date(s) that Dufresne-Henry personnel were on the site. Where

access could not be gained to portions of the site, no judgement, opinion or characterization is implied as to that portion of the property.

It is beyond the scope of this report to offer judgements or opinions regarding the presence of asbestos, radon, or PCB's. This assessment is not intended to conform to the criteria of a "RCRA" or "CERCLA" audit. This assessment is not intended to offer opinion or judgement regarding worker health and safety, or code conformance of applicable codes and regulations regarding the operation of a facility or its structures.

This report does not offer any opinion to the quality of title for this property, nor does it make any attempt to verify the boundaries of this property, on record, or in the field. This report does not offer any opinions to the value or marketability of the property.

This report was commissioned by the Town of Cavendish, Vermont and is intended for its sole use. The contents and/or information contained within this report shall not be disseminated or conveyed in whole or in part without the written consent of Dufresne-Henry, Inc. Dufresne-Henry does acknowledge and agree that the report in whole may be conveyed to the property owner of record, lender(s), and/or title insurer for their exclusive use.


246
247
248
COTA & COTA
6" W. PIPE
12496
FIRE DEPT.
HAND HOSE CART
1000 GAL.
147'-4"
O.H.
200 FT. HOSE.
TP 3
TP 2
TP 1
TP 4
TP 5
TP 6
TP 7
No 4.
No 1.
No 2. Mill
No 3.
Mill
Off.
Dry Ho.
WILLIAM MARKOWITZ
133.5
162.62
.59 AC
WET DIGGING
CHIMNEY
189.48'
6" SUCTION
6" W. PIPE
40.
WILD BILL OFFICE
WILD BILL'S c/o wm Markowitz
E.B.M.
1.54 AC
159'
Corpr.
WILD BILL MARKOWITZ'S
H. T. MURDOCK & CO.
WOOLEN MILL
Mutual Risk
O'CONNELL, NANCY
99.10
72.7
.3573
.082 AC.
208'
MURDOCK CT.
EPOT
WATCHMAN - ELECTRIC
TIME CLOCK - HOURLY ROUNDS
POWER: WATER & STEAM - FUEL: COAL - HEAT: STEAM - LIGHTS: ELECT. -
GRINNELL AUTO. SPRINKLERS THROUGHOUT BUILDINGS MARKED (AS)
WET SYSTEM. HEADS SPACED 8'x10' APART: - SUPPLIED BY 1-KNOWLES &
1-FAIRES & JENKS PUMP :- COMBINED CAPACITY 941 GALS. PER. MIN. &
FROM 50,000 GAL. RESERVOIR :- PRESSURE: 60 LBS. PER SQUARE INCH.
8
1" ≈ 50'

Proctorsville Woolen Mill

I found the following information in the The History of Windsor County, Vermont, edited by Lewis C. Aldrich and Frank R. Holmes, Syracuse, NY, 1891, p. 515; the 1899 Souvenir Edition of the Vermont Tribune, and Chubb Hill Farm and Cavendish, Vermont, Kingsbury.

In 1836, Jabez Proctor was instrumental in forming a stock company called the Proctorsville Woolen Mill. That year, the company built a 75 x 42 foot brick mill and employed 35 workers. In 1842, the property was sold to William Smith, Addison Smith, Abel Gilson, and Sardine Gilson. In 1844 the mill was burned and immediately rebuilt.

In 1848, William Smith became sole proprietor. George L. Balcolm became associated with Mr. Smith in 1850 and the firm became Smith and Balcolm and so continued until 1856 when Mr. Balcolm purchased a mill in Claremont, New Hampshire and disposed of his interest in the Proctorsville Mill to his partner. For the next three years the business was carried on by Mr. Smith who then disposed of the property to Alanson Tucker & Co. of Boston, who leased it to George L. Balcolm. He operated it until 1864, in which year a stock company known as Proctorsville Mills purchased the plant and carried on business for 3 years. The property was again leased to Mr. Balcolm, who continued to run the mill until 1876 except for a break when the mill went bankrupt in 1873 in the Panic of 1873-74. Work was resumed but the mill was idle for a year in 1876-1877. In 1877, the property was purchased by Wm. Hayward and L. H. Taft of Uxbridge, Massachusetts and A. S. Burbank of Proctorsville and the mill was then known as the Crescent Mill. A.S. Burbank was bookkeeper at the mill from 1856-1863; superintendent from 1863-1888; and part-owner in the 1880's.

The mill owners enlarged their operations in 1880 by buying a chair factory one mile west of Proctorsville and converting it into a shoddy and flock factory. In 1886, Herbert T. Murdock bought into the firm of Haywood, Taft, and Burbank. By 1890, he had complete control of the Proctorsville Mill which then became known as Murdock Mill. That year, a large brick addition of four stories was built and the machinery increased to twelve sets of cards and sixty broad looms. 175 people were employed there. The 1899 Souvenir Edition of the Vermont Tribune stated that the mill ranked second in the state. The mill still depended on a pair of horizontal water wheels for power, but used two steam engines as an auxiliary source.

Herbert T. Murdock died in 1916, but the mill continued as Murdock Mill under his wife's ownership. This mill and Gay Brothers in Cavendish village operated night and day throughout the First World War, lit by electricity. Several different owners and managers ran the mill throughout the 1920s and 30s. Known as the Proctor Woolen Mill in 1927, the finishing room was under water and 400 tons of coal were washed away in the flood of November, 1927. Even before the stock market crash of October, 1929, the mill was in financial difficulties.

It was sold to a Mr. Pike of Hanover, New Hampshire, in February, 1929 for a fraction of its true value.

In 1932, the mill in Proctorsville had become the Black Bear Woolen Mill. Employees there joined mill workers across the state in strikes. On September 9, 1934, the County Sheriff deputized ninety men to carry clubs, which effectively forestalled a demonstration of striking workers. On March 6, 1936, most of the mill workers did not report for work as the mill owner (Gordon Brown at that time) refused to confer with their union. Fourteen union leaders were fired and later, the entire work force of nearly 200 was dismissed. They returned on April 2 after the owner did agree to consultations. On November 11, 1937, the management, without giving any reasons, announced that the mill was closed. The mill never produced textiles again. On December 31, 1938, the Village of Proctorsville bought the mill building for $1,000 plus $800 back taxes from Aaron Krock. All the machinery and equipment was sold to other bidders.

Proctor Reel and Shook Company moved into the building in July, 1941 and carried on business there for several years.

Barbara Kingsbury

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS

LOCATION: CAVENDISH, VT

CLIENT: TOWN OF CAVENDISH, VT

CONTRACTOR: TOWN OF CAVENDISH OPERATOR:

EQUIPMENT: JD 410

CAPACITY/REACH:

WEATHER: SUNNY, 50'S

PERFORMED BY: B. COX DATE: OCTOBER 18, 1995

CHECKED BY: DATE:

PAGE 1 OF 1

TEST PIT NO. TP-1

LOCATION: FORMER 10,000 GALLON UST

EL.

DATUM

PROJECT NO.

TIME STARTED

TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT		REMARK NO.
					QTY	CLASS	
.25			Medium - dark brown, sandy, silty, ORGANIC SOIL.	E			
10			Medium brown, silty SAND fill. Fine - medium grained, well sorted sand. 10% - 20% non plastic fines. At 4'± is a 3"± layer of ashes. Dry. No odor or staining. <.5 ppm.	E			
11			MISCELLANEOUS FILL. Bricks, ashes, cinders, wood, cobbles, etc. Slight anaerobic organic odor. Saturated. <.5 ppm.	E			
			No refusal to depth, limit of excavator.				

REMARKS: ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS	PAGE 1 OF 1
LOCATION: CAVENDISH, VT	TEST PIT NO. TP-2
CLIENT: TOWN OF CAVENDISH, VT	LOCATION: DOWNSTREAM END OF FORMER CANAL
CONTRACTOR: TOWN OF CAVENDISH OPERATOR:	
EQUIPMENT: JD 410	EL.
CAPACITY/REACH:	DATUM
WEATHER: SUNNY, 50'S	PROJECT NO.
PERFORMED BY: B. COX DATE: OCTOBER 18, 1995	TIME STARTED
CHECKED BY: DATE:	TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT QTY	BOULDER COUNT CLASS	REMARK NO.
.25			Medium - dark brown, sandy, silty, ORGANIC SOIL.	E			
12			MISCELLANEOUS FILL. Silt, sand, gravel, bricks, metal, ashes, cinders, fabric, tree limbs, lumber, etc. Wet, but no seepage at bottom. Slight garbage-like odor, and an-aerobic organic odor. Slight oil-like(?) odor near bottom. 1.5± ppm.	E			
			No refusal to depth, limit of excavator.				

REMARKS: Soil samples for VOC's and TPH collected; composite of bottom 5'±.
ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS

LOCATION: CAVENDISH, VT

CLIENT: TOWN OF CAVENDISH, VT

CONTRACTOR: TOWN OF CAVENDISH OPERATOR:

EQUIPMENT: JD 410

CAPACITY/REACH:

WEATHER: SUNNY, 50'S

PERFORMED BY: B. COX DATE: OCTOBER 18, 1995

CHECKED BY: DATE:

PAGE 1 OF 1

TEST PIT NO. TP-3

LOCATION: DOWNGRADIENT OF COTA & COTA

EL.

DATUM

PROJECT NO.

TIME STARTED

TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT		REMARK NO.
					QTY	CLASS	
.33			Medium - dark brown, sandy, silty, ORGANIC SOIL. Just under the surface was a small amount of white and blue weathered road salt(?) and an automotive transmission.	E			
7			MISCELLANEOUS FILL. Wood, plastic, glass, pipes and other metal debris, 35 gallon metal drum, etc. Sand and gravel. Slight garbage-like odor, no staining. <1.0 ppm.	E			
11			Medium bluish gray, sandy SILT with some organics (roots). Organic odor. Wet - saturated. <1.0 ppm, majority <.5 ppm	E			
			No refusal to depth, limit of excavator.				

REMARKS: ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS	PAGE 1 OF 1
LOCATION: CAVENDISH, VT	TEST PIT NO. TP-4
CLIENT: TOWN OF CAVENDISH, VT	LOCATION: WEST OF WILD BILLS
CONTRACTOR: TOWN OF CAVENDISH OPERATOR:	
EQUIPMENT: JD 410	EL.
CAPACITY/REACH:	DATUM
WEATHER: SUNNY, 50'S	PROJECT NO.
PERFORMED BY: B. COX DATE: OCTOBER 18, 1995	TIME STARTED
CHECKED BY: DATE:	TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT QTY	BOULDER COUNT CLASS	REMARK NO.
.25			Medium - dark brown, sandy, silty, ORGANIC SOIL.	E			
.42			ASH and CINDERS.	E			
4			Medium brown, silty SAND. Fine - medium grained, moderately well sorted sand. 10% - 20% non plastic fines. Dry. No odor or staining. 0 ppm.	E			
5			Medium brown, sandy, fine GRAVEL. Fine - occasionally coarse grained, poorly sorted sand. 20%± non plastic fines 60%+ fine gravel to 3/4". Very prominent, continuous, dark red mottles at 4'6". Dry. No odor or staining. 0 ppm.	E			
8			Medium gray, silty SAND. Fine - occasionally medium grained, well sorted sand. 30% - 40% non plastic fines. Moist. No odor or staining. 0 ppm.	E			
9			Medium brown, sandy GRAVEL. Fine - very coarse grained, poorly sorted sand. 10%± non plastic fines. 70%+ gravel 1/4" - occasionally 6". Very rapid inflow at 8'6"±. No odor or staining. .1 ppm.	E	OCC	A	
			No refusal to depth, hole caving.				

REMARKS: ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS	PAGE 1 OF 1
LOCATION: CAVENDISH, VT	TEST PIT NO. TP-5
CLIENT: TOWN OF CAVENDISH, VT	LOCATION: SOUTHEAST END OF WILD BILLS
CONTRACTOR: TOWN OF CAVENDISH OPERATOR:	
EQUIPMENT: JD 410	EL.
CAPACITY/REACH:	DATUM
WEATHER: SUNNY, 50'S	PROJECT NO.
PERFORMED BY: B. COX DATE: OCTOBER 18, 1995	TIME STARTED
CHECKED BY: DATE:	TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT		REMARK NO.
					QTY	CLASS	
.25			Medium - dark brown, sandy, silty, ORGANIC SOIL.	E			
.42			SUREPAC.	E			
2.5			MISCELLANEOUS FILL with cinders, etc. No odor or staining. 0 ppm.	E			
7			Medium brown, silty SAND. Fine - medium grained, well sorted sand. 20%± non plastic fines. Dry - moist at bottom. No odor or staining. 0 ppm.	E			
9			Medium brown sandy GRAVEL. Fine - very coarse grained, poorly sorted sand. 10%+ non plastic fines. 70%± gravel to 6". Inflow at 8'6"±. No odor or staining. 0 ppm.	E			
			No refusal to depth, hole caving.				

REMARKS: ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS

LOCATION: CAVENDISH, VT

CLIENT: TOWN OF CAVENDISH, VT

CONTRACTOR: TOWN OF CAVENDISH OPERATOR:

EQUIPMENT: JD 410

CAPACITY/REACH:

WEATHER: SUNNY, 50'S

PERFORMED BY: B. COX DATE: OCTOBER 18, 1995

CHECKED BY: DATE:

PAGE 1 OF 1

TEST PIT NO. TP-6

LOCATION: NORTHEAST SIDE OF WILD BILLS

EL.

DATUM

PROJECT NO.

TIME STARTED

TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT		REMARK NO.
					QTY	CLASS	
.33			Dark brown, sandy, silty, ORGANIC SOIL.	E			
2.5			MISCELLANEOUS FILL. Sand, gravel, cinders, ash,, etc. No odor or staining. 0 ppm.	E			
7			Medium brown, gravelly, silty, SAND. Fine - occasionally medium grained, well sorted sand. 20% non plastic fines. 10%± fine gravel. Prominent, continuous, dark red mottles at 7'. No odor or staining. 0 ppm.	E			
9			Medium brown, sandy GRAVEL. Fine - very coarse grained, poorly sorted sand. Trace non plastic fines. 70%+ fine - medium gravel. Inflow at 8'. No odor or staining. <.4 ppm.	E			
			No refusal to depth, hole caving.				

REMARKS: ppm refers to PID reading (10.6 eV lamp).

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

FIELD EXPLORATORY TEST PIT LOG

PROJECT: FORMER WILD BILLS

LOCATION: CAVENDISH, VT

CLIENT: TOWN OF CAVENDISH, VT

CONTRACTOR: TOWN OF CAVENDISH OPERATOR:

EQUIPMENT: JD 410

CAPACITY/REACH:

WEATHER: SUNNY, 50'S

PERFORMED BY: B. COX DATE: OCTOBER 18, 1995

CHECKED BY: DATE:

PAGE 1 OF 1

TEST PIT NO. TP-7

LOCATION: PENSTOCK AREA NORTH OF BURNED MILL

EL.

DATUM

PROJECT NO.

TIME STARTED

TIME COMPLETED

DEPTH OF STRATA CHANGE ft.	SAMPLE NO. & TYPE	SAMPLE DEPTH ft.	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT		REMARK NO.
					QTY	CLASS	
.25			Medium brown, sandy, silty ORGANIC SOIL.	E			
5.5			BUILDING RUBBLE. Apparent dry stone masonry foundation wall on east side of pit.	D			
			Refusal on building rubble.				

REMARKS:

LEGEND

BOULDER COUNT

SIZE RANGE CLASSIFICATION	LETTER DESIGNATION
6" - 18"	A
18" - 36"	B
36" AND LARGER	C

EXCAVATION EFFORT

EASY ------ E
MODERATE -- M
DIFFICULT - D

DH DUFRESNE-HENRY

JAN 2 6 2006

PHASE I ENVIRONMENTAL SITE ASSESSMENT
OF

UNDEVELOPED SOUTHWESTERN PORTION
OF PARCEL #151
PROCTORSVILLE, VERMONT 05153

ATC PROJECT NO. 63.30598.0001

JANUARY 12, 2006

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1.0 EXECUTIVE SUMMARY

At the request of the Southern Windsor County Regional Planning Commission (SWCRPC) of Ascutney, Vermont, ATC Associates Inc. (ATC) performed a Phase I Environmental Assessment (ESA) of the undeveloped property located on the southwestern portion of Parcel #151 in Proctorsville, Vermont (herein referred to as the Property). The property is located at the southwestern corner of the Village Green near the intersection of Vermont Route 131 and Depot Street. The property is part of a larger parcel of land that is owned by the Town of Cavendish, and is currently being subdivided. The area surrounding the property is being redeveloped with commercial and residential parcels. Two buildings located on the Town of Cavendish parcel are currently being remodeled into commercial space and are located east of the subject property.

The main objective of the ESA was to identify the potential for a *recognized environmental condition* (REC) as defined in ASTM Practice E 1527-00 as; *the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property.* Below is a summary of the findings and conclusions of this report:

Records Review

- No development on the property was evident through historical review, with the exception of a railroad spur. The railroad spur apparently connected the southern adjacent railroad tracks to the northeastern adjacent textile mill. Ground contamination near railroads is common, which could have potentially impacted the property. The northeastern adjacent parcel appears to have been developed with a textile mill from approximately 1836 until approximately 1938. The parcel appeared to be occupied by manufacturing companies from approximately 1938 until approximately 1982 when a fire damaged the buildings. A heating and plumbing company was located on the northern adjacent parcel from approximately 1970 until approximately 1997. The southern adjacent parcel appears to have been developed with a railroad track since at least 1908.
- A previous environmental consultant and the VT DEC recommended additional groundwater investigation activities down-gradient from the Cota & Cota facility to determine the extents of the kerosene and #2 fuel oil subsurface contamination plume. The plume flows directly toward the subject property, and the down gradient extent of the plume has not been identified. The unidentified extent of the kerosene and #2 fuel oil subsurface contaminant plumes represent a *recognized environmental condition.*
- Typical woolen mill operations produce waste streams that may include heavy metals, and additional toxins. The waste stream handling procedures were not regulated at the time of the mill operation, and were potentially disposed of at the facility. The only analytical testing that has been conducted in the vicinity of the facility was for the presence of total petroleum hydrocarbons (TPH), and a limited list of volatile organic compounds (VOCs). The testing did not include analysis for semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAH), or metals. Based on the close proximity and the up-gradient location of the woolen mill to the property, the former presence of the railroad spur on the property, and the lack of sufficient testing to identify potential contaminants on the property, the potential contamination from the former woolen mill represents a *recognized environmental condition.*
- Although flood plain determination is outside the scope of work, according to the flood plain map, the property appeared to be located in an area defined as base flood elevations determined with potential for the special flood hazard area subject to inundation by the 1% annual chance flood.

Site Reconnaissance

- No indication of a *recognized environmental condition*, *historical recognized environmental condition*, or *de minimis condition* was visually or physically observed on the property or adjoining properties during the site reconnaissance.

2.0 RECOMMENDATIONS

Based on information collected from the ESA, ATC offers the following recommendations:

- A subsurface investigation should be conducted to evaluate the impact from the leaking underground storage tanks formerly located at the Cota & Cota facility, the former railroad spur, and the former textile mill located northeast of the property. Groundwater and soil sampling should be conducted at the property to include analysis for potential textile mill waste stream contaminants, typical railroad contaminants, and petroleum contamination.

3.0 INTRODUCTION

This report documents the findings, opinions and conclusions of a Phase I Environmental Site Assessment (ESA) of the undeveloped southwestern portion of parcel #151 located in Proctorsville, Vermont.

3.1 Purpose

The purpose of this ESA was to identify *recognized environmental conditions* and certain potential environmental conditions outside the scope of ASTM Practice E 1527-00 in connection with the property at the time of the site reconnaissance.

3.2 Scope

This ESA was conducted in accordance with the ASTM Standard Practice E 1527-00, consistent with a level of care and skill ordinarily practiced by the consulting profession currently providing similar services under similar circumstances. Significant additions, deletions or deviations to ASTM Practice E 1527-00 are noted below or in the corresponding sections of this report. The scope of this assessment included an evaluation of the following:

- Physical setting characteristics of the property through a review of referenced sources such as topographic maps and geologic, soils and hydrologic reports.

- History of the uses of the property, adjoining properties and surrounding area through a review of referenced sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports and interviews.

- Current property uses and conditions including observations and interviews regarding: the use, treatment, storage, disposal or generation of hazardous substances, petroleum products and hazardous, regulated, or medical wastes; equipment that is known or likely to contain PCBs; storage tanks and drums; wells, drains and sumps; and pits, ponds or lagoons.

- Uses of adjoining and surrounding area properties and the likelihood of known or suspected releases of hazardous substances or petroleum products to migrate into the property.

- Information in referenced environmental agency databases and local environmental records, within the specified approximate minimum search distance from the property.

3.3 Assumptions, Limitations and Exceptions

ATC has prepared this Phase I Environmental Site Assessment using reasonable efforts to identify *recognized environmental conditions* associated with hazardous substances or petroleum products at the property. Findings within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Practice E 1527-00 recognizes inherent limitations for ESAs that apply to this report, including:

- Uncertainty Not Eliminated – No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property.
- Not Exhaustive – An ESA is not an exhaustive investigation.
- Past Uses of the Property – Review of standard historical sources at less than five-year intervals is not required.

Users of this report may refer to E 1527-00 for further information regarding these and other limitations.

This report is not definitive and should not be assumed to be a complete or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions implied by surface observations or historical sources and can be most reliably evaluated through intrusive techniques that were beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes. ATC makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, ATC is not responsible for consequences or conditions arising from facts that were not fully disclosed to ATC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by ATC's observations or other credible referenced sources reviewed during the assessment.

Reasonable efforts were made to identify evidence of aboveground and underground storage tanks and ancillary equipment on the property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These methods may not identify subsurface equipment or evidence hidden from view by things such as, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

Any estimates of costs or quantities in this report are approximations based on findings that are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations and other factors associated with performing an ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report.

ATC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

Other assumptions, limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

3.4 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by the Southern Windsor County Regional Planning Commission (SWCRPC) and any of its affiliates, and third parties authorized in writing by SWCRPC and ATC, including the lender(s) in connection with a secured financing of the property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment.

ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied. Unless otherwise agreed upon in writing by ATC and a third party, ATC's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a maximum of $100,000.

4.0 SITE DESCRIPTION

4.1 Location and Legal Description

The property is located on the southwestern portion of Parcel #151 in Proctorsville, Vermont, which is located at the southwestern corner of the Village Green near the intersection of Vermont Route 131 and Depot Street. The property is part of a larger parcel of land (Parcel #151) owned by the Town of Cavendish, which is currently being subdivided. The actual property boundaries were not marked, but Mr. Richard Svec, the Town of Cavendish Town Manager, identified the approximate property boundaries during the site reconnaissance. The northern boundary is approximately the bottom of the slope leading up to the adjacent parking lot, and the western property boundary is the bottom of the slope from the adjacent property grade. The southern boundary is marked by the railroad tracks and the eastern property boundary is near a building located on the eastern adjacent property (Town of Cavendish subdivided parcel). Two buildings located on the Town of Cavendish parcel are currently being remodeled into commercial space and are located east of the subject property. According to the Town of Cavendish, the area around the property is not zoned, but the property is part of the town plan which lists the area as being commercial or transitional.

Site Photographs are provided in Appendix A, and a Site Plan is presented in Appendix C.

4.2 Surrounding Area General Characteristics

The area surrounding the property is primarily characterized by commercial or undeveloped parcels in a relatively low-density urban setting. The properties around the village green are currently being redeveloped primarily for commercial space. The southern property boundary is bordered by railroad tracks followed by the Black River and the western adjacent property is currently undeveloped land. However, the western adjacent land elevation appears to have been raised with fill material. The fill material could not be observed during the site visit due to snow covered ground. The general topography of the surrounding area and the site slopes gently to the south toward the Black River.

A Site Vicinity Map is presented in Appendix B.

4.3 Current Use of the Property

The property is currently undeveloped land that is part of a larger parcel of land owned by the Town of Cavendish. The property appeared to be overgrown with native plants, and shrubbery on the south and western portions of the property, and disturbed land on the northeastern portion of the property. However, snow was covering the ground during the site reconnaissance, and actual surface conditions could not be observed by ATC. No evidence of underground storage tanks (USTs) or aboveground storage tanks (ASTs) were observed by ATC during the site reconnaissance on the property.

Complete pertinent descriptions of property improvements are provided in Section 4.4, site reconnaissance documentation is included in Section 7.0.

4.4 Description of Property Improvements

The following improvements were observed on the Property:

PROPERTY IMPROVEMENTS	
Size of Property (approximate)	23,000 square feet
General Topography of Property	Generally sloping to the south
Adjoining and/or Access/Egress Roads	Village Green from either Depot Street or Vermont Route 131
Paved or Concrete Areas (including parking)	None
Unimproved Areas	Entire property
Landscaped Areas	None
Surface Water	None
Potable Water Source	None on property but service nearby is Town of Cavendish
Sanitary Sewer Utility	None on property but service nearby is Town of Cavendish
Storm Sewer Utility	None on property but service nearby is Town of Cavendish
Electrical Utility	None
Natural Gas Utility	None
Unoccupied Buildings/Spaces/Structures	None
Number of Occupied Buildings	None

4.5 Current Uses of Adjoining Properties

Current uses of parcels adjoining the property were observed as follows:

North – The property is bordered directly to the north by a commercial building that was relocated to its current location. The building was transplanted and renovated. The building grade was raised and a parking lot was raised in elevation to eliminate the flood plain concerns.

East – The property is bordered directly to the east by commercial buildings currently being renovated.

South – The property is bordered directly to the south by railroad tracks followed by the Black River.

West – The property is bordered directly to the west by an undeveloped parcel of land that has been elevated with fill.

5.0 USER PROVIDED INFORMATION

The following section summarizes information (if any) provided by the Southern Windsor County Regional Planning Commission (SWCRPC) with regard to the ESA. Documentation may be found in Appendix J or where referenced in this report.

5.1 Title Records

SWCRPC provided no information regarding property environmental liens or activity and use limitations.

5.2 Environmental Liens or Activity and Use Limitations

SWCRPC provided no information regarding property environmental liens or activity and use limitations.

5.3 Specialized Knowledge

SWCRPC provided no information regarding specialized knowledge regarding the property.

5.4 Valuation Reduction for Environmental Issues

SWCRPC provided no information regarding valuation reduction for environmental issues on the property.

5.5 Owner, Property Manager and Occupant Information

SWCRPC provided no information regarding the property manager, or occupant information. SWCRPC identified the Town of Cavendish as the current property owner.

5.6 Reason for Performing Phase I ESA

SWCRPC provided no information regarding the reason for performing the Phase I ESA.

5.7 Other User Provided Documents

SWCRPC provided a previous Limited Environmental Assessment completed by Dufresne-Henry, Inc. of North Springfield, Vermont for the William Markowitz property dated October 24, 1995. In addition, SWCRPC provided the Site Investigation Report for the Proctorsville Bulk Plant Cota & Cota, prepared by Environmental Compliance Services, Inc. of Brattleboro, Vermont dated July 8, 1998.

6.0 RECORDS REVIEW

6.1 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by Environmental Data Resources Inc. (EDR) of Milford, Connecticut, were reviewed for information regarding reported releases of hazardous substances and petroleum products on or near the properties. ATC also reviewed the "unmappable" (also referred to as "orphan") listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the property based on the partial Street address, city, or zip code. Any unmappable site that was identified by ATC as a being within the approximate minimum search distance from the property based on the site reconnaissance and/or cross-referencing to mapped listings, is included in the discussion within this section. Federal and State databases were searched per the ASTM standard in addition to supplemental databases searched by EDR. Complete copies of the EDR database search reports are included in Appendix H.

The following is a summary of the database review findings (ASTM Parameters with additional pertinent supplemental databases):

SUMMARY OF FEDERAL & STATE AGENCY DATABASE FINDINGS			
Regulatory Database	**Approx. Minimum Search Distance**	**Property Listed?**	**# Sites Listed**
Federal National Priority List (NPL)	1 mile	No	0
Proposed NPL	1 mile	No	0
Federal CERCLIS list	1 mile	No	0
Federal CERCLIS NFRAP	¼ mile	No	0
Federal RCRA CORRACTS	1 mile	No	0
Federal RCRA non-CORRACTS TSD	½ mile	No	0
Federal RCRA Generators	¼ mile	No	1
Federal ERNS list	Property Only	No	0
State Landfill or Solid Waste Disposal sites	1 mile	No	0
State Hazardous Waste sites	1 mile	No	0
State Leaking Underground Storage Tanks (LUST)	1 mile	No	0
State Registered Underground Storage Tanks (UST)	¼ mile	No	1
State Leaking Aboveground Storage Tanks (LAST)	¼ mile	No	0
Federal Records of Decision (ROD)	1 mile	No	0
Federal Superfund Consent Decrees (CONSENT)	1 mile	No	0
EDR Former Manufactured Gas Sites (Coal Gas)	1 mile	No	0
State/Local Supplemental Drycleaners Database	¼ mile	No	0
Federal Brownfields Database	½ mile	No	0

6.1.1 Federal Agency Database Findings

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the sites listed in the federal agency databases are considered to represent a likely past, present or material threat of release on the property.

6.1.2 State Agency Database Findings

Listed on the orphan summary list was the Cota & Cota Proctorsville bulk facility as a State Hazardous Waste Site (SHWS) and a Leaking Underground Storage Tank (LUST) facility. Therefore, the following listing with a known or significant potential for release and impact on the property was identified in the state agency databases researched:

Cota & Cota Proctorsville bulk facility
Route 131 and Main Street
Cavendish, Vermont
Databases: State Hazardous Waste Sites, and Leaking Aboveground Storage Tanks
Approximate Distance from the Property: 300 feet
Assumed Groundwater Gradient: Upgradient
Regulatory Data Summary: According to the EDR Site Report, the site is an active site with a signed contract to complete a workplan which will include monitoring well installations. ATC conducted a file review at the VT DEC to determine the most current information available regarding the facility. Two USTs were removed from the facility in May 1997. One of the tanks was a 20,000 gallon #2 fuel oil tank installed in 1970, and the second tank was a 10,000 gallon kerosene tank installed in 1970. Both tanks were determined to be in good condition at the time of removal but elevated PID readings of the soils (peak reading 100 ppm) were measured at the bottom of the tank grave. According to a Site Investigation Report prepared by Environmental Compliance Services, Inc. (ECS) for the facility on July 14, 1998, three monitoring wells were installed to define the degree and extent of #2 fuel oil and kerosene impacted soil and groundwater near the former UST locations at the Cota & Cota plant. Headspace screening of the soils in the three soil borings indicated the highest volatile organic compound (VOC) levels were detected at depths between 15-17 feet below ground surface (bgs) in a coarse sand lens of soils. The groundwater was determined to flow toward the southeast. The groundwater sampling indicated elevated levels of total petroleum hydrocarbons (TPH) in the location of the former USTs, but also indicated detectable concentrations were found down gradient from the former USTs. Based on the results of the investigation, ECS stated it is possible the TPH plume had not been fully characterized, and recommended the installation of additional monitoring wells down gradient from the former UST basin. The most recent information available was a letter dated July 29, 1998 from Mr. Richard Spiese with the VT DEC, stating they concur with the ECS recommendation for additional monitoring wells to determine the extent of the plume. In addition, the VT DEC recommended that TPH be analyzed by EPA Method 8100M and that VOCs be analyzed by EPA Method 8260 based on the nature of the contaminants at the site.
Discussion: The previous environmental consultant and the VT DEC recommended an additional groundwater investigation down-gradient from the Cota & Cota facility to determine the extents of the kerosene and #2 fuel oil subsurface contamination plume. The plume flows directly toward the subject property, and the down gradient extent of the plume has not been identified. Mr. Richard Svec, stated subsurface soils were observed during an excavation for a house foundation located between the former UST locations and the property, and no contamination

was observed. However, the depth of excavation is not known, and neither PID measurements nor soil sampling was conducted. Therefore, the unidentified extents of the kerosene and #2 fuel oil subsurface contaminant plumes represent a *recognized environmental condition.*

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, the remainder of the sites listed in the state agency databases are not considered to represent a likely past, present or material threat of release on the property.

6.1.3 Local Regulatory Agency Findings

Fire Department

ATC spoke with Mr. Robert Glidden, the Proctorsville Fire Chief for historical information regarding the property. Mr. Glidden did not indicate any records regarding hazardous material responses were available for the property. In addition, Mr. Glidden could not remember any responses to the property.

Department of Planning and Zoning

ATC spoke with personnel from the Town of Cavendish who stated the area does not have town ordained zoning. Instead a Cavendish Town Plan was observed which indicated the property appeared to be part of a commercial land use area or a brush/transitional area which is appropriate for the current uses.

6.2 Physical Setting Sources

6.2.1 Topography

The property is located on USGS Topographic Map, Ludlow Quadrangle, Vermont, 7.5-minute series, dated 1997. The topography of the property slopes from the north to the south, and the property is located at approximately 950 feet above mean sea level. A copy of the USGS 1997 topographic map is included in Appendix B.

6.2.2 Geology

The Geologic Map of Vermont (1961) indicates that the area underneath the properties is part of the Mississquoi formation. The Mississquoi formation is described as barnard volcanic member with fine to medium grained biotite gneiss, hornblende gneiss, and amphibolite.

6.2.3 Soils

The Surficial Geologic Map of Vermont (1970) indicates the soils in this area are littoral sediment. The soils are predominantly well sorted sand with no pebbles or boulders. According to the Site Investigation Report prepared by ECS, the soils on the northeastern adjacent property appeared to be primarily fine silt and sand with some gravel to a depth of 15 feet bgs. The samples consisted mostly of coarse sand between 15 and 17 feet bgs.

6.2.4 Hydrology

ATC estimates groundwater to flow from the north to the south towards the Black River on the property. According to the Site Investigation Report prepared by ECS for the northern adjacent property, groundwater was encountered at an approximate depth ranging from 10 feet bgs to 16 feet bgs, and groundwater was determined to flow in a southwesterly direction. Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

6.2.5 Other Physical Setting Sources

Flood Plain Map

The Flood Insurance Rate Map of Windsor, VT (community panel # 50027CO594E) indicates that the property is located within zone AE, which is defined as base flood elevations determined with special flood hazard area subject to inundation by the 1% annual chance flood.

6.3 Historical Use Information

The following table summarizes the findings of the research presented below in following sections pertaining to historical property and surrounding area uses.

HISTORICAL USE SUMMARY				
Period	**Identified Historical Uses**		**Source(s)**	**Intervals/Comments**
	Property	**Surrounding Area**		
Prior to 1940	Railroad spur, undeveloped	Manufacturing	Prior Reports, Interviews, Fire Insurance Maps,	The NE adjacent parcel appeared to be developed with woolen mill in approximately 1836 until 1938.
1940-1960	Undeveloped	Manufacturing	Prior Reports, Interviews	The NE adjacent parcel was developed with manufacturer of cable spools from 1941 until 1956.
1961-1980	Undeveloped	Manufacturing	Title Records, Prior Reports, Interviews, Historical Topographic Maps	The NE adjacent parcel was developed with a loudspeaker assembly plant from approximately 1956 until 1982. The Cota & Cota plumbing and heating facility was located north of property from approx. 1970 to 1997.
1981 to present	Undeveloped	Manufacturing	Title Records, Prior Reports, Interviews, Historical Topographic Maps, Aerial Photographs	The NE adjacent parcel was unoccupied from 1982 until final demolition activities in the mid 1990's

According to Mr. Richard Svec, the Cavendish Town Manager, a railroad spur connecting the southern adjacent railroad tracks to the northeastern adjacent textile mill was located on the property. The tracks were used to transport coal for the furnaces at the mill. Remnants of the tracks were removed by the Town of Cavendish within the past ten years. No evidence of the railroad spur was found by ATC during the historical review. However, contamination is historically commonly found near railroad tracks, and represents an environmental concern to the property.

6.3.1 Aerial Photographs

ATC reviewed available aerial photographs of the properties and surrounding areas at the University of Vermont's Bailey/Howe Library facility. Available photographs ranged from 1962 to 1995. The following are descriptions and interpretations from the aerial photograph review.

AERIAL PHOTOGRAPH SUMMARY		
Year	**Scale**	**Comments**
1962	1:20,000	**Property**: The property appeared to be undeveloped **Surrounding Area**: The northern and eastern adjacent properties appeared to be developed with the mill, along with a canal located to the north. The western adjacent property did not appear to be developed, and railroad tracks were visible south of the property.
1974	1:20,000	**Property**: The property appeared to be undeveloped **Surrounding Area**: Several of the buildings previously located north and east of the property were no longer present. The remaining parcels appeared to be the same as the 1962 aerial
1995	Not to scale	**Property**: Undeveloped **Surrounding Area**: Two buildings that currently exist to the east of the property are visible. The remaining surrounding properties do not appear to be developed. The railroad tracks are located to the south of the property. The village green road does not appear to be developed.

The review of aerial photographs did not identify past uses indicating *recognized environmental conditions* at the property or surrounding area.

A copy of the 1995 reproducible aerial photograph is included in Appendix E.

6.3.2 Fire Insurance Maps

A search for fire insurance maps for the properties and surrounding areas was conducted by Environmental Data Resources, Inc. of Southport, Connecticut. EDR was able to find a map for the year 1914. Research conducted by ATC at the Town of Cavendish, discovered a surveyed map of the area dated October 6, 1908 of the former H.T. Murdock & Co. Woolen Mill. The following are descriptions, interpretations, and pertinent information from the map reviews.

FIRE INSURANCE MAP SUMMARY	
YEAR	**COMMENTS**
1908	**Property**: The property appears to be undeveloped. One building appears to be located near the northwestern corner of the property boundary. The building is identified as a stock building. **Surrounding Area**: The northeastern adjacent area appears to be developed with the Murdock & Co. woolen mill. Numerous buildings are associated with the mill, along with a canal located north of the property. Two buildings located east of the property appear to be the same buildings that are currently being renovated east of the property. The southern adjacent parcel appears to be developed with the same railroad tracks that currently exist. The western adjacent property is not shown on the map.
1914	**Property**: Similar to the 1908 Map, with the exception of the stock building located near the northwestern corner of the property. The building is not depicted on the 1914 map. **Surrounding Area**: Similar to the 1908 Map.

The historical review of fire insurance maps available for the properties indicated the presence of several adjacent property uses of interest.

The buildings northeast of the property were part of the Murdock & Co. woolen mill. The mill complex included numerous buildings as well as a canal that was located north and up-gradient of the property. Typical historic mill operations produced numerous waste streams from the preparation, dying, and finishing stages of the textile processes. Examples of the wastes produced from the processes include: detergents, surfactants, heavy metals, biocides, and insecticides. One of the buildings identified on the 1908 map was labeled the dye building. The waste stream handling procedures were not regulated at the time of the mill operation, and were potentially disposed of at the facility. Soil or groundwater sampling for the presence of metals or semi-volatile organic compounds (SVOCs) does not appear to have been conducted at the property or adjacent parcels.

Copies of historical fire insurance maps provided by EDR are located in Appendix D.

6.3.3 Property Tax Files

No historical information for the property was available.

6.3.4 Land Title Records

ATC reviewed prior ownership information for the properties at the Cavendish Town Hall. Public deed records were reviewed from 1967 to 2005. The properties were researched individually and presented below:

The current owner of the property was listed as The Town of Cavendish. Ownership of the property prior to 1967 was not obtained due to a lack of prior deed references. The review of prior ownership information did not identify past uses indicating *recognized environmental conditions* at the property.

LAND TITLE RECORDS OWNERSHIP SUMMARY			
Grantor	**Grantee**	**Date**	**Volume/ Page**
Eric Markowitz	Town of Cavendish	6/29/96	48/284
EBM Enterprises	William Markowitz	3/17/89	43/364
Jewell Brook Mills	EBM Enterprises	2/8/78	36/468
Cavendish Realty Co.	Jewell Brook Mills	9/29/70	33/105
Town of Cavendish	Cavendish Realty Co.	6/12/67	32/186

6.3.5 Historical USGS Topographic Quadrangles

ATC reviewed available historical USGS Topographic Quadrangles for information regarding past uses of the properties. Historical USGS topographic maps were provided by Environmental Data Resources Inc. (EDR) of Milford, Connecticut. Maps were available for the years 1971, and 1997. The topographic maps indicated the property and surrounding areas did not change from 1971 until 1997. The property did not appear to be developed with any structures on the 1971 and 1997 maps. The northeastern adjacent parcels appeared to be developed with buildings that correspond to the layout of the woolen mill buildings. The review of historic USGS Topographic Quadrangles did not identify past uses indicating *recognized environmental conditions* at the properties or surrounding areas.

6.3.6 City Directories

Research regarding the availability of historical city directories was conducted by EDR. No historical directories were available for the property.

6.3.7 Building Department Records

ATC attempted to review available historical building department records the Town of Cavendish for information regarding past uses of the property and surrounding area. No historical use information was available for the property.

6.3.8 Zoning/Land Use Records

No significant historical zoning information was available for the properties. The woolen mill surveyed site diagram was observed in the Cavendish Town Office and discussed in Section 6.3.2. Mr. Richard Svec, the Cavendish Town Manager showed ATC where the previous mill buildings were located in relation to the property during the site reconnaissance. According to Mr. Richard Svec, two underground storage tanks (USTs) were removed from one of the buildings (Cota & Cota) located north of the

property in 1997. The USTs appeared to be leaking and a subsurface investigation was conducted, which is discussed further in Section 6.3.9. According to Mr. Svec, the contamination is not believed to extend to the property boundary. The building that is currently located on the northern adjacent parcel (between the property and former UST locations) was moved to its current location in approximately 1998. During the excavation activities for the building foundation, no visual or olfactory evidence of contaminated soils was discovered. According to Mr. Svec, a clay layer was located near the former canal, which is believed to have acted as a confining layer and limited the movement of the contamination toward the south and the subject property. However, no soil screening or sampling activities were performed during the excavation activities, and groundwater was not encountered.

In addition, Mr. Svec indicated the property was formerly developed with a railroad spur leading from the mill to the railroad tracks located to the south of the property. The spur reportedly enabled the transport of coal for the mill operations. The Town of Cavendish removed remaining railroad debris from the property within the past ten years.

6.3.9 Prior Reports

SWCRPC provided two former reports regarding the adjacent parcel located to the northeast of the property which are presented below:

Limited Environmental Assessment report, dated October 24, 1995
Prepared by Dufresne-Henry, Inc. (DH) for the adjacent former mill property located at the southwestern corner of the intersection of Depot Street and Vermont Route 131, in Proctorsville, Vermont. The report concluded that further investigations were not warranted at the site, but warned the scope of work completed was limited, and recommended that care be taken during any future excavation work at the site. A more detailed discussion of the assessment is provided below.

The historical research for the site indicated the woolen mill operated from 1836 until 1938. The mill operated as a textile producing mill until 1938, and as a manufactured wooden utility cable spools facility from 1941 until 1953. A loudspeaker assembly operation occupied the building until 1982 when a fire destroyed the building. The facility was unoccupied until most of the buildings were leveled prior to 1997. A significant portion of the building debris was filled into the former canal.

The site activities performed by DH included a site walk and due to the former presence of fuel oil tanks at the site, a series of seven test pits were excavated throughout the site. Groundwater was discovered between 11 feet and 12 feet bgs in the test pits. Soil samples from the test pits were field screened with a photo ionization detector (PID) for indications of volatile organic compounds (VOCs) in the soils. According to the report, only one of the excavations had a positive PID reading as well as a slight oil odor, and was located in the former canal/pond area. A soil sample was collected and submitted for laboratory analysis, but at the time of the report preparation, the laboratory results had not been received.

Based on the results discussed in the Limited Environmental Assessment completed by DH on October 24, 1995, ATC concurs with the conclusion presented. However, the laboratory results not included in the former report may change ATCs opinion, and ATC would recommend additional subsurface testing if the constituent levels were elevated.

Site Investigation Report (SIR) dated July 8, 1998.
The Proctorsville bulk plant Cota & Cota Inc., located at the corner of Route 131 and Depot Street, in Proctorsville Village, Vermont, and completed by Environmental Compliance Service, Inc (ECS). According to the report, a 20,000 gallon #2 fuel oil UST and a 10,000 gallon kerosene UST were removed from the bulk plant in May 1997. Soil contamination was observed below the groundwater table in each tank excavation, and the VT DEC requested additional site work be performed to determine the severity of the contamination at the site. Therefore, ECS completed the SIR at the site to address the potential subsurface contamination which is described below.

Three groundwater monitoring wells were installed in the vicinity of the #2 fuel oil and kerosene USTs removed in 1997. Headspace screening of the soils in the three soil borings indicated the highest volatile organic compound (VOC) levels were detected at depths between 15-17 feet below ground surface (bgs) in the porous sandy layer. The groundwater was determined to flow toward the southeast, and the groundwater sampling indicated detectable levels of total petroleum hydrocarbons (TPH) in all three monitoring wells. The groundwater sampling did not indicate VOC results exceeding applicable standards. Based on the results of the investigation, ECS determined the TPH plume may not have been fully characterized, and recommended the installation of additional monitoring wells down gradient from the former UST basin. ATC concurs with the findings and recommendations presented in the SIR for the Cota & Cota facility dated July 8, 1998.

Summary
Typical woolen mill operations produce waste streams that may include heavy metals, or additional toxins. The waste stream handling procedures were not regulated at the time of the mill operation, and were likely disposed of at the facility. The only analytical testing that has been conducted in the vicinity of the facility in these two subsurface investigations was for the presence of TPH, and a limited list of VOCs. The testing did not include analysis for semi-volatile organic compounds (SVOCs) or metals. Based on the close proximity and the up-gradient location of the woolen mill to the property, the lack of sufficient testing to identify potential contaminants from the woolen mill, and the unidentified extents of the TPH plume from the Cota & Cota facility, the potential subsurface contamination from the former woolen mill and former Cota & Cota USTs represents a *recognized environmental condition.*

The prior reports provided to ATC are included in Appendix G.

7.0 SITE RECONNAISSANCE

The site reconnaissance was conducted by Adam Forman, Staff Scientist, of ATC on December 12, 2005. ATC was accompanied by Mr. Richard Svec, the Town Manager for the Town of Cavendish. The following is a summary of visual and/or physical observations of the Property on the day of the site visit. Photographs can be found in Appendix A.

7.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of: the properties and improvements; adjoining sites as viewed from the property; and, the surrounding area based on visual observations made during the trip to and from the property. Building exteriors were observed along the perimeter from the ground, unless described otherwise. Building interiors were observed as they were made safely accessible, unless described otherwise. The ground was snow covered during the site reconnaissance which limited visual inspection of the ground surface.

7.2 Hazardous Substance Use/Storage

ATC did not observe the use or storage of hazardous substances on the property.

7.3 Storage Tanks

ATC did not observe the use of any storage tanks (aboveground or underground) on the property.

7.4 Other Petroleum Products

ATC did not observe the use, storage disposal of other petroleum products on the property.

7.5 Polychlorinated Biphenyls (PCBs)

ATC did not observe evidence of the use, storage or disposal of PCB-containing transformers, lifts, or other equipment on the property.

7.6 Unidentified Substance Containers

ATC did not observe the presence of unidentified substance containers on the property.

7.7 Waste Generation, Storage and Disposal

ATC did not observe evidence of the generation, storage or disposal of wastes (hazardous or non-hazardous) on the property.

7.8 Waste Pits, Ponds and Lagoons

ATC did not observe evidence of waste pits, ponds or lagoons on the property.

7.9 Sumps

ATC did not observe evidence of sumps on the property.

7.10 Septic Systems

No evidence of a septic system was observed on the property.

7.11 Storm Water Management System

Storm water from the property flows over the surface toward the south. Storm water will flow toward the Black River located south and southwest of the property.

7.12 Wells

No wells were observed on the property.

8.0 INTERVIEWS

8.1 Interview Summary

The following persons were interviewed to obtain information regarding *recognized environmental conditions* in connection with the property:

INTERVIEW SUMMARY				
Role	**Name**	**Title/Company**	**Years Assoc. With Property**	**Interview Type**
Owner / Operator	Richard Svec	Town Manager/Town of Cavendish	Not stated	In person
State Regulator	Kathy Perkins	VT DEC	N/A	In person
Fire Chief	Robert Glidden	Proctorsville Fire Chief	N/A	Telephone

Pertinent information from the interviews is discussed in applicable sections of this report with details documented on Record of Communication forms in Appendix L.

8.2 Attempted Interviews

Interviews attempted by ATC for this assessment were considered responsive and complete as noted above and in Appendix L.

9.0 FINDINGS AND OPINIONS

The following summarizes known or suspected environmental conditions in connection with the property based on information collected during the ESA. For each condition, ATC provides an opinion of the impact on the property based on an evaluation of the results of record reviews, site reconnaissance and environmental sampling issues as discussed in this report. ATC also provides a conclusion and rationale regarding whether or not an environmental condition is a *recognized environmental condition.*

- A previous environmental consultant and the VT DEC recommended additional groundwater investigation activities down-gradient from the Cota & Cota facility to determine the extents of the kerosene and #2 fuel oil subsurface contamination plume. The plume flows directly toward the subject property, and the down gradient extent of the plume has not been identified. The unidentified extent of the kerosene and #2 fuel oil subsurface contaminant plumes represent a *recognized environmental condition.*
- Typical woolen mill operations produce waste streams that may include heavy metals, and additional toxins. The waste stream handling procedures were not regulated at the time of the mill operation, and were potentially disposed of at the facility. The only analytical testing that has been conducted in the vicinity of the facility was for the presence of total petroleum hydrocarbons (TPH), and a limited list of volatile organic compounds (VOCs). The testing did not include analysis for semi-volatile organic compounds (SVOCs), polycyclic aromatic hydrocarbons (PAH), or metals. Based on the close proximity and the up-gradient location of the woolen mill to the property and the lack of sufficient testing to identify potential contaminants from the woolen mill, the potential contamination from the former woolen mill represents a *recognized environmental condition.*

10.0 CONCLUSIONS

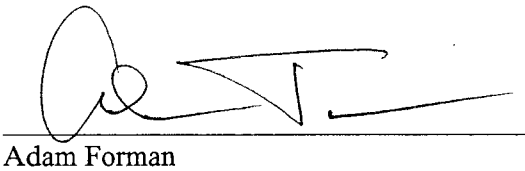
ATC has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-00 of the undeveloped southwestern portion of parcel #151 near the village green at the intersection of Depot Street and Vermont Route 131, in the Town of Proctorsville, Vermont. Any exceptions to, or deletions from, this practice are described in Section 3.2 of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the property, except for the following:

- Unknown extent of adjacent property total petroleum hydrocarbon contamination, and unknown impact from adjacent historical textile mill waste stream.

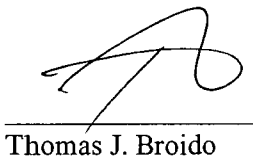
11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

ATC Associates Inc. (ATC) has performed a Phase I Environmental Site Assessment (ESA) of the undeveloped southwestern portion of parcel #151 near the village green at the intersection of Depot Street and Vermont Route 131, in the Town of Proctorsville, Vermont. The scope of the ESA was consistent with ASTM Practice E 1527-00. Resumes for the following environmental professionals are included in Appendix H.

ATC ASSOCIATES INC.



Adam Forman
Staff Scientist



Thomas J. Broido
Branch Manager

12.0 REFERENCES

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H.T. Murdock & Co. Woolen Mill map, Proctorsville, Vermont. Surveyed and drawn by A. L. Wakefield on October, 6, 1908.

13.0 APPENDICES

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Appendix B - Site Vicinity Map
Appendix C - Site Plan
Appendix D - Historical Research Documentation
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APPENDIX A

SITE PHOTOGRAPHS



PHOTO 1
View of property from the northeast.



PHOTO 2
View of property (foreground) and village green (background) from the southwest.



PHOTO 3
View of property and adjacent transplanted building located north of the property.

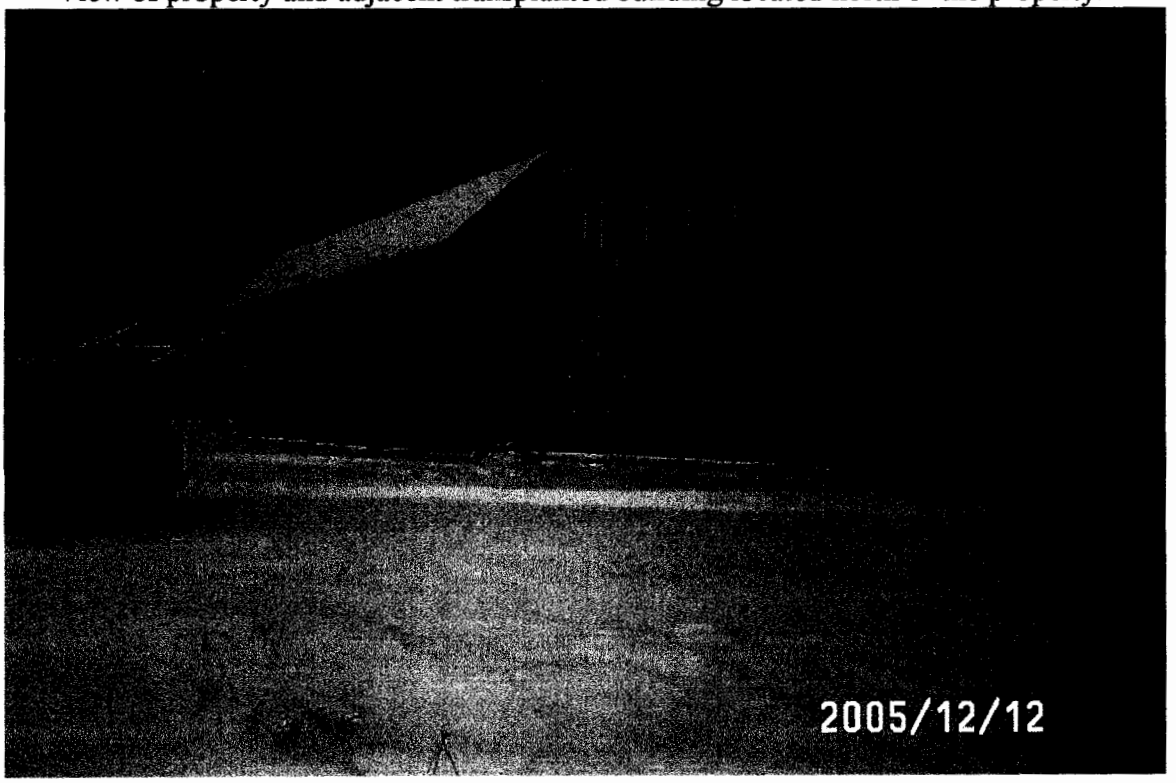


PHOTO 4
Looking southeast from the northern portion of the property toward adjacent buildings currently being remodeled.



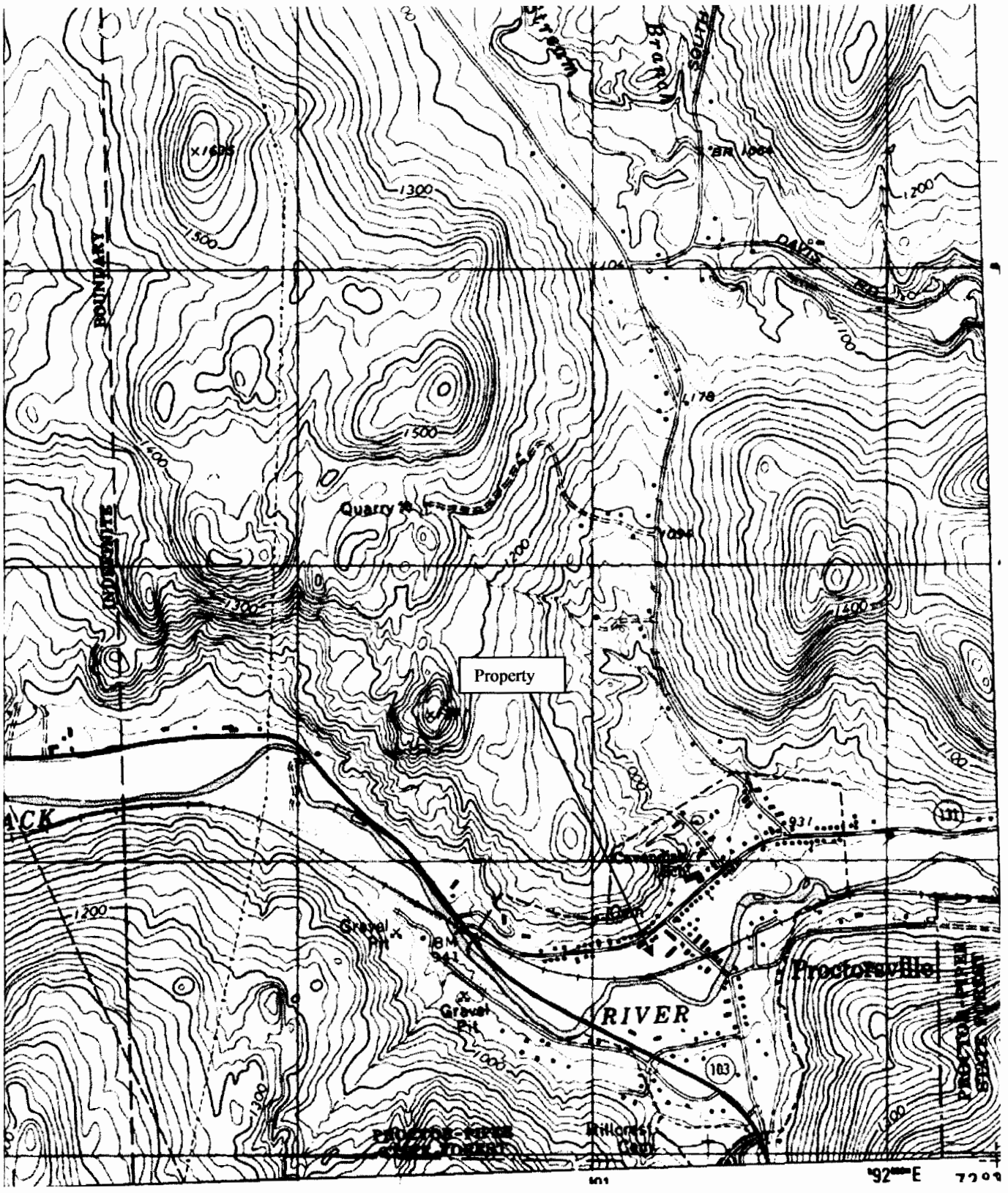
PHOTO 5
Looking northeast from southern portion of property toward adjacent building currently being remodeled



PHOTO 6
Western view of southern portion of property and adjacent property in background.

APPENDIX B

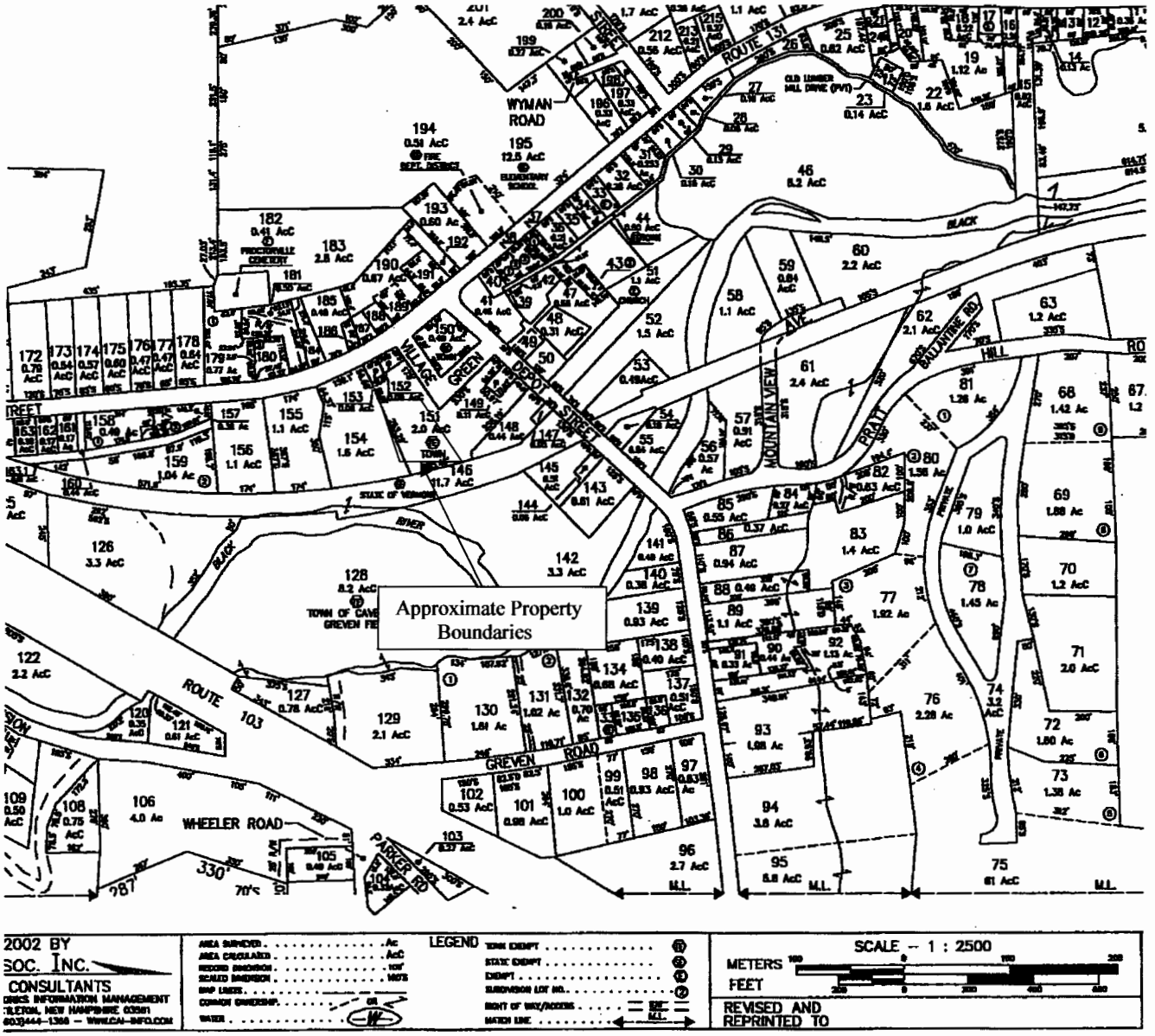
SITE VICINITY MAP



VATC ASSOCIATES INC PO Box 3, 15 East Main St. Browns Trace Building Richmond, VT 05477	**ATC Project #: 63.30598.0001** **Project Location:** SWCRPC Undeveloped SW Portion of Parcel #151 Proctorsville, Vermont	**Drawn by:** AF **Field Work by:** AF **Checked by:** TB **Date:** 28-December-05	***Site Vicinity Map*** USGS Topographic Map: Ludlow Scale Unknown

APPENDIX C

SITE PLAN



VATC ASSOCIATES INC PO Box 3, 15 East Main St. Browns Trace Building Richmond, VT 05477	**ATC Project #: 63.30598.0001** **Project Location:** SWCRPC Undeveloped SW Portion of Parcel #151 Proctorsville, Vermont	**Drawn by:** AF **Field Work by:** AF **Checked by:** TB **Date:** 28-December-05	***Site Plan***

Phase II Environmental Site Assessment

RECEIVED
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Proctorsville Village Property
Southwest Portion of Parcel 151
Cavendish, Vermont

July 2006

Prepared for:

Southern Windsor County Regional Planning Commission
P.O. Box 320
Ascutney, Vermont 05030

The Johnson Company

ENVIRONMENTAL SCIENCE AND ENGINEERING SOLUTIONS

PARTNERS FOR SMART THINKING
AND CREATIVE STRATEGIES

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July 13, 2006

Ms. Becky Basch
Assistant Director
Southern Windsor County Regional Planning Commission
Ascutney Professional Building, Route 5 South
P.O. Box 320
Ascutney, VT 05030

Re: Phase II Environmental Site Assessment Report
Proctorsville Village Property, Cavendish, Vermont
JCO Project No. 3-1928-4

Dear Ms. Basch:

The Johnson Company is pleased to present the following Phase II Environmental Site Assessment Report to the Southern Windsor County Regional Planning Commission (SWCRPC). This report discusses the findings of the assessment, which included soil and groundwater sampling. This report is intended to provide information pertaining to subsurface contamination at the Proctorsville site for the purpose of understanding its potential impact on future redevelopment activities.

We trust that this report satisfies the current needs of the SWCRPC. Should you have any questions or require additional assistance, please do not hesitate to contact us at 229-4600. Thank you for the opportunity to be of assistance to the SWCRPC on this project.

Sincerely,

THE JOHNSON COMPANY, INC.

By: Rhonda Kay
Rhonda T. Kay
Project Engineer

By:
Chad R. Farrell, P.E.
Senior Project Engineer

C: Patricia Coppolino, VT DEC
Alan Peterson, US EPA

Attachment

K:\3-1928-4\Proctorsville\Investigation\Proctorsville Report 7-13-06.doc

EXECUTIVE SUMMARY

The Johnson Company was contracted by the Southern Windsor County Regional Planning Commission (SWCRPC) of Ascutney, Vermont to perform Phase II Environmental Site Assessment (ESA) activities at the Proctorsville Village Property on the southwest portion of parcel 151 between the railroad tracks and Vermont Route 131 in Cavendish, Vermont (the Site). The Site, which comprises approximately 0.6 acres, is currently owned by the Town of Cavendish. The SWCRPC is utilizing U.S. Environmental Protection Agency (EPA) grant money to assess environmental conditions at the Site and, thus, assist in its redevelopment. The Phase II ESA follows a Phase I ESA of the Site completed by ATC Associates of Richmond, Vermont (ATC) in January, 2006. The Phase II Environmental Site Assessment included sampling shallow soil for SVOCs and metals, screening deep soils for VOCs, and sampling groundwater for VOCs, metals and SVOCs. The results of the investigation are summarized below.

Shallow Soil Investigation

Surficial soils in the vicinity of the former rail spur that crossed the Site were found to contain concentrations of several PAH compounds that exceed the Region 9 Residential PRG thresholds. Visual evidence of coal and/or charcoal in the soil samples indicates that the source of these slightly elevated PAH levels has been discovered. Laboratory results indicated that no elevated concentrations of priority pollutant metals were present in the vicinity of the former rail spur with the exception of arsenic. As arsenic is a common constituent of coal, the slightly elevated levels detected in the soil samples are also likely attributable to the same source as the PAHs.

Deep Soil Investigation Results

Although it is apparent that fill has been used in several areas of the Site, no visual or olfactory evidence was observed of petroleum or hazardous materials (including coal) releases in the deeper soils investigated at the Site. Screening for VOCs using a calibrated PID also supported these observations, and it therefore can be concluded that it is unlikely that widespread petroleum or other volatile compound contamination is present at the Site.

Groundwater Sampling Results

The direction of groundwater flow was determined to generally be to the east-southeast. Therefore impacts from the fuel leaks at the Cota and Cota facility and activities at the former woolen mill building are not likely to be observed in groundwater at the Site. No detectable VOCs were reported in any groundwater samples, and metals concentrations were well below regulatory standards. On March 29, 2006 one PAH compound (benzo(a)pyrene) was detected in groundwater at a concentration equaling its VGES criterion at one well, MW-4, which is located in the approximate location of the former rail spur. In an additional sample collected from this well on June 15, 2006, the concentration of benzo(a)pyrene was detected at 0.7 ug/L, which exceeds the VGES criterion of 0.2 ug/L. The presence of this SVOC compound is likely related to the presence of slightly elevated PAHs in surficial soils surrounding this well, which are likely caused by spills of coal or filling activities that moved coal into the area.

Recommendations

Future redevelopment plans for this Site are reportedly likely to include residential buildings. Based on the findings of this Phase II Environmental Site Assessment, the following actions are recommended.

- Surficial soils in the vicinity of the former rail spur may present a slight risk to human health due to slightly elevated PAH concentrations. Additionally, these soils appear to be causing a slight impact to the groundwater in the center of the Site. Due to this finding, it is likely that the VT DEC will require that the soils affected by coal spillage be removed or remediated to mitigate present and potential future groundwater contamination. As such, a Corrective Action Plan detailing the options for remediation and/or risk management with respect to these soils should be generated and submitted to the VT DEC.

- Due to the presence of benzo(a)pyrene at a concentration that exceeds the VGES in groundwater at the center of the Site, future buildings at the Site should be connected to the Town of Cavendish water supply, and groundwater below the Site should not be used as a source for potable water. A notice to the Town of Cavendish land records should be filed describing this institutional control to ensure that future development will account for environmental conditions at the Site.

- No future groundwater sampling is recommended; therefore all groundwater monitoring wells at the Site should be decommissioned in accordance with the Vermont Environmental Protection Rule: Chapter 21, Water Supply Rule, Part 12.3.5 (VTDEC, 2005). The wells should be completely filled with grout to prevent the contamination of ground or surface water resources, and to avoid potential risk to human health.

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1.0 INTRODUCTION

1.1 BACKGROUND

The Johnson Company was contracted by the Southern Windsor County Regional Planning Commission (SWCRPC) of Ascutney, Vermont to perform Phase II Environmental Site Assessment (ESA) activities at the Proctorsville Village Property. This property is located on the southwest portion of parcel 151 on the Village Green Road between the railroad tracks and Vermont Route 131 in Cavendish, Vermont (the Site, see Figure 1 and Figure 2). The Site, which comprises approximately 0.6 acres, is currently owned by the Town of Cavendish. The SWCRPC is utilizing U.S. Environmental Protection Agency (EPA) grant money to assess environmental conditions at the Site and, thus, assist in its redevelopment.

A Phase I ESA was completed by ATC Associates of Richmond, Vermont (ATC) in January, 2006. The following summaries of historical site usage and issues of environmental significance were generated following review of information provided in ATC's Phase I ESA report.

The Phase I ESA indicated that the Site does not appear to have been subject to historical development, and the only improvement to the Site appears to have been a railroad spur that roughly bisected the Site and was reportedly removed in the past 10 years. The ESA mentions that ground contamination is common in the vicinity of railroads; however this issue is not identified as a recognized environmental condition. The report also includes as supporting material a report detailing a test pit investigation that occurred on the properties to the north and northeast of the Site. During the test pit investigation, it was discovered that a canal that supplied water to the power generation mill for the former woolen mill on the northeasterly abutting parcel to the Site had been filled with material that included building debris, automotive parts, discarded drums and putrescent waste. The edge of the canal was formerly located approximately 55 feet north of the northern edge of the subject Site. Mr. Richard Svec, Town of Cavendish Manager, stated that he was present during the test pit investigation, and that the wastes described in some of the test pits were not characteristic of the majority of the fill, which

he described as clean soil. He indicated that the waste items were more likely present because they were thrown or dumped into the canal before it was filled. The possible contents of the canal were not identified as a cause for potential concern in the Phase I, but it was considered possible that this material may have impacted subsurface conditions at the Site.

Recognized environmental concerns were noted for the Site by ATC with respect to two potentially upgradient properties. These properties include a Cota and Cota bulk petroleum facility and the former woolen mill, as shown on Figure 2. The Cota and Cota facility is listed on the State of Vermont Hazardous Waste Site list for subsurface impacts related to two former leaking underground storage tanks (USTs) containing fuel oil and kerosene, respectively. Information presented in the Phase I ESA indicates that groundwater from the Cota and Cota property flows in a southeasterly direction. The Phase I report indicates that this groundwater flow direction may result in movement of the plume directly toward the subject Site; however, maps prepared for this report indicate that only a very small corner of the Site may be located downgradient of the former tanks. ATC also indicated that it does not appear that the downgradient extent of the plume has been identified. The second off-site source of environmental concern that is identified as a REC in the Phase I ESA is the former presence of buildings on the northeastern abutting property that were reportedly used as a woolen mill from approximately 1836 until approximately 1938 and as a manufacturing facility from approximately 1938 until approximately 1982. Manufacturing processes reportedly included cable spool manufacturing and loudspeaker assembly operations.

As it is part of a recent village green development, the Site will likely be targeted for residential or commercial reuse. According to Mr. Svec, the construction of buildings on the Site would require the addition of fill to increase the elevation of the entire property because the Site is currently in the floodplain. Although there are currently no water or sewer services at the Site, new buildings would be connected to Town of Cavendish municipal water and sewer utilities.

1.2 SITE LAYOUT

The Proctorsville Site is composed of an approximately 0.6 acre vacant portion of parcel 151 located on the southwest corner of the Village Green Road, which defines the perimeter of the recently created Proctorsville Village Green. A new multi-family housing unit to the north is also located on Parcel 151, but was not part of the study area. A former store, currently under renovation, is present on the abutting property to the east. A portion of the property to the west of the Site has recently been filled to raise the ground surface above the floodplain, as has the extreme northwestern side of the Site, which is approximately five feet higher than the remainder of the Site. A stormwater drainage swale crosses the Site at the toe of the filled area, as shown on Figure 3. The discharge pipe to the drainage swale is connected to a stormwater grate in the parking area immediately to the northeast of the Site. The grass in the swale did not appear to be stressed and no evidence of staining on the soil or vegetation was observed. The swale slopes slightly to the southwest and discharges to the tree-lined western edge of the Site. The southern edge of the Site abuts the railroad tracks and associated right-of-way.

2.0 METHODOLOGY

The scope of services completed by The Johnson Company for this Phase II ESA included shallow soil sampling for semi-volatile organic compounds (SVOCs) and metals; screening of deep soil samples for volatile organic compounds (VOCs); installation of groundwater monitoring wells; and groundwater sampling for VOCs, SVOCs and metals. The investigation was designed to assess conditions across the entire Site, with particular focus on the northern boundary of the Site to determine the potential impact from the canal fill, the woolen mill, and the leaking petroleum USTs to the northeast, and on the area surrounding the former rail spur, which was reportedly formerly used for coal delivery. Details pertaining to the methodology for each element of the ESA are included in the following sections.

2.1 SHALLOW SOIL INVESTIGATION

In advance of the field work, Mr. Svec, the Cavendish Town Manager, identified the approximate location of the rail spur that previously crossed through the approximate center of the property. The spur was reportedly used to deliver coal to the woolen mill on the northeasterly adjacent property. On March 29, 2006 four (4) surficial soil samples were

collected by The Johnson Company in the vicinity of the former rail spur to evaluate the potential presence of contaminants related to the use of this spur such as semi-volatile organic compounds (including polynuclear aromatic hydrocarbons, or PAHs) and heavy metals. The shallow soil sampling locations are shown in Figure 3. A hand auger was used to collect soil samples between the surface and a depth of approximately one foot. Soils from each location were then thoroughly mixed in a stainless steel bucket and a sample of each composite was submitted to Eastern Analytical, Inc. of Concord, New Hampshire for analysis of SVOCs via EPA Method 8270C and the 13 priority pollutant metals via EPA Method 6020. The priority pollutant metals group comprises antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc. Samples were transported to EAI using chain of custody protocol in chilled coolers.

2.2 DEEP SOIL INVESTIGATION

Historical information about the Site indicates that there were relatively few avenues for soil contamination at the Site, due to limited access to the Site resulting from the locations of the former buildings and canal. As a result, investigation of deep soils was limited to screening-level analysis for VOCs in soils in the locations of the proposed groundwater monitoring wells. On March 27, 2006 deep soil borings were advanced at six (6) locations on the Site using The Johnson Company's A300 Ingersoll Rand truck-mounted drill rig (see Figure 3). Three (3) of these soil borings were located along the northern property line to provide an indication of potential contaminant impact from suspected off-site sources on the northern and northeastern abutting properties. One (1) additional boring was placed in the approximate center of the Site, and two (2) borings were advanced near the southern edge of the Site near the railroad tracks. Soils were collected from the cores at five foot intervals and screened for VOCs using a calibrated Thermo Environmental Instruments Model 580B photoionization detector (PID).

2.3 GROUNDWATER QUALITY INVESTIGATION

As indicated above, due to the lack of historical development at the Site, it was considered likely that subsurface conditions at the Site may have been more significantly affected by off-site influences than on-site uses. Given the Site's proximity to the Black River, it was considered to potentially be located downgradient of previously identified groundwater

contaminant sources, such as the former Cota and Cota property and the filled canal. In order to provide a broadly based characterization of groundwater conditions at the Site, each of the six deep soil borings were completed with a groundwater monitoring well on March 27, 2006 (boring/well locations are shown on Figure 3). All wells were constructed of one (1) inch polyvinyl chloride (PVC) casing and factory-made screens. On the higher elevation portion of the property, ten foot screens were installed whereas on the lower portion hard till was encountered at shallower depths and eight foot screens were adequate for sampling below the water table. Wells were completed with a sand pack up to at least two (2) feet above the top of the screen, and hydrated bentonite chips were placed in the annular space above the sand. Immediately after installation, all wells were developed by removing approximately three to five well volumes with a peristaltic pump. As the exact nature of potential impacts to the Site was not completely understood, groundwater samples were analyzed for VOCs, SVOCs and metals. Depth to groundwater was measured in each well on March 29, 2006 before sampling was initiated to characterize groundwater flow direction for the Site.

On March 29, 2006, VOC and metals samples were collected by the slow purge sampling method, via a peristaltic pump and dedicated PFTE tubing. These samples were submitted to EAI for analysis of VOCs via EPA Method 8260B and the 13 priority pollutant metals via EPA Method 6020. SVOC samples were collected using a stainless steel bailer that was decontaminated between wells. The use of tubing in collection of the SVOC sample was avoided in an effort to minimize the introduction of certain SVOCs into the sample that are common in the manufacturing of softened plastics and therefore may be present in tubing. The collection of SVOC samples occurred after the slow purge sampling was completed, which ensured that groundwater, rather than standing water, was collected. These samples were submitted to EAI for analysis of SVOCs via EPA Method 8270C. All groundwater samples, in addition to duplicates for each analysis and one trip blank, were prepared for transport in a chilled cooler using chain of custody protocol.

Based on the results of the initial groundwater sampling, the VT DEC requested the collection and analysis of a subsequent groundwater sample from the MW-4 well. Purging and sampling was performed using a decontaminated stainless steel bailer. A total of three well volumes were removed from the well before sampling. The sample was placed in a chilled cooler with a chain of custody and sent to EAI for analysis of PAHs via EPA Method 8270C.

3.0 RESULTS

3.1 SHALLOW SOIL INVESTIGATION RESULTS

The shallow soils in the vicinity of the former rail spur were covered with a mixture of short and tall grasses, with no observable signs of staining or stressed vegetation. However, at a depth of approximately six inches below ground surface, some small pieces of coal and/or charcoal were observed in the topsoil in three of the four shallow borings (SS-1, SS-2 and SS-3). Evidence of coal and other visible contamination was not observed in the SS-4 sample, which was in the southeastern quadrant of the soil sampling area. A summary of shallow soil SVOC analytical results is provided in Table 1, and results for compounds with concentrations that exceeded EPA Region 9 Residential PRGs are illustrated on Figure 5. Consistent with the field observations, PAH compounds were detected in all samples, with the lowest levels in the SS-4 sample. In all samples except SS-4, benzo(a)pyrene concentrations exceeded the Region 9 Residential PRG of 62 ug/kg (SS-1, 2100 ug/kg; SS-2, 2500 ug/kg; and SS-3, 300 ug/kg). The residential PRG thresholds are 620 ug/kg for both benzo(a)anthracene and benzo(b)fluoranthene, and these thresholds were exceeded in both SS-1 (2,300 ug/kg and 4,200 ug/kg, respectively) and SS-2 (3,200 ug/kg and 4,800 ug/kg, respectively). The residential threshold for ideno(1,2,3-cd)pyrene of 620 ug/kg was also exceeded in the SS-2 sample (700 ug/kg). It should be noted that the EPA Region 9 Residential PRG thresholds for benzo(a)pyrene and dibenz(a,h)anthracene are both 62 ug/kg, and that the laboratory minimum reporting limit of 200 ug/kg for each analysis exceeds the thresholds. As a result, it is possible that these constituents may be present above the thresholds in SW-4; however, based on the results of other PAH analytes which were either not above detection limits or very low, it is unlikely that the levels of benzo(a)pyrene and

Laboratory analytical results for metals in the shallow soil samples are provided in Table 2 and Residential PRG exceedences are shown on Figure 5. Arsenic concentrations in all

samples were greater than the Region 9 Residential PRG of 0.39 mg/g and were found to range from 4.9 to 11 mg/kg. It should be noted that these concentrations fall within the range of naturally-occurring soil concentrations of approximately 1 to 50 mg/kg as published by many researchers (Dragun, 1988; Shacklette and Boerngen, 1984; EPA, 1983). No other metals concentrations exceeded the Region 9 Residential PRG thresholds.

3.2 DEEP SOIL INVESTIGATION RESULTS

Soil borings were advanced to 20 feet below ground surface (bgs) in the MW-1 boring, to 15 feet bgs in the MW-2 boring, and to ten (10) feet bgs in all remaining borings (MW-3 through MW-6). Soils on the Site generally consisted of dense till or marble overlaid by sand with silt and gravel, with near surface fill and topsoil. The higher elevation portion of the property near the multiple unit housing building appears to have been built up with at least five feet of various sandy fill, while the parts of the lower portion may also contain several feet of fill. Soils from each five foot boring interval were screened using a PID calibrated to a 100 ppm isobutylene standard. All of the PID readings ranged between 0 and 1 ppmV (as shown on the monitoring well logs provided in Appendix 1), and therefore may be considered "clean" with respect to VOCs. Also, there was no evidence of sheens, staining or odors indicative of spills or releases of hazardous materials or petroleum products observed in any of the deep soil borings.

3.3 GROUNDWATER SAMPLING

3.3.1 Groundwater Elevations

Depth to groundwater was measured in all wells on March 29, 2006. A summary of these data is provided in Table 3, and an associated groundwater contour map is included as Figure 4. All groundwater elevations are relative to an unnamed, arbitrary site datum established by Environmental Compliance Services (ECS) during their 1998 Site Investigation at the Cota and Cota property, which included installation of three monitoring wells (one of which is still intact) (ECS, 1998). The depth to groundwater in the intact ECS well, named ECS-2 for the purposes of this investigation, was also measured on March 29, 2006. The groundwater flow direction in this March, 2006 measurement is generally to the east-southeast, toward a bend in the Black River.

3.2.2 *Groundwater VOC Results*

A summary of laboratory VOC concentrations are included in Table 4. No VOCs were detected above laboratory Practical Quantitation Limits in the March, 2006 samples.

3.2.3 *Groundwater Metals Results*

The laboratory analytical metals results are provided in Table 5. In all wells sampled, detectable concentrations of metals were measured at levels at or only slightly above the laboratory reporting limit. There were no exceedences of VGES standards in any of the wells sampled.

3.2.4 *Groundwater SVOC Results*

Laboratory analytical SVOC results are summarized in Table 6. In all wells, only compounds in the PAH group of SVOCs were detected at levels at or exceeding laboratory reporting limits. Of these detections, none exceeded the VGES criteria with the following exception: the benzo(a)pyrene concentration in the MW-4 groundwater sample equaled the VGES standard of 0.2 ug/L on March 29, 2006 and exceeded the standard with a detected concentration of 0.7 ug/L on June 15, 2006 (as shown on Figure 5).

4.0 CONCLUSIONS

The Phase II Environmental Site Assessment included sampling shallow soil for SVOCs and metals, screening deep soils for VOCs, and sampling groundwater for VOCs, metals and SVOCs. The results of the investigation are summarized below.

4.1 SHALLOW SOIL INVESTIGATION

Surficial soils in the vicinity of the former rail spur that crossed the Site were found to contain concentrations of several PAH compounds that exceed the Region 9 Residential PRG thresholds. Visual evidence of coal and/or charcoal in the soil samples indicates that the source of these slightly elevated PAH levels has been discovered. Laboratory results indicated that no elevated concentrations of priority pollutant metals were present in the vicinity of the former rail spur with the exception of arsenic. As arsenic is a common constituent of coal, the slightly elevated levels detected in the soil samples are also likely attributable to the same source as the PAHs.

4.2 DEEP SOIL INVESTIGATION RESULTS

Although it is apparent that fill has been used in several areas of the Site, no visual or olfactory evidence was observed of petroleum or hazardous materials (including coal) releases in the deeper soils investigated at the Site. Screening for VOCs using a calibrated PID also supported these observations, and it therefore can be concluded that it is unlikely that widespread petroleum or other volatile compound contamination is present at the Site.

4.3 GROUNDWATER SAMPLING RESULTS

The direction of groundwater flow was determined to generally be to the east-southeast. Therefore impacts from the fuel leaks at the Cota and Cota facility and activities at the former woolen mill building are not likely to be observed in groundwater at the Site. No detectable VOCs were reported in any groundwater samples, and metals concentrations were well below regulatory standards. On March 29, 2006 one PAH compound (benzo(a)pyrene) was detected in groundwater at a concentration equaling its VGES criterion at one well, MW-4, which is located in the approximate location of the former rail spur. In an additional sample collected from this well on June 15, 2006, the concentration of benzo(a)pyrene was detected at 0.7 ug/L, which exceeds the VGES criterion of 0.2 ug/L. The presence of this SVOC compound is likely related to the presence of slightly elevated PAHs in surficial soils surrounding this well, which are likely caused by spills of coal or filling activities that moved coal into the area.

5.0 RECOMMENDATIONS

Future redevelopment plans for this Site are reportedly likely to include residential buildings. Based on the findings of this Phase II Environmental Site Assessment, the following actions are recommended.

- Surficial soils in the vicinity of the former rail spur may present a slight risk to human health due to slightly elevated PAH concentrations. Additionally, these soils appear to be causing a slight impact to the groundwater in the center of the Site. Due to this finding, it is likely that the VT DEC will require that the soils affected by coal spillage be removed or remediated to mitigate present and potential future groundwater contamination. As such, a Corrective Action Plan detailing the options

for remediation and/or risk management with respect to these soils should be generated and submitted to the VT DEC.

- Due to the presence of benzo(a)pyrene at a concentration that exceeds the VGES in groundwater at the center of the Site, future buildings at the Site should be connected to the Town of Cavendish water supply, and groundwater below the Site should not be used as a source for potable water. A notice to the Town of Cavendish land records should be filed describing this institutional control to ensure that future development will account for environmental conditions at the Site.

- No future groundwater sampling is recommended; therefore all groundwater monitoring wells at the Site should be decommissioned in accordance with the Vermont Environmental Protection Rule: Chapter 21, Water Supply Rule, Part 12.3.5 (VTDEC, 2005). The wells should be completely filled with grout to prevent the contamination of ground or surface water resources, and to avoid potential risk to human health.

6.0 LIMITATIONS

This information is intended for the sole use of the Southern Windsor County Regional Planning Commission and its assigns for the specific purpose of documenting Site conditions at the Proctorsville Village Property on the southwest portion of parcel 151 on the Village Green Road in Proctorsville, Vermont. No other uses, expressed or implied, are warranted. The design of the investigation was based on sound scientific techniques and experience with similar investigations. However, the conclusions of this assessment are based on limited information. Should additional information become available pertaining to environmental concerns, The Johnson Company reserves the right to re-evaluate conclusions made herein.

The conclusions of this report were derived from information provided to The Johnson Company from the following sources: the U.S. EPA; the Southern Windsor County Regional Planning Commission; the Town of Cavendish; Eastern Analytical Incorporated; the ATC's Phase I ESA report for the Site; and the ECS Site Investigation Report for the Cota and Cota

property. Independent verification of the work performed by others was not always possible; therefore its accuracy and reliability cannot be warranted.

This Report was prepared pursuant to an Agreement between the Southern Windsor County Regional Planning Commission and The Johnson Company dated March 3, 2006. All uses of this Report are subject to the conditions and restrictions contained in the Agreement. The observations and investigations described in this Report are based solely on the Scope of Services provided pursuant to the Agreement and subsequent amendments. The Johnson Company has not performed any additional observations, investigations, studies or other testing not specified in the Agreement or subsequent amendments. The Johnson Company shall not be liable for the existence of any condition the discovery of which would have required the performance of services not authorized under the Agreement. This work has been undertaken in accordance with generally accepted consulting practices. No other warranty, expressed or implied, is made.

This Report reflects Site conditions observed and described by records available to The Johnson Company as of the date of report preparation. The passage of time may result in significant changes in Site conditions, technology, or economic conditions, which could alter the findings and/or recommendations of the Report. Accordingly, the Client (Southern Windsor County Regional Planning Commission) and any other party to whom the Report is provided recognize and agree that The Johnson Company shall bear no liability for deviations from observed conditions or available records after the time of Report preparation.

7.0 REFERENCES

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TABLES

Table 1. Shallow Soil Borings- Laboratory SVOC Results
Proctorsville, VT (All results in ug/kg)
JCO Project No. 3-1928-4

Sample	Region 9 Residential	SS-1		SS-2		SS-3		SS-4	
Sample Date	PRG	3/29/2006		3/29/2006		3/29/2006		3/29/2006	
Sample Depth	(ug/kg)	0-1'		0-1'		0-1'		0-1'	
Phenol	16,000,000	U	200	U	200	U	200	U	200
2-Chlorophenol	63,000	U	200	U	200	U	200	U	200
2,4-Dichlorophenol	180,000	U	200	U	200	U	200	U	200
2,4,5-Trichlorophenol	6,100,000	U	200	U	200	U	200	U	200
2,4,6-Trichlorophenol	6,100	U	200	U	200	U	200	U	200
Pentachlorophenol	3,000	U	1000	U	1000	U	1000	U	1000
2-Nitrophenol		U	200	U	200	U	200	U	200
4-Nitrophenol		U	200	U	200	U	200	U	200
2,4-Dinitrophenol	120,000	U	1000	U	1000	U	1000	U	1000
2-Methylphenol	3,100,000	U	200	U	200	U	200	U	200
3/4-Methylphenol		U	200	U	200	U	200	U	200
2,4-Dimethylphenol	1,200,000	U	200	U	200	U	200	U	200
4-Chloro-3-methylphenol		U	200	U	200	U	200	U	200
4,6-Dinitro-2-methylphenol		U	1000	U	1000	U	1000	U	1000
Benzoic Acid	100,000,000	U	1000	U	1000	U	1000	U	1000
N-Nitrosodimethylamine	10	U	200	U	200	U	200	U	200
n-Nitroso-di-n-propylamine	69	U	200	U	200	U	200	U	200
bis(2-Chloroethyl)ether	220	U	200	U	200	U	200	U	200
bis(2-chloroisopropyl)ether	2,900	U	200	U	200	U	200	U	200
bis(3-Chloroethoxy)methane		U	200	U	200	U	200	U	200
1,3-Dichlorobenzene	520,000	U	200	U	200	U	200	U	200
1,4-Dichlorobenzene	3,400	U	200	U	200	U	200	U	200
1,2-Dichlorobenzene	600,000	U	200	U	200	U	200	U	200
1,2,4-Trichlorobenzene	62,000	U	200	U	200	U	200	U	200
2-Chloronaphthalene		U	200	U	200	U	200	U	200
4-Chlorophenyl-phenylether		U	200	U	200	U	200	U	200
4-Bromophenyl-phenylether		U	200	U	200	U	200	U	200
Hexachloroethane	35,000	U	200	U	200	U	200	U	200
Hexachlorobutadiene	6,200	U	200	U	200	U	200	U	200
Hexachlorocyclopentadiene	370,000	U	1000	U	1000	U	1000	U	1000
Hexachlorobenzene	300	U	200	U	200	U	200	U	200
4-Chloroaniline	240,000	U	200	U	200	U	200	U	200
2-Nitroaniline	180,000	U	200	U	200	U	200	U	200
3-Nitroaniline	18,000	U	200	U	200	U	200	U	200
4-Nitroaniline	23,000	U	200	U	200	U	200	U	200
Benzyl alcohol	18,000,000	U	200	U	200	U	200	U	200
Nitrobenzene	20,000	U	200	U	200	U	200	U	200
Isophorone	510,000	U	200	U	200	U	200	U	200
2,4-Dinitrotoluene	120,000	U	200	U	200	U	200	U	200
2,6-Dinitrotoluene	61,000	U	200	U	200	U	200	U	200
Benzidine	2.1	U	200	U	200	U	200	U	200
3,3'-Dichlorobenzidine	1,100	U	200	U	200	U	200	U	200
Pyridine	61,000	U	200	U	200	U	200	U	200
Azobenzene	4,400	U	200	U	200	U	200	U	200
Carbazole	24,000		300		500	U	200	U	200
Dimethylphthalate	100,000,000	U	200	U	200	U	200	U	200
Diethylphthalate	49,000,000	U	200	U	200	U	200	U	200
Di-n-butylphthalate		U	500	U	500	U	500	U	500

Bold/Shaded = Result exceeds Region 9 Residential PRG threshold

Table 1. Shallow Soil Borings- Laboratory SVOC Results
Proctorsville, VT (All results in ug/kg)
JCO Project No. 3-1928-4

Sample	Region 9 Residential PRG	SS-1		SS-2		SS-3		SS-4	
Sample Date		3/29/2006		3/29/2006		3/29/2006		3/29/2006	
Sample Depth	(ug/kg)	0-1'		0-1'		0-1'		0-1'	
Butylbenzylphthalate	12,000,000	U	200	U	200	U	200	U	200
bis(2-Ethylhexyl)phthalate	35,000		300		300	U	200	U	200
Di-n-octylphthalate	2,400,000	U	200	U	200	U	200	U	200
Dibenzofuran	150,000	U	200	U	200	U	200	U	200
Naphthalene	56,000	U	200	U	200	U	200	U	200
2-Methylnaphthalene		U	200	U	200	U	200	U	200
Acenaphthylene			300		500	U	200	U	200
Acenaphthene	3,700,000		200	U	200	U	200	U	200
Fluorene	2,700,000		300	U	200	U	200	U	200
Phenanthrene			2100		2800		200	U	200
Anthracene	3,700,000		800		500	U	200	U	200
Fluoranthene	2,300,000		4400		7900		700		300
Pyrene	2,300,000		4000		5300		500		200
Benzo(a)anthracene	620		**2300**		**3200**		300	U	200
Chrysene	62,000		2800		3700		400	U	200
Benzo(b)fluoranthene	620		**4200**		**4800**		500		200
Benzo(k)fluoranthene	6,200		1500		2600	U	200	U	200
Benzo(a)pyrene	62		**2100**		**2500**		**300**	U	200
Ideno(1,2,3-cd)pyrene	620		500		**700**	U	200	U	200
Dibenz(a,h)anthracene	62	U	200	U	200	U	200	U	200
Benzo(g,h,i)perylene			400		500	U	200	U	200

Bold/Shaded = Result exceeds Region 9 Residential PRG threshold

Table 2. Shallow Soil Borings- Laboratory Metals Results
Proctorsville, VT (All results in mg/kg)
JCO Project No. 3-1928-4

Sample	Region 9 Residential PRG	SS-1		SS-2		SS-3		SS-4	
Sample Date		3/29/2006		3/29/2006		3/29/2006		3/29/2006	
Sample Depth	(mg/kg)	0-1'		0-1'		0-1'		0-1'	
Antimony	31	U	0.5	U	0.5	U	0.5	U	0.5
Arsenic	0.39		**6.3**		**8.0**		**11**		**4.9**
Beryllium	150	U	0.5	U	0.5	U	0.5	U	0.5
Cadmium	37	U	0.5	U	0.5	U	0.5	U	0.5
Chromium	210		25		28		20		20
Copper	3,100		54		63		36		37
Lead	400		79		130		36		28
Mercury	23		0.3		0.5		0.2		0.2
Nickel	1,600		12		14		11		11
Selenium	390	U	0.5	U	0.5	U	0.5	U	0.5
Silver	390	U	0.5	U	0.5	U	0.5	U	0.5
Thallium	5.2	U	0.5	U	0.5	U	0.5	U	0.5
Zinc	23,000		110		80		44		45

U = Parameter not detected above laboratory detection limit
Bold/Shaded = Result exceeds Region 9 Residential PRG threshold

Table 3. Groundwater- Water Table Elevations
Proctorsville, VT
JCO Project No. 3-1928-4

Location	GPS Coordinates (m, VT State Plane)		TOC* Elevation (ft AMSL)	Depth to Groundwater BTOC (ft)	Groundwater Elevation (ft AMSL)
	Easting	Northing		3/29/2006	3/29/2006
MW-1	488728.1	97949.3	91.79	10.68	81.11
MW-2	488740.2	97956.7	91.72	10.74	80.98
MW-3	488749.7	97949.6	87.33	6.86	80.47
MW-4	488752.7	97931.2	86.33	5.77	80.56
MW-5	488758.9	97906.3	86.28	5.74	80.54
MW-6	488777.1	97909.8	87.03	6.77	80.26
ECS-2	488730.5	97999.9	94.70	13.75	80.95

* = Elevations based on ECS-2 TOC elevation (arbitrary datum) provided in 1998 ECS Site Investigation Report
Elevation survey performed by The Johnson Company on March 29, 2006
GPS coordinates determined by The Johnson Company using a sub-meter GPS

Table 4. Groundwater- Laboratory VOC Results
Proctorsville, VT (All results in ug/L)
JCO Project No. 3-1928-4

Sample ID	VGES	MW-1		MW-1 Dup*		MW-2		MW-3		MW-4		MW-5		MW-6		Trip Blank	
Sample Date	(ug/L)	3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/14/2006	
Dichlorodifluoromethane	1000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Chloromethane	3	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Vinyl Chloride	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Bromomethane	10	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Chloroethane		U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Trichlorofluoromethane	2100	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Diethyl Ether		U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Acetone	700	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
1,1-Dichloroethene	7	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Methylene chloride	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Carbon Disulfide		U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
Methyl-t-Butyl Ether	40	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
trans-1,2-Dichloroethene	100	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloroethane	70	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2,2-Dichloropropane		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
cis-1,2-Dichloroethene	70	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
2-Butanone	4200	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
Bromochloromethane	90	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Tetrahydrofuran		U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
Chloroform		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1-Trichloroethane	200	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Carbon Tetrachloride	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1-Dichloropropene		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Benzene	5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2-Dichloroethane	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Trichloroethene	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dichloropropane	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromomethane		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Bromodichloromethane	90	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Methyl-2-pentanone		U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
cis-1,3-Dichloropropene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Toluene	1000	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
trans-1,3-Dichloropropene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,1,2-Trichloroethane	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2

* = Duplicate of MW-1 called MW-D
U = Parameter not detected above laboratory Practical Quantitation Limit
Bold/Shaded = Result meets or exceeds VGES
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Table 4. Groundwater- Laboratory VOC Results
Proctorsville, VT (All results in ug/L)
JCO Project No. 3-1928-4

Sample ID	VGES	MW-1		MW-1 Dup*		MW-2		MW-3		MW-4		MW-5		MW-6		Trip Blank	
Sample Date	(ug/L)	3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/14/2006	
2-Hexanone		U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10
Tetrachloroethene	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3-Dichloropropane		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Dibromochloromethane		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2-Dibromoethane		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Chlorobenzene	100	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,1,2-Tetrachloroethane	70	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Ethylbenzene	700	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Xylene (m,p)		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Xylene (o)		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Styrene	100	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Bromoform		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
Isopropylbenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Bromobenzene		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,1,2,2-Tetrachloroethane	70	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,2,3-Trichloropropane	5	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
n-Propylbenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
2-Chlorotoluene		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
4-Chlorotoluene		U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2
1,3,5-Trimethylbenzene	4	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
tert-Butylbenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2,4-Trimethylbenzene	5	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
sec-Butylbenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,3-Dichlorobenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
4-Isopropyltoluene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,4-Dichlorobenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2-Dichlorobenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
n-Butylbenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2-Dibromo-3-Chloropropane		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
1,2,4-Trichlorobenzene	70	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Hexachlorobutadiene	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Naphthalene	20	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5
1,2,3-Trichlorobenzene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1

* = Duplicate of MW-1 called MW-D
U = Parameter not detected above laboratory Practical Quantitation Limit
Bold/Shaded = Result meets or exceeds VGES
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Table 5. Groundwater- Laboratory Metals Results
Proctorsville, VT (All results in mg/L)
JCO Project No. 3-1928-4

Sample ID	VGES	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6		MW-1 DUP*	
Sample Date	(mg/L)	3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006	
Antimony	0.006	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
Arsenic	0.050		0.004		0.006	U	0.001		0.001	U	0.001	U	0.001		0.003
Beryllium	0.004	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
Cadmium	0.005	U	0.001	U	0.001	U	0.001	U	0.001		0.003	U	0.001	U	0.001
Chromium	0.10		0.004	U	0.001	U	0.001		0.005	U	0.001	U	0.001		0.002
Copper	1.3		0.013	U	0.001		0.002		0.004		0.002		0.001		0.003
Lead	0.015		0.007	U	0.001	U	0.001	U	0.001		0.001	U	0.001		0.002
Mercury	0.002	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001	U	0.0001
Nickel	0.100		0.007		0.002		0.007		0.015		0.008		0.003		0.002
Selenium	0.050	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
Silver	0.10	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
Thallium	0.002	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001
Zinc	5.0		0.012	U	0.005		0.066		0.026		0.057	U	0.005	U	0.005

* = Duplicate of MW-1 called MW-D
U = Parameter not detected above laboratory Practical Quantitation Limit
Bold/Shaded = Result meets or exceeds VGES
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Table 6. Groundwater- Laboratory SVOC Results
Proctorsville, VT (All results in ug/L)
JCO Project No. 3-1928-4

Sample ID	VGES	MW-1		MW-2		MW-2 DUP*		MW-3		MW-4		MW-4	MW-5		MW-6	
Sample Date	(ug/L)	3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		6/15/2006	3/29/2006		3/29/2006	
Phenol	2100.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
2-Chlorophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4-Dichlorophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4,5-Trichlorophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4,6-Trichlorophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Pentachlorophenol	1.0	U	5	U	5	U	5	U	5	U	5		U	5	U	5
2-Nitrophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Nitrophenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4-Dinitrophenol		U	5	U	5	U	5	U	5	U	5		U	5	U	5
2-Methylphenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4-Dimethylphenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Chloro-3-methylphenol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4,6-Dinitro-2-Methylphenol		U	5	U	5	U	5	U	5	U	5		U	5	U	5
Benzoic Acid	1	U	5	U	5	U	5	U	5	U	5		U	5	U	5
N-Nitrosodimethylamine		U	1	U	1	U	1	U	1	U	1		U	1	U	1
n-Nitroso-di-n-propylamine		U	1	U	1	U	1	U	1	U	1		U	1	U	1
n-Nitrosodiphenylamine		U	1	U	1	U	1	U	1	U	1		U	1	U	1
bis(2-Chloroethyl)ether		U	1	U	1	U	1	U	1	U	1		U	1	U	1
bis(2-chloroisopropyl)ether	300.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
bis(2-Chloroethoxy)methane		U	1	U	1	U	1	U	1	U	1		U	1	U	1
1,3-Dichlorobenzene	600.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
1,4-Dichlorobenzene	75.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
1,2-Dichlorobenzene	600.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
1,2,4-Trichlorobenzene	70.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
2-Chloronaphthalene		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Chloro-phenylether		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Bromophenyl-phenylether		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Hexachloroethane		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Hexachlorobutadiene	1.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
Hexachlorocyclopentadiene	50.0	U	5	U	5	U	5	U	5	U	5		U	5	U	5
Hexachlorobenzene	1.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Chloroaniline		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2-Nitroaniline		U	5	U	5	U	5	U	5	U	5		U	5	U	5
3-Nitroaniline		U	1	U	1	U	1	U	1	U	1		U	1	U	1
4-Nitroaniline		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Benzyl alcohol		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Nitrobenzene		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Isophorone	100.0	U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,4-Dinitrotoluene		U	1	U	1	U	1	U	1	U	1		U	1	U	1
2,6-Dinitrotoluene		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Benzidine		U	5	U	5	U	5	U	5	U	5		U	5	U	5
3,3'-Dichlorobenzidine		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Pyridine		U	5	U	5	U	5	U	5	U	5		U	5	U	5
Azobenzene		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Carbazole		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Dimethylphthalate		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Diethylphthalate		U	1	U	1	U	1	U	1	U	1		U	1	U	1
Di-n-butylphthalate		U	5	U	5	U	5	U	5	U	5		U	5	U	5
Butylbenzylphthalate		U	1	U	1	U	1	U	1	U	1		U	1	U	1

* = Duplicate of MW-2 called MW-A
U = Parameter not detected above laboratory Practical Quantitation Limit
Bold/Shaded = Result meets or exceeds VGES

Table 6. Groundwater- Laboratory SVOC Results
Proctorsville, VT (All results in ug/L)
JCO Project No. 3-1928-4

Sample ID	VGES	MW-1		MW-2		MW-2 DUP*		MW-3		MW-4		MW-4		MW-5		MW-6	
Sample Date	(ug/L)	3/29/2006		3/29/2006		3/29/2006		3/29/2006		3/29/2006		6/15/2006		3/29/2006		3/29/2006	
bis(2-Ethylhexyl)phthalate	6.0	U	5	U	5	U	5	U	5	U	5			U	5	U	5
Di-n-octylphthalate		U	1	U	1	U	1	U	1	U	1			U	1	U	1
Dibenzofuran		U	1	U	1	U	1	U	1	U	1			U	1	U	1
Naphthalene	20.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
2-Methylnaphthalene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Acenaphthalene		U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Fluorene	280.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Phenanthrene		U	1	U	1	U	1	U	1	U	1		2	U	1	U	1
Anthracene	2100.0	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1
Fluoranthene	280.0	U	1	U	1	U	1	U	1	U	1		2	U	1	U	1
Pyrene		U	1	U	1	U	1	U	1	U	1		2	U	1		1
Benzo(a)anthracene			0.1	U	0.1	U	0.1		0.1		0.3		0.8		0.1	U	0.1
Chrysene		U	0.1	U	0.1	U	0.1	U	0.1		0.2		0.6	U	0.1	U	0.1
Benzo(b)fluoranthene			0.1	U	0.1	U	0.1		0.1		0.2		0.7	U	0.1	U	0.1
Benzo(k)fluoranthene		U	0.1	U	0.1	U	0.1	U	0.1		0.1		0.4	U	0.1	U	0.1
Benzo(a)pyrene	0.2	U	0.1	U	0.1	U	0.1	U	0.1		**0.2**		**0.7**	U	0.1	U	0.1
Ideno(1,2,3-cd)pyrene		U	0.1	U	0.1	U	0.1	U	0.1	U	0.1		0.3	U	0.1	U	0.1
Dibenz(a,h)anthracene		U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	1	U	0.1	U	0.1
Benzo(g,h,i)perylene		U	0.1	U	0.1	U	0.1	U	0.1		0.1		0.3	U	0.1	U	0.1

* = Duplicate of MW-2 called MW-A
U = Parameter not detected above laboratory Practical Quantitation Limit
Bold/Shaded = Result meets or exceeds VGES
K:\3-1928-4\Proctorsville\Investigation\Pville Results SVOCs-GW

FIGURES

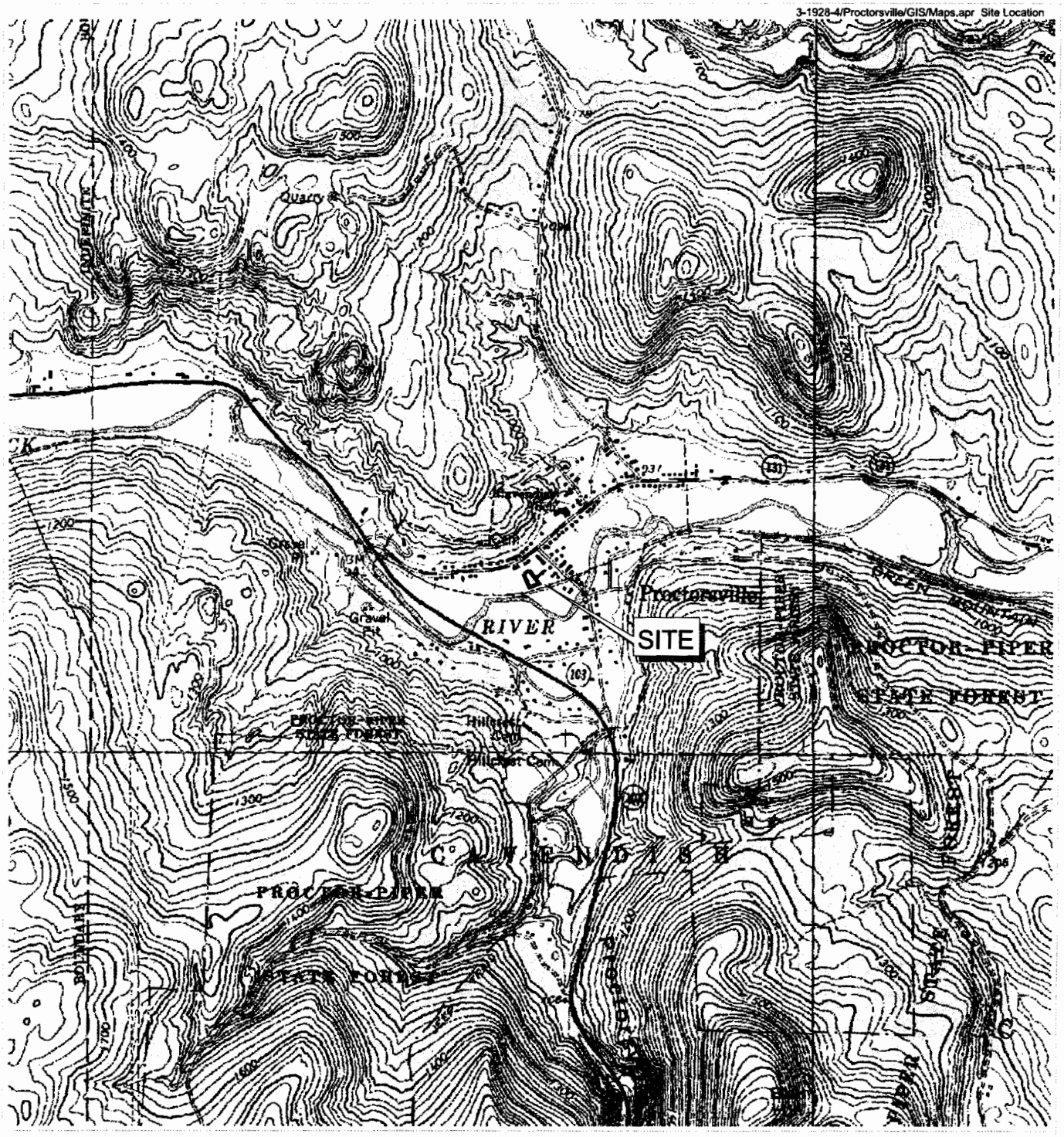


Figure 1. Site Location Map
Proctorsville Village Property
Cavendish, Vermont

THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VT 05602



Figure 2. Orthophoto of Site and Vicinity
Proctorsville Village Property
Cavendish, Vermont

THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VT 05602
DATE: 3/23/06 PROJECT: 3-1928-4
DRAWN BY: RTK SCALE: 1"=150'

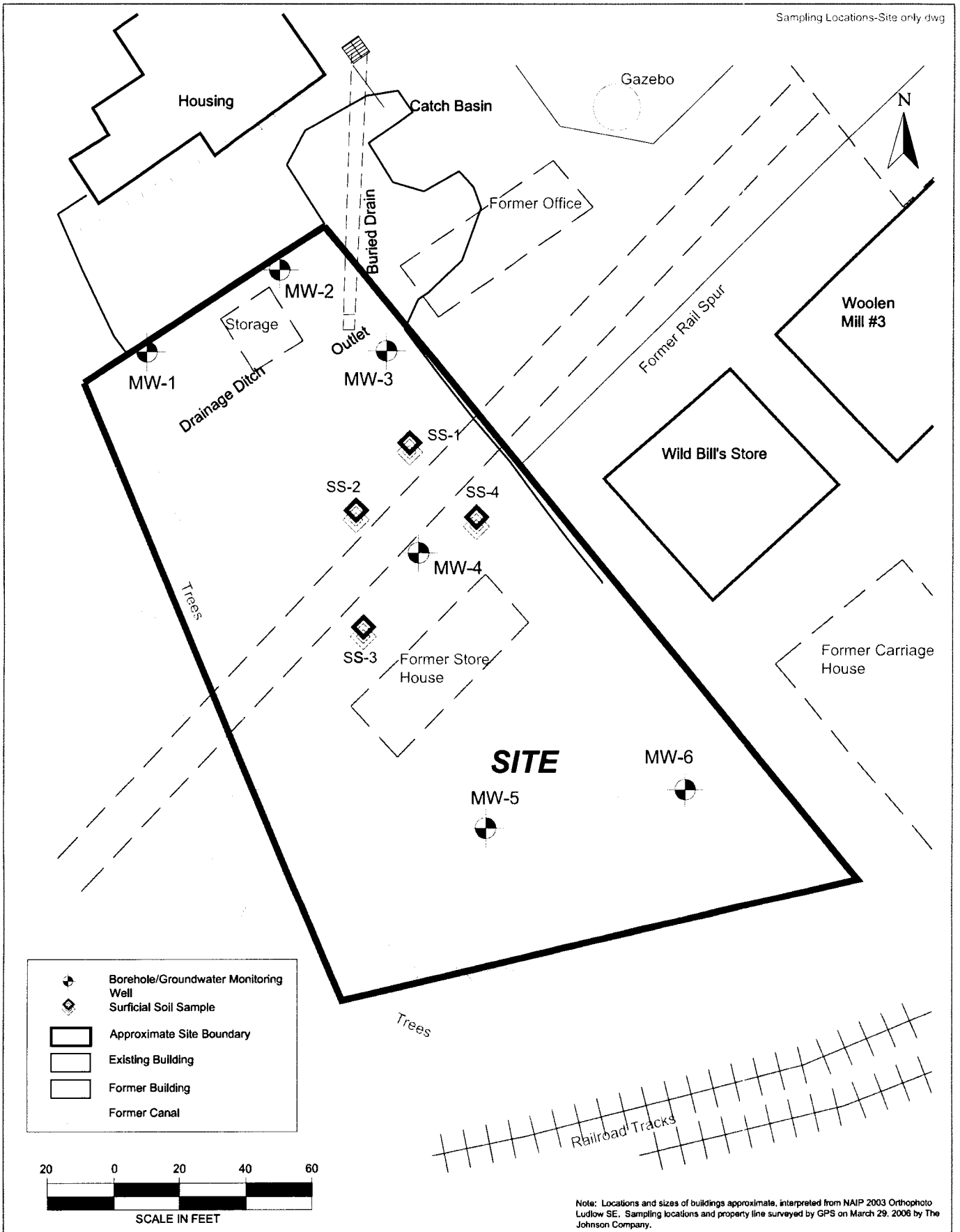
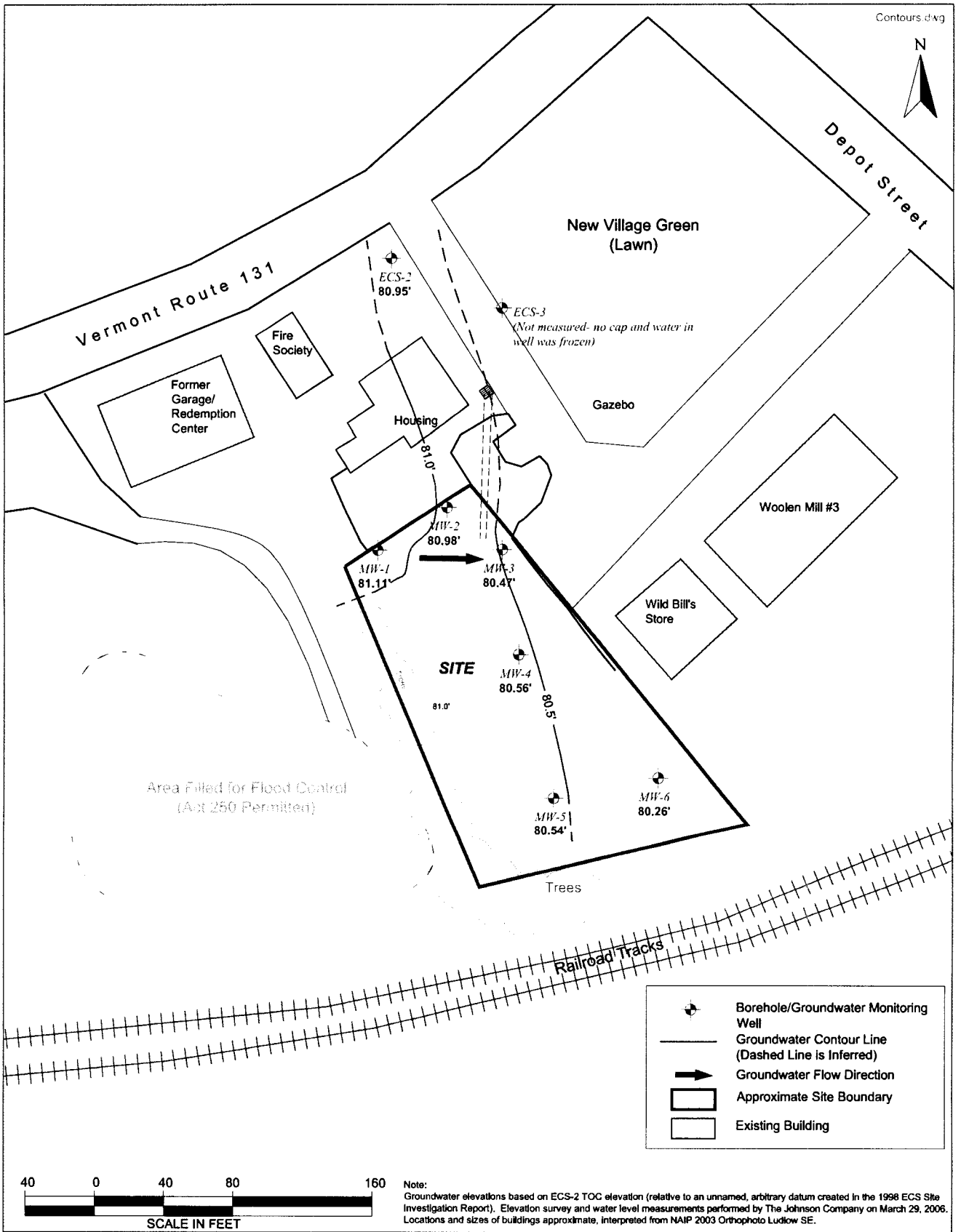


Figure 3. Sampling Locations
Proctorsville Village Property
Cavendish, Vermont

THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VT 05602

DATE: 4/14/06 PROJECT: 3-1928-4
DRAWN BY: RTK SCALE: 1"=40'

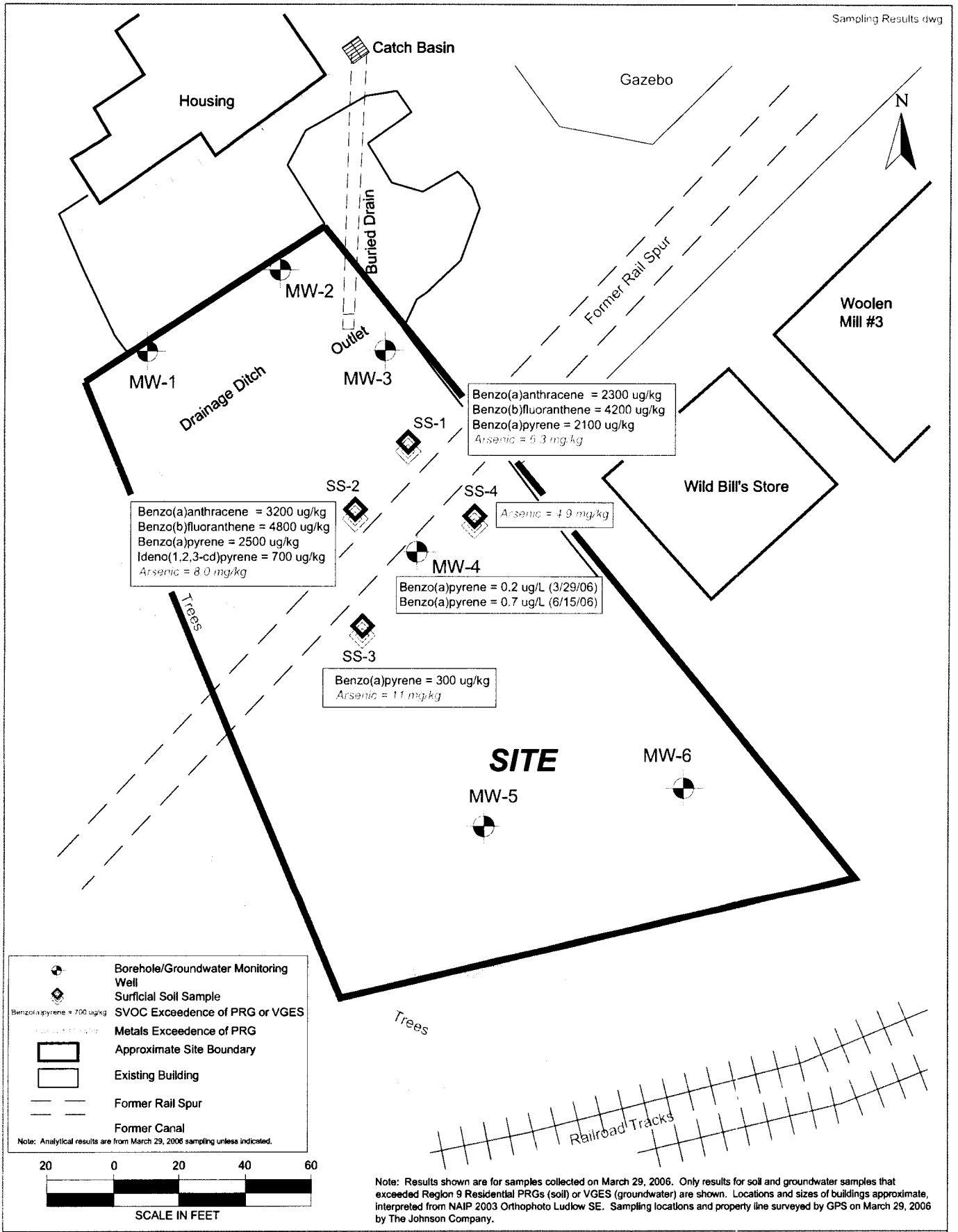


Note:
Groundwater elevations based on ECS-2 TOC elevation (relative to an unnamed, arbitrary datum created in the 1998 ECS Site Investigation Report). Elevation survey and water level measurements performed by The Johnson Company on March 29, 2006. Locations and sizes of buildings approximate, interpreted from NAIP 2003 Orthophoto Ludlow SE.

Figure 4. Groundwater Contour Map
Proctorsville Village Property
Cavendish, Vermont

THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VT 05602

DATE: 4/24/06 PROJECT: 3-1928-4
DRAWN BY: RTK SCALE: 1"=80'



Note: Results shown are for samples collected on March 29, 2006. Only results for soil and groundwater samples that exceeded Region 9 Residential PRGs (soil) or VGES (groundwater) are shown. Locations and sizes of buildings approximate, interpreted from NAIP 2003 Orthophoto Ludlow SE. Sampling locations and property line surveyed by GPS on March 29, 2006 by The Johnson Company.

Figure 5. Soil and Groundwater Sampling Results
Proctorsville Village Property
Cavendish, Vermont

THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VT 05602

DATE: 7/12/06 PROJECT: 3-1928-4
DRAWN BY: RTK SCALE: 1"=40'

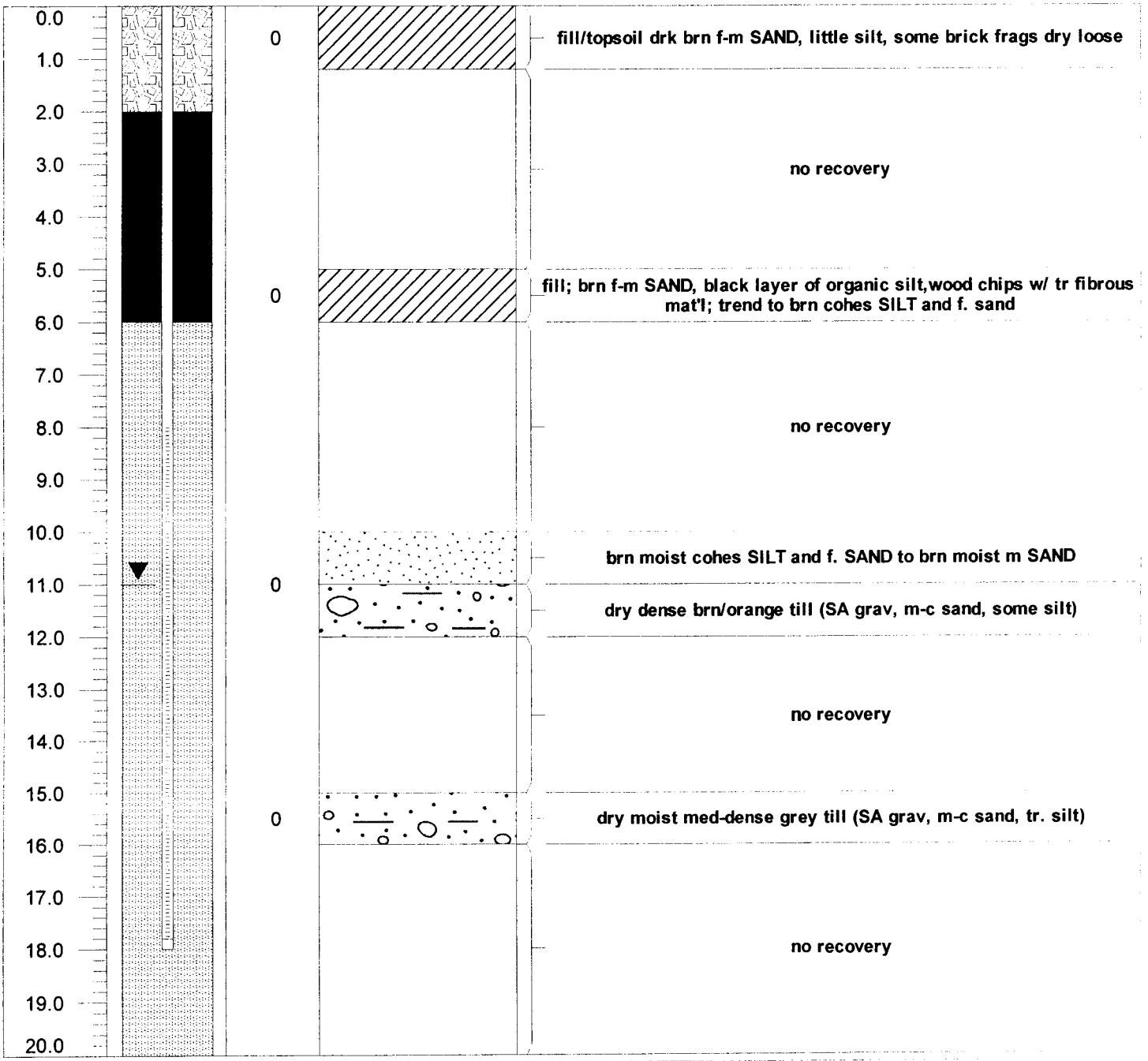
APPENDIX 1

MONITORING WELL CONSTRUCTION LOGS

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-1

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 91.79
Easting (m): 488728.1
Northing (m): 97949.3
Geologist: CRF



Drilling Date: 3/27/06

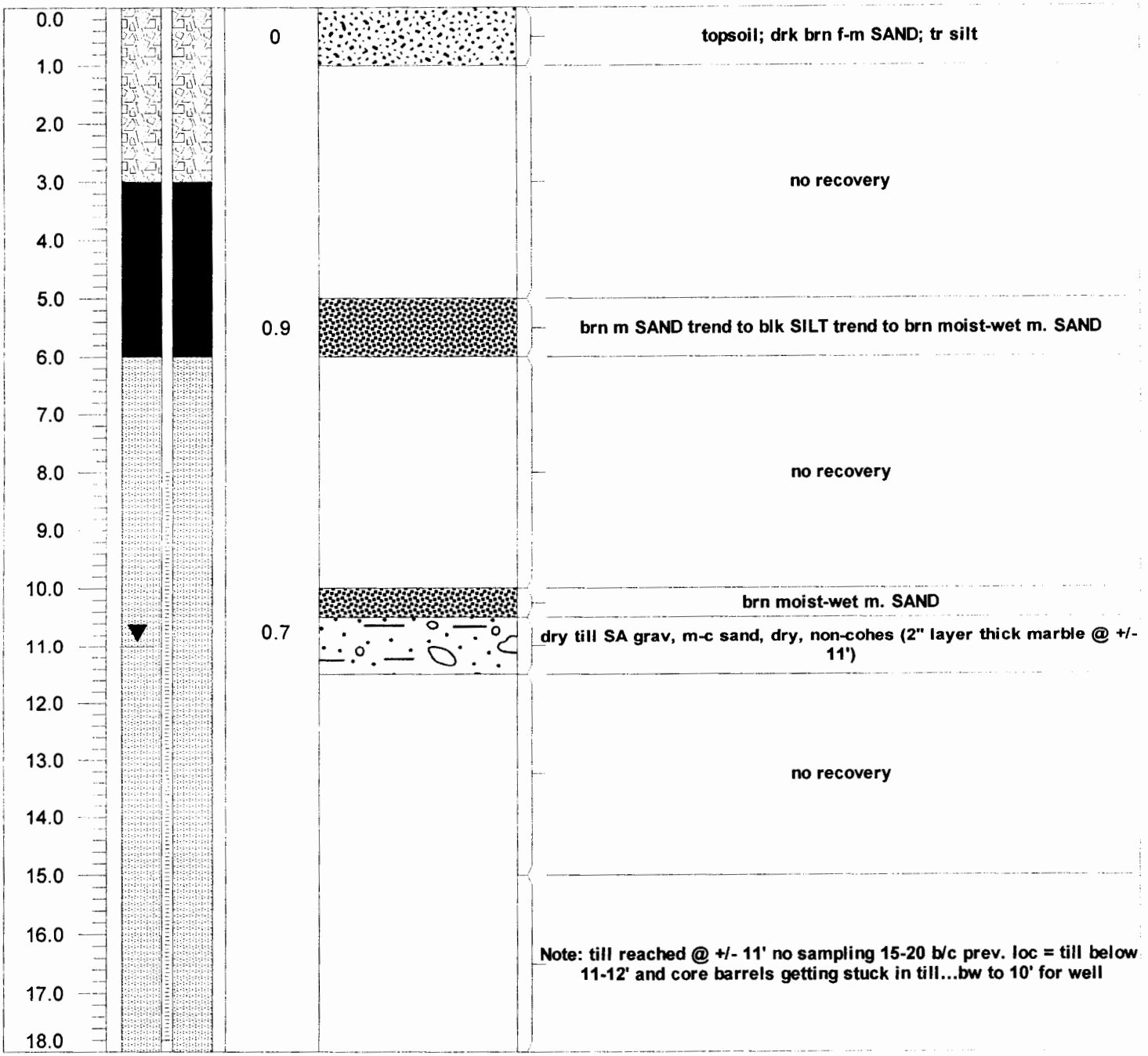
Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-2

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 91.72
Easting (m): 488740.2
Northing (m): 97956.7
Geologist: CRF



Drilling Date: 3/27/06

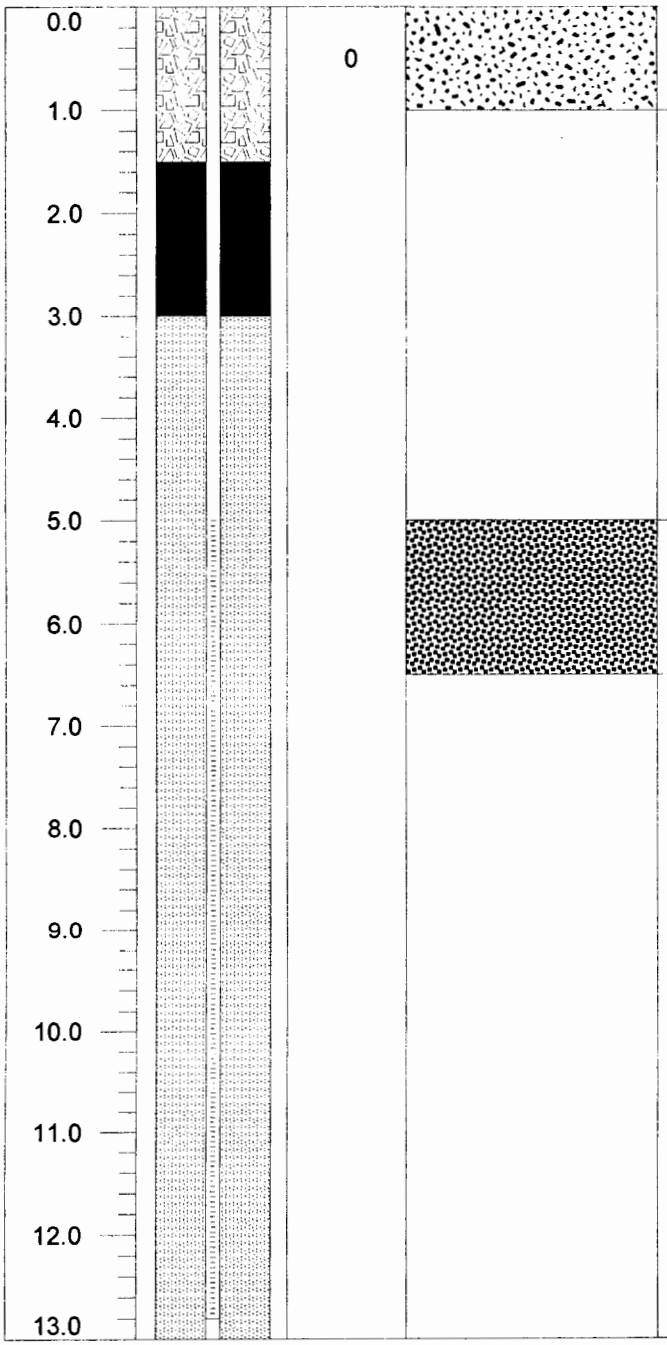
Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-3

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 87.33
Easting (m): 488749.7
Northing (m): 97949.6
Geologist: CRF



Depth	Well Contruction (Water level)	Maximum PID above background (ppm)	Geology	Description
0.0 – 1.0		0	topsoil	topsoil drk-brn f-m SAND, tr silt, tr organic
1.0 – 5.0				no recovery
5.0 – 6.0				orange brn m SAND trending to moist brn f-m SAND, some silt, tr sa grav; some metal wires
6.0 – 13.0				Note: hit fill @ 7.5' and stop b/c cores being bent going through till and got +/- 8-9' of till in MW-1, MW-2; conclusion: confident that till extends to desired terminal depth of MW (+/- 13')

Drilling Date: 3/27/06

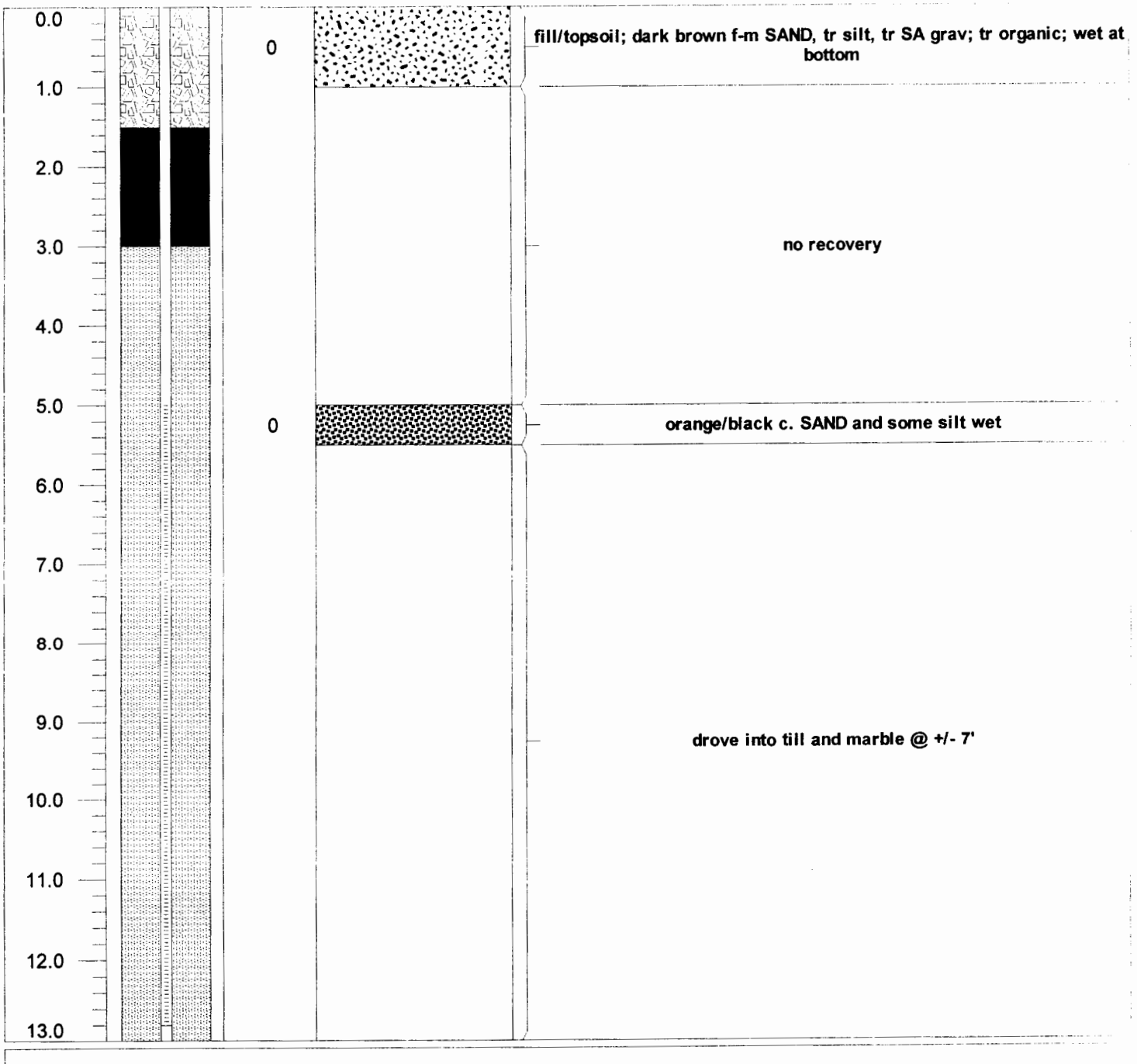
Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-4

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 86.33
Easting (m): 488752.7
Northing (m): 97931.2
Geologist: CRF



Drilling Date: 3/27/06

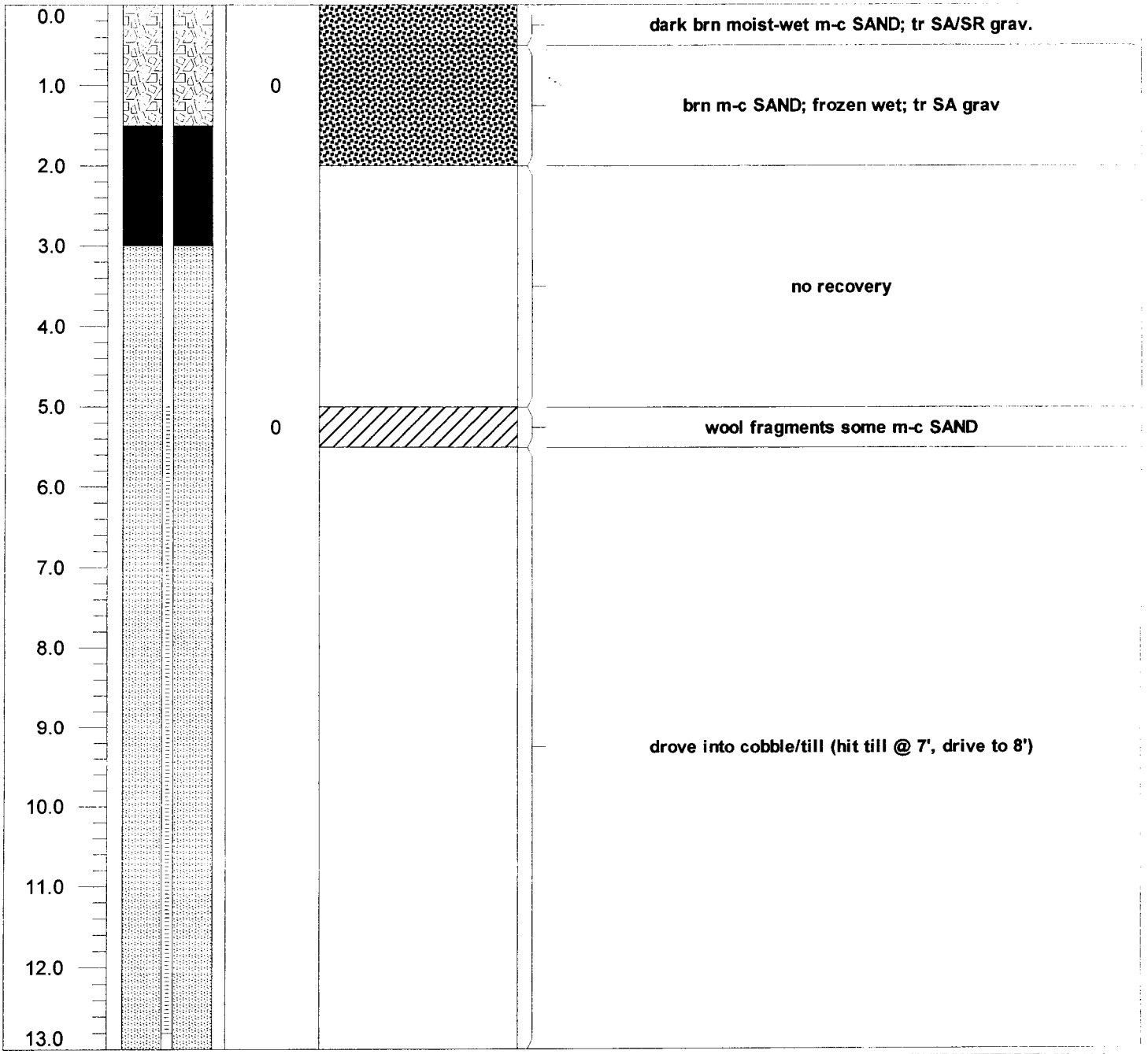
Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-5

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 86.28
Easting (m): 488758.9
Northing (m): 97906.3
Geologist: CRF



Drilling Date: 3/27/06

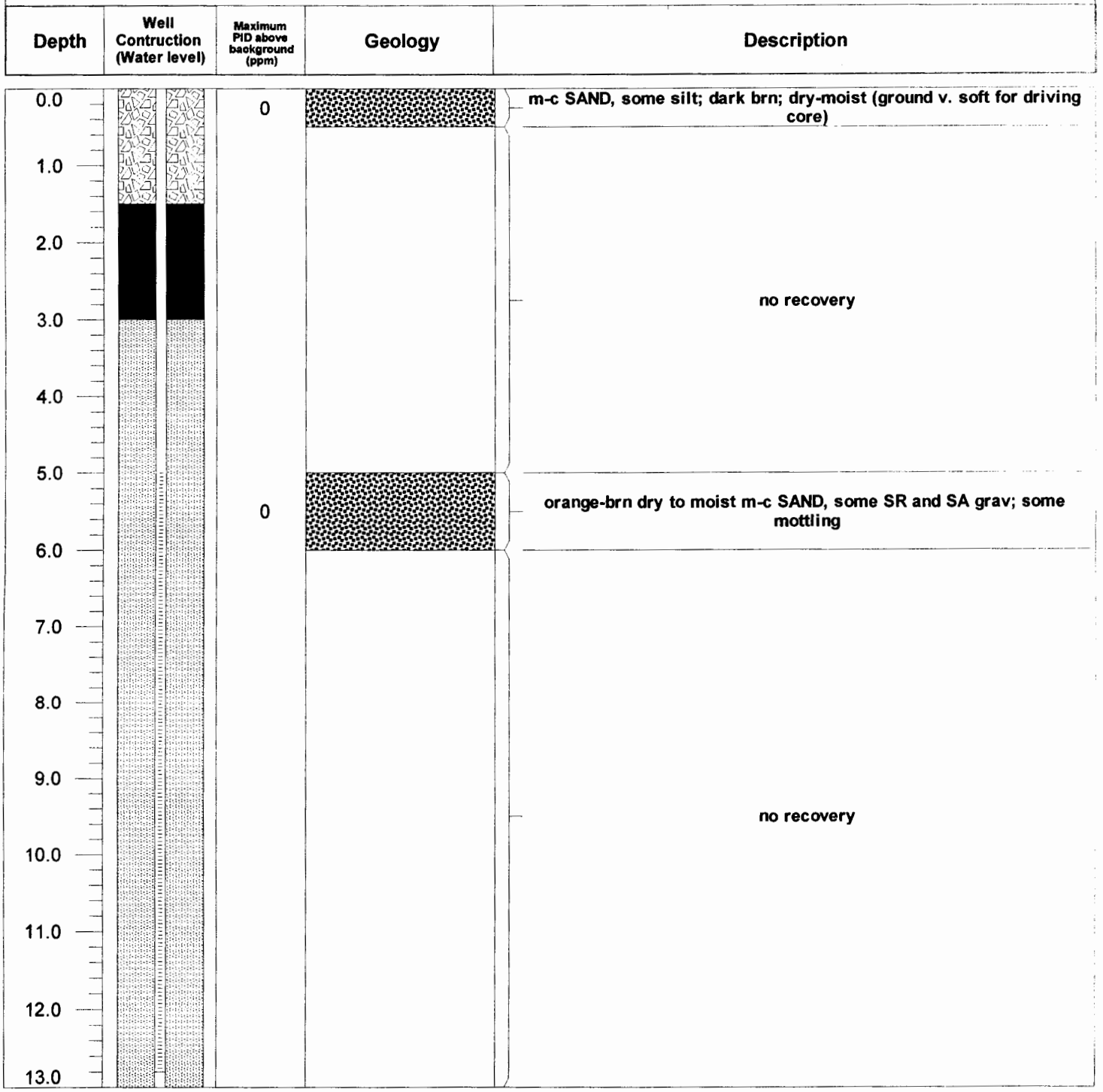
Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

The Johnson Company, Inc.
100 State St. Suite 600
Montpelier, VT 05602
(802) 229-4600

MW-6

Project: Cavendish Phase II ESA
Location: Proctorsville, VT
Job #: 3-1928-4
T.O.C. Elevation (ft): 87.03
Easting (m): 488777.1
Northing (m): 97909.8
Geologist: CRF



Drilling Date: 3/27/06

Drilling Company: JCO

Drilling Method: Envirocore/BW Casing

APPENDIX 2

LABORATORY ANALYTICAL RESULTS

eastern analytical

professional laboratory services

RECEIVED
APR 17 2006
THE JOHNSON COMPANY, INC.
MONTPELIER, VT

Chad Farrell
The Johnson Company
100 State Street
Montpelier, VT 05602

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	53796
Client Identification:	Proctorsville, VT | 3-1928-4
Date Received:	3/31/2006

Dear Mr. Farrell :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. (EAI) certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply throughout all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
<: "less than" followed by the detection limit
TNR: Testing Not Requested
ND: None Detected, no established detection limit
RL: Reporting Limits
%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

Analytical Deviation & QA/QC Documentation:
Quality Control Samples associated with this project are included in this report. At a minimum, a Method Blank and Laboratory Control Sample (LCS) are reported. Matrix Spikes and Duplicates are reported where applicable. Deviations are narrated on the QC pages.

If you have any questions regarding the results contained within, please feel free to directly contact me, or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw — 4.13.06 — 23

Lorraine Olashaw, Lab Director | Date | # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Temperature upon receipt (°C): 4.9 **Received on ice or cold packs (Yes/No): Y**

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
53796.01	MW-1	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.02	MW-2	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.03	MW-3	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.04	MW-4	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.05	MW-5	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.06	MW-6	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.07	MW-D	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.08	MW-A	3/31/06	3/29/06	aqueous		Adheres to Sample Acceptance Policy
53796.09	Trip Blank	3/31/06	3/14/06	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-D
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Diethyl Ether	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl-t-butyl ether(MTBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Butanone(MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Carbon tetrachloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloropropene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Benzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromomethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3-Dichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Dibromochloromethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dibromoethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,1,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2	< 2	< 2	< 2

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-D
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.07
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Analysis:	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06	4/4/06
Analyst:	BAM	BAM	BAM	BAM	BAM	BAM	BAM
Method:	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Dilution Factor:	1	1	1	1	1	1	1
IsoPropylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2,2-Tetrachloroethane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,3-Trichloropropane	< 2	< 2	< 2	< 2	< 2	< 2	< 2
n-Propylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
4-Chlorotoluene	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromofluorobenzene (surr)	**91 %R**	**90 %R**	**90 %R**	**90 %R**	**90 %R**	**91 %R**	**90 %R**
1,2-Dichlorobenzene-d4 (surr)	**108 %R**	**105 %R**	**105 %R**	**105 %R**	**108 %R**	**105 %R**	**109 %R**

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	Trip Blank
Lab Sample ID:	53796.09
Matrix:	aqueous
Date Sampled:	3/14/06
Date Received:	3/31/06
Units:	ug/l
Date of Analysis:	4/4/06
Analyst:	BAM
Method:	8260B
Dilution Factor:	1

Dichlorodifluoromethane	< 5
Chloromethane	< 2
Vinyl chloride	< 2
Bromomethane	< 2
Chloroethane	< 5
Trichlorofluoromethane	< 5
Diethyl Ether	< 5
Acetone	< 10
1,1-Dichloroethene	< 1
Methylene chloride	< 5
Carbon disulfide	< 5
Methyl-t-butyl ether(MTBE)	< 5
trans-1,2-Dichloroethene	< 2
1,1-Dichloroethane	< 2
2,2-Dichloropropane	< 2
cis-1,2-Dichloroethene	< 2
2-Butanone(MEK)	< 10
Bromochloromethane	< 2
Tetrahydrofuran(THF)	< 10
Chloroform	< 2
1,1,1-Trichloroethane	< 2
Carbon tetrachloride	< 2
1,1-Dichloropropene	< 2
Benzene	< 1
1,2-Dichloroethane	< 2
Trichloroethene	< 2
1,2-Dichloropropane	< 2
Dibromomethane	< 2
Bromodichloromethane	< 1
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 1
Toluene	< 1
trans-1,3-Dichloropropene	< 1
1,1,2-Trichloroethane	< 2
2-Hexanone	< 10
Tetrachloroethene	< 2
1,3-Dichloropropane	< 2
Dibromochloromethane	< 2
1,2-Dibromoethane	< 1
Chlorobenzene	< 2
1,1,1,2-Tetrachloroethane	< 2
Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	Trip Blank
Lab Sample ID:	53796.09
Matrix:	aqueous
Date Sampled:	3/14/06
Date Received:	3/31/06
Units:	ug/l
Date of Analysis:	4/4/06
Analyst:	BAM
Method:	8260B
Dilution Factor:	1
IsoPropylbenzene	< 1
Bromobenzene	< 2
1,1,2,2-Tetrachloroethane	< 2
1,2,3-Trichloropropane	< 2
n-Propylbenzene	< 1
2-Chlorotoluene	< 2
4-Chlorotoluene	< 2
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 1
Naphthalene	< 5
1,2,3-Trichlorobenzene	< 1
4-Bromofluorobenzene (surr)	**93 %R**
1,2-Dichlorobenzene-d4 (surr)	**106 %R**

Eastern Analytical, Inc. ID#: 53796 **Batch ID:**

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
Dichlorodifluoromethane	< 5			ug/l	4/4/06	8260B
Chloromethane	< 2			ug/l	4/4/06	8260B
Vinyl chloride	< 2			ug/l	4/4/06	8260B
Bromomethane	< 2			ug/l	4/4/06	8260B
Chloroethane	< 5			ug/l	4/4/06	8260B
Trichlorofluoromethane	< 5			ug/l	4/4/06	8260B
Diethyl Ether	< 5			ug/l	4/4/06	8260B
Acetone	< 10			ug/l	4/4/06	8260B
1,1-Dichloroethene	< 1	25 (127 %R)	26 (128 %R) (1 RPD)	ug/l	4/4/06	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	4/4/06	8260B
Methylene chloride	< 5			ug/l	4/4/06	8260B
Carbon disulfide	< 5			ug/l	4/4/06	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	4/4/06	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	4/4/06	8260B
Isopropyl ether(DIPE)	< 5			ug/l	4/4/06	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	4/4/06	8260B
trans-1,2-Dichloroethene	< 2			ug/l	4/4/06	8260B
1,1-Dichloroethane	< 2			ug/l	4/4/06	8260B
2,2-Dichloropropane	< 2			ug/l	4/4/06	8260B
cis-1,2-Dichloroethene	< 2			ug/l	4/4/06	8260B
2-Butanone(MEK)	< 10			ug/l	4/4/06	8260B
Bromochloromethane	< 2			ug/l	4/4/06	8260B
Tetrahydrofuran(THF)	< 10			ug/l	4/4/06	8260B
Chloroform	< 2			ug/l	4/4/06	8260B
1,1,1-Trichloroethane	< 2			ug/l	4/4/06	8260B
Carbon tetrachloride	< 2			ug/l	4/4/06	8260B
1,1-Dichloropropene	< 2			ug/l	4/4/06	8260B
Benzene	< 1	22 (109 %R)	22 (111 %R) (2 RPD)	ug/l	4/4/06	8260B
1,2-Dichloroethane	< 2			ug/l	4/4/06	8260B
Trichloroethene	< 2	21 (106 %R)	22 (108 %R) (2 RPD)	ug/l	4/4/06	8260B
1,2-Dichloropropane	< 2			ug/l	4/4/06	8260B
Dibromomethane	< 2			ug/l	4/4/06	8260B
Bromodichloromethane	< 1			ug/l	4/4/06	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	4/4/06	8260B
cis-1,3-Dichloropropene	< 1			ug/l	4/4/06	8260B
Toluene	< 1	22 (108 %R)	22 (110 %R) (2 RPD)	ug/l	4/4/06	8260B
trans-1,3-Dichloropropene	< 1			ug/l	4/4/06	8260B
1,1,2-Trichloroethane	< 2			ug/l	4/4/06	8260B
2-Hexanone	< 10			ug/l	4/4/06	8260B
Tetrachloroethene	< 2			ug/l	4/4/06	8260B
1,3-Dichloropropane	< 2			ug/l	4/4/06	8260B
Dibromochloromethane	< 2			ug/l	4/4/06	8260B
1,2-Dibromoethane	< 2			ug/l	4/4/06	8260B
Chlorobenzene	< 2	22 (110 %R)	22 (112 %R) (2 RPD)	ug/l	4/4/06	8260B

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796 **Batch ID:**

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
1,1,1,2-Tetrachloroethane	< 2			ug/l	4/4/06	8260B
Ethylbenzene	< 1			ug/l	4/4/06	8260B
mp-Xylene	< 1			ug/l	4/4/06	8260B
o-Xylene	< 1			ug/l	4/4/06	8260B
Styrene	< 1			ug/l	4/4/06	8260B
Bromoform	< 2			ug/l	4/4/06	8260B
IsoPropylbenzene	< 1			ug/l	4/4/06	8260B
Bromobenzene	< 2			ug/l	4/4/06	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	4/4/06	8260B
1,2,3-Trichloropropane	< 2			ug/l	4/4/06	8260B
n-Propylbenzene	< 1			ug/l	4/4/06	8260B
2-Chlorotoluene	< 2			ug/l	4/4/06	8260B
4-Chlorotoluene	< 2			ug/l	4/4/06	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	4/4/06	8260B
tert-Butylbenzene	< 1			ug/l	4/4/06	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	4/4/06	8260B
sec-Butylbenzene	< 1			ug/l	4/4/06	8260B
1,3-Dichlorobenzene	< 1			ug/l	4/4/06	8260B
p-Isopropyltoluene	< 1			ug/l	4/4/06	8260B
1,4-Dichlorobenzene	< 1			ug/l	4/4/06	8260B
1,2-Dichlorobenzene	< 1			ug/l	4/4/06	8260B
n-Butylbenzene	< 1			ug/l	4/4/06	8260B
1,2-Dibromo-3-chloropropane	< 1			ug/l	4/4/06	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	4/4/06	8260B
Hexachlorobutadiene	< 1			ug/l	4/4/06	8260B
Naphthalene	< 5			ug/l	4/4/06	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	4/4/06	8260B
4-Bromofluorobenzene (surr)	92 %R	102 %R	101 %R	% Rec	4/4/06	8260B
1,2-Dichlorobenzene-d4 (surr)	104 %R	100 %R	99 %R	% Rec	4/4/06	8260B

Eastern Analytical, Inc. ID#: 53796 **Batch ID:**

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
Dichlorodifluoromethane	< 5			ug/l	4/5/06	8260B
Chloromethane	< 2			ug/l	4/5/06	8260B
Vinyl chloride	< 2			ug/l	4/5/06	8260B
Bromomethane	< 2			ug/l	4/5/06	8260B
Chloroethane	< 5			ug/l	4/5/06	8260B
Trichlorofluoromethane	< 5			ug/l	4/5/06	8260B
Diethyl Ether	< 5			ug/l	4/5/06	8260B
Acetone	< 10			ug/l	4/5/06	8260B
1,1-Dichloroethene	< 1	24 (122 %R)	24 (120 %R) (2 RPD)	ug/l	4/5/06	8260B
tert-Butyl Alcohol (TBA)	< 30			ug/l	4/5/06	8260B
Methylene chloride	< 5			ug/l	4/5/06	8260B
Carbon disulfide	< 5			ug/l	4/5/06	8260B
Methyl-t-butyl ether(MTBE)	< 5			ug/l	4/5/06	8260B
Ethyl-t-butyl ether(ETBE)	< 5			ug/l	4/5/06	8260B
Isopropyl ether(DIPE)	< 5			ug/l	4/5/06	8260B
tert-amyl methyl ether(TAME)	< 5			ug/l	4/5/06	8260B
trans-1,2-Dichloroethene	< 2			ug/l	4/5/06	8260B
1,1-Dichloroethane	< 2			ug/l	4/5/06	8260B
2,2-Dichloropropane	< 2			ug/l	4/5/06	8260B
cis-1,2-Dichloroethene	< 2			ug/l	4/5/06	8260B
2-Butanone(MEK)	< 10			ug/l	4/5/06	8260B
Bromochloromethane	< 2			ug/l	4/5/06	8260B
Tetrahydrofuran(THF)	< 10			ug/l	4/5/06	8260B
Chloroform	< 2			ug/l	4/5/06	8260B
1,1,1-Trichloroethane	< 2			ug/l	4/5/06	8260B
Carbon tetrachloride	< 2			ug/l	4/5/06	8260B
1,1-Dichloropropene	< 2			ug/l	4/5/06	8260B
Benzene	< 1	21 (103 %R)	20 (101 %R) (2 RPD)	ug/l	4/5/06	8260B
1,2-Dichloroethane	< 2			ug/l	4/5/06	8260B
Trichloroethene	< 2	20 (100 %R)	20 (99 %R) (1 RPD)	ug/l	4/5/06	8260B
1,2-Dichloropropane	< 2			ug/l	4/5/06	8260B
Dibromomethane	< 2			ug/l	4/5/06	8260B
Bromodichloromethane	< 1			ug/l	4/5/06	8260B
4-Methyl-2-pentanone(MIBK)	< 10			ug/l	4/5/06	8260B
cis-1,3-Dichloropropene	< 1			ug/l	4/5/06	8260B
Toluene	< 1	22 (110 %R)	22 (110 %R) (0 RPD)	ug/l	4/5/06	8260B
trans-1,3-Dichloropropene	< 1			ug/l	4/5/06	8260B
1,1,2-Trichloroethane	< 2			ug/l	4/5/06	8260B
2-Hexanone	< 10			ug/l	4/5/06	8260B
Tetrachloroethene	< 2			ug/l	4/5/06	8260B
1,3-Dichloropropane	< 2			ug/l	4/5/06	8260B
Dibromochloromethane	< 2			ug/l	4/5/06	8260B
1,2-Dibromoethane	< 2			ug/l	4/5/06	8260B
Chlorobenzene	< 2	22 (112 %R)	22 (111 %R) (1 RPD)	ug/l	4/5/06	8260B

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796 **Batch ID:**

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
1,1,1,2-Tetrachloroethane	< 2			ug/l	4/5/06	8260B
Ethylbenzene	< 1			ug/l	4/5/06	8260B
mp-Xylene	< 1			ug/l	4/5/06	8260B
o-Xylene	< 1			ug/l	4/5/06	8260B
Styrene	< 1			ug/l	4/5/06	8260B
Bromoform	< 2			ug/l	4/5/06	8260B
IsoPropylbenzene	< 1			ug/l	4/5/06	8260B
Bromobenzene	< 2			ug/l	4/5/06	8260B
1,1,2,2-Tetrachloroethane	< 2			ug/l	4/5/06	8260B
1,2,3-Trichloropropane	< 2			ug/l	4/5/06	8260B
n-Propylbenzene	< 1			ug/l	4/5/06	8260B
2-Chlorotoluene	< 2			ug/l	4/5/06	8260B
4-Chlorotoluene	< 2			ug/l	4/5/06	8260B
1,3,5-Trimethylbenzene	< 1			ug/l	4/5/06	8260B
tert-Butylbenzene	< 1			ug/l	4/5/06	8260B
1,2,4-Trimethylbenzene	< 1			ug/l	4/5/06	8260B
sec-Butylbenzene	< 1			ug/l	4/5/06	8260B
1,3-Dichlorobenzene	< 1			ug/l	4/5/06	8260B
p-Isopropyltoluene	< 1			ug/l	4/5/06	8260B
1,4-Dichlorobenzene	< 1			ug/l	4/5/06	8260B
1,2-Dichlorobenzene	< 1			ug/l	4/5/06	8260B
n-Butylbenzene	< 1			ug/l	4/5/06	8260B
1,2-Dibromo-3-chloropropane	< 1			ug/l	4/5/06	8260B
1,2,4-Trichlorobenzene	< 1			ug/l	4/5/06	8260B
Hexachlorobutadiene	< 1			ug/l	4/5/06	8260B
Naphthalene	< 5			ug/l	4/5/06	8260B
1,2,3-Trichlorobenzene	< 1			ug/l	4/5/06	8260B
4-Bromofluorobenzene (surr)	89 %R	99 %R	100 %R	% Rec	4/5/06	8260B
1,2-Dichlorobenzene-d4 (surr)	103 %R	97 %R	95 %R	% Rec	4/5/06	8260B

Eastern Analytical, Inc. ID#:53796 **Batch ID:**

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Volatile Organic Compounds QC limits and Narrative Summary

Matrix:	Solid	Aqueous
Units:	%	%
EPA Method	8260B	8260B
Surrogate Recovery		
4-Bromofluorobenzene	74-121	86-115
1,2-Dichlorobenzene-D4	80-120	80-120
Matrix Spike Recovery		
1,1-Dichloroethene	59-172	61-145
Trichloroethene	62-137	71-120
Benzene	66-142	76-127
Toluene	59-139	76-125
Chlorobenzene	60-133	75-130

Samples were extracted and analyzed within holding time limits.

Instrumentation was calibrated in accordance with the method requirements.

The method blanks were free of contamination at the reporting limits.

Sample surrogate recoveries met the above stated criteria.

The associated matrix spikes and/or Laboratory Control Samples met acceptance criteria.

There were no exceptions in the analyses, unless noted.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-A
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Extraction/Prep:	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06
Date of Analysis:	4/8/06	4/8/06	4/8/06	4/8/06	4/8/06	4/8/06	4/8/06
Analyst:	BML	BML	BML	BML	BML	BML	BML
Method:	8270C	8270C	8270C	8270C	8270C	8270C	8270C
Dilution Factor:	1	1	1	1	1	1	1
Phenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorophenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dichlorophenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,5-Trichlorophenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4,6-Trichlorophenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pentachlorophenol	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Nitrophenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Nitrophenol	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2,4-Dinitrophenol	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Methylphenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
3/4-Methylphenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dimethylphenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloro-3-methylphenol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4,6-Dinitro-2-methylphenol	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzoic Acid	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Fluorophenol (surr)	**30 %R**	**1 %R**	**38 %R**	**3 %R**	**44 %R**	**45 %R**	**1 %R**
Phenol-D5 (surr)	**24 %R**	**0 %R**	**30 %R**	**2 %R**	**35 %R**	**35 %R**	**0 %R**
2,4,6-Tribromophenol (surr)	**71 %R**	**3 %R**	**77 %R**	**6 %R**	**80 %R**	**81 %R**	**4 %R**

"MW-2", "MW-4", and "MW-A": 2-Flurophenol (surr), Phenol-D5 (surr), and 2,4,6-Tribromophenol (surr) deviated below the QA/QC acceptance limits.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-A
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Extraction/Preparation	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06
Date of Analysis:	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06
Analyst:	BML	BML	BML	BML	BML	BML	BML
Method:	8270C	8270C	8270C	8270C	8270C	8270C	8270C
Dilution Factor:	1	1	1	1	1	1	1
N-Nitrosodimethylamine	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Nitroso-di-n-propylamine	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Nitrosodiphenylamine	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethyl)ether	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-chloroisopropyl)ether	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Chloroethoxy)methane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chloronaphthalene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chlorophenyl-phenylether	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Bromophenyl-phenylether	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorocyclopentadiene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Hexachlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Chloroaniline	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Nitroaniline	< 5	< 5	< 5	< 5	< 5	< 5	< 5
3-Nitroaniline	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzyl alcohol	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isophorone	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,4-Dinitrotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,6-Dinitrotoluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzidine	< 5	< 5	< 5	< 5	< 5	< 5	< 5
3,3'-Dichlorobenzidine	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pyridine	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Azobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbazole	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dimethylphthalate	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Diethylphthalate	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Di-n-butylphthalate	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Butylbenzylphthalate	< 1	< 1	< 1	< 1	< 1	< 1	< 1
bis(2-Ethylhexyl)phthalate	< 5	< 5	< 5	< 5	5	< 5	< 5
Di-n-octylphthalate	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenzofuran	< 1	< 1	< 1	< 1	< 1	< 1	< 1

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-A
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Extraction/Preparation	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06
Date of Analysis:	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06	4/6/06
Analyst:	BML	BML	BML	BML	BML	BML	BML
Method:	8270C	8270C	8270C	8270C	8270C	8270C	8270C
Dilution Factor:	1	1	1	1	1	1	1
Naphthalene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Methylnaphthalene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acenaphthene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluorene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Phenanthrene	< 1	< 1	< 1	1	< 1	< 1	< 1
Anthracene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fluoranthene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Pyrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo[a]anthracene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chrysene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo[b]fluoranthene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo[k]fluoranthene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo[a]pyrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Indeno[1,2,3-cd]pyrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibenz[a,h]anthracene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzo[g,h,i]perylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Nitrobenzene-D5 (surr)	**69 %R**	**74 %R**	**68 %R**	**71 %R**	**67 %R**	**73 %R**	**76 %R**
2-Fluorobiphenyl (surr)	**81 %R**	**85 %R**	**79 %R**	**78 %R**	**80 %R**	**83 %R**	**85 %R**
p-Terphenyl-D14 (surr)	**78 %R**	**79 %R**	**83 %R**	**87 %R**	**79 %R**	**81 %R**	**83 %R**

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-A
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04	53796.05	53796.06	53796.08
Matrix:	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous	aqueous
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Date of Extraction/Prep:	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06	4/3/06
Date of Analysis:	4/5/06	4/5/06	4/5/06	4/5/06	4/5/06	4/5/06	4/5/06
Analyst:	BML	BML	BML	BML	BML	BML	BML
Method:	8270C SIM	8270C SIM	8270C SIM	8270C SIM	8270C SIM	8270C SIM	8270C SIM
Dilution Factor:	1	1	1	1	1	1	1
Benzo[a]anthracene	**0.1**	< 0.1	**0.1**	**0.3**	**0.1**	< 0.1	< 0.1
Chrysene	< 0.1	< 0.1	< 0.1	**0.2**	< 0.1	< 0.1	< 0.1
Benzo[b]fluoranthene	**0.1**	< 0.1	**0.1**	**0.2**	< 0.1	< 0.1	< 0.1
Benzo[k]fluoranthene	< 0.1	< 0.1	< 0.1	**0.1**	< 0.1	< 0.1	< 0.1
Benzo[a]pyrene	< 0.1	< 0.1	< 0.1	**0.2**	< 0.1	< 0.1	< 0.1
Indeno[1,2,3-cd]pyrene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz[a,h]anthracene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	< 0.1	< 0.1	< 0.1	**0.1**	< 0.1	< 0.1	< 0.1
p-Terphenyl-D14 (surr)	**84 %R**	**76 %R**	**79 %R**	**79 %R**	**76 %R**	**84 %R**	**79 %R**

SIM Technique was employed to provide low level quantitation for these compounds.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796 **Batch ID:** 732404-54191/A040306AcidC1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Phenol	< 1	20 (39 %R)	20 (41 %R) (5 RPD)	ug/l	12 - 110	42	8270C
2-Chlorophenol	< 1	41 (81 %R)	41 (82 %R) (1 RPD)	ug/l	27 - 123	40	8270C
2,4-Dichlorophenol	< 1			ug/l			8270C
2,4,5-Trichlorophenol	< 1			ug/l			8270C
2,4,6-Trichlorophenol	< 1			ug/l			8270C
Pentachlorophenol	< 5	51 (102 %R)	* 52 (105 %R) (3 RPD)	ug/l	9 - 103	50	8270C
2-Nitrophenol	< 1			ug/l			8270C
4-Nitrophenol	< 5	19 (37 %R)	21 (41 %R) (10 RPD)	ug/l	10 - 80	50	8270C
2,4-Dinitrophenol	< 5			ug/l			8270C
2-Methylphenol	< 1			ug/l			8270C
3/4-Methylphenol	< 1			ug/l			8270C
2,4-Dimethylphenol	< 1			ug/l			8270C
4-Chloro-3-methylphenol	< 1	44 (89 %R)	47 (94 %R) (5 RPD)	ug/l	23 - 97	42	8270C
4,6-Dinitro-2-methylphenol	< 5			ug/l			8270C
Benzoic Acid	< 5			ug/l			8270C
2-Fluorophenol (surr)	47 %R	53 %R	54 %R	% Rec	21 - 110		8270C
Phenol-D5 (surr)	35 %R	38 %R	40 %R	% Rec	10 - 94		8270C
2,4,6-Tribromophenol (surr)	81 %R	90 %R	89 %R	% Rec	10 - 123		8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796 **Batch ID:** 732404-54040/A040306BaseN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
N-Nitrosodimethylamine	< 1			ug/l			8270C
n-Nitroso-di-n-propylamine	< 1	21 (83 %R)	20 (81 %R) (2 RPD)	ug/l	41 - 116	38	8270C
n-Nitrosodiphenylamine	< 1			ug/l			8270C
bis(2-Chloroethyl)ether	< 1			ug/l			8270C
bis(2-chloroisopropyl)ether	< 1			ug/l			8270C
bis(2-Chloroethoxy)methane	< 1			ug/l			8270C
1,3-Dichlorobenzene	< 1			ug/l			8270C
1,4-Dichlorobenzene	< 1	20 (79 %R)	19 (75 %R) (5 RPD)	ug/l	36 - 97	28	8270C
1,2-Dichlorobenzene	< 1			ug/l			8270C
1,2,4-Trichlorobenzene	< 1	21 (85 %R)	21 (84 %R) (1 RPD)	ug/l	39 - 98	28	8270C
2-Chloronaphthalene	< 1			ug/l			8270C
4-Chlorophenyl-phenylether	< 1			ug/l			8270C
4-Bromophenyl-phenylether	< 1			ug/l			8270C
Hexachloroethane	< 1			ug/l			8270C
Hexachlorobutadiene	< 1			ug/l			8270C
Hexachlorocyclopentadiene	< 5			ug/l			8270C
Hexachlorobenzene	< 1			ug/l			8270C
4-Chloroaniline	< 1			ug/l			8270C
2-Nitroaniline	< 5			ug/l			8270C
3-Nitroaniline	< 1			ug/l			8270C
Benzyl alcohol	< 1			ug/l			8270C
Nitrobenzene	< 1			ug/l			8270C
Isophorone	< 1			ug/l			8270C
2,4-Dinitrotoluene	< 1	* 25 (98 %R)	24 (94 %R) (4 RPD)	ug/l	24 - 96	38	8270C
2,6-Dinitrotoluene	< 1			ug/l			8270C
Benzidine	< 5			ug/l			8270C
3,3'-Dichlorobenzidine	< 1			ug/l			8270C
Pyridine	< 5			ug/l			8270C
Azobenzene	< 1			ug/l			8270C
Carbazole	< 1			ug/l			8270C
Dimethylphthalate	< 1			ug/l			8270C
Diethylphthalate	< 1			ug/l			8270C
Di-n-butylphthalate	< 5	22 (%R)	21 (%R) (RPD)	ug/l			8270C
Butylbenzylphthalate	< 1			ug/l			8270C
bis(2-Ethylhexyl)phthalate	< 5			ug/l			8270C
Di-n-octylphthalate	< 1			ug/l			8270C
Dibenzofuran	< 1			ug/l			8270C
Naphthalene	< 1			ug/l			8270C
2-Methylnaphthalene	< 1			ug/l			8270C
Acenaphthylene	< 1			ug/l			8270C
Acenaphthene	< 1	22 (87 %R)	22 (86 %R) (1 RPD)	ug/l	46 - 118	31	8270C
Fluorene	< 1			ug/l			8270C
Phenanthrene	< 1			ug/l			8270C
Anthracene	< 1			ug/l			8270C
Fluoranthene	< 1			ug/l			8270C

Eastern Analytical, Inc. ID#: 53796 **Batch ID:** 732404-54040/A040306BaseN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Pyrene	< 1	22 (90 %R)	24 (95 %R) (5 RPD)	ug/l	26 - 127	31	8270C
Benzo[a]anthracene	< 1			ug/l			8270C
Chrysene	< 1			ug/l			8270C
Benzo[b]fluoranthene	< 1			ug/l			8270C
Benzo[k]fluoranthene	< 1			ug/l			8270C
Benzo[a]pyrene	< 1			ug/l			8270C
Indeno[1,2,3-cd]pyrene	< 1			ug/l			8270C
Dibenz[a,h]anthracene	< 1			ug/l			8270C
Benzo[g,h,i]perylene	< 1			ug/l			8270C
Nitrobenzene-D5 (surr)	75 %R	74 %R	72 %R	% Rec	35 - 114		8270C
2-Fluorobiphenyl (surr)	84 %R	83 %R	83 %R	% Rec	43 - 116		8270C
p-Terphenyl-D14 (surr)	89 %R	83 %R	87 %R	% Rec	33 - 141		8270C

Eastern Analytical, Inc. ID#: 53796 **Batch ID:** 732404-54153/A040306ABNSI1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Benzo[a]anthracene	< 0.1			ug/l			8270C SIM
Chrysene	< 0.1			ug/l			8270C SIM
Benzo[b]fluoranthene	< 0.1			ug/l			8270C SIM
Benzo[k]fluoranthene	< 0.1			ug/l			8270C SIM
Benzo[a]pyrene	< 0.1			ug/l			8270C SIM
Indeno[1,2,3-cd]pyrene	< 0.1			ug/l			8270C SIM
Dibenz[a,h]anthracene	< 0.1			ug/l			8270C SIM
Benzo[g,h,i]perylene	< 0.1			ug/l			8270C SIM
p-Terphenyl-D14 (surr)	79 %R			% Rec			8270C SIM

Eastern Analytical, Inc. ID#:53796 **Batch ID:** 732404-54191/A040306AcidC1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Acid and Base/Neutral Extractable Compounds QA/QC and Narrative Report

Matrix:	Aqueous		Solid	
Units:	%		%	
EPA Method:	625/8270	RPD	8270	RPD
Acid Extractables Spikes:				
Phenol	12-110	42	26-90	35
2-Chlorophenol	27-123	40	25-102	50
Pentachlorophenol	9-103	50	17-109	47
4-Nitrophenol	10-80	50	11-114	50
4-Chloro-3-methylphenol	23-97	42	26-103	33
Base/Neutral Extractables Spikes:				
N-Nitroso-di-n-propylamine	41-116	38	41-126	38
1,4-Dichlorobenzene	36-97	28	28-104	27
1,2,4-Trichlorobenzene	39-98	28	38-107	23
2,4-Dinitrotoluene	24-96	38	28-89	47
Acenaphthene	46-118	31	31-137	19
Pyrene	26-127	31	35-142	36
Acid Extractables Surrogates:				
2-Fluorophenol	21-110		25-121	
Phenol-d5	10-94		24-113	
2,4,6-Tribromophenol	10-123		19-122	
Base/Neutral Extractables Surrogates:				
Nitrobenzene-d5	35-114		23-120	
2-Fluorobiphenyl	43-116		30-115	
p-Terphenyl-d14	33-141		18-137	

Samples were extracted and analyzed within holding time limits.
Instrumentation was tuned and calibrated in accordance with the method requirements.
The associated method blank(s) were free of contamination at the reporting limit.
The associated (MS) matrix spike(s) and/or (LCS) Laboratory Control Sample(s) met the above stated criteria.
There were no exceptions in the analyses, unless noted.
DOR: Diluted out of calibration range.
MI: Matrix interference.

"LCS": 2,4-Dinitrotoluene deviated above the QA/QC recovery limits.

"LCSD": Pentachlorophenol deviated above the QA/QC recovery limits.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	MW-1	MW-2	MW-3	MW-4				
Lab Sample ID:	53796.01	53796.02	53796.03	53796.04				
Matrix:	aqueous	aqueous	aqueous	aqueous				
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06				
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	**Units**	**Date of Analysis**	**Method**	**Analyst**
Antimony	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Arsenic	**0.004**	**0.006**	< 0.001	**0.001**	mg/L	4/6/06	6020	DS
Beryllium	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Chromium	**0.004**	< 0.001	< 0.001	**0.005**	mg/L	4/6/06	6020	DS
Copper	**0.013**	< 0.001	**0.002**	**0.004**	mg/L	4/6/06	6020	DS
Lead	**0.007**	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	mg/L	4/6/06	6020	DS
Nickel	**0.007**	**0.002**	**0.007**	**0.015**	mg/L	4/6/06	6020	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Thallium	< 0.001	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Zinc	**0.012**	< 0.005	**0.066**	**0.026**	mg/L	4/6/06	6020	DS

Sample ID:	MW-5	MW-6	MW-D				
Lab Sample ID:	53796.05	53796.06	53796.07				
Matrix:	aqueous	aqueous	aqueous				
Date Sampled:	3/29/06	3/29/06	3/29/06				
Date Received:	3/31/06	3/31/06	3/31/06	**Units**	**Date of Analysis**	**Method**	**Analyst**
Antimony	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Arsenic	< 0.001	< 0.001	**0.003**	mg/L	4/6/06	6020	DS
Beryllium	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Cadmium	**0.003**	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Chromium	< 0.001	< 0.001	**0.002**	mg/L	4/6/06	6020	DS
Copper	**0.002**	**0.001**	**0.003**	mg/L	4/6/06	6020	DS
Lead	**0.001**	< 0.001	**0.002**	mg/L	4/6/06	6020	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	mg/L	4/6/06	6020	DS
Nickel	**0.008**	**0.003**	**0.002**	mg/L	4/6/06	6020	DS
Selenium	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Silver	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Thallium	< 0.001	< 0.001	< 0.001	mg/L	4/6/06	6020	DS
Zinc	**0.057**	< 0.005	< 0.005	mg/L	4/6/06	6020	DS

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCS Dup	Units	Date of Analysis	Method
Antimony	< 0.001	1.0 (102 %R)		mg/L	4/6/06	6020
Arsenic	< 0.001	1.1 (106 %R)		mg/L	4/6/06	6020
Beryllium	< 0.001	1.1 (114 %R)		mg/L	4/6/06	6020
Cadmium	< 0.001	1.1 (106 %R)		mg/L	4/6/06	6020
Chromium	< 0.001	1.1 (108 %R)		mg/L	4/6/06	6020
Copper	< 0.001	1.1 (112 %R)		mg/L	4/6/06	6020
Lead	< 0.001	1.1 (109 %R)		mg/L	4/6/06	6020
Mercury	< 0.0001	0.001 (107 %R)		mg/L	4/6/06	6020
Nickel	< 0.001	1.1 (109 %R)		mg/L	4/6/06	6020
Selenium	< 0.001	1.1 (107 %R)		mg/L	4/6/06	6020
Silver	< 0.001	0.092 (92 %R)		mg/L	4/6/06	6020
Thallium	< 0.001	1.2 (118 %R)		mg/L	4/6/06	6020
Zinc	< 0.005	1.1 (114 %R)		mg/L	4/6/06	6020

Parameter Name	MS/MSD Parent ID	MS/MSD Parent	Matrix Spike	Matrix Spike Duplicate
Antimony	53806.04	< 0.001	1.0 (104 %R)	1.1 (105 %R) (1 RPD)
Arsenic	53806.04	< 0.001	1.1 (106 %R)	1.1 (108 %R) (2 RPD)
Beryllium	53806.04	< 0.001	1.2 (121 %R)	1.3 (130 %R) (7 RPD)
Cadmium	53806.04	< 0.001	1.1 (106 %R)	1.1 (107 %R) (1 RPD)
Chromium	53806.04	< 0.001	1.1 (106 %R)	1.1 (110 %R) (4 RPD)
Copper	53806.04	0.10	1.2 (114 %R)	1.3 (117 %R) (3 RPD)
Lead	53806.04	0.002	1.1 (111 %R)	1.2 (116 %R) (4 RPD)
Mercury	53806.04	< 0.0001	0.011 (109 %R)	0.011 (113 %R) (4 RPD)
Nickel	53806.04	0.008	1.1 (107 %R)	1.1 (111 %R) (4 RPD)
Selenium	53806.04	< 0.001	1.1 (106 %R)	1.1 (108 %R) (2 RPD)
Silver	53806.04	< 0.001	0.91 (91 %R)	0.94 (94 %R) (3 RPD)
Thallium	53806.04	< 0.001	1.2 (120 %R)	1.3 (126 %R) (5 RPD)
Zinc	53806.04	0.17	1.3 (117 %R)	1.4 (121 %R) (3 RPD)

Eastern Analytical, Inc. ID#: 53796

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Metals QA/QC and Narrative Report

QA/QC:	LCS	MS	MSD
Matrix:	Aqueous/Soil	Aqueous/Soil	Aqueous/Soil
Units:	%	%	%
EPA Method:	6010B/6020	6010B/6020	6010B/6020
Aluminum	85-115	75-125	75-125
Antimony	85-115	75-125	75-125
Arsenic	85-115	75-125	75-125
Barium	85-115	75-125	75-125
Beryllium	85-115	75-125	75-125
Boron	85-115	75-125	75-125
Cadmium	85-115	75-125	75-125
Calcium	85-115	75-125	75-125
Chromium	85-115	75-125	75-125
Chromium III	85-115	75-125	75-125
Chromium IV	85-115	75-125	75-125
Cobalt	85-115	75-125	75-125
Copper	85-115	75-125	75-125
Iron	85-115	75-125	75-125
Lead	85-115	75-125	75-125
Magnesium	85-115	75-125	75-125
Manganese	85-115	75-125	75-125
Mercury	85-115	75-125	75-125
Molybdenum	85-115	75-125	75-125
Nickel	85-115	75-125	75-125
Phosphorus	85-115	75-125	75-125
Potassium	85-115	75-125	75-125
Selenium	85-115	75-125	75-125
Silicon	85-115	75-125	75-125
Silver	85-115	75-125	75-125
Sodium	85-115	75-125	75-125
Thallium	85-115	75-125	75-125
Tin	85-115	75-125	75-125
Titanium	85-115	75-125	75-125
Vanadium	85-115	75-125	75-125
Zinc	85-115	75-125	75-125

Samples were analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
There were no exceptions in the analyses, unless noted below.

LCS: The laboratory control sample for Thallium did not meet the acceptance criteria. The high bias has no impact on the data reported as no Thallium was found in the field samples.
MS/MSD: The MSD for Beryllium and Thallium deviated above the acceptance criteria. The high spike recovery does not impact the data as these metals were not detected in the parent sample.

Page 1 of 1

EA1-2

CHAIN-OF-CUSTODY RECORD

REQUESTED ANALYSIS

53796

ITEM # (For Lab Use Only)	SAMPLE I.D.	SAMPLING DATE/TIME	MATRIX (A–Air S–Soil GW–Ground Water SW–Surface Water DW–Drinking Water WW–Waste Water ☐ Other)	VOC	SVOC	TCLP	METALS	INORGANICS	OTHER	# OF CONTAINERS	NOTES (MeOH Vial #)
	MW-1	3/29/06 11:46	GW	H	1		N			4	
	MW-2	13:26		H	1		N			4	
	MW-3	14:16		H	1		N			4	
	MW-4	15:05		H	1		N			4	
	MW-5	~~16:14~~		H	1		N			4	
	MW-6	~~15:45~~		H	1		N			4	
	MW-D	9:00		H			N			3	
	MW-A	9:15			1					1	
	Trip blank	—	Lab DI								

PRESERVATIVE: H-HCl; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER Chad Farrell
COMPANY The Johnson Company
ADDRESS 100 State St.
CITY Montpelier STATE VT ZIP 05602
PHONE 802-229-4600 EXT
FAX 802-229-5876
E-MAIL CRF@jcomail.com
SITE NAME Proctorsville, VT
PROJECT # 3-1928-4
STATE: ☐NH ☐MA* ☐ME ☑VT ☐OTHER
☐SITE INVESTIGATION ☐SITE REMEDIATION
☐WASTE CHARACTERIZATION/PROFILE ☐SITE HISTORICALLY CONTAMINATED

☐8 RCRA METALS ☐Fe, Mn ☑13 PP METALS
OTHER METALS
DISSOLVED METALS FIELD FILTERED? ☐YES ☐NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO. IF DIFFERENT)

Please e-mail prelim. results to RTK@jcomail.com

RESULTS NEEDED BY (ENTER PREFERRED DATE) 4/10/06
(GUARANTEED RAPID TURNAROUND NEEDS PRE-APPROVAL)

QA/QC REPORTING LEVEL: ☐A ☑B ☐C ☐MA DATA ENHANCEMENT PACKAGE*
REPORTING OPTIONS: ☑HARD COPY ☐FAX ELECTRONIC ☑E-MAIL ☐DISK

FOR LAB USE ONLY
ADHERED TO EPA PROTOCOL ☐YES ☐NO (SEE ATTACHED)
TEMP. 4.9 °C
ICE? ☑YES ☐NO
CUSTODY SEAL INTACT? ☐YES ☐NO

QUOTE #
P.O. #
SAMPLER(S) Rhonda Kay / Marilyn D.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Rhonda Kay	3/30/06	4:00	
Custody Seal	3/31/06	1031	Chris Johnson

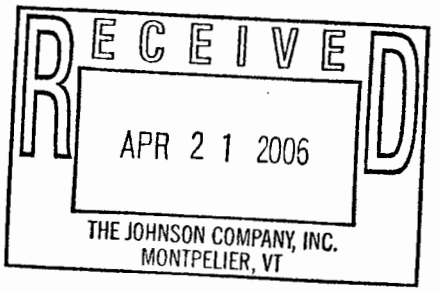
eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMER_SERVICE@EAILABS.COM | WWW.EAILABS.COM

CRF

eastern analytical

professional laboratory services

Chad Farrell
The Johnson Company
100 State Street
Montpelier , VT 05602



Subject: Laboratory Report

Eastern Analytical, Inc. ID:	53797
Client Identification:	Proctorsville, VT | 3-1928-4
Date Received:	3/31/2006

Dear Mr. Farrell :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. (EAI) certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply throughout all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
<: "less than" followed by the detection limit
TNR: Testing Not Requested
ND: None Detected, no established detection limit
RL: Reporting Limits
%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

Analytical Deviation & QA/QC Documentation:
Quality Control Samples associated with this project are included in this report. At a minimum, a Method Blank and Laboratory Control Sample (LCS) are reported. Matrix Spikes and Duplicates are reported where applicable. Deviations are narrated on the QC pages.

If you have any questions regarding the results contained within, please feel free to directly contact me, or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw — 4-14-06 — 12

Lorraine Olashaw, Lab Director — Date — # of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Temperature upon receipt (°C): 11.3 **Received on ice or cold packs (Yes/No): Y**

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
53797.01	SS-1	3/31/06	3/29/06	soil	81.0	Adheres to Sample Acceptance Policy
53797.02	SS-2	3/31/06	3/29/06	soil	75.1	Adheres to Sample Acceptance Policy
53797.03	SS-3	3/31/06	3/29/06	soil	79.8	Adheres to Sample Acceptance Policy
53797.04	SS-4	3/31/06	3/29/06	soil	89.0	Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	SS-1	SS-2	SS-3	SS-4
Lab Sample ID:	53797.01	53797.02	53797.03	53797.04
Matrix:	soil	soil	soil	soil
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/kg	ug/kg	ug/kg	ug/kg
Date of Extraction/Preparation	4/4/06	4/4/06	4/4/06	4/4/06
Date of Analysis:	4/13/06	4/13/06	4/13/06	4/13/06
Analyst:	BML	BML	BML	BML
Method:	8270C	8270C	8270C	8270C
Dilution Factor:	1	1	1	1
Phenol	< 200	< 200	< 200	< 200
2-Chlorophenol	< 200	< 200	< 200	< 200
2,4-Dichlorophenol	< 200	< 200	< 200	< 200
2,4,5-Trichlorophenol	< 200	< 200	< 200	< 200
2,4,6-Trichlorophenol	< 200	< 200	< 200	< 200
Pentachlorophenol	< 1000	< 1000	< 1000	< 1000
2-Nitrophenol	< 200	< 200	< 200	< 200
4-Nitrophenol	< 200	< 200	< 200	< 200
2,4-Dinitrophenol	< 1000	< 1000	< 1000	< 1000
2-Methylphenol	< 200	< 200	< 200	< 200
3/4-Methylphenol	< 200	< 200	< 200	< 200
2,4-Dimethylphenol	< 200	< 200	< 200	< 200
4-Chloro-3-methylphenol	< 200	< 200	< 200	< 200
4,6-Dinitro-2-methylphenol	< 1000	< 1000	< 1000	< 1000
Benzoic Acid	< 1000	< 1000	< 1000	< 1000
N-Nitrosodimethylamine	< 200	< 200	< 200	< 200
n-Nitroso-di-n-propylamine	< 200	< 200	< 200	< 200
n-Nitrosodiphenylamine	< 200	< 200	< 200	< 200
bis(2-Chloroethyl)ether	< 200	< 200	< 200	< 200
bis(2-chloroisopropyl)ether	< 200	< 200	< 200	< 200
bis(2-Chloroethoxy)methane	< 200	< 200	< 200	< 200
1,3-Dichlorobenzene	< 200	< 200	< 200	< 200
1,4-Dichlorobenzene	< 200	< 200	< 200	< 200
1,2-Dichlorobenzene	< 200	< 200	< 200	< 200
1,2,4-Trichlorobenzene	< 200	< 200	< 200	< 200
2-Chloronaphthalene	< 200	< 200	< 200	< 200
4-Chlorophenyl-phenylether	< 200	< 200	< 200	< 200
4-Bromophenyl-phenylether	< 200	< 200	< 200	< 200
Hexachloroethane	< 200	< 200	< 200	< 200
Hexachlorobutadiene	< 200	< 200	< 200	< 200
Hexachlorocyclopentadiene	< 1000	< 1000	< 1000	< 1000
Hexachlorobenzene	< 200	< 200	< 200	< 200
4-Chloroaniline	< 200	< 200	< 200	< 200
2-Nitroaniline	< 200	< 200	< 200	< 200
3-Nitroaniline	< 200	< 200	< 200	< 200
4-Nitroaniline	< 200	< 200	< 200	< 200
Benzyl alcohol	< 200	< 200	< 200	< 200
Nitrobenzene	< 200	< 200	< 200	< 200
Isophorone	< 200	< 200	< 200	< 200
2,4-Dinitrotoluene	< 200	< 200	< 200	< 200
2,6-Dinitrotoluene	< 200	< 200	< 200	< 200
Benzidine	< 400	< 400	< 400	< 400
3,3'-Dichlorobenzidine	< 200	< 200	< 200	< 200
Pyridine	< 200	< 200	< 200	< 200
Azobenzene	< 200	< 200	< 200	< 200

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	SS-1	SS-2	SS-3	SS-4
Lab Sample ID:	53797.01	53797.02	53797.03	53797.04
Matrix:	soil	soil	soil	soil
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06
Units:	ug/kg	ug/kg	ug/kg	ug/kg
Date of Extraction/Preparation	4/4/06	4/4/06	4/4/06	4/4/06
Date of Analysis:	4/13/06	4/13/06	4/13/06	4/13/06
Analyst:	BML	BML	BML	BML
Method:	8270C	8270C	8270C	8270C
Dilution Factor:	1	1	1	1
Carbazole	**300**	**500**	< 200	< 200
Dimethylphthalate	< 200	< 200	< 200	< 200
Diethylphthalate	< 200	< 200	< 200	< 200
Di-n-butylphthalate	< 500	< 500	< 500	< 500
Butylbenzylphthalate	< 200	< 200	< 200	< 200
bis(2-Ethylhexyl)phthalate	**300**	**300**	< 200	< 200
Di-n-octylphthalate	< 200	< 200	< 200	< 200
Dibenzofuran	< 200	< 200	< 200	< 200
Naphthalene	< 200	< 200	< 200	< 200
2-Methylnaphthalene	< 200	< 200	< 200	< 200
Acenaphthylene	**300**	**500**	< 200	< 200
Acenaphthene	**200**	< 200	< 200	< 200
Fluorene	**300**	< 200	< 200	< 200
Phenanthrene	**2100**	**2800**	**200**	< 200
Anthracene	**800**	**500**	< 200	< 200
Fluoranthene	**4400**	**7900**	**700**	**300**
Pyrene	**4000**	**5300**	**500**	**200**
Benzo[a]anthracene	**2300**	**3200**	**300**	< 200
Chrysene	**2800**	**3700**	**400**	< 200
Benzo[b]fluoranthene	**4200**	**4800**	**500**	**200**
Benzo[k]fluoranthene	**1500**	**2600**	< 200	< 200
Benzo[a]pyrene	**2100**	**2500**	**300**	< 200
Indeno[1,2,3-cd]pyrene	**500**	**700**	< 200	< 200
Dibenz[a,h]anthracene	< 200	< 200	< 200	< 200
Benzo[g,h,i]perylene	**400**	**500**	< 200	< 200
2-Fluorophenol (surr)	**48 %R**	**63 %R**	**72 %R**	**54 %R**
Phenol-D5 (surr)	**62 %R**	**70 %R**	**77 %R**	**61 %R**
2,4,6-Tribromophenol (surr)	**88 %R**	**91 %R**	**99 %R**	**85 %R**
Nitrobenzene-D5 (surr)	**49 %R**	**58 %R**	**67 %R**	**49 %R**
2-Fluorobiphenyl (surr)	**65 %R**	**73 %R**	**82 %R**	**61 %R**
p-Terphenyl-D14 (surr)	**84 %R**	**75 %R**	**77 %R**	**72 %R**

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797 **Batch ID:** 732405-52929/S040406ABN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Phenol	< 200	7400 (88 %R)	7200 (86 %R) (2 RPD)	ug/kg	26 - 90	35	8270C
2-Chlorophenol	< 200	7000 (85 %R)	7100 (85 %R) (0 RPD)	ug/kg	25 - 102	50	8270C
2,4-Dichlorophenol	< 200			ug/kg			8270C
2,4,5-Trichlorophenol	< 200			ug/kg			8270C
2,4,6-Trichlorophenol	< 200			ug/kg			8270C
Pentachlorophenol	< 1000	8000 (97 %R)	8000 (95 %R) (2 RPD)	ug/kg	17 - 109	47	8270C
2-Nitrophenol	< 200			ug/kg			8270C
4-Nitrophenol	< 200	8200 (99 %R)	7700 (93 %R) (6 RPD)	ug/kg	11 - 114	50	8270C
2,4-Dinitrophenol	< 1000			ug/kg			8270C
2-Methylphenol	< 200			ug/kg			8270C
3/4-Methylphenol	< 200			ug/kg			8270C
2,4-Dimethylphenol	< 200			ug/kg			8270C
4-Chloro-3-methylphenol	< 200	8100 (98 %R)	8000 (96 %R) (2 RPD)	ug/kg	26 - 103	33	8270C
4,6-Dinitro-2-methylphenol	< 1000			ug/kg			8270C
Benzoic Acid	< 1000			ug/kg			8270C
N-Nitrosodimethylamine	< 200			ug/kg			8270C
n-Nitroso-di-n-propylamine	< 200	4100 (97 %R)	3900 (93 %R) (4 RPD)	ug/kg	41 - 126	38	8270C
n-Nitrosodiphenylamine	< 200			ug/kg			8270C
bis(2-Chloroethyl)ether	< 200			ug/kg			8270C
bis(2-chloroisopropyl)ether	< 200			ug/kg			8270C
bis(2-Chloroethoxy)methane	< 200			ug/kg			8270C
1,3-Dichlorobenzene	< 200			ug/kg			8270C
1,4-Dichlorobenzene	< 200	3200 (78 %R)	3300 (80 %R) (3 RPD)	ug/kg	28 - 97	27	8270C
1,2-Dichlorobenzene	< 200			ug/kg			8270C
1,2,4-Trichlorobenzene	< 200	3400 (81 %R)	3500 (84 %R) (4 RPD)	ug/kg	38 - 107	23	8270C
2-Chloronaphthalene	< 200			ug/kg			8270C
4-Chlorophenyl-phenylether	< 200			ug/kg			8270C
4-Bromophenyl-phenylether	< 200			ug/kg			8270C
Hexachloroethane	< 200			ug/kg			8270C
Hexachlorobutadiene	< 200			ug/kg			8270C
Hexachlorocyclopentadiene	< 1000			ug/kg			8270C
Hexachlorobenzene	< 200			ug/kg			8270C
4-Chloroaniline	< 200			ug/kg			8270C
2-Nitroaniline	< 200			ug/kg			8270C
3-Nitroaniline	< 200			ug/kg			8270C
4-Nitroaniline	< 200			ug/kg			8270C
Benzyl alcohol	< 200			ug/kg			8270C
Nitrobenzene	< 200			ug/kg			8270C
Isophorone	< 200			ug/kg			8270C
2,4-Dinitrotoluene	< 200	* 4200 (101 %R)	* 4000 (96 %R) (5 RPD)	ug/kg	28 - 89	47	8270C
2,6-Dinitrotoluene	< 200			ug/kg			8270C
Benzidine	< 400			ug/kg			8270C
3,3'-Dichlorobenzidine	< 200			ug/kg			8270C
Pyridine	< 200			ug/kg			8270C
Azobenzene	< 200			ug/kg			8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797 **Batch ID:** 732405-52929/S040406ABN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Carbazole	< 200			ug/kg			8270C
Dimethylphthalate	< 200			ug/kg			8270C
Diethylphthalate	< 200			ug/kg			8270C
Di-n-butylphthalate	< 500	4000 (%R)	3900 (%R) (RPD)	ug/kg			8270C
Butylbenzylphthalate	< 200			ug/kg			8270C
bis(2-Ethylhexyl)phthalate	< 200			ug/kg			8270C
Di-n-octylphthalate	< 200			ug/kg			8270C
Dibenzofuran	< 200			ug/kg			8270C
Naphthalene	< 200			ug/kg			8270C
2-Methylnaphthalene	< 200			ug/kg			8270C
Acenaphthylene	< 200			ug/kg			8270C
Acenaphthene	< 200	3400 (80 %R)	3300 (80 %R) (0 RPD)	ug/kg	31 - 137	19	8270C
Fluorene	< 200			ug/kg			8270C
Phenanthrene	< 200			ug/kg			8270C
Anthracene	< 200			ug/kg			8270C
Fluoranthene	< 200			ug/kg			8270C
Pyrene	< 200	3800 (92 %R)	3800 (90 %R) (2 RPD)	ug/kg	35 - 142	36	8270C
Benzo[a]anthracene	< 200			ug/kg			8270C
Chrysene	< 200			ug/kg			8270C
Benzo[b]fluoranthene	< 200			ug/kg			8270C
Benzo[k]fluoranthene	< 200			ug/kg			8270C
Benzo[a]pyrene	< 200			ug/kg			8270C
Indeno[1,2,3-cd]pyrene	< 200			ug/kg			8270C
Dibenz[a,h]anthracene	< 200			ug/kg			8270C
Benzo[g,h,i]perylene	< 200			ug/kg			8270C
2-Fluorophenol (surr)	53 %R	76 %R	76 %R	% Rec	25 - 121		8270C
Phenol-D5 (surr)	62 %R	83 %R	82 %R	% Rec	24 - 113		8270C
2,4,6-Tribromophenol (surr)	65 %R	82 %R	83 %R	% Rec	19 - 122		8270C
Nitrobenzene-D5 (surr)	53 %R	72 %R	71 %R	% Rec	23 - 120		8270C
2-Fluorobiphenyl (surr)	57 %R	76 %R	75 %R	% Rec	30 - 115		8270C
p-Terphenyl-D14 (surr)	82 %R	82 %R	79 %R	% Rec	18 - 137		8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797 **Batch ID:** 732405-52929/S040406ABN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Phenol	< 200	7400 (88 %R)	7200 (86 %R) (2 RPD)	ug/kg	26 - 90	35	8270C
2-Chlorophenol	< 200	7000 (85 %R)	7100 (85 %R) (0 RPD)	ug/kg	25 - 102	50	8270C
2,4-Dichlorophenol	< 200			ug/kg			8270C
2,4,5-Trichlorophenol	< 200			ug/kg			8270C
2,4,6-Trichlorophenol	< 200			ug/kg			8270C
Pentachlorophenol	< 1000	8000 (97 %R)	8000 (95 %R) (2 RPD)	ug/kg	17 - 109	47	8270C
2-Nitrophenol	< 200			ug/kg			8270C
4-Nitrophenol	< 200	8200 (99 %R)	7700 (93 %R) (6 RPD)	ug/kg	11 - 114	50	8270C
2,4-Dinitrophenol	< 1000			ug/kg			8270C
2-Methylphenol	< 200			ug/kg			8270C
3/4-Methylphenol	< 200			ug/kg			8270C
2,4-Dimethylphenol	< 200			ug/kg			8270C
4-Chloro-3-methylphenol	< 200	8100 (98 %R)	8000 (96 %R) (2 RPD)	ug/kg	26 - 103	33	8270C
4,6-Dinitro-2-methylphenol	< 1000			ug/kg			8270C
Benzoic Acid	< 1000			ug/kg			8270C
N-Nitrosodimethylamine	< 200			ug/kg			8270C
n-Nitroso-di-n-propylamine	< 200	4100 (97 %R)	3900 (93 %R) (4 RPD)	ug/kg	41 - 126	38	8270C
n-Nitrosodiphenylamine	< 200			ug/kg			8270C
bis(2-Chloroethyl)ether	< 200			ug/kg			8270C
bis(2-chloroisopropyl)ether	< 200			ug/kg			8270C
bis(2-Chloroethoxy)methane	< 200			ug/kg			8270C
1,3-Dichlorobenzene	< 200			ug/kg			8270C
1,4-Dichlorobenzene	< 200	3200 (78 %R)	3300 (80 %R) (3 RPD)	ug/kg	28 - 97	27	8270C
1,2-Dichlorobenzene	< 200			ug/kg			8270C
1,2,4-Trichlorobenzene	< 200	3400 (81 %R)	3500 (84 %R) (4 RPD)	ug/kg	38 - 107	23	8270C
2-Chloronaphthalene	< 200			ug/kg			8270C
4-Chlorophenyl-phenylether	< 200			ug/kg			8270C
4-Bromophenyl-phenylether	< 200			ug/kg			8270C
Hexachloroethane	< 200			ug/kg			8270C
Hexachlorobutadiene	< 200			ug/kg			8270C
Hexachlorocyclopentadiene	< 1000			ug/kg			8270C
Hexachlorobenzene	< 200			ug/kg			8270C
4-Chloroaniline	< 200			ug/kg			8270C
2-Nitroaniline	< 200			ug/kg			8270C
3-Nitroaniline	< 200			ug/kg			8270C
4-Nitroaniline	< 200			ug/kg			8270C
Benzyl alcohol	< 200			ug/kg			8270C
Nitrobenzene	< 200			ug/kg			8270C
Isophorone	< 200			ug/kg			8270C
2,4-Dinitrotoluene	< 200	* 4200 (101 %R)	* 4000 (96 %R) (5 RPD)	ug/kg	28 - 89	47	8270C
2,6-Dinitrotoluene	< 200			ug/kg			8270C
Benzidine	< 400			ug/kg			8270C
3,3'-Dichlorobenzidine	< 200			ug/kg			8270C
Pyridine	< 200			ug/kg			8270C
Azobenzene	< 200			ug/kg			8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797 **Batch ID:** 732405-52929/S040406ABN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Carbazole	< 200			ug/kg			8270C
Dimethylphthalate	< 200			ug/kg			8270C
Diethylphthalate	< 200			ug/kg			8270C
Di-n-butylphthalate	< 500	4000 (%R)	3900 (%R) (RPD)	ug/kg			8270C
Butylbenzylphthalate	< 200			ug/kg			8270C
bis(2-Ethylhexyl)phthalate	< 200			ug/kg			8270C
Di-n-octylphthalate	< 200			ug/kg			8270C
Dibenzofuran	< 200			ug/kg			8270C
Naphthalene	< 200			ug/kg			8270C
2-Methylnaphthalene	< 200			ug/kg			8270C
Acenaphthylene	< 200			ug/kg			8270C
Acenaphthene	< 200	3400 (80 %R)	3300 (80 %R) (0 RPD)	ug/kg	31 - 137	19	8270C
Fluorene	< 200			ug/kg			8270C
Phenanthrene	< 200			ug/kg			8270C
Anthracene	< 200			ug/kg			8270C
Fluoranthene	< 200			ug/kg			8270C
Pyrene	< 200	3800 (92 %R)	3800 (90 %R) (2 RPD)	ug/kg	35 - 142	36	8270C
Benzo[a]anthracene	< 200			ug/kg			8270C
Chrysene	< 200			ug/kg			8270C
Benzo[b]fluoranthene	< 200			ug/kg			8270C
Benzo[k]fluoranthene	< 200			ug/kg			8270C
Benzo[a]pyrene	< 200			ug/kg			8270C
Indeno[1,2,3-cd]pyrene	< 200			ug/kg			8270C
Dibenz[a,h]anthracene	< 200			ug/kg			8270C
Benzo[g,h,i]perylene	< 200			ug/kg			8270C
2-Fluorophenol (surr)	53 %R	76 %R	76 %R	% Rec	25 - 121		8270C
Phenol-D5 (surr)	62 %R	83 %R	82 %R	% Rec	24 - 113		8270C
2,4,6-Tribromophenol (surr)	65 %R	82 %R	83 %R	% Rec	19 - 122		8270C
Nitrobenzene-D5 (surr)	53 %R	72 %R	71 %R	% Rec	23 - 120		8270C
2-Fluorobiphenyl (surr)	57 %R	76 %R	75 %R	% Rec	30 - 115		8270C
p-Terphenyl-D14 (surr)	82 %R	82 %R	79 %R	% Rec	18 - 137		8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#:53797 **Batch ID:** 732405-52929/S040406ABN1

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Acid and Base/Neutral Extractable Compounds QA/QC and Narrative Report

Matrix:	Aqueous		Solid	
Units:	%		%	
EPA Method:	625/8270	RPD	8270	RPD
Acid Extractables Spikes:				
Phenol	12-110	42	26-90	35
2-Chlorophenol	27-123	40	25-102	50
Pentachlorophenol	9-103	50	17-109	47
4-Nitrophenol	10-80	50	11-114	50
4-Chloro-3-methylphenol	23-97	42	26-103	33
Base/Neutral Extractables Spikes:				
N-Nitroso-di-n-propylamine	41-116	38	41-126	38
1,4-Dichlorobenzene	36-97	28	28-104	27
1,2,4-Trichlorobenzene	39-98	28	38-107	23
2,4-Dinitrotoluene	24-96	38	28-89	47
Acenaphthene	46-118	31	31-137	19
Pyrene	26-127	31	35-142	36
Acid Extractables Surrogates:				
2-Fluorophenol	21-110		25-121	
Phenol-d5	10-94		24-113	
2,4,6-Tribromophenol	10-123		19-122	
Base/Neutral Extractables Surrogates:				
Nitrobenzene-d5	35-114		23-120	
2-Fluorobiphenyl	43-116		30-115	
p-Terphenyl-d14	33-141		18-137	

Samples were extracted and analyzed within holding time limits.
Instrumentation was tuned and calibrated in accordance with the method requirements.
The associated method blank(s) were free of contamination at the reporting limit.
The associated (MS) matrix spike(s) and/or (LCS) Laboratory Control Sample(s) met the above stated criteria.
There were no exceptions in the analyses, unless noted.
DOR: Diluted out of calibration range.
MI: Matrix interference.

"LCS", "LCSD": 2,4-Dinitrotoluene deviated above the QA/QC limits.

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Sample ID:	SS-1	SS-2	SS-3	SS-4				
Lab Sample ID:	53797.01	53797.02	53797.03	53797.04				
Matrix:	soil	soil	soil	soil				
Date Sampled:	3/29/06	3/29/06	3/29/06	3/29/06				
Date Received:	3/31/06	3/31/06	3/31/06	3/31/06	**Units**	**Date of Analysis**	**Method**	**Analyst**
Antimony	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Arsenic	**6.3**	**8.0**	**11**	**4.9**	mg/kg	4/10/06	6020	DS
Beryllium	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Cadmium	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Chromium	**25**	**28**	**20**	**20**	mg/kg	4/10/06	6020	DS
Copper	**54**	**63**	**36**	**37**	mg/kg	4/10/06	6020	DS
Lead	**79**	**130**	**36**	**28**	mg/kg	4/10/06	6020	DS
Mercury	**0.3**	**0.5**	**0.2**	**0.2**	mg/kg	4/10/06	6020	DS
Nickel	**12**	**14**	**11**	**11**	mg/kg	4/10/06	6020	DS
Selenium	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Silver	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Thallium	< 0.5	< 0.5	< 0.5	< 0.5	mg/kg	4/10/06	6020	DS
Zinc	**110**	**80**	**44**	**45**	mg/kg	4/10/06	6020	DS

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	Units	Date of Analysis	Method
Antimony	< 0.5	44 (109 %R)	mg/kg	4/10/06	6020
Arsenic	< 0.5	45 (112 %R)	mg/kg	4/10/06	6020
Beryllium	< 0.5	44 (109 %R)	mg/kg	4/10/06	6020
Cadmium	< 0.5	44 (109 %R)	mg/kg	4/10/06	6020
Chromium	< 0.5	44 (111 %R)	mg/kg	4/10/06	6020
Copper	< 0.5	43 (108 %R)	mg/kg	4/10/06	6020
Lead	< 0.5	44 (109 %R)	mg/kg	4/10/06	6020
Mercury	< 0.1	0.4 (109 %R)	mg/kg	4/10/06	6020
Nickel	< 0.5	44 (110 %R)	mg/kg	4/10/06	6020
Selenium	< 0.5	45 (112 %R)	mg/kg	4/10/06	6020
Silver	< 0.5	10 (102 %R)	mg/kg	4/10/06	6020
Thallium	< 0.5	43 (107 %R)	mg/kg	4/10/06	6020
Zinc	< 0.5	40 (100 %R)	mg/kg	4/10/06	6020

Parameter Name	Matrix Spike	Matrix Spike Duplicate
Antimony	1000 (104 %R)	1100 (105 %R) (1 RPD)
Arsenic	1100 (106 %R)	1100 (106 %R) (0 RPD)
Beryllium	1100 (109 %R)	1100 (110 %R) (1 RPD)
Cadmium	1100 (107 %R)	1100 (107 %R) (0 RPD)
Chromium	1000 (100 %R)	1000 (100 %R) (0 RPD)
Copper	990 (97 %R)	970 (95 %R) (2 RPD)
Lead	1100 (114 %R)	1200 (116 %R) (2 RPD)
Mercury	10 (104 %R)	10 (104 %R) (0 RPD)
Nickel	990 (98 %R)	990 (98 %R) (0 RPD)
Selenium	1100 (107 %R)	1100 (108 %R) (1 RPD)
Silver	960 (96 %R)	1100 (105 %R) (9 RPD)
Thallium	1200 (124 %R)	1300 (127 %R) (2 RPD)
Zinc	950 (92 %R)	960 (92 %R) (0 RPD)

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 53797

Client: **The Johnson Company** Client Designation: **Proctorsville, VT | 3-1928-4**

Metals QA/QC and Narrative Report

QA/QC:	LCS	MS	MSD
Matrix:	Aqueous/Soil	Aqueous/Soil	Aqueous/Soil
Units:	%	%	%
EPA Method:	6010B/6020	6010B/6020	6010B/6020
Aluminum	85-115	75-125	75-125
Antimony	85-115	75-125	75-125
Arsenic	85-115	75-125	75-125
Barium	85-115	75-125	75-125
Beryllium	85-115	75-125	75-125
Boron	85-115	75-125	75-125
Cadmium	85-115	75-125	75-125
Calcium	85-115	75-125	75-125
Chromium	85-115	75-125	75-125
Chromium III	85-115	75-125	75-125
Chromium IV	85-115	75-125	75-125
Cobalt	85-115	75-125	75-125
Copper	85-115	75-125	75-125
Iron	85-115	75-125	75-125
Lead	85-115	75-125	75-125
Magnesium	85-115	75-125	75-125
Manganese	85-115	75-125	75-125
Mercury	85-115	75-125	75-125
Molybdenum	85-115	75-125	75-125
Nickel	85-115	75-125	75-125
Phosphorus	85-115	75-125	75-125
Potassium	85-115	75-125	75-125
Selenium	85-115	75-125	75-125
Silicon	85-115	75-125	75-125
Silver	85-115	75-125	75-125
Sodium	85-115	75-125	75-125
Thallium	85-115	75-125	75-125
Tin	85-115	75-125	75-125
Titanium	85-115	75-125	75-125
Vanadium	85-115	75-125	75-125
Zinc	85-115	75-125	75-125

Samples were analyzed within holding time limits.
Instrumentation was calibrated in accordance with the method requirements.
The method blanks were free of contamination at the reporting limits.
The associated matrix spikes and/or Laboratory Control Samples met the above stated criteria.
There were no exceptions in the analyses, unless noted below.

Thallium MSD: The MSD deviated above the acceptance criteria for Thallium. The thallium concentration in the parent sample was below the detection limit. The high spike recovery does not impact the data.

Page 1 of 1

EAI - 1

CHAIN-OF-CUSTODY RECORD

REQUESTED ANALYSIS

FO 53797

ITEM # (For Lab Use Only)	SAMPLE I.D.	SAMPLING DATE/TIME	MATRIX (A–Air S–Soil GW–Ground Water SW–Surface Water DW–Drinking Water WW–Waste Water ☐ Other)	VOC	SVOC	TCLP	METALS	INORGANICS	OTHER	# OF CONTAINERS	NOTES MEOH VIAL #
	SS-1	3/29/06 11:53	S		1		1				
	SS-2	" 12:08	S		1		1				
	SS-3	" 12:48	S		1		1				
	SS-4	" 13:00	S		1		1				

PRESERVATIVE: H-HCl; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER Chad Farrell
COMPANY The Johnson Company
ADDRESS 100 State St.
CITY Montpelier STATE VT ZIP 05602
PHONE 802-229-4600 EXT
FAX 802-229-5876
E-MAIL CBF@jcomail.com
SITE NAME Proctorsville, VT
PROJECT # 3-1928-4
STATE: ☐NH ☐MA* ☐ME ☑VT ☐OTHER
☑SITE INVESTIGATION ☐SITE REMEDIATION
☐WASTE CHARACTERIZATION/PROFILE ☐SITE HISTORICALLY CONTAMINATED

☐8 RCRA METALS ☐Fe, Mn ☑13 PP METALS
OTHER METALS
DISSOLVED METALS FIELD FILTERED? ☐YES ☐NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO. IF DIFFERENT)

RESULTS NEEDED BY (ENTER PREFERRED DATE) 4/10/06
(GUARANTEED RAPID TURNAROUND NEEDS PRE-APPROVAL)

QA/QC REPORTING LEVEL
☐A ☑B ☐C
☐MA DATA ENHANCEMENT PACKAGE*

REPORTING OPTIONS
☑HARD COPY ☐FAX
ELECTRONIC
☑E-MAIL ☐DISK

FOR LAB USE ONLY
ADHERED TO EPA PROTOCOL ☐YES ☐NO (SEE ATTACHED)
TEMP. 11 3 °C
ICE? ☑YES ☐NO
CUSTODY SEAL INTACT? ☐YES ☐NO

QUOTE #
P.O. #
SAMPLER(S) Rhonda Kay

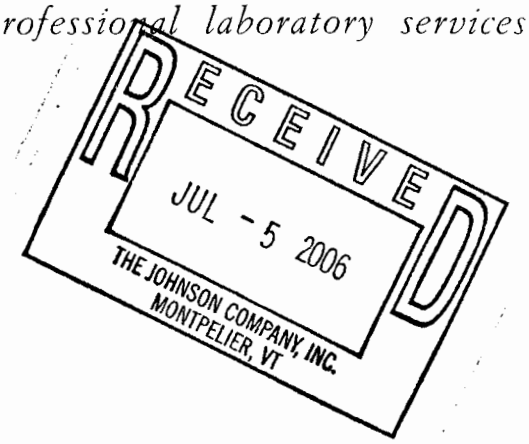
RELINQUISHED BY	DATE	TIME	RECEIVED BY
Rhonda Kay	3/30/06	4:00	
UPS/Custody seal	3/31/06	10:30	
RELINQUISHED BY	DATE	TIME	RECEIVED BY

eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMER_SERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

eastern analytical

professional laboratory services



Rhonda Kay
The Johnson Company
100 State Street
Montpelier , VT 05602

Subject: Laboratory Report

Eastern Analytical, Inc. ID:	55527
Client Identification:	Proctorsville | 3-1928-4
Date Received:	6/16/2006

Dear Ms. Kay :

Enclosed please find the laboratory report for the above identified project. All analyses were performed in accordance with our QA/QC Program. Unless otherwise stated, holding times, preservation techniques, container types, and sample conditions adhered to EPA Protocol. Samples which were collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures. Eastern Analytical, Inc. (EAI) certifies that the enclosed test results meet all requirements of NELAP and other applicable state certifications. Please refer to our website at www.eailabs.com for a copy of our NELAP certificate and accredited parameters.

The following standard abbreviations and conventions apply throughout all EAI reports:

Solid samples are reported on a dry weight basis, unless otherwise noted
<: "less than" followed by the detection limit
TNR: Testing Not Requested
ND: None Detected, no established detection limit
RL: Reporting Limits
%R: % Recovery

Eastern Analytical Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269) and Vermont (VT1012).

This report package contains the following information: Sample Conditions summary, Analytical Results/Data and copies of the Chain of Custody. This report may not be reproduced except in full, without the the written approval of the laboratory.

Analytical Deviation & QA/QC Documentation:
Quality Control Samples associated with this project are included in this report. At a minimum, a Method Blank and Laboratory Control Sample (LCS) are reported. Matrix Spikes and Duplicates are reported where applicable. Deviations are narrated on the QC pages.

If you have any questions regarding the results contained within, please feel free to directly contact me, or the chemist(s) who performed the testing in question. Unless otherwise requested, we will dispose of the sample(s) 30 days from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Michael Swett for

Lorraine Olashaw, Lab Director

6/20/06

Date

7

# of pages (excluding cover letter)

SAMPLE CONDITIONS PAGE

Eastern Analytical, Inc. ID#: 55527

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

Temperature upon receipt (°C): 5.7 **Received on ice or cold packs (Yes/No): Y**

Lab ID	SampleID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
55527.01	MW-4	6/16/06	6/15/06	aqueous		Adheres to Sample Acceptance Policy

Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis.

All results contained in this report relate only to the above listed samples.

References include:

1) EPA 600/4-79-020, 1983
2) Standard Methods for Examination of Water and Wastewater : Inorganics, 19th Edition, 1995; Microbiology, 20th Edition, 1998
3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
4) Hach Water Analysis Handbook, 2nd edition, 1992

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 55527

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

Sample ID:	MW-4
Lab Sample ID:	55527.01
Matrix:	aqueous
Date Sampled:	6/15/06
Date Received:	6/16/06
Units:	ug/l
Date of Extraction/Prep:	6/21/06
Date of Analysis:	6/22/06
Analyst:	BML
Method:	8270C
Dilution Factor:	1

Naphthalene	< 1
2-Methylnaphthalene	< 1
Acenaphthylene	< 1
Acenaphthene	< 1
Fluorene	< 1
Phenanthrene	2
Anthracene	< 1
Fluoranthene	2
Pyrene	2
Benzo[a]anthracene	< 1
Chrysene	< 1
Benzo[b]fluoranthene	< 1
Benzo[k]fluoranthene	< 1
Benzo[a]pyrene	< 1
Indeno[1,2,3-cd]pyrene	< 1
Dibenz[a,h]anthracene	< 1
Benzo[g,h,i]perylene	< 1
p-Terphenyl-D14 (surr)	62 %R

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 55527

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

Sample ID:	MW-4
Lab Sample ID:	55527.01
Matrix:	aqueous
Date Sampled:	6/15/06
Date Received:	6/16/06
Units:	ug/l
Date of Extraction/Prep:	6/21/06
Date of Analysis:	6/23/06
Analyst:	BML
Method:	8270C SIM
Dilution Factor:	1

Benzo[a]anthracene	**0.8**
Chrysene	**0.6**
Benzo[b]fluoranthene	**0.7**
Benzo[k]fluoranthene	**0.4**
Benzo[a]pyrene	**0.7**
Indeno[1,2,3-cd]pyrene	**0.3**
Dibenz[a,h]anthracene	< 0.1
Benzo[g,h,i]perylene	**0.3**
p-Terphenyl-D14 (surr)	**57 %R**

SIM Technique was employed to provide low level quantitation for these compounds.

Eastern Analytical, Inc. ID#: 55527 **Batch ID:** 732483-59045/A062106PAH1

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Naphthalene	< 1	14 (70 %R)	14 (70 %R) (0 RPD)	ug/l	30 - 160	50	8270C
2-Methylnaphthalene	< 1	16 (81 %R)	16 (82 %R) (1 RPD)	ug/l	30 - 160	50	8270C
Acenaphthylene	< 1	15 (74 %R)	15 (76 %R) (3 RPD)	ug/l	30 - 160	50	8270C
Acenaphthene	< 1	14 (72 %R)	15 (73 %R) (1 RPD)	ug/l	46 - 118	31	8270C
Fluorene	< 1	16 (80 %R)	16 (82 %R) (2 RPD)	ug/l	30 - 160	50	8270C
Phenanthrene	< 1	16 (78 %R)	16 (80 %R) (3 RPD)	ug/l	30 - 160	50	8270C
Anthracene	< 1	16 (82 %R)	16 (82 %R) (0 RPD)	ug/l	30 - 160	50	8270C
Fluoranthene	< 1	17 (85 %R)	17 (86 %R) (1 RPD)	ug/l	30 - 160	50	8270C
Pyrene	< 1	19 (95 %R)	19 (96 %R) (1 RPD)	ug/l	26 - 127	31	8270C
Benzo[a]anthracene	< 1	17 (83 %R)	17 (85 %R) (2 RPD)	ug/l	30 - 160	50	8270C
Chrysene	< 1	17 (86 %R)	18 (88 %R) (2 RPD)	ug/l	30 - 160	50	8270C
Benzo[b]fluoranthene	< 1	16 (80 %R)	16 (79 %R) (1 RPD)	ug/l	30 - 160	50	8270C
Benzo[k]fluoranthene	< 1	17 (87 %R)	18 (88 %R) (1 RPD)	ug/l	30 - 160	50	8270C
Benzo[a]pyrene	< 1	18 (88 %R)	18 (88 %R) (0 RPD)	ug/l	30 - 160	50	8270C
Indeno[1,2,3-cd]pyrene	< 1	23 (113 %R)	22 (111 %R) (2 RPD)	ug/l	30 - 160	50	8270C
Dibenz[a,h]anthracene	< 1	23 (115 %R)	23 (113 %R) (2 RPD)	ug/l	30 - 160	50	8270C
Benzo[g,h,i]perylene	< 1	21 (107 %R)	21 (105 %R) (2 RPD)	ug/l	30 - 160	50	8270C
p-Terphenyl-D14 (surr)	81 %R	85 %R	87 %R	% Rec	33 - 141		8270C

LABORATORY REPORT

Eastern Analytical, Inc. ID#: 55527 **Batch ID:** 732484-56968/A062106ABNSI1

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

QC Report

Parameter Name	Blank	LCS	LCSD	Units	Limits	RPD	Method
Benzo[a]anthracene	< 0.1	16 (80 %R)	17 (85 %R) (6 RPD)	ug/l	30 - 160	50	8270C SIM
Chrysene	< 0.1	14 (69 %R)	14 (68 %R) (1 RPD)	ug/l	30 - 160	50	8270C SIM
Benzo[b]fluoranthene	< 0.1	20 (98 %R)	21 (103 %R) (5 RPD)	ug/l	30 - 160	50	8270C SIM
Benzo[k]fluoranthene	< 0.1	15 (76 %R)	14 (72 %R) (5 RPD)	ug/l	30 - 160	50	8270C SIM
Benzo[a]pyrene	< 0.1	21 (104 %R)	21 (103 %R) (1 RPD)	ug/l	30 - 160	50	8270C SIM
Indeno[1,2,3-cd]pyrene	< 0.1	21 (104 %R)	21 (104 %R) (0 RPD)	ug/l	30 - 160	50	8270C SIM
Dibenz[a,h]anthracene	< 0.1	20 (102 %R)	20 (101 %R) (1 RPD)	ug/l	30 - 160	50	8270C SIM
Benzo[g,h,i]perylene	< 0.1	19 (97 %R)	18 (91 %R) (6 RPD)	ug/l	30 - 160	50	8270C SIM
p-Terphenyl-D14 (surr)	70 %R	79 %R	83 %R	% Rec	33 - 141	50	8270C SIM

Eastern Analytical, Inc. ID#: 55527 **Batch ID:** 732483-59045/A062106PAH1

Client: **The Johnson Company** Client Designation: **Proctorsville | 3-1928-4**

Polynuclear Aromatic Hydrocarbons QA/QC and Narrative Report

Matrix:	Aqueous	RPD	Solid	RPD	Oil	RPD
Units:	%	%	%	%	%	%
EPA Method:	8270C		8270C		8270C	
Naphthalene	30-160		30-160		30-160	
2-Methylnaphthalene	30-160		30-160		30-160	
Acenaphthylene	30-160		30-160		30-160	
Acenaphthene	46-118	31	31-137	19	30-160	50
Fluorene	30-160		30-160		30-160	
Phenanthrene	30-160		30-160		30-160	
Anthracene	30-160		30-160		30-160	
Fluoranthene	30-160		30-160		30-160	
Pyrene	26-127	31	35-142	36	30-160	50
Benzo[a]anthracene	30-160		30-160		30-160	
Chrysene	30-160		30-160		30-160	
Benzo[b]fluoranthene	30-160		30-160		30-160	
Benzo[k]fluoranthene	30-160		30-160		30-160	
Benzo[a]pyrene	30-160		30-160		30-160	
Indeno[1,2,3-cd]pyrene	30-160		30-160		30-160	
Dibenz[a,h]anthracene	30-160		30-160		30-160	
Benzo[g,h,i]perylene	30-160		30-160		30-160	
Surrogate (p-Terphenyl-D14)	33-141		18-137		30-160	

Samples were extracted and analyzed within holding time limits.
Instrumentation was tuned and calibrated in accordance with the method requirements.
The associated method blank(s) were free of contamination at the reporting limit.
Sample Surrogate Recoveries met the above stated criteria.
The associated matrix spike(s) and/or Laboratory Control Sample(s) met the above stated criteria.
There were no exceptions in the analyses, unless noted below.

Page 1 of 1 — EAI - Proc

CHAIN-OF-CUSTODY RECORD

55527

REQUESTED ANALYSIS

ITEM # (For Lab Use Only)	SAMPLE I.D.	SAMPLING DATE/TIME	MATRIX (A–Air S–Soil GW–Ground Water SW–Surface Water DW–Drinking Water WW–Waste Water ☐ Other)	VOC	SVOC	TCLP	METALS	INORGANICS	OTHER	# OF CONTAINERS	NOTES (MeOH Vial #)
	MW-4	6/15/06 16:40	GW		2					2	

PRESERVATIVE: H-HCl; N-HNO_3; S-H_2SO_4; Na-NaOH; M-MEOH

PROJECT MANAGER Rhonda Kay
COMPANY The Johnson Company
ADDRESS 100 State St.
CITY Montpelier STATE VT ZIP 05602
PHONE 802-229-4600 EXT 129
FAX 802-229-5876
E-MAIL RTK@jcomail.com
SITE NAME Proctorsville
PROJECT # 3-1928-4
STATE: ☐NH ☐MA* ☐ME ☑VT ☐OTHER
☑SITE INVESTIGATION ☐SITE REMEDIATION
☐WASTE CHARACTERIZATION/PROFILE ☐SITE HISTORICALLY CONTAMINATED

☐8 RCRA METALS ☐Fe, Mn ☐13 PP METALS
OTHER METALS
DISSOLVED METALS FIELD FILTERED? ☐YES ☐NO
NOTES: (IE: SPECIAL DETECTION LIMITS, BILLING INFO. IF DIFFERENT)

RESULTS NEEDED BY (ENTER PREFERRED DATE) 6/25/06
(GUARANTEED RAPID TURNAROUND NEEDS PRE-APPROVAL)
QA/QC REPORTING LEVEL ☐A ☐B ☐C ☐MA DATA ENHANCEMENT PACKAGE*
REPORTING OPTIONS ☑HARD COPY ☐FAX ELECTRONIC ☑E-MAIL ☐DISK

FOR LAB USE ONLY
ADHERED TO EPA PROTOCOL ☐YES ☐NO (SEE ATTACHED)
TEMP. 5.7°C
ICE? ☐YES ☐NO
CUSTODY SEAL INTACT? ☐YES ☐NO

QUOTE #
P.O. #
SAMPLER(S) Rhonda Kay

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Rhonda Kay	6/16/06	8:00	
Custody Seal	6/16/06	1313	

eastern analytical, inc.
professional laboratory services
25 CHENELL DRIVE | CONCORD, NH 03301 | TEL: 603.228.0525 | 1.800.287.0525 | FAX: 603.228.4591 | E-MAIL: CUSTOMER_SERVICE@EAILABS.COM | WWW.EAILABS.COM

(WHITE: ORIGINAL GREEN: PROJECT MANAGER)

APPENDIX 3

FIELD FORMS

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Soil Sample Collection Record

Soil Sample Location ID: SS-1

Project Name: Cavendish Phase II

Project #: 3-1928-4

Site Location: Proctorsville, VT

Date: ~~3/21/06~~ RTK 3/29/06

Weather Conditions: ~~Sunny, 30°F~~ RTK Sunny, 60°F

Time on Site: ~~10:35~~ RTK 11:45

Sampler: RTK

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: Center of site, NE-most point, ~15' W of pavement

GPS coordinates of sampling location: ~~724328.4~~ 724328.4, 1603516.8 Coordinate system: VT SPCS, NAD83, FT

Sample collection method: stainless steel spoon, shovel

Sample depth range (ft): 0.25 - 1.0'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Field or fixed lab analysis	Type of container	Collection time	Sample notes, observations, comments
0.25-1.0'	8270-SVOCs MBN	Fixed	40z amber glass	11:53	some pieces of coal in soil, brown sandy
"	13 RP metals	"	40z " clear glass	11:53	topsoil

General comments / notes: Consolidated soils in bucket

Lab Designation: EAI

Chain of Custody #: EAI-1 Shipper Tracking #:

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Soil Sample Collection Record

Soil Sample Location ID: SS-2

Project Name: Cavendish Town Phase II

Project #: 3-1928-4

Site Location: Proctorsville, VT

Date: ~~3/2/06 RTK~~ 3/29/06

Weather Conditions: ~~Sunny, 30°F RTK~~ Sunny, 60°F

Time on Site: 12:00

Sampler: RTK

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: Center of site, ~~SE-most point, ±2 from pavement~~ NW-most point, 25' from pavement

GPS coordinates of sampling location: 321388.7, 1603501.38 Coordinate system: VT SPCS, NAD 83, FT

Sample collection method: Stainless steel spoon, shovel

Sample depth range (ft): 0.25 - 1.0'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Field or fixed lab analysis	Type of container	Collection time	Sample notes, observations, comments
0.25-1.0'	8270-SVOCs ABN	Fixed	4oz amber glass	12:08	Brown, coarse sand + topsoil, few pieces of coal or charcoal
"	13 pp metals	"	4oz clear glass	12:08	

General comments / notes: Consolidated soils in bucket

Lab Designation: EAI

Chain of Custody #: EAI-1 Shipper Tracking #:

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Soil Sample Collection Record

Soil Sample Location ID: SS-3

Project Name: Cavendish Town Property, Phase II Project #: 3-1928-4

Site Location: Proctorsville, VT Date: ~~3/21/06~~ 4/4/06

Weather Conditions: ~~Sunny, 30°F~~ cold Sunny, 60°F Time on Site: 12:46

Sampler: RTK

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: Near center of site, SW-most point, ~ 15' E of tree line

GPS coordinates of sampling location: ~~3215~~ 7332.1, ~~1603~~ 5182.0 Coordinate system: VT SPCS, NAD 83, FT

Sample collection method: Stainless steel spoons, shovel

Sample depth range (ft): 0.25 - 1.0'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Field or fixed lab analysis	Type of container	Collection time	Sample notes, observations, comments
0.25 - 1.0'	8270 - SVOCs ABN	Fixed	4oz amber glass	12:48	Reddish brn, m. sandy topsoil, some pieces of coal/charcoal
"	13 PP metals	"	4oz clear glass	12:48	

General comments / notes: Consolidated soils in bucket

Lab Designation: EA1

Chain of Custody #: EA1-1 Shipper Tracking #:

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100 State Street, Suite 600
Montpelier, VT 05602

Phone: (802) 229-4600
Fax: (802) 229-5876
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Soil Sample Collection Record

Soil Sample Location ID: SS-4

Project Name: Cavendish ESA - Phase II

Project #: 3-1928-4

Site Location: Proctorsville, VT

Date: ~~3/29/06~~ 3/29/06

Weather Conditions: ~~Sunny, 30°F~~ Sunny, 60°F

Time on Site: 12:55

Sampler: RJK

1. SAMPLE LOCATION AND COLLECTION METHODOLOGY INFORMATION:

Description of soil sampling location: Near center of site, ~~NW~~ SE-most point, ~ 15' ~~from tree line~~ E of pk lot W of pavement

GPS coordinates of sampling location: 321306.5, 1603537.2 Coordinate system: VT SPCS, NAD 83, FT

Sample collection method: stainless steel spoons, shovel

Sample depth range (ft): 0.25 - 1.0'

2. SAMPLE INFORMATION:

Sample depth (ft)	Sample type (analyte(s))	Field or fixed lab analysis	Type of container	Collection time	Sample notes, observations, comments
0.25 - 1.0'	8270 - SVOCs ABN	Fixed	4oz amber glass	13:00	Reddish brn, med. sand
"	13 pp metals	"	4oz. clear glass	13:00	over brn. sandy topsoil

General comments / notes: Consolidated soils in bucket

Lab Designation: EAI

Chain of Custody #: EAI-1 Shipper Tracking #:

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602 USA

Phone: (802) 229-4600
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www.johnsonco.com

Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town Property Phase II Project #: 3-1928-4 Well ID: MW-1

Site Location: Proctorsville, VT Sampler: NBR Date: 3/29/06

Weather Conditions: Sunny, 55°F Time on Site: 11:00 am

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) TOC Depth to water below MP (ft): 10.68'

Total well depth (ft): 18' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: P. pump + SS. bailer Stabilized intake depth: 14'

Purge Volume @ well volumes: (gal) Purge Rate: 200 (ml/min)

Parameter equipment: YSI, turbidimeter

198 ml/min

Time	Depth (ft.)	volume removed (~2)	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
11:15	~~12.07~~ 10.72							
11:19	10.75	.8	8.19	9.39	1.19	6.21	-155.	
11:23	10.71	1.6	8.15	9.04	2.12	6.20	-194.3	0.90
11:27	10.71	2.4	8.12	9.06	2.91	6.21	-195	1.53
11:31	10.70	3.2	8.04	9.07	3.27	6.21	-202	9.77
11:35	10.74	4.0	8.02	9.09	3.45	6.22	-197.3	5.24
11:39	10.73	4.8	8.18	9.06	3.87	6.21	-192	4.52

Purge Water Disposal Method Ground Comments (e.g. color, odor): slightly gasoline smell

3. SAMPLE COLLECTION: Method: Ded. tubing & SS bailer (EVOCs) Sample Time: 11:53am

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EAI-2		2x40mL VOA	HCl	8260B
↓	↓		1x plastic bottle	HNO_3	6020
			1x 1L amber	—	8270C ABN

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID = 0.0 ppmV

Duplicate called MW-D, fictitious time 9:00

8260B & 6020 samples only.

Time Off Site_____

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602 USA

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town Property Phase II Project #: 3-1928-4 Well ID: MW-2

Site Location: Proctorsville, VT Sampler: NBR Date: 3/29/06

Weather Conditions: Sunny, 60°F Time on Site: 12:46

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) TOC Depth to water below MP (ft): 11.64'

Total well depth (ft): 19' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: Perist. pump Stabilized intake depth: 15'

Purge Volume @ well volumes: (gal) Purge Rate: 211 (ml/min)

Parameter equipment: YSI, turbidimeter

Time	Depth (ft.)	volume removed (L)	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
12:46	11.00							
12:50	11.1	.844	10.11	11.34	2.09	6.23	-94.0	
12:54	11.5	1.688	10.15	11.21	2.32	6.21	-95.9	28.7
12:58	11.9	2.532	10.01	11.19	2.42	6.26	-103.6	14.1
1:02	11.2	3.376	10.11	11.18	2.36	6.29	-102.6	9.37
1:06	11.18	4.22	10.18	11.19	2.31	6.30	-102.2	6.04
1:10	11.14	5.064	9.99	11.18	2.19	6.31	-102.6	3.81
1:14	11.15	5.908	9.97	11.18	2.11	6.32	-102.6	3.75
1:18	11.13	6.752	10.07	11.13	2.04	6.33	-102.5	3.74
1:22	11.14	7.596	9.83	11.17	1.94	6.33	-103.2	3.37

211 mL/min

Purge Water Disposal Method Ground Comments (e.g. color, odor): Slightly gasoline odor

3. SAMPLE COLLECTION: Method: Ded. tubing + SS bailer (SVOCs) Sample Time: 1:24

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	5241-2		2x 40 mL Vial	HCl	8260B
↓	↓		1 plastic	HNO_3	6020
			1x 1L amber	—	8270C *

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID = 0.0 ppmV

* Duplicate of SVOCs taken @ 9:15 (Kieth)

Time Off Site 1:30

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602 USA

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town Property Phase II Project #: 3-1928-4 Well ID: MW-3

Site Location: Proctorsville, VT Sampler: NBR Date: 3/29/06

Weather Conditions: Sunny, 60°F Time on Site: 1:38

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP): TOC Depth to water below MP (ft): 6.86'

Total well depth (ft): 12.8' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: Peri.st. pump Stabilized intake depth: 7.5'

Purge Volume @ well volumes: (gal) Purge Rate: (ml/min)

Parameter equipment: YSI, turbidimeter

177

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
1:42	6.87							
1:46	6.82	.688	8.24	509	12.78	5.95	73.8	
1:50	6.91	1.376	8.13	510	8.34	6.03	75.4	24.2
1:54	6.9	2.064	7.95	509	7.57	6.03	75.1	27.3
1:58	6.92	2.752	7.74	507	7.46	6.01	77.8	12.8
2:02	6.89	3.44	7.83	510	7.33	6.01	78.6	6.57
2:06	6.92	4.128	7.55	510	7.18	6.00	78.8	4.40
2:10	6.93	4.816	7.70	508	7.14	6.00	77.7	8.19

Purge Water Disposal Method Ground Comments (e.g. color, odor): slightly gasoline odor

3. SAMPLE COLLECTION: Method: Ded. tubing, SS bailer (SVOCs) Sample Time: 14:16

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	GAL-2		2x 40mL VOA	HCl	8260B
↓	↓		1 plastic	HNO_3	6020
			1x1L Amber	—	8270C

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID = 0.0 ppmV

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Time Off Site 2.37

THE JOHNSON COMPANY, INC.
100 State Street, Suite 600
Montpelier, VT 05602 USA

Phone: (802) 229-4600
Fax: (802) 229-5876
www.johnsonco.com

Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town Property Phase II Project #: 3-1928-4 Well ID: MW-4

Site Location: Proctorsville, VT Sampler: NBR Date: 3/29/06

Weather Conditions: Sunny, 60°F Time on Site: 2:30

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) TOC Depth to water below MP (ft): 5.77'

Total well depth (ft): 12.8' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: Peristaltic pump Stabilized intake depth: 7.5'

Purge Volume @ well volumes: (gal) Purge Rate: (ml/min)

Parameter equipment: YSI, turbidimeter

1.98 gal/foot

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
2:37	5.166							
2.36	5.85	.8	7.34	420	12.03	5.77	86.1	
2.40	5.83	1.6	7.24	441	8.35	5.89	37.4	28.6
2.44	5.85	2.4	7.37	440	6.35	5.93	24.7	16.4
2.48	5.83	3.2	7.30	438	5.26	5.95	21.0	14.5
2.52	5.82	4.0	7.37	440	4.82	5.97	18.1	8.96
2:56	5.83	4.8	7.08	434	4.21	5.97	16.4	13.4
3:00	5.83	5.6	7.17	440	3.95	5.97	17.7	6.07

Purge Water Disposal Method Ground Comments (e.g. color, odor): —

3. SAMPLE COLLECTION: Method: ~~YSI~~ Ded. tubing, SS bailer (SVOCs) Sample Time: 3:05

D.O./Method (mg/L)	~~Alk/Method~~ (ppm)	Nitrate/Method (mg/L)	Iron/Method ~~(mg/L)~~	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EA1-3		2x40mL VOA	HCl	8260B
↓	↓		1 plastic	HNO_3	6020
			1x1L amber	—	8270C

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID = 0.0 ppmV

Time Off Site 3:10

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Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town to Phase II property Project #: 3-1928-4 Well ID: MW-5

Site Location: Proctorsville, VT Sampler: NBK Date: 3/9/06

Weather Conditions: Sunny 60°F Time on Site: 3:52

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP): TOC Depth to water below MP (ft): 5.74'

Total well depth (ft): 12.8' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: P-pump Stabilized intake depth: 7.5'

Purge Volume @ well volumes: (gal) Purge Rate: 211 (ml/min)

Parameter equipment: YSI + turb.

3/11/06 MT

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
3:52	5.67							
3:56	5.71	.844	6.27	361	8.13	5.84	98.6	
~~4:00~~	5.75	1.688	5.81	390	7.33	5.81	92.4	9.42
4:04	5.73	2.532	5.92	399	7.21	5.80	95.9	8.54
4:08	5.78	3.376	5.78	401	7.18	5.81	98.0	6.69
4:12	5.75	4.22	5.82	402	7.22	5.81	100.2	7.33

Purge Water Disposal Method: ground Comments (e.g. color, odor): None

3. SAMPLE COLLECTION: Method: Bed tubing + SS bailer Sample Time: 4:14 pm

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EA-2	~~HO~~	VOA	HCl	8260B
"			plastic	HNO_3	6020
"			1 lt amber	none	8270C

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID > 6.0 ppmV

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Time Off Site 4:20 pm

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Ground Water Monitoring Well Sample Collection Record

Project Name: Cavendish Town Property Phase II Project #: 3-1928-4 Well ID: MW-6

Site Location: Proctorsville, VT Sampler: NBB Date: 3/29/06

Weather Conditions: Sunny 60°F Time on Site: 3:12

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP) TOC Depth to water below MP (ft): 6.77

Total well depth (ft): 12.8' Well Dia.(in): 1" Length of water column in well (ft):

Gallons per foot[1]: Well volume (gal):

2. PURGING DATA: Method: P. pump Stabilized intake depth: 7.5'

Purge Volume @ well volumes: (gal) Purge Rate: 177 (ml/min)

Parameter equipment: YSI + turb.

177 ml/min

Time	Depth (ft.)	volume removed (L)	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)
3:15								
~~3:16~~	6.68	0.531						
3:19	6.82	~~.708~~	8.11	307	5.57	6.27	46.2	
3:22	6.83	1.062	8.07	301	5.22	6.23	39.2	11.5
3:25	6.82	1.593	8.22	295	5.10	6.19	50.1	8.92
3:28	6.82	2.124	8.16	295	5.07	6.16	52.9	7.16
3:31	6.82	2.655	8.02	294	5.05	6.14	54.1	5.34
3:34	6.83	3.186	7.91	293	5.06	6.12	55.4	4.65
3:37	6.84	3.717	7.86	293	5.04	6.13	54.9	4.33
3:40	6.85	4.248	7.90	~~294~~ 294	5.04	6.19	50.2	~~4.54~~ 4.41

Purge Water Disposal Method ground Comments (e.g. color, odor): None

3. SAMPLE COLLECTION: Method: Ded + tubing + SS bailer Sample Time: 3:45 pm

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW	EA-2		VOA	HCl	8260B
↓			plastic	HNO_3	6020
↓			1L Amber	none	8270 C

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments: PID = 0.0 ppmV

Pumped ~2 gallons from well in morning of 3/29/06 - did not pump dry.

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Time Off Site 3:50 pm

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Ground Water Monitoring Well Sample Collection Record

Project Name: Proctorsville Village Project #: 3-1928-4 Well ID: MW-4

Site Location: Proctorsville, VT Sampler: RTK Date: 6/15/06

Weather Conditions: Sunny, 75°F Time on Site: 16:10

1. WATER LEVEL DATA: (from TOC)

Description of measuring point (MP): TOC Depth to water below MP (ft): 4.78'

Total well depth (ft): 12.64' Well Dia.(in): 1.0 Length of water column in well (ft): 7.86'

Gallons per foot[1]: 0.041 Well volume (gal): 0.32

2. PURGING DATA: Method: Bailer - Stainless Steel Stabilized intake depth:

Purge Volume @ 3 well volumes: 1 (gal) Purge Rate: (ml/min)

Parameter equipment: —

Time	Depth (ft.)	volume removed ( )	Temp (°C)	Spec Cond. (uS/cm) @25°C	Dissolved Oxygen (mg/L)	p.H. (Std)	ORP (mV)	Turb. (NTU)

Purge Water Disposal Method Ground Comments (e.g. color, odor): Brown, turbid, no odor

3. SAMPLE COLLECTION: Method: Stainless steel bailer Sample Time: 16:40

D.O./Method (mg/L)	Alk/Method (ppm)	Nitrate/Method (mg/L)	Iron/Method (mg/L)	Sulfate/Method (mg/L)

Sample Matrix	Chain-of-Custody#	Shipper ID#	Container Qty/type	Preservation	Analytical method/Lab
GW			2x 1L Amber	Ice	8270C-PAHs

[1]well volumes for various diameters in gal./ft.

0.50" = 0.01	0.75" = 0.023	1.00" = 0.041	1.25" = 0.064	1.50" = 0.09
2.00" = 0.16	3.00" = 0.32	3.50" = 0.50	4.00" = 0.65	6.00" = 1.47

Comments:

Time Off Site 16:55

APPENDIX L

STEVEN LAROSA

BACKGROUND

2012-Present
Project Manager
Weston & Sampson

2006-2012
Senior Project Manager/
Hydrogeologist
Heindel & Noyes, Inc.

2001-2006
Chief of Operations
Lincoln Applied Geology, Inc.

1997-2001
Senior Scientist, Hydrogeologist
Heindel & Noyes, LLC

1987-1997
Geologist and Hydrogeologist
Lincoln Applied Geology, Inc.

1986
Hazardous Waste Technician
State of Vermont Department of
Water Resources
(Cooperative Education Program)

1985
Analytical Chemistry Laboratory
Technician
Aquatec, Inc. (Cooperative
Education Program)

1984
Research Technician
United States Army Natick
Research and Development
Center (Cooperative Education
Program)

EDUCATION

1987
Bachelor of Science
Geology, Biology minor
Northeastern University

PROFESSIONAL TRAINING

Numerous continuing education seminars and short courses including: Groundwater Geochemistry; Vadose Zone Investigation and Monitoring; QAPP Development; Wastewater Disposal Methods; Soil and Groundwater Remediation Methods and Pump Testing Analyses



Steven is a geologist with 25 years of experience within Vermont and has established relationships over the years with many regulators within the VTDEC. He has extensive experience in preparing work plans and Quality Assurance Project Plans (QAPPs) using TRIAD investigative techniques, cost estimating, health and safety programs, Corrective Action Feasibility Investigations (CAFIs) and Corrective Action Plans (CAPs). Steve has been involved with all aspects of surface and subsurface investigation with various types of drill and testing equipment and routinely provides legal expert testimony regarding environmental site contamination issues in Vermont.

SPECIFIC PROJECT EXPERIENCE

Brownfield Redevelopment, St Albans, Vermont. Senior scientist for the Brownfield redevelopment of a 120,000-square-foot industrial building situated on 5.5 acres. Contaminants included PCBs, PAHs, VOCs and Metals in building materials, soil and groundwater. Project scope included Qualified Environmental Professional services for Phase II ESA, ABCA/CAP implementation, and redevelopment planning as a Brownfield Economic Revitalization Alliance (BERA) team member.

Pine Street Barge Canal Superfund Site, Burlington, Vermont. Project manager for a Brownfields Development Feasibility Evaluation at a 4.8 acre site abutting the Pine Street Barge Canal Superfund Site in association with the BERA program. Performed a comprehensive geotechnical study which included generation of several proposed development options that considered environmental contamination presence, geotechnical conditions, local planning and zoning, EPA restrictions and cost of construction. Presented a proposed site development for a multi-story commercial building, surface parking for 300 vehicles, and stormwater controls. A significant number of meetings have been required with the BERA team to address developer, regulatory and zoning concerns.

Phase II Site Investigation, Brattleboro, Vermont. Project manager for a Phase II Site Investigation at a former dry cleaners property at 118 Elliot Stree. This work, performed for the Vermont Department of Environmental Conservation, included supplemental data collection related to chlorinated solvents in soils, groundwater and bedrock with 16 soil borings, installation of a 70-foot deep bedrock well and groundwater sampling. Analysis of the field information determined that the drycleaner was not a primary cause of the bedrock contamination observed beneath the site and a Certificate of Completion was obtained to facilitate the property transfer.

Brownfields Project on Two Parcels, Brattleboro, Vermont. Project manager for a Brownfields project on 2 parcels formerly used by the Estey Organ factory for the Windham Regional Commission. Work involved a Phase I ESA, SSQAPP and Phase II ESA in support of redevelopment for light industrial/commercial uses on one parcel and for a wood pellet boiler plant on the other. The field work included testing of soils, groundwater and soil gas which discovered elevated PAHs and arsenic in soil; lead and copper in a floor drain; and trichloroethylene and chloroform in soil gas. Future risk will likely be managed with soil capping and institutional controls.

Limited Phase II ESA at Former Paper Mill, Brattleboro, Vermont, Windham Regional Commission. Project manager for a Limited Phase II ESA at a former paper mill that dated back to the 1800s at the Wyman Flint West Parcel in Brattleboro Vermont for the Windham Regional Commission. This former industrial property has planned redevelopment into a park with a pedestrian path along the Connecticut River and recreation access along Cond Spring Pond. A sampling plan was implemented to test for a number of parameters (PAHs, Dioxins/Furans, metals and VOCs) within a number of different matrices (soil, sediment, groundwater and surface water). This data was furnished to the engineering team responsible for the park design to incorporated risk management strategies.

Area Wide Phase I ESA and NEPA Permitting for 14 parcels along Dog River in Northfield, Vermont. Project manager for work performed for the Town of Northfield under our Vermont Downtown Action Team (V-DAT) contract funded by the ACCD. This portion of the V-DAT program provides grant application assistance for disaster recovery efforts associated with Tropical Storm Irene. The project goal is for the Town to acquire the properties, demolish the structures and restore the local riparian buffer with amenities such as a riverside park.

Brownfields Redevelopment, Montpelier, Vermont. Project scientist for the Brownfields redevelopment of a former 1-acre junkyard into a new Multi-Modal Transit Facility in Montpelier Vermont. Over numerous years and working with 5 clients (City of Montpelier, CVRPC, 2 consultants and the Owner) we addressed environmental issues such as PCBs, Lead and PAHs bounded by a railroad line and riverfront. Work included Phase I ESA, Phase II ESA, development and implementation of a TSCA Risk-Based PCB Clean-up plan and a separate VTDEC CAP with a soil management plan and a vapor mitigation plan, on-going annual monitoring and design phase engineering.

Shade Roller Mill, Vergennes, Vermont. Project manager for the redevelopment of a former aerospace industrial facility which over several decades resulted in the release of chlorinated hydrocarbons into the subsurface soil, groundwater and shallow bedrock immediately upgradient of the Otter Creek River. Following closure of the mill and environmental sampling, the intended redevelopment of 2 buildings totaling over 8,000 square feet is proposed as commercial and residential use. Vapor mitigation systems were designed for each building that included spay applied membranes with an applied vacuum using multiple centrifugal fans.

Fillipo Dry Cleaners, Rutland, Vermont. A former dry cleaner released chlorinated solvents into the soil and groundwater that has migrated over 300 feet impacting a residential neighborhood. Project manager for recent work which included horizontal and vertical delineation of the groundwater plume. Planning is under way for performing source area soil removal and design/construction of a PRB immediately upgradient of the residential neighborhood.

Maksa, US Inc, Bradford, Vermont. Project manager for performing Phase II Site Investigation, Corrective Action Feasibility Studies, designed, installed and operated multiple soil and groundwater remediation systems and provided expert testimony for this site. Currently remediation has been completed and annual monitoring is being performed. Industrial dry cleaning was performed at this manufacturing facility for several decades. Waste waters were disposed of into in ground leachfields and multiple solvent release/spill areas existed.

STEVEN SHAW

BACKGROUND

2015-Present
Project Geologist
Weston & Sampson

2011-2015
Project Geologist
Landau Associates, Inc.

2009-2011
Teaching Assistant Coordinator
Western Washington University

2001-2009
Program Manager
Hurricane Island Outward Bound

EDUCATION

2011
Master of Science
Geology
Western Washington University

2009
Bachelor of Arts
Geology
Western Washington University

2001
Bachelor of Arts
Philosophy
Washington College

PROFESSIONAL CERTIFICATIONS

40-Hour HAZWOPER

UST Site Assessment

UST Decommissioning

Confined-Space Entry Training

First Aid / CPR

HONORS & AWARDS

2011
Geology Teaching Assistant of the Year



Steven is an environmental scientist with over 14 years of managment experience and 5 years of assessment and remediation experience. He is skilled at conducting site investigations, developing remediation strategies, and communicating results to regulatory agencies and the public.

Steven has expertise in assessing properties as well as conducting and managing environmental investigations. He has experience with numerous types of contaminated media, including indoor air, subslab soil vapor, groundwater, soil, and marine and freshwater sediment. Other experience includes proposal presentation, estimation of project costs, budget maintenance, and management of field personnel.

SPECIFIC PROJECT EXPERIENCE

Environmental Site Assessments, Various Locations. Completed Phase I Environmental Site Assessments for potential brownfield redevelopment, property transfers, lease agreements, and for identifying Phase II sampling strategies. Property types included former military and commercial airplane hangars, boat manufacturing facilities, airplane parts manufacturing facilities, lumber mills, boatyards, and former residences.

Phase II Remedial Investigation, Yakima, Washington. Designed, implemented, and reported for a Phase II remedial investigation conducted at an abandoned municipal solid waste landfill as part of a brownfield redevelopment project. Project included subsurface delineation of the landfill boundaries with test-pit excavation, installing groundwater and landfill gas monitoring wells with hollow stem auger and direct-push drilling, and sampling soil, groundwater, landfill gas, and surface water runoff. Contaminants included petroleum hydrocarbons (diesel and heavy oil-range hydrocarbons), arsenic, and lead.

Remedial Investigation of Marine Sediment, Everett, Washington. Conducted a remedial investigation of marine sediment contaminated by boat repair and maintenance activities at a marine port for brownfield redevelopment. Project included sampling marine surface sediment using a pneumatic power-grab sampler and sampling subsurface marine sediment using a sediment Vibracorer. Contaminants included metals and non-point source persistent and bioaccumulative toxins (PBTs), including carcinogenic polycyclic aromatic hydrocarbons (cPAHs), polychlorinated biphenyls (PCBs), and tributyltin (TBT).

Sampling at Landfill Site, Bellevue, Washington. Routine compliance groundwater and surface water sampling associated with the monitored natural recovery of a former landfill site. Contaminants included metals and volatile organic compounds (VOCs), including vinyl chloride.

Phase I and Phase II Assessment at Airplane Hangar, Everett, Washington. Conducted a Phase I and Phase II assessment and investigation into a former airplane hangar operated by the military in WWII and the Korean War. Contaminants included VOCs such as carbon tetrachloride and TCE in subslab and shallow soil vapor.

NATHAN SHAFFER, PE, LEED GA

BACKGROUND

2018-Present
Project Engineer
Weston & Sampson

2014-2017
Project Engineer
Barton & Loguidice DPC

2011-2014
Environmental Engineer
Sterling Environmental Engineering, P.C.

2007-2011
Project Engineer
Short Elliott Hendrickson, Inc.

EDUCATION

2007
Bachelor of Science
Civil Engineering
University of Vermont

PROFESSIONAL REGISTRATION

Professional Engineer:
New York No. 098418-1

LEED Green Associate
NYSDEC Class A/B Operator of UST Systems

NYSDOL Class D Asbestos Inspector

Confined Space Entry Certification

OSHA 40-Hour

OSHA 10-Hour

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

National Society of Professional Engineers



Nate is a project engineer with over six years of experience working on environmental projects with a focus on Brownfield remediation, Petroleum Bulk Storage (PBS) and Chemical Bulk Storage (CBS) compliance. Nate also has nearly five years of engineering experience on sanitary sewer projects relating to sanitary sewer evaluation studies, conveyance system design, construction observation, and Inflow and Infiltration (I/I) studies and reporting.

SPECIFIC PROJECT EXPERIENCE

ALCO Brownfield Site, Schenectady, New York.
Provided environmental investigation and remediation services at a former locomotive manufacturing facility in the NYSDEC Brownfield cleanup program. Conducted a site investigation of this 50+ acre site, being redeveloped for commercial and residential use, which had been impacted by coal-related compounds, petroleum, and chlorinated solvents over its 150-year history. Characterized the nature and extent of surface and subsurface environmental contamination. Assisted with interim remedial measure work plans and provided field oversight for removal of 14 underground petroleum storage tanks ranging from 550 to 19,000 gallons, removal of petroleum-contaminated soils, injection of chemical oxidant to treat a chlorinated solvent groundwater plume, large areas of petroleum-contaminated soil, and recovery of over 3,000 gallons of free-phase product from the water table. Prepared numerous reports, including vapor intrusion assessments, building demolition work plans, spill closure reports, site management plans, and final engineering reports. *(with former employer)*

EPA Downtown Brownfields Program, Glens Falls, New York. Conducted USEPA-approved Phase I ESAs and subsequent Phase II site investigations on select city and privately owned properties to determine potential contamination sources, and to identify, evaluate, and select a long-term remedial action that is cost-effective and environmentally sound. Completed numerous Phase I ESAs for the program. *(with former employer)*

Phase II Site Investigation and NYSDEC Brownfield Cleanup Program Application, Electric Motor Winding Facility, Watervliet, New York. Performed site investigation of the property, including bedrock groundwater monitoring well installation observation, soil classification, and soil and groundwater sampling. Prepared a report summarizing the extent of on-site contamination and potential off-site migration of contaminated groundwater. *(with former employer)*

Petroleum Bulk Storage Compliance and SPCC Plans, Multiple Sites, New York and Pennsylvania. Prepared SPCC plans in accordance with the federal SPCC rule (40 CFR Part 112) for various facilities, including a shipyard, aluminum anodizing plant, electric motor rewinding facility, landfill gas-to-energy plants, state park historic sites, scrap metal recycling plants, solid waste landfills, and municipal solid waste transfer stations. For each plan, conducted a comprehensive site visit and compliance inspection of the bulk storage containers for petroleum. Based on these inspections, prepared an implementation plan identifying the corrective actions required and a schedule for achieving compliance with the SPCC rule and

NYSDEC petroleum bulk storage regulations. Responsibilities included conducting the site inspections and preparing the SPCC plans, including detailed sections on bulk storage of petroleum, pollution prevention measures, and spill response. *(with former employer)*

Major Oil Storage Facility Secondary Containment Inspection and Liner Replacement, Private Client, Glenmont, New York. Inspected and evaluated two petroleum bulk storage tank secondary containment areas storing more than 50 million gallons of petroleum products for compliance with NYSDEC and USEPA regulations. Documented deficiencies requiring corrective actions in accordance with NYSDEC's DER-17 guidelines. Served as a key team member for liner replacement design (including subcontractor survey of the existing containment area), developed the construction/installation inspection plan, coordinated repair plan approvals with NYSDEC, and provided inspection and QA/QC oversight during construction of the liner replacement. Subsequently, provided a final inspection certification and as-built drawing of the repaired secondary containment areas for continued use. *(with former employer)*

Phase II Site Investigations, Various Sites, New York. Performed Phase II site investigations for an active apple orchard and for former industrial or commercial sites, including a knitting mill, brick manufacturing facility, dry cleaners, gas stations, municipal solid waste transfer stations, livestock exchange, taxi cab company, and landfill. Work included test pit installations, temporary and permanent groundwater well installations, soil and groundwater sampling, underground gasoline or fuel oil storage tank removals, spill reporting, defining the extent of soil contamination, excavation and removal of contaminated soils for appropriate disposal, and subsequent spill closure. *(with former employer)*

Chemical Bulk Storage Tank Inspection and Spill Prevention Reports, Multiple Facilities, New York. Performed annual and 5-year chemical bulk storage (CBS) tank compliance inspection for a paper mill, water treatment plants, and wastewater treatment plants. Prepared CBS spill prevention reports, in compliance with NYSDEC regulations, and identified deficiencies in secondary containment systems for bulk tanks and bulk delivery vehicles. Assisted with design of delivery tanker transfer containment systems and bulk storage tank secondary containment system installations and improvements in accordance with applicable regulations. Conducted the inspections, prepared reports, and assisted with the design of transfer and tank containment systems. *(with former employer)*

Mills-Norrie State Historic Site, NYSOPRHP, Staatsburg, New York. Assisted with closure work for two 275-gallon ASTs and one 2,000-gallon UST. Performed the environmental monitoring and closure sampling for the removal activities and prepared the closure report, including the revised PBS registration application for tank closures. *(with former employer)*

Clarence Fahnestock State Park, NYSOPRHP, Cold Spring, New York. Assisted with closure work for a 4,000-gallon AST. Performed environmental monitoring of the removal activities and prepared the closure report. *(with former employer)*

Former Municipal Pump Station, Tarrytown, New York. Assisted with closure work for one 550-gallon UST. Performed the environmental monitoring and closure sampling for the removal activities and prepared the closure report. *(with former employer)*

APPENDIX M

REFERENCES

ASTM, E1527-13. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

ASTM, E2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions.

Environmental Data Resources, Inc., The EDR Radius Map Report with GeoCheck, Historical Topo Map Report, Aerial Photo Decade Package Report, City Directory Image Report, and Historical Fire Insurance Maps, Inquiry Number 5259973.2s, dated April 16, 2018.

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