SOURCE PROTECTION PLAN UPDATE
Town of Hinesburg
Wells 4, 5 & 6
WSID #5070

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Prepared by:

Sprague GeoScience LLC
480 Salvas Road
Huntington, VT 054621
(802) 434-5522

SOURCE PROTECTION PLAN

Town of HinesburgWells 4, 5 and 6

Joy Dubin Grossman Assistant Town Manager	Date
Erik Bailey, Director of Utilities & Facilities/Superintendent	Date

TABLE OF CONTENTS

I. INTRODUCTION

A. Update Summary

A PSOC inspection was conducted on December 8, 2021. The following updates were made to this Source Protectionplan to reflect changes in the Town of Hinesburg, Wells 4, 5 & 6 SPAs:

- This SPPU now includes the Well 6 SPA
- Emergency Contact list reviewed and updated.
- Management Plan reviewed and updated.
- Landowner list for Wells 4 & 5 SPA updated with new property owners highlighted and a separate list of the 37 new property owners created, list of landowners for Well 6 SPA created, located in Appendix F.
- Letter to landowners updated, located in Appendix G.
- Letters to additional businesses added, located in Appendix I.
- Updated PSOC inventory, located in Tables 2A & B.
- Added additional maps and plan, located in Appendix B and M (Well 6 maps).
- Added additional photos, located in Appendix A.

B. Background and Purpose

The purpose of this Source Protection Plan (SPP) is to identify potential sources of contamination that may threaten the Town of Hinesburg's (Town) Wells # 4, 5 & 6 and to outline management measures that the Town will use to control any present or future risks to its water supplies. This document has been prepared in accordance with the Vermont Water Supply Rule, Chapter 21, revision dated March 17, 2020. Under the Rule, a Source ProtectionPlan consists of the following basic elements:

- An inventory of potential sources of contamination (PSOCs);
- An assessment of risks posed by these PSOCs;
- A management plan to minimize risks to the water source; and
- A contingency plan for responding to emergency loss of the water supply.

A carefully researched and thoughtful SPP is an important first step in source water protection because it sets priorities for actions to take in protecting the water sources. Actions by the Town, surrounding landowners, and the larger community are the key to achieving comprehensive protection. Also, having good forest cover in the Source Protection Area (SPA) is considered one of the best ways for maintaining, or improving, both the quantity and the quality of groundwater and surface water. Maximizing tree coverage within the watershed increases groundwater infiltration, reduces erosion, and reduces the probability of contaminant releases into the watershed.

C. Water System Description and Source Information

The Town of Hinesburg is currently serviced by Wells 4 and 5. Well 6 is currently being permitted and is included in this SPPU. The Lyman Meadows Well only services the Lyman Meadows Condominiums. Other wells which are no longer in use include Wells #1 and #3 which have been abandoned, and Well #2 which is not in use at this time and is no longer connected to the system.

The Town of Hinesburg Wells 4 and 5 are located southwest of the intersection of Route 116 and Shelburne Falls Road, on the Quinn McElwain parcel, (149 Shelburne Falls Road) in Hinesburg, Vermont (**Figure 1, Appendix L**). Photos of the wells are presented in **Appendix A**. The wells have been permitted for a combined rate of 260 gallons per minute (gpm). Specifically Well #4 has a permitted capacity of 200 gpm and Well #5 has a permitted capacity of 60 gpm. Well 6 is located on the Haystack Crossing LLC property (Routes 116 and Shelburne Road) in Hinesburg (**Figure 1 Appendix M**). The requested permitted capacity for Well 6 is 180 gpm.

According to the Well Completion Reports, Well #4 (WL004 - well tag # 48478) was completed on April 1, 2014 by Vermont Well and Pump of Hinesburg, Vermont (Drillers license No. 222). The well is 597 feet deep and is equipped with 100 feet of 8" diameter steel casing. Well 4 was grouted to just below the ground surface. The driller's estimated yield is 250 gallons per minute (gpm).

Hinesburg Well #5 (WL005 - well tag #48477) was drilled on March 5, 2014, by Vermont Well and Pump. The well is 600 feet deep. The 6" diameter borehole was originally equipped with 50 feet of 7" diameter steel casing. Subsequent modifications were made and the well currently has an 8-inch diameter, 29-lb steel casing set at a depth of 105 feet. The casing was sealed with a drive shoe, and was grouted to just below the ground surface. The borehole diameter was increased to 7.88 feet to a depth of 260 feet. Well # 5 has a driller's yield of 125 gallons per minute.

Hinesburg Well #6 (WL006 – well tag# 55965) was originally drilled on January 2, 2019, by Vermont Well and Pump. The well was deepened on September 24, 2019. The final depth of the well is 720 feet, with 137 feet of 8 inch diameter, 29-lb steel casing. The casing was sealed using a drive shoe and grouted with Portland cement. The driller's estimated yield was 300 gallons per minute (gpm) based on a one hour compressed air blow test. The major water-bearing fracture was encountered between 235 – 237 feet. The static water level in the well is on the order of 13 feet below the top of the casing.

Table 1 shows a summary of source information for Wells 4, 5 & 6.

Table 1. Source Information

Source #	Source Type	Date Drilled	Well Depth (feet)	Casing Length (feet)	Driller's Estimated Yield (gpm)
WL004	Bedrock Well	April 1, 2014	597	100	250
WL005	Bedrock Well	March & June 2014	600	105	125
WL006	Bedrock Well	January 2, 2019 & September 24, 2019	720	137	300

The well construction reports for the Town of Hinesburg Wells 4 and 5 indicate that bedrock was encountered at a depth of 38 and 42 feet respectively. The surficial materials have been logged as brown clay overlying gray clay. Bedrock was encountered at a depth of 117' in Well 6. Surficial materials were logged as clay from 0- 83 feet, overlying "clay and gravel" from 83 to 117 feet. The well construction reports, as well as a well construction diagram for Well #5 is included in **Appendix C**.

The Town of Hinesburg Wells 4, 5 and 6 were analyzed for all the parameters required for a new public community water source, which includes microbiological, turbidity, inorganic constituents, volatile organic chemicals, synthetic organic chemicals, and radionuclides. PFAS compounds were also required for all PCWS beginning in 2020. The water quality results indicate that all parameters were below their respective maximum contaminant level, and therefore meet required drinking water standards. Hardness, which is not a regulated parameter, was reported at a concentration of 336 mg/l, and 322 mg/l as CaCO3 in Wells 4 and 5 respectively. Well 6 was reported to have a hardness of 237 mg/l as CaCO3. Anything over 150 mg/l is considered hard. The Laboratory reports are presented in **Appendix D**.

The construction of a water softening system and treatment building was completed in July 2016. The water softening system was design and installed by Industrial Services Inc., of St. George Vermont. The treatment process is a series of filtration for the removal of salts and minerals that cause hard water. The larger coarse particles are removed first by bag filtrationthen micron cartridge filters act as a polisher before the final nano filtration. Nano filtration consists of two stages of membrane filters.

The water treatment building contains chemicals for the water treatment process: 15 % sodium hypochlorite, Sodium fluoride granular solid, Vitec-1400 anti-scalant, 25% Sodium Hydroxide, Citric Acid solution, and Sulfuric Acid.

Water from Wells 4 & 5 is pumped into the treatment building and through the hardness removal filtration process. After filtration, water is pumped into a 3,000 gallon concrete tank outside the treatment building referred to as the permeate tank. Water from the permeate tank is pulled into the lower portion of the treatment building and injected with hypochlorite. As the chlorinated water is pumped out of the treatment building and into distribution it is injected witha fluoride solution. Water from Well 6 will be treated by this same process once it is connected to the system.

D. Source Protection Area Description and Two-Year Time of Travel

The Source Protection Area (SPA) is the area surrounding the wells where a contaminant released to the ground surface or subsurface would be reasonably likely to move toward and reachthe well(s). The SPA consists of three (3) zones, namely Zones 1, 2 and 3.

For all three of the Hinesburg wells, Zone 1 is a 125 foot radius circle centered on each of wells. This area was reduced from the standard 200 foot radius due to the widespread clay layer in the vicinity of the wells. For Wells 4 and 5, Zone 2 is roughly oval shaped, and is approximately 5,350 feet by 4,700'. This was determined based both on: the distance vs drawdown relationship of the monitoring wells observed during the Well 4 constant discharge test, and; the piezometric contour map for the end that test. Zone 3 consists of areas topographically up gradient of Zone 2, which utilizes streams as hydraulic boundaries.

For Well 6, Zone 2 was determined primarily on the bedrock piezometric contour map at the end of the 120-hour test. It is somewhat 'wing" shaped and extends upgradient to the east and south and downgradient about 1,802 feet to the west. Zone 3 includes areas topographically upgradient of Zone 2 to the south and east.

Recharge to Well 6 is thought to come primarily from these upgradient areas where the bedrock is

shallow, and in areas along the western flank of the large hill east of Town underlain by a kame terrace.

The two-year time of travel (2Y TOT) calculations were made for both the clay overburden and the bedrock aquifer. The 2Y TOT distance for the clay overburden material for Wells 4 &5 was determined to be on the order of 1.5 to 15 feet, depending on the estimated hydraulic conductivity. The 2Y TOT distance in the fractured carbonate bedrock aquifer was estimated to be on the order of 1,640 feet. For Well 6, the 2Y TOT distance for the clay overburden was determined to be on the order 1.46 feet - 14.6 feet, and the 2Y TOT distance for the bedrock aquifer was calculated to be on the order of 985 feet. It should be noted that the hydraulic conductivity of carbonate rocks can vary by seven (7) orders of magnitude, and will differ from place to place. Therefore, these values are rough estimates at best, and 2Y TOT distances will vary throughout the aquifer.

Calculations for the delineation of the SPA along with the two year time of travel calculations are included in **Appendix E**. A map of the SPA and 2Y TOT for Wells 4 & 5 is shown on **Figure 2 Appendix L,** which depicts the surficial geology on a topographic base map. A similar map for Well 6 is presented in **Appendix M**.

II. POTENTIAL SOURCES OF CONTAMINATION

Wells 4 and 5

The Town of Hinesburg Wells 4 and 5 are located in a rural residential area of town, with commercial properties located just northeast of the wells and open conserved land (Geprag's Park) located to the north and northwest. The Bissonette recreational area, located southwest of Wells 4 & 5, consists of fenced areas for outdoor sports. The remaining areas surrounding the wells are hay fields with future plans for mixed residential/commercial development. A water treatment building is also located on the property (**Appendix A**).

Properties within the Source Protection Area consist primarily of single-family residences and undeveloped wooded hillside lots. However, properties also include a gas station and convenience store (Hinesburg Jiffy Mart, formerly Ballard's Store), Champlain ValleyUnion High School, (CVU), a school bus garage (Chittenden South Supervisory District), Iroquois Manufacturing Company, a scrap metal salvage yard (Burnett Scrap Metals) and agricultural land.

The primary potential sources of contamination (PSOCs) located within the SPA for the Town of Hinesburg Wells 4 and 5 are outlined below:

- Fuel storage tanks
- Hazardous Waste Sites (primarily petroleum products)
- A Scrap Metal Yard (fuel, antifreeze, oil)
- Agricultural activities (fertilizers and pesticides)
- Roadways (deicing salts, fuel leaks, herbicide use near bridges & guard rails)
- Power line and Vermont Gas corridors (herbicide use)
- Residential Properties (on-site septic systems, heating oil storage, and lawn chemical use)

Well 6

The Town of Hinesburg Well 6 is located on the Haystack Crossing LLC property (Span 10152), located west of Route 116 in an area zoned as "Village NW" and "Village Growth Area" in Hinesburg, Vermont. The land currently consists of hay fields, a mowed path, and wet meadows. Future plans call for a mixed residential/commercial development. Surrounding properties consists of a residential property to the northeast owned by KB Real Estate LLC, the Bissonette recreational area with fenced areas for outdoor sports to the northwest, and hay fields with future plans for mixed residential/commercial development to the south (Lyman parcel). Well 6 will be hooked up to the existing water treatment system.

The primary potential sources of contamination (PSOCs) located within the SPA for the Town of Hinesburg Wells 6 is outlined below:

- Fuel storage tanks
- Hazardous Waste Sites
- Former dry cleaner (solvents)
- Agricultural activities (fertilizers and pesticides)
- Roadways (deicing salts, fuel leaks, herbicide use near bridges & guard rails)
- Residential Properties (on-site septic systems, heating oil storage, and lawn chemical use)

A. Inventory and Risk Determination

Potential sources of contamination within the SPA for the Town of Hinesburg Wells 4, 5 and 6 were identified using the data available from the Vermont Natural Resources Atlas, site reconnaissance surveys, and interviews with Town officials to obtain local knowledge.

Each PSOC is assigned a risk level (low, moderate, or high) based on several factors. To determine these risk levels, the nature and quantity of the contaminants associated with the land use, and the routes by which the chemicals could potentially reach the groundwater zone and migrate to the well, were considered. One of these considerations is the surficial materials underlying the PSOC. Those areas underlain by "boulders in clay" are generally thought to have some natural protection to the underlying bedrock aquifer. However, in some cases, contamination was able to reach the bedrock aquifer even though the surficial materials were mapped as "boulder in clay", such as at the Lantmans IGA Site.

Summary tables of the span #, property use, PSOCs, associated contaminants, and risk rating is presented in **Table 2A** (Wells 4&5) and **Table 2B** (Well 6). The property span#s are presented on **Plan 1** (Wells 4&5) and **Plan 2** (Well 6). To save space, only the last 5 digits of the property span # are presented in this document. The span # for all properties located in Hinesburg begins with 294-093.

Wells 4 & 5

Each PSOC is identified on the Plan 1 (**Appendix B)**, using the PSOC ID#s designated below. The two exceptions to this are, PSOC #8 (roads) and PSOC #12 (Zone 3 residential/light commercial properties). Most of the roads are not labeled with the PSOC number, because they are easily identified on the Plan. Zone 3 buildings have not been labeled in order to keep the map from getting too busy. However, all buildings located in Zone 3 are considered PSOC #12.

A table of Hinesburg landowners within the SPA for Wells 4 &5 was prepared by Pam Brangan, Chittenden County Regional Planning Commission. The property owners highlighted in yellow are new owners since the SPP was last updated in 2019. The table is presented in **Appendix F**.

Wells 4 & 5 Potential Sources of Contamination – Zone 1

Zone 1 consists of a 125' radius around each of the wells. The land uses in this zone consist of grassy fields and the water treatment building. There are no significant potential sources of contamination located in Zone 1.

Wells 4 & 5 Potential Sources of Contamination – Zone 2

Many of the buildings located in Zone 2 are currently serviced by the municipal wastewater system. The proposed development on the Lyman parcel and NRG Systems property will alsobe serviced by the municipal wastewater system.

The following presents the PSOCs located within Zone 2 of the SPA.

PSOC #1A and 1B: *Hinesburg Jiffy Mart Gas Station/Convenience Store (Former Ballard's Store)* Span#: 10072, Owner: Global Montello Group.

PSOC 1A: Hazardous Waste Site # 931409. According to information available from the State of Vermont Natural Resources Atlas (NRA) the site is considered a low priority. Petroleum contamination is present in the soils and shallow groundwater, but has had no effect on sensitive receptors. The property was destroyed by fire in 2011. As part of the rebuilding process, contaminated soils were removed from the site. Ongoing groundwater monitoring is currently being conducted at the site. The potential risks consist of petroleum contamination. Given the low priority status, the fact that sensitive receptors have not been affected, and that the site is underlain by clay and boulders, this is considered a ***low risk***.

PSOC 1B: Underground Storage Tanks (UTSs). A list of the active USTs located at the Hinesburg Jiffy Mart is presented in **Appendix H**. There are a total of five (5) permitted Category 1 USTs located on the property. These are used to store gasoline, diesel fuel, and off road diesel. The potential risks consist of a release of petroleum to the environment, either by a leak or overfill of the tanks, or a spill/overfill by the customers. The tanks are double–walled and are equipped with leak and overfill protection. In addition, the site is underlain by clay and boulders which provide protection to the underlying bedrock aquifer. Because the tanks are only about 820 feet up gradient of the wells, and petroleum constituents can move relatively quickly in the groundwater this site is considered ***moderate risk***.

PSOC #2: *Chittenden South Supervisory District (Site# 972248)* Span#: 10371. This site is a bus maintenance garage. According to information available from the State of Vermont Natural Resources Atlas (NRA), the Vermont Department of Environmental Conservation (DEC) considers this a low priority site because although there is contamination present in the shallow groundwater, there has been no effect on sensitive receptors. Four (4) USTs were removed in 1997. The source of contamination includes: diesel fuel, gasoline, heating oil, and waste oil. In October of 2009, approximately 300 cubic yards of the contaminated soils were excavated and poly-encapsulated onsite. The stockpiled soils were subsequently removed for offsite disposal or thin spread onsite in December 2011.

According to the online Vermont Environmental Research Tool, as of October 15, 2021, the monitoring reveals that the shallow groundwater is contaminated with petroleum constituents (TMBs and naphthalene) above Vermont groundwater enforcement standards in several wells. Ongoing monitoring has shown stable concentrations with no offsite impacts. According to Cardno ATC, the environmental consultants for the Site, due to the site geology and other factors, local water supply wells do not appear to have a significant risk of impact from the petroleum releases at the site.

This site is located around 2,500 feet northeast of the wells. The site is considered a ***low risk***, given the DEC low priority status, Cardno ATC conclusion's that there is minimal risk to nearby supply wells, the large distance to Wells 4 and 5, and the clay with boulders overburden materials. There are currently no permitted UST's reported on the property.

PSOC #3: *Commercial and Residential Properties near Ballards Corner*

There are many properties in this area. Commercial properties not listed above which are located near Ballards Corner within Zone 2 ofthe SPA include: the Carpenter-Carse library, dentist office, Merchants

Bank, UVM Medical Center, Hinesburg Family Practice, and a vacant commercial building for sale. This area also includes several residential properties. These properties are all serviced by the municipal waste water system and most, if not all, utilize natural gas, propane or electricity for heating the buildings. There were no fuel oil USTs observed during the site reconnaissance survey of this area.

Potential sources of contamination include: parking lots and the potential use of fertilizers and lawn chemicals. Parked vehicles can leak various types of oils and hydraulic fluids. These properties are located between 500 and 1300 feet NE of the wells. These PSOC represent a ***low risk*** given their distance from the wells and the surficial geology of the area.

PSOC #4A and 4B: *VELCO power line and Vermont Gas corridor* The corridor runs through many properties.

PSOC 4A: The VELCO power line corridor runs north – south and passes through Zone 2 of the SPA. It is located about 1,900 feet west of the wells. PSOCs associated with the power line right-of-way (ROW) consist of the use of herbicides to control vegetation. According to Mr. Jeff Disorda, Supervisor of ROW Vegetation Management for VELCO, much of the ROW in this area is agricultural in nature, therefore, herbicides are not used in those areas. However, herbicides may be used in brushy or treed areas. The power lines are managed on a four year cycle. This is considered a ***low risk*** given the distance to the wells, the presence of a clay confining layer, as well as VELCO's vegetation management policies. A copy of VELCO's 2015 Permit Application, as well as their 2012 and 2015 permits are presented in **Appendix J.** A letter to VELCO concerning the source protection area can be found in **Appendix I.**

PSOC #4B: The Vermont Gas pipe line follows the VELCO powerline. Similar concerns exist for the potential of vegetation control measures. A letter to Vermont Gas Company concerning the source protection area is located in **Appendix I.** This is considered a ***low risk***.

PSOC #5A, B, C and D: *Agricultural Properties/Rec Field/Future Development*
Four agricultural properties were identified within Zone 2 of the SPA, namely David Carse(Span 12118), Bissonette Recreational Area (Span 12344), Haystack Crossing LLC (Span 10152) and Lyman Parcel (Span 11973). These are discussed below:

PSOC 5A: David Carse Parcel: This parcel is located approximately 2,000 – 2,500 feet north northwest of the wells. The property is currently used for growing hay which is managed by Mr. Tim Ballard. There is an eight (8) unit residential subdivision planned for the northeastern portion of this parcel (2,500 feet from the wells), with the lots already in place. The developmentwill be serviced by an engineered designed mound system. PSOC's include nitrates, bacteria andviruses. In addition to the mound system, future potential sources of contamination for this development include typical residential PSOCs such as heating oil storage and lawn/garden chemicals and fertilizers. These are considered a ***low risk*** given their distance to the wells and the overburden materials (the parcel is underlain by clay with boulders and glacialtill).

PSOC 5B: Bissonette Recreational Area: The recreation area is located about 155 feet south of the wells. It is used for outdoor sports fields. It is the understanding of the Hinesburg Water Works Department that fertilizers and herbicides are not utilized on these sports fields. Mowing equipment and motorized vehicles are the only identifiable concerns.

PSOC 5C: Haystack Crossing LLC: Future use of this parcel is for a mixed use residential/commercial development (Black Rock). Future PSOCs include possible heating oil storage, lawn & garden chemicals, leaks from cars, and deicing salt. This development will be serviced by the municipal wastewater system, and is underlain by low permeability materials, therefore this is considered a ***low risk***.

PSOC 5D: Lyman Parcel: The Lyman parcel is located about 1.500 feet south from the wells. It is currently used for growing hay and is mowed. The future plans for this parcel include a residential/small commercial mixed use development. Future PSOCs include possible heating oil storage, lawn & garden chemicals, leaks from cars, and deicing salt. Given the distance to this parcel, site geology and the fact that this development will be serviced by the municipal wastewater system,this is considered a ***low risk***.

PSOC #6: *NRG System/Future development (Span# 11859 &11851)*
NRG Systems designs and manufactures renewable energy systems. The property contains office buildings, a stormwater retention pond, a paved access road, parking lot and driveway. The remaining land owned by NRG Systems and its associates currently consist of grassy fields and a wooded hillside. There are eight - 1,000 gallon propane tanks used for heating the buildings, as well as a geothermal heat pump for heating and cooling purposes. The building is serviced by the municipal wastewater system. Potential sources of contamination include deicing salts used on the driveway and parking lots and the potential for leaks from parked cars.

Future plans for the two parcels associated with this facility include a 160,000 ft^2 commercial/light industrial building complex near Riggs Road and the existing buildings, and a100 unit residential development located north of the facility, towards CVU Road.

These proposed developments will be serviced by the municipal wastewater treatment system. PSOCs include typical residential land uses (possible fuel oil and lawn/garden chemicals) as well as parking lots and driveways (potential fuel spills, deicing salts). These are considered a ***low risk*** given the nature of the contaminants and the site geology, as well as distance and direction to the wells (1,500 – 2,500 E and SE of the wells).

PSOC #7A, B, C &D: *Other Residential properties*
There are several residential properties located within Zone 2 of the SPA. Those residential properties located along CVU Road, Bittersweet Hill Road, and Route 116 near the northeast corner of the intersection with CVU Road, are currently serviced by the municipal waste water system (**Figure 5, Appendix L**).

For the purposes of this plan it is assumed that all residential properties have a driveway, and that they may have a fuel oil tank and use fertilizers and lawn chemicals. Parked vehicles can leak various types of oils and hydraulic fluids and fuel oil tanks may leak or be overfilled. The potential sources of contamination of the properties serviced by on-site septic systems also include: nitrates, bacteria and viruses.

With respect to PSOCs, the parcels have been divided into four groups namely:

- PSOC 7A: Those properties underlain by clay and boulders who are currently serviced by the municipal wastewater system. This includes most of the properties located along CVU Road, which are 1,000 – 2,800 feet NE of the wells, and the Quinn McElwain parcel (the property on which Wells 4 and 5 were drilled). The garage building located on this

property is located about 360 feet north of Well #5. An above ground fuel oil tank was observed in a covered storage area on the south end of this building. The tank was in good shape and located on level ground. PSOCs in these areas are considered a **low risk**, given the overburden material which provides natural protection from shallow sources of contamination.

- PSOC 7B: Those underlain by bedrock and/or glacial till and serviced by the municipal wastewater system. This consists of the properties located on Bittersweet Hill Road, which are located between 1,700 to 2,700 feet ENE of the wells. The shallow depth to bedrock/glacial till does not likely offer much natural protection to the bedrock aquifer; therefore, these properties are considered a ***low*** *to* ***moderate*** *risk*.

- PSOC 7C: Those underlain with clay and boulders with on-site septic systems. This consists of the properties along the south side of Shelburne Falls Road (located 400 – 2200 feet west of the wells), and parcel # 11407 located on the west side of Route 116,1,100 feet southeast of the wells. These are considered a ***low risk*** given the overburden material.

- PSOC 7D: Those underlain by bedrock and/or glacial till, with on-site septic systems. This includes parcels 11478 and 11338, located along Route 116, about 2,200 – 2,700 feet north of the wells. These are considered a ***low*** *to* ***moderate*** risk, given the presumedlack of natural protection to the bedrock aquifer.

Wells 4 & 5 Potential Sources of Contamination (Zones 2 and 3)

PSOC #8 (Roads) and **8A** (Guardrails, bridges)

Paved roads within Zone 2 of the SPA include: Shelburne Falls Road (475' north of wells), Route 116 (1,000' east of the wells); CVU road (1100 feet NE of the wells); Riggs Road (1500'SE of the wells) and Ballard's Corner Road (800' NE of wells). Paved roads within Zone 3 of the SPA include: Route 116, CVU Road, Richmond Road and Pond Road.

Gravel roads located in Zone 2 of the SPA include Pleasant View Lane (550' north of wells) and Bittersweet Hill Road (2,300 feet NNE of wells). The gravel roads located in Zone 3 include Place Road East and West, as well as a several dead end residential roads. These roads are located between 2,800 to 12,000 feet from the wells. It should be noted that all roads within the SPA are considered a PSOC but are not labeled on the maps.

Petroleum leaks and spills from automobiles are possible along these corridors. In addition, deicing salts are used on the paved roads by both the Town and State (Route 116), and represent potential sources of sodium and chloride (PSOC 8). However, these are considered a ***low risk***, given the site geology, and, with respect to deicing salts, water quality data collected in 2014, which indicate that both sodium and chloride concentrations are below the VGES in the Town of Hinesburg Wells 4 and 5.

The Agency of Transportation (AOT) District 5 uses herbicides to control plant growth along guard rails and near the abutments of bridges and large culverts (PSOC 8A). This includes the Patrick Brook culvert under Route 116 (near Ballard's Corner - Zone 2) and the culvert north of the intersection of Place Road and Route 116 (Zone 3). These represent a potential source of synthetic organic chemicals (SOCs). These are considered a ***low risk*** given the overburden

geology (clay with boulders).

Wells 4 & 5 Potential Sources of Contamination – Zone 3

PSOC #9A & B: *Champlain Valley Union High School (Span 10371)*

PSOC #9A: Hazardous Site# 941618.
According to information available from the State of Vermont Natural Resources Atlas the CVU Site was closed on October 13, 2017. This means that site management activity has been completed (SMACed). The Vermont Sites Management Section (SMS) believes that no unacceptable risk to human health or the environment remains at this Site related to the release of #2 fuel oil from the former UST system. There have been no impact to sensitive receptors. Therefore, given that the Site has been closed, it is located 3,000 feet northeast of the wells, and is underlain by boulders in clay, this site is considered a ***low risk***. A copy of the SMAC letter for this Site is presented in **Appendix H.**

There are no permitted UST reported to be remaining on the site.

PSOC #9B: Athletic Fields / Parking Lots.
According to Facilities Director for CVU, only low phosphorus fertilizer is used on the athletic fields, which are located greater than 3,000 feet northeast of the wells. Deicing salts are used on the parking lots. Parked cars can leak fluids, therefore, potential sources include VOCs and sodium chloride. Given the large distance to the wells and the claywith boulders overburden, this is considered a ***low* risk**.

PSOC #10A &B: *Iroquois Manufacturing Co. (Site# 951795), Span# 10805*

PSOC #10A: The Iroquois Manufacturing Company (IMC) fabricates chipper and dump truck bodies, hoists, platforms, and toolboxes. It is located 7,000 feet northeast of the Town of Hinesburg Wells 4 and 5. The property consists of manufacturing buildings and a parking lot. The facility is listed as a hazardous waste site (Site# 951795) by the State of Vermont due to the release of trichloroethene (TCE) to the environment. According to the information available on January 7, 2022 from the Vermont Natural Resources Atlas, as of May 14, 2014 the Site is considered a medium priority because a nearby residential bedrock supply well (no longer in use) and an out of service IMC bedrock supply well have both been reported to contain TCE. Groundwater samples collected in 2009 reported concentrations of TCE of 44.4 micrograms per Liter (µg/L) in the residential well, which is above the maximum contaminant level (MCL) for TCE of 5µg/L. It is anticipated that based on the current trend, the concentration of TCE will remain elevated above the MCL in this well for several years. The site is mapped as being underlain by a "kame terrace" which is composed of sorted sand and gravel deposits. This type of overburden generally does not provide much protection from shallow sources of contamination.

PSOC# 10B: IMC is also listed as a hazardous waste generator by the State of Vermont. According to information available from Vermont Natural Resources Atlas, waste shipped since January 1, 2014 to present primarily consisted of waste paint-related material. According to their 2014 Tier II report, hazardous chemicals that are stored on site include: xylene, methyl ethyl ketone, acetone, methyl-n-propyl ketone and n-butyl acetate. PSOCs include the chemicals mentioned above (VOCs) and metals.

The IMC facility is considered a ***low*** *to* ***moderate*** *risk*, given the large distance to the wells, it's location on the very edge of the SPA, but that TCE has already reached the bedrock aquifer, and since the site stores and generates hazardous materials.

PSOC #11: *Burnett Scrap Metals (Span# 10230 &10231)*

This facility is located 5,200 feet north of the wells, and is permitted to dismantle and crush motor vehicles. Vehicle processing is conducted both inside the storage/sorting building as well as outside on a concrete pad. Vehicle maintenance is also conducted in the building, which is heated with waste oil. According to Shawn Donovan, Salvage Yard Program Coordinator for the State of Vermont, operations have improved quite a bit in the past several years. The site is mapped as being underlain by "beach gravel", thus there appears to be very limited natural protection to the underlying bedrock aquifer. Potential sources of contamination at this site include: motor oil, waste oil, freon, gasoline, diesel fuel and other fluids. This is considered ***low*** *to* ***moderate*** *risk*, given the large distance from the wells, but also the hazardous nature of these products and the permeable overburden materials.

PSOC #12: *Residential/ Light Commercial in Zone 3 and* ***12A:*** *Agricultural Properties in Zone 3*
There are many residential properties and a few light commercial properties located within Zone 3 of the SPA. Those located along CVU Road, the southern portion of Pond Road, Orchard Common Road, Lomeadow Road, and Partridge Hill Road are serviced by the Town wastewater system (**Figure 5 Appendix L**). All other properties are assumed to have on-site septic systems. It is also assumed that these buildings may also use fuel oil for heating purposes. Other typical potential sources of contamination include: driveways and parking areas and the potential use of fertilizers and lawn chemicals. Parked vehicles can leak various types of oils and hydraulic fluids. Septic systems can be a source of nitrates, bacteria and viruses and fuel oil tanks are a potential source of #2 fuel oil due to leaks, spills or overfills. However, since the residential/light commercial properties are located between about 2,800 to 12,000 feet from the wells and,these are considered a ***low risk*** (PSOC 13). These PSOCs are not specifically shown on Plan 1, but can be inferred by the presence of a building.

In addition, the "Ballard Farm" (Span # 10071) which consists of a residence, barn and hay fields has two (2) 250-gallon above ground storage tanks (ASTs) located on a cement pad behind the barn. These are used to store diesel fuel and gasoline. The residence has a fuel oil tank in the basement. The farm no longer has cows, but urea nitrogen pellets are used to fertilize the hay fields. PSOCs associated with the Ballard Farm include those residential uses noted above, as well as VOC's from a potential spill/overfill or leak of the ASTs and nitrate from the fertilizer.

The Ballard Farm is located about 3,300 feet north of the wells. Even though the residence and barn are in an area that is shallow to bedrock and therefore more susceptible to contamination of the bedrock aquifer, given the large distance and responsible management practices, this is considered a ***low risk*** (PSOC 12A).

Well 6

Each PSOC is identified on the "Hinesburg Water Department SPA – PSOC (Well 6)" Figure, as well as Plan 2 (**Appendix B)**, using the PSOC ID#s designated below. The exceptions to this are: PSOC #10 (other Zone 2 Residential and Commercial Properties), PSOC #11 (roads) and PSOC

#17 (Zone 3 residential/light commercial properties). All properties located in Zone 2 that are not already labeled as a potential source of contamination, (namely PSOC # 1-9), are considered PSOC#10. The maps would be too busy if all of these properties were labeled. The roads are not labeled with the PSOC number, because they are easily identified on the Figure and Plan. Zone 3 buildings have not been labeled in order to keep the map from getting too busy. However, all buildings located in Zone 3 are considered PSOC #17.

A table of Hinesburg landowners within the Well 6 SPA was prepared by Pam Brangan, Chittenden County Regional Planning Commission (**Appendix F**). Owners with multiple properties are highlighted in light green.

Well 6 -Potential Sources of Contamination – Zone 1

Zone 1 consists of a 125' radius around the well. The land use in this zone currently consists of a field and a temporary access drive. However the planned future use of this parcel is for a mixed use residential/commercial development, which will be serviced by the municipal wastewater system. Planned uses for Zone 1 include a small stormwater retention pond and a solar array. A plan showing the proposed development is presented in **Appendix M**.

PSOC #1: Stormwater Retention Pond (Span 10152): The proposed stormwater retention pond will be located about 40' east of Well 6. Potential contaminants in stormwater include antifreeze, grease, oil, and heavy metals from cars; fertilizers, pesticides and other chemicals from gardens, homes and businesses; bacteria from pet wastes; and sediment from poor construction site practices. This is a minor stormwater retention pond with limited runoff, and the property is underlain by boulders in clay, however, since this is located in Zone 1 it is required by the State to be a ***high risk***.

Well 6 - Potential Sources of Contamination – Zone 2

Many of the buildings located in Zone 2 are currently serviced by the municipal wastewater system. In addition, the proposed development on the Haystack Crossing parcel, Lyman parcel, and the NRG Systems property will also be serviced the municipal wastewater system.

PSOC #2: Hinesburg Shortsto, AKA Hinesburg Mobil/Jolley Convenience Store (Span 10827):
This is a convenience store/gas station located at 21 Commerce Street, about 1400' east of Well 6. It is listed as a hazardous waste site (SMS Site# 201114243) by the State of Vermont. Petroleum contamination was discovered at the Site in 2011 during the removal of three gasoline UST's. A dissolved-phase gasoline plume has been identified in the shallow groundwater at approximately 5-7 feet below the ground surface. Petroleum compounds are reported to be above the Vermont Groundwater Enforcement Standards (GWES). The Site is listed as a "medium" priority by the State. Soils at the Site are mapped as either clay or glacial till according to the Vermont Natural Resources Atlas (NRA). This is considered a ***low*** to ***moderate*** risk, given the generally low permeability overburden materials, the distance to the well, and the nature of the contamination.

There are currently two active underground storage tanks (USTs) located on the property. One is a 2,000 gallon, Fuel Oil tank (#2 or #4 fuel oil), and the other is a 25,000 gallon duel compartment gasoline tank. This property is also listed as a Hazardous Waste Generator (EPA ID VTR000500314). The active tanks are considered a ***low risk*** given their construction.

PSOC #3: Giroux Body Shop (Span 10614): Three separate buildings are located at the Site, which house an auto body repair and metal fabrication shop (Giroux Body Shop), a trailer, retail and repair company, and residential apartments. The property is located 1800 feet south east of Well #6. This parcel is listed hazardous waste site (SMS Site# 982480) by the State of Vermont. Petroleum contamination was discovered at the Site in 1988 during drilling activities related to the installation of the municipal water line along Route 116. The source of the contamination is believed to be associated with two gasoline underground storage tanks (USTs) that were reportedly removed from the Site in 1987. Contaminated soils were removed via excavation from the Site in 2005, and a bioreactor remediation system was installed in 2006. The remediation system is operating successfully. Annual groundwater monitoring and supplemental site investigation is occurring. The Site is considered a low priority by the State given that there is contamination to shallow soils and groundwater, but no effect on sensitive receptors. Soils at the Site are mapped as clay with boulders according to the NRA. This is considered a ***low*** to **moderate** risk, given the low permeability overburden materials, the distance to the well, and the nature of the contamination.

PSOC #4: International Cheese/Saputo (Span 11476): This is an industrial facility and the site of the Former International Cheese plant. The property is now owned by Catamount-Malone/Hinesburg LLC. This parcel is listed as a closed (SMACed) hazardous waste site (SMS Site# 911017) by the State of Vermont. This Site has a long history of on-site leaky underground storage tanks. On-site remediation has been completed and 400 tons of petroleum contaminated soils have been treated out of State. There is still residual soil impact at the Site with a notice to the land record. The on-site supply well is contaminated with MTBE from an offsite source (Lantman's Store, SMS Site #96-1988). Active remediation for cleanup of MTBE is currently being conducted at the Lantman's store Site.

The chemical storage and maintenance buildings were destroyed by fire in 2008, with only acetone temporarily impacting groundwater above the GWES. Soils at the Site are mapped as clay with boulders. This is considered a ***low risk***, given the low permeability overburden materials, the distance to the well, and because the Site has been closed by the State. However, the Lantman's Store Site is still considered a risk as discussed below in "Potential Sources of Contamination -Zone 3".

PSOC #5 B, C and D: Agricultural Properties/Rec Field/Future Development
(NOTE: These properties are also located within Zone 2 of Wells 4 & 5 and have been given the same PSOC numbers. Note that PSOC 5A is not included here because it is not located in the Well 6 SPA.

These PSOCs include one recreational property and two agricultural properties identified within Zone 2 of the SPA. These are: Bissonette Recreational Area (Span 12344), Haystack Crossing LLC (Span 10152) and the Lyman Parcel (Span 11973). These are discussed below:

PSOC 5B: Bissonette Recreational Area (Span): The Recreation area is located about 500 feet west of Well 6. This property is used for outdoor sports fields. It is the understanding of the Hinesburg Water Works Department that fertilizers and herbicides are not utilized on these sports fields. Mowing equipment and motorized vehicles are the only identifiable concerns. These are considered a ***low risk***.

PSOC 5C: Haystack Crossing LLC (Future Black Rock development): This property currently consists of open fields, woodlands, and the Town of Hinesburg Well 6. The Town maintains control over the land uses within 125' of the Well 6. The future use of this parcel is for a mixed

use residential/commercial development. Future PSOCs include possible heating oil storage, lawn & garden chemicals, leaks from cars, and deicing salt. This development will be serviced by the municipal wastewater system and is underlain by low permeability materials; therefore this is considered a ***low risk***.

PSOC 5D: Lyman Parcel: The Lyman parcel is located about 125 feet south of the well. It is currently used for growing hay. The future plans for this parcel include a residential/small commercial mixed use development. Future PSOCs include possible heating oil storage, lawn & garden chemicals, leaks from cars, and deicing salt. Given the site geology and the fact that this development will be serviced by the municipal wastewater system, this is considered a ***low risk***.

PSOC #6: NRG System/Future development (Span 11859, 11851): NOTE: this facility is also in the SPA for Wells 4&5. The NRG facility is located about 1,700 ENE of Well 6. NRG Systems designs and manufactures renewable energy systems. The property contains office buildings, a stormwater retention pond and a paved access road, parking lot and driveway. The remaining land owned by NRG Systems and its associates currently consist of grassy fields and a wooded hillside. There are eight - 1,000 gallon propane tanks used for heating the buildings, as well as a geothermal heat pump for heating and cooling purposes. The building is serviced by the municipal wastewater system. Potential sources of contamination include deicing salts used on the driveway and parking lots and the potential for leaks from parked cars. According to the NRA, the property is underlain by boulders in clay. These are considered a ***low risk***.

Future plans associated with this facility include a 160,000 ft^2 commercial/light industrial building complex near Riggs Road and the existing buildings, and a 100 unit residential development located north of the facility, towards CVU Road. These will be located about 1,400 ENE of Well 6. The proposed developments will be serviced by the municipal wastewater treatment system. PSOCs include typical residential land uses (possible fuel oil and lawn/garden chemicals) as well as parking lots and driveways (potential fuel spills, deicing salts). These are considered a ***low risk*** given the nature of the contaminants, the site geology and distance to Well 6.

PSOC #7 Morgante Residence (Span 11160): This is a residential property located at 56 Mechanicsville Road. The property is located about 2,300' southeast of Well 6. This is listed as a closed hazardous waste site (SMS Site# 20033159) by the State of Vermont. In 2003 a heating oil UST was removed from the property and soil contamination was found. An initial site investigation was completed, and found no impact to the groundwater. The State found that there was no unacceptable risk to human health or the environment due to any residual contamination remaining in the ground from the removed UST. The site was closed (SMACed) in 2007. Therefore, this is considered a ***low risk***.

PSOC #8 Town Wastewater Treatment Facility (Span 11665): This property is owned by the Town of Hinesburg and consists of the treatment building, lagoons and a small solar array. PSOCs include bacteria, oxygen-demanding wastes, plant nutrients, synthetic organic chemicals, inorganic chemicals, microplastics, sediments, and oil from the lagoons. It is located 1600 feet west of Well 6. The property is underlain by boulders in clay and is serviced by the municipal wastewater system. Therefore, this is considered a ***low risk***.

PSOC #9: Former Dry Cleaner (Span10467): According to the NRA, a dry cleaning facility was formerly located at in the commercial development located at 22 Commerce Street. The facility is located about 1,700 feet ESE of Well 6. PSOCs associated with drycleaners consist of solvents, primarily perchloroethylene (perc). There have been no reports of a release of perc at this site and

the facility is now a laundromat. The property is underlain by boulders in clay. Given the geology, distance to Well 6, the current use, and no evidence of a release, this is considered a ***low risk***.

*PSOC #10**:** Other Zone 2 Residential and Commercial Properties*

There are several "other" residential and commercial properties located within Zone 2 of the SPA, including those located in the village along Farmall Drive and Fredric Way, the lower portion of Mechanicsville Road, Kelley's Field Road, Commerce Street and Route 116. All these properties are at least 800 feet from Well 6, are serviced by the municipal waste watersystem, and are also underlain by either boulders in clay, or glacial till, which are thought to provide some protection to the bedrock aquifer.

For the purposes of this plan it is assumed that all residential and commercial properties have a driveway/parking lot and may have a fuel oil tank, and use fertilizers and lawn chemicals. Parked vehicles can leak various types of oils and hydraulic fluids and fuel oil tanks may leak or be overfilled. These properties are considered a ***low risk*** given the distance from Well 6, site geology, and are connected to the municipal waste water system.

A map showing the location of these PSOCs is presented in **Appendix B**.

Well 6 -Potential Sources of Contamination (Zones 2 and 3)

PSOC #11 (Roads) and 11A (Guardrails, bridges)

Paved roads within Zone 2 of the SPA include: Route 116 (1,100' east of Well 6); Riggs Road (1,200'NE of Well 6), Commerce Street (1,600' east of Well 6), Mechanicsville Road (2200' SE of Well 6) and Farmall Drive and Fredrick Way (about 1300' SE of Well 6). Paved roads within Zone 3 of the SPA include: Route 116, CVU Road, Charlotte Road, Silver Street and Buck Hill Road.

Gravel (or lower grade) roads located in Zone 2 of the SPA consist of Stella Road (2,000' SSE of well 6). The gravel roads located in Zone 3 include Lavine Hill Road, Buck Hill West & East, as well as a several dead end residential roads. These roads are located between 3,000 to 9,000 feet from Well 6. It should be noted that all roads within the SPA are considered PSOC but are not labeled on the map.

Petroleum leaks and spills from automobiles are possible along these corridors. In addition, deicing salts are used on the paved roads by both the Town and State (Route 116), which represent potential sources of sodium and chloride. However, these are considered a ***low risk***, given the site geology and, with respect to deicing salts, water quality data collected in 2020, which indicate that both sodium and chloride concentrations are below the VGES in the Town of Hinesburg Well 6.

The Agency of Transportation (AOT) District 5 uses herbicides to control plant growth along guard rails and near the abutments of bridges and large culverts (PSOC 11A). The only AOT bridge identified in the Well 6 SPA is located on Silver Street, where is crosses the La Platte River. This is located in Zone 3 about 4,200 feet south southeast of Well 6. This represent a potential source of synthetic organic chemicals (SOCs). This is considered a ***low risk*** given the overburden geology (clay with boulders) and distance to Well 6.

Well 6 -Potential Sources of Contamination – Zone 3

PSOC# 12A-E: Closed Hazardous Waste Sites: There are five closed hazardous waste sites located in Zone 3 of the SPA. They are located between 3,600 east to 4200' southeast of Well 6. This includes: *PSOC 12A*, GTE Hinesburg (SMS Site# 931518, Span# 11160); *PSOC 12B*, Hinesburg Elementary School (SMS Site# 982370, Span# 11673); *PSOC 12C*, Eastwind Condos (SMS Site# 992669, Span # 11303); *PSOC 12D*, Jackson Residence (SMS Site# 20114151, Span# 10813); and, *PSOC 12E* Ben's Sandwiches (SMS Site# 20114211, Span # 10118). Details about the hazardous materials associated with these Sites, and the State closure letter (when available) are presented in **Appendix H**. Given that these Hazardous Sites are located in Zone 3 and have been closed by the State, they are considered a ***low risk***.

The Hinesburg Elementary School currently has an active 10,000 gallon Fuel Oil UST. This is considered a *low risk* given the distance to the well and the construction of the tank.

PSOC #13 Hart and Mead Texaco (Span 10694): This is a garage and fuel filling station located at 10919 Vermont Route 116. It listed as Hazardous Waste Site #93-1486. The sources of the contamination are former gasoline underground storage tanks. According to the November 2020 Long Term Monitoring Groundwater Monitoring Report by KAS Environmental Science and Engineering (KAS), two separate dissolved-phase petroleum plumes have been identified in the shallow groundwater aquifer associated with this Site. However, KAS does not believe that drinking water supplies are at risk from petroleum contamination originating from the Hart & Mead Texaco Site. The Vermont DEC considers this a low priority Site with contamination to soils or groundwater, but no effect on sensitive receptors. In addition, it is recommended that the Site be closed (SMACed). Given the low priority status, the distance to Well 6, and since the contamination is not thought to adversely impact nearby supply wells, this is considered a ***low risk***.

There are also two active USTs located at the Hart and Mead Texaco, namely a 12,000 gallon gasoline tank and a 10,000 gallon Kerosene Tank. These are considered a *low risk*, given the distance to the well and the construction of the tanks.

PSOC #14 Lantman's IGA (Span10929) : This is a supermarket located at 10681 VT Route 116. Lantman's was historically utilized as a gasoline service station, and is listed as Hazardous Waste Site #961988. The petroleum USTs were removed from the Site in 1996. These former underground storage tanks were determined to be the major source of MTBE and other volatile organic compound (VOC) contamination.

MTBE has been documented in the bedrock aquifer downgradient of the Site. According to the May 2021, Long Term Monitoring Report (LTMR) for the Lantman's IGA Site by Waite Heindel Environmental Management, MTBE has migrated laterally away from the source area, as well as vertically through the till and unconsolidated rock horizons. It has also migrated through porous horizons and other features in the clay unit, which provide conduits for vertical migration of the MTBE-laden groundwater to recharge the bedrock aquifer.

According to the LTMR noted above, MTBE continues to be detected in high concentrations (well above the VGES) in the Site bedrock monitoring wells. The bulk of MTBE mass will remain dissolved and migrate within bedrock fractures to the hydraulic low, formerly occupied by the Saputo supply well, then the Town Wells, when they were active. High concentrations of MTBE are still present in the bedrock aquifer. Given this scenario, this is thought to be a ***high risk*** to Hinesburg Well 6. However it should be noted that MTBE was NOT detected in the water quality

samples collected from Well 6, on August 21, 2020, at the completion of the 120-hour pumping test.

PSOC #15 Knight Farm (Span10473): This property consists of a residence, barn and 179 acres located at 570 Charlotte Road. The property is owned by Mr. Jeffery Knight. According to Mr. Glenn Brown, Farm Manager, they have been growing 5,000 hemp plants the past couple years and plan to continue to grow hemp in 2022. They also grow a variety of vegetables. They practice organic farming and do not use commercial fertilizers or pesticides on the crops. PSOCs associated with the Knight Farm include those residential uses noted above as well as organic fertilizers. The Knight Farm is located about 2,000 feet south of the Well 6. The property is underlain by boulders in clay, with a couple areas underlain by glacial till. Given the large distance, organic management practices, and favorable surficial materials, this is considered a ***low risk***.

PSOC #16 Munson Auto*: (Span 11182):* This property consists of a mobile home, auto repair garage (Munson Auto) and 3 acres. It is located at 160 Buck Hill Road West and owned by Lawrence and Mary Munson. It is located 6,000 feet southeast of Well 6. Munson Auto is a small auto repair and maintenance business. There are no ASTs or USTs listed for this property on the NRA. PSOCs associated with auto repair include petroleum products, antifreeze, and solvents, which may be spilled or leaked. Given the distance to Well 6 and the small size of the business, this is considered a ***low risk***.

PSOC #17 Residential & Light Commercial properties in Zone 3:

There are many residential properties and light commercial properties located within Zone 3 of the SPA, including restaurants, schools, shops, professional offices, and a horse farm. Some of the residential properties have hay fields and/or horse pastures. Those located along Mechanicsville Road and the dead end roads off of Mechanicsville Road, Vermont Route 116 south to Buck Hill Road, the dead end roads off this section of Route 116, the western end of Buck Hill Road, eastern end of Charlotte Road and the northern portion of Silver Street are serviced by the Town wastewater system (**Appendix M**). All other properties are assumed to have on-site septic systems. It is also assumed that these buildings may also use fuel oil for heating purposes. Other typical potential sources of contamination include: driveways and parking areas and the potential use of fertilizers and lawn chemicals. Parked vehicles can leak various types of oils and hydraulic fluids. Septic systems can be a source of nitrates, bacteria and viruses and fuel oil tanks are a potential source of #2 fuel oil due to leaks, spills or overfills. However, since these properties are located between 3,600 – 10,000 feet from Well 6, they are considered a ***low risk***.

Summary tables of these PSOCs are presented on Table 2A and 2B, located just before the Appendices.

B. Potential for Future Development and Assessment of Future Risks

Future land development within the Source Protection Areas should be monitored for its potentialto impact the Town's water supplies. As noted above there are several plans for residential/light commercial developments south and east of the wells in the "Village" area, as well as for an eight lot residential development on the David Carse property north of the wells. Land uses in these areas should be managed to minimize potential contamination to the Town Wells.

In addition, the Town will conduct annual inspections of the SPA to note any changes in land use that may adversely affect the water quality of the wells. Potential future development will also be monitored by reviewing planning, zoning, land-based sewage disposal and Act 250 applications.

III. MANAGEMENT PLAN

These are some management measures the Town will use to reduce the risk of water supply contamination:

1. The Town will maintain control of the 125' isolation zone around each of the well heads (Zone 1 of the SPA). The Town currently has easements for the areas around Wells 4 7 5 and the treatment building. The Town will pursue future purchase of land if applicable.

2. A copy of the Source Protection Plan will be available for review at the Town Office, so that all property owners, as well as Town, Regional and State officials will have access to the document. Maps of the Source Protection areas are available on the Town's website.

3. The Town will send a letter to the *thirty seven (37) new property owners* within the Source Protection Area for Wells 4 & 5 and to *all property owners* within the SPA for Well 6, to notify them that activities on their land have the potential to affect the wells. The letter will refer to information about protecting groundwater from fuel oil spills and septic system maintenance that is available on the Town's website. A complete list of landowners within the SPAs is presented in **Appendix F.** Also included at the end of the appendix is the list of the 37 new property owners in the SPA for Wells 4&5. An example letter is included in **Appendix G.**

4. Although these are considered low risks, the Town would like to minimize the use of chemicals within the SPA. The Town will send letters to VELCO and Vermont Gas Company requesting that they do not use herbicides on the portion of the ROW within the SPA. A letter will also be sent to the Vermont AOT to request that they do not use chemicals along guardrails or bridges within the SPA. Copies of the letters are presented in **Appendix I.** (Letters similar to these were also sent out in 2019).

5. In 2019, the Hinesburg Water Department hand delivered letters to Iroquois Manufacturing Company (IMC), Burnett Salvage Yard and Jiffy Mart. Copies of these letters are located in **Appendix I**. This year, the Hinesburg Water Department will hand deliver letters to Hinesburg Shortstop, Giroux Body Shop, and Hart and Mead. Water department personnel willuse this opportunity to discuss the source protection area, source protection plan, and the importance of following best management practices to minimize the risk of contaminationto the bedrock aquifer and Town water supply sources. Example letters are located in **Appendix I**.

6. The Town will continue to use only the minimum amount of deicing salts on the roads to maintain public safety.

7. The Hinesburg Water Department will conduct reconnaissance surveys of the SPA on a monthly basis. The Town will make notes regarding changes in land use, PSOC's and propertyowners on an annual basis using the review page in the front of this plan (a blank copy ofthis form is located in **Appendix K**). The SPP will be updated every three (3) years for submittal to the Vermont Drinking Water and Groundwater Protection Division for their review and approval. The Management Plan will be modified, if necessary, to address any new threats to the Town's wells. A guidance sheet for how toupdate the SPP is included in **Appendix N**.

Management Plan Implementation Action Form

Management Plan Action Item	Date Implemented/By Whom
The Town will maintain control of the 125' isolation zone around each of the well heads (Zone 1 of the SPA). An easement currently exists for the area around the wells and treatment building. The Town will pursue future purchase of land if applicable.	Daily Water Operators
A copy of the Source Protection Plan will be available for review at the Town Office, so that all property owners, as well as Town, Regional and State officials will have access to the document. A map of the Source Protection area isavailable on the Town's website.	Hinesburg Town Manager Todd Odit April 2022
The Town will send a letter to all *new* property owners within the Source Protection Area for Wells 4 & 5, and *all* property owners within the SPA for Well 6, to notify them that activities on their land have the potential to affect the wells. The letter will refer to information about protecting groundwater from fuel oil spills and septic system maintenance that is available on the Town's website. A complete list of landowners within the SPAs is presented in **Appendix F**. The new property owners for Well 4 & 5 SPA are highlighted in yellow, and a separate list of these *37 new property owners* is presented at the end of the appendix. An example letter to property owners is included in **Appendix G.**	Hinesburg Town Manager Todd Odit April 2022
Although these are considered low risks, the Town would like to minimize the use of chemicals within the SPA. The Town will send letters to VELCO and Vermont Gas Company requesting that they do not use herbicides on the portionof the ROW within the SPA. A similar letter will be sent to the Vermont AOT to request that they do not use chemicals along guardrails or bridges within the SPA. Copies of the letters are presented in **Appendix I.**	Hinesburg Town Manager Todd Odit April 2022
The Hinesburg Water Department will hand deliver letters to the Hinesburg Shortstop, Giroux Body Shop and Hart & Mead. Water department personnel will use this opportunity to discuss the source protection area, source protection plan, and the importance of following best management practices to minimize the risk of contamination to the bedrock aquifer and Townwater supply sources. Example letters can be found in **Appendix I**.	Director of Utilities & Facilities/Superintendent Erik Bailey April 2022
The Town will continue to use only the minimum amount of deicing salts on theroads to maintain public safety.	Seasonally Town Road Dept
The Hinesburg Water Department will conduct reconnaissance surveys of the SPA on a monthly basis. Town will make notes regarding changes in land use, PSOC's and property owners on an annual basis using the review page in the front of this plan (a blank copy of this form is located in **Appendix K**). The SPP will be updated every three (3) years for submittal to the Vermont Drinking Water and Groundwater Protection Division for their review and approval. The Management Plan will be modified, if necessary, to address any new threats to the Town's wells. A guidance sheet for how to update the SPP is included in **Appendix N**.	Monthly/Annually Water Operators Assistant Town Manager

IV. CONTINGENCY PLAN

The Contingency Plan outlines the steps that the water system may take in the event that their well becomes contaminated, is at imminent risk of becoming contaminated (e.g., due to hazardous contaminant spill in the vicinity of the well) or declines in yield. The plan may also be implemented if there are mechanical problems with the water system which require repair.

The above possible situations may result in a loss of water supply for the Town for a number of hours, days, weeks, or even permanently. The Contingency Plan specifies emergency response procedures including names and phone numbers of key people/officials that may be needed to solve the particular problem. In addition, short-term and long-term water supply alternatives are outlined.

A. Emergency Response Procedures

If an emergency occurs, such as a contaminant spill in the Source Protection Area or if a regulated compound is detected in the water supply above acceptable levels, the following notification procedure should be implemented.

Step 1: The person discovering the emergency situation will contact one of the following people.

Hinesburg Water Department
Director of Utilities & Facilities/Superintendent: Erik Bailey
Email: ebailey@hinesburg.org
Phone: 802- 482-6097
Pager: 802-482-8229

Assistant Town Manager: Joy Dubin Grossman
Email: jdubingrossmann@hinesburg.org
Phone: 802-482-2281 ext 221

Step 2: The following officials may be notified, depending on the nature of the situation:

Vermont Groundwater and Drinking Water Protection Division	(802) 828-1535
(After Hour Emergencies)	Pager: 741-5311, then enter phone #
Vermont State Police - Williston Barracks	(802) 878-7111
Hinesburg Fire Department	911
Vermont State HAZMAT Response Team	(800) 641-5005 or 911.
Vermont Department of Health	(800) 439-8550
Hauled Water: Fresh Water Haulers LLC	(802) 658-2223
Aldrich and Elliott Engineers	(802) 878-3956
Sprague GeoScience LLC	(802) 434-5522

Actions that may be considered include:

- Seeking advice from a consultant or the Vermont Groundwater and Drinking WaterProtection Division
- Providing an alternate water source (bottled water, hauled water)
- Ordering repair equipment, or contracting for repair
- Remediating or cleanup related to a hazardous materials spill
- Providing water system treatment
- Implementing water conservation measures

Step 3: Public Notification

Emergency Information - VT Alert
System Town of Hinesburg Website
& Facebook pageLocal News
Outlets: TV & Radio

B. Short-Term Solutions

Short-term water supply alternatives and options include:

- Hauled Water: Fresh Water Haulers LLC, (802) 658-2223
- If only one of the wells is affected, use one of the other wells.
- Purchase bottled water or boil the water
- Water conservation
- For bacterial contamination of the source, the well and distribution system could be shock chlorinated.

At the request of the Drinking Water and Groundwater Protection Division we have added the following language to our Contingency Plan which addresses the use and or connection of an unpermitted/unauthorized water source in the event of an emergency. An emergency may exist when there is malfunctioning equipment, punctured storage tanks, unacceptable levels of contaminants with acute effects, or other acts and factors that affect the functionality or capacity of the water system.

Emergency Use of an unpermitted or unauthorized water source:
In the event of an emergency situation requiring the water system to use an unpermitted or unauthorized water source, including the emergency use of unpermitted wells, springs, surface water, designated emergency sources, hauled or bulk water, or bottled water, the water system must contact the Drinking Water and Groundwater Protection Division and follow these steps:

1. The Operator or designated representative will notify the Drinking Water and Groundwater Protection Division prior to utilizing the unpermitted or unauthorized source as soon as possible but no later than 12 hours of the connection/use.
2. The Operator or designated representative will provide all public notice as recommended by the Division, which may include issuing a Boil Water, Do Not Drink, or Do Not Use Notification to all users of the Water System. Notifications

shall be provided within twelve hours of receiving the Division's recommendation or as otherwise directed by the Division in writing.

3. The water system will follow all actions and provide all documentation as requested by the Division.
4. The unpermitted and/or unauthorized source shall be used for no more than 90 cumulative days unless the water system has submitted a written request to the Secretary of the Agency of Natural Resources (Secretary) for an extension and the Secretary has determined that there is good cause for granting an extension.

C. Long-Term Solutions

Long-term water supply alternatives include:

- Drilling a new well
- Installing additional appropriate water treatment systems

D. Water System Shutdown/Start Procedure

Shutdown

1. Using Scada controls, click red STOP button to shut down well & distribution pumps, treatment train, andchemical feed system.
    - The well pumps can be manually stopped by electrical breaker located in motor control room.
    - Distribution pumps can be manually stopped by electrical breaker located in motor control room.
    - The chemical feed pumps can manually be turned off.
2. Manually close inlet valves for each of the wells. These are located inside treatment building.
3. Manually close inlet valve to treatment train.
4. Manually close outlet valves to distribution.
5. Manually close chemical feed injection valves.

Startup

1. Manually open outlet valves to distribution.
2. Manually open chemical injection valves.
3. Manually open inlet valve to treatment train.
4. Manually open inlet valves from each of the wells. These are located inside treatment building.
5. Check all electrical breakers to ensure there is power to all components.
6. Using Scada controls, click green START button to start up well pumps & distribution pumps, treatmenttrain, and chemical feed system.
7. Check chemical feed pumps to ensure proper operation.

TABLE 2

Table 2A.
Potential Sources of Contamination (PSOCs) -
Inventory and Risk Evaluation (Wells 4 & 5 SPA)

Span #* (Plan 1)	Property Use	Potential Source Of Contamination (PSOC)	Associated Contaminants	PSOC ID#	Risk		
					Low	Mod	High
10072	Hinesburg Citco (Jiffy Mart): Gas Station – Haz Waste Site 931409	Petroleum contamination	VOCs/ SOCs	**1A**	X		
10072	Hinesburg Citco: Gas Station – USTs	Gasoline, Diesel, Off- Road Diesel	VOCs/ SOCs	**1B**		X	
10371	Bus Maintenance Garage Haz Site 972248	Petroleum contamination	VOCs/ SOCs	**2**	X		
many	Ballards Corner Area Commercial /Residential	Leaks from parked cars, lawn chemicals	VOC's/SOCs	**3**	X		
none	VELCO & Power line corridor VT Gas Pipeline	Herbicides	VOCs/ SOCs	**4A& B**	X		
12118	Carse Parcel: Hay field Future - residential	Future: Mound Septic System, possible heating oil storage/ use of lawn chemicals and fertilizers	Nitrates, bacteria, viruses, VOCs/ SOCs	**5A**	X		
12344	Bissonette Recreation Area	Outdoor sports fields Mowing equipment, vehicles Possible leaks, spills of petroleum products	VOCs	**5B**	X		
10152	Haystack Crossing LLC	Future: Mixed use residential/commercial buildings. Possible heating oil storage, lawn & garden chemicals, leaks from cars, deicing salt	VOCs/SOCs, NA, Cl, IOCs	**5C**	X		
11973	Lyman Parcel: Hay field Future: residential/commercial	Future: Possible heating oil storage/use of lawn chemicals and fertilizers, leaks from cars, deicing salt.	VOCs/SOCs, NA, Cl, IOCs	**5D**	X		
11859 11851	NRG Systems: Parking lot Future: commercial/light	Possible leaks from parked cars, road salt. Future: Possible heating oil storage/ use of lawn chemicals	VOCs, Na, Cl VOCs/SOCs	**6**	X		

Span #* (Plan 1)	Property Use	Potential Source Of Contamination (PSOC)	Associated Contaminants	PSOC ID#	Risk		
					Low	Mod	High
	industrial, residential	and fertilizers.					
11222 11408 11590 10540 10374 11708 10431 12125 11406 11409 11742	Zone 2 residential properties on town sewer, underlain by clay/boulders. (CVU Road, Route116 near NE intersection of CVU Road, Wainer parcel with Wells 4 & 5)	Possible heating oil storage and use of lawn chemicals and fertilizers	VOCs/ SOCs	**7A**	X		
11911 11988 11907 10480 11851 11478 11338 11945	Zone 2 residential properties on town sewer, underlain by bedrock/glacial till (Bittersweet Hill Rd)	Possible heating oil storage and use of lawn chemicals and fertilizers	VOCs/ SOCs	**7B**	X	X	
11407 10130 11010 11016 10542	Zone 2 residential property with on-site septic, underlain by clay/boulders.	Septic System/ Possible heating oil storage & use of lawn chemicals and fertilizers	Nitrates, bacteria, viruses, VOCs/ SOCs	**7C**	X		
11478 11338	Zone 2 residential properties with on-site septic, underlain by bedrock/glacial till	Septic System/ Possible heating oil storage & use of lawn chemicals and fertilizers	Nitrates, bacteria, viruses, VOCs/ SOCs	**7D**	X	X	
none	Roads	Possible fuel spills, De-icing salts on paved roads	VOCs, Na, Cl.	**8**	X		
none	Bridge Abutments /Guard Rails	Herbicides	SOCs	**8A**	X		
10371	CVU – Hazardous Waste Site# 941618	Former petroleum contamination to shallow gw.	VOC	**9A**	X		
10371	CVU – Athletic fields/parking lots	Lawn fertilizers, deicing salts	Na, Cl	**9B**	X		
10805	Iroquois Manufacturing Co. Hazardous Waste Site# 951795	Trichloroethene (TCE)	TCE	**10A**	X	X	
10805	Iroquois Manufacturing Co. Hazardous Waste	Waste Paint Related Materials	VOCs, Metals	**10B**	X	X	

Span #* (Plan 1)	Property Use	Potential Source Of Contamination (PSOC)	Associated Contaminants	PSOC ID#	Risk		
					Low	Mod	High
	Generator						
10230 10231	Burnett Scrap Metal	Motor oil, waste oil, Freon, gasoline, diesel fuel	VOC, Metals, Freon	**11**	X	X	
many	Residential/light commercial properties in Zone 3	Septic system/ possible heating oil storage & use of lawn chemicals and fertilizers	Nitrates, bacteria, viruses, VOCs/ SOCs	**12**	X		
10071	Ballard Farm	Gasoline and Diesel AST's, septic system, Fuel Oil tank, nitrogen fertilizer	Nitrates, bacteria, viruses, VOCs/ SOCs	**12A**	X		

* Notes: Only the last 5 digits of the Span # is listed. All Hinesburg properties have a span # starting with 294-093-
Color coding is used to differentiate estimated risk levels: Red – High Risk; Blue – Moderate Risk; Green – Low Risk

Table 2B.
Potential Sources of Contamination (PSOCs) -
Inventory and Risk Evaluation (Wells 6 SPA)

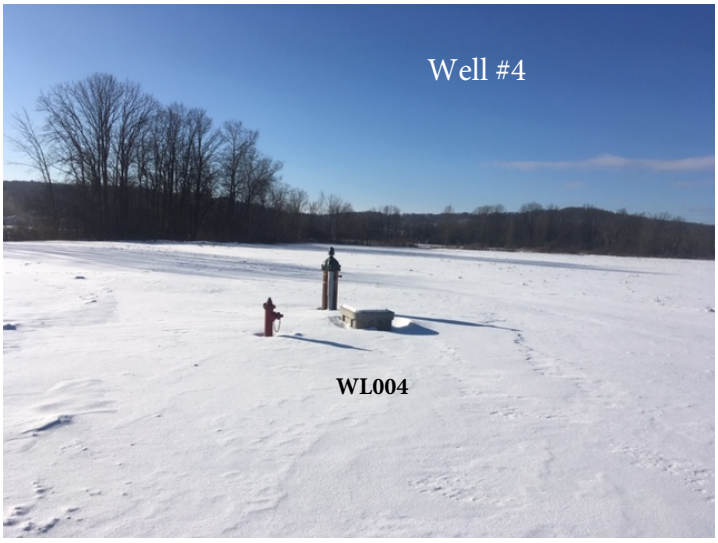
Span #* (Plan 2)	Property Use	Potential Source Of Contamination (PSOC)	Associated Contaminants	PSOC ID#	Risk		
					Low	Mod	High
10152	Haystack Crossing Development- Stormwater Retention Pond	Stormwater Runoff: possible antifreeze, grease, oil, and heavy metals from cars; fertilizers, pesticides, pet waste	VOCs/ SOCs, metals, bacteria	**1**			X
10827	Hinesburg Shortstop: Gas Station – USTs Haz. Site# 1201114243	Fuel Oil, Gasoline	VOCs/ SOCs	**2**	X	X	
10371	Giroux Body Shop Haz. Site# 982480	Petroleum (gasoline) contamination	VOCs/ SOCs	**3**	X	X	
11476	Former International Cheese Plant. Closed Haz. Site# 911017	Gasoline	VOCs, MTBE	**4**	X		
12344	Bissonette Recreation Area	Outdoor sports fields Mowing equipment, vehicles Possible leaks, spills of petroleum products	VOCs	**5B**	X		
10152	Haystack Crossing LLC	Future: Mixed use residential/commercial buildings. Possible heating oil storage, lawn & garden chemicals, leaks from cars, deicing salt	VOCs/SOCs, NA, Cl, IOCs	**5C**	X		
11973	Lyman Parcel: Hay field Future: residential/commercial	Future: Possible heating oil storage/use of lawn chemicals and fertilizers, leaks from cars, deicing salt.	VOCs/SOCs, NA, Cl, IOCs	**5D**	X		
11859 11851	NRG Systems: Parking lot Future: commercial/light industrial, residential	Possible leaks from parked cars, road salt. Future: Possible heating oil storage/use of lawn chemicals and fertilizers.	VOCs, Na, Cl VOCs/SOCs	**6**	X X		
11160	Morgante Residence Closed Haz. Site #20033159	Heating oil tank	VOCs	**7**	X		

Span #* (Plan 2)	Property Use	Potential Source Of Contamination (PSOC)	Associated Contaminants	PSOC ID#	Risk		
					Low	Mod	High
11665	Town Wastewater Treatment Facility	Water Treatment Lagoons	bacteria, oxygen-demanding wastes, nutrients, SOC, IOC microplastics, sediment, oil	**8**	X		
10467	Former Dry Cleaner	Former Solvent Use at the facility	perchloroethylene (perc)	**9**	X		
	Other Zone 2 Residential and Commercial Properties	Driveway/Parking lot (de-icing salts, petroleum leaks), possible fuel oil tank, and possible use fertilizers and lawn chemicals.	VOCs, IOCs, Na, Cl	**10**	X		
none	Roads	Possible fuel spills, de-icing salts on paved roads	VOCs, Na, Cl	**11**	X		
none	Bridge Abutments /Guard Rails	Herbicides	SOCs	**11A**	X		
11160 11673 11303 10813 10118	Closed Haz. Waste Sites: 12A: GTE Hinesburg 12B: Hinesburg E.S. 12C: Eastwind Condos 12D: Jackson Res. 12E: Ben's Sandwiches	Release of Petroleum	VOCs	**12A-E**	X		
10694	Hart and Mead Texaco Hazardous Waste Site #93-1486	Former release of gasoline from closed USTs	VOCs	**13**	X		
10929	Lantman's IGA Hazardous Waste Site# 961988	Former release of gasoline from closed USTs	MTBE and other VOCs	**14**			X
10473	Knight Farm	Residence and organic farm – Organic fertilizers, septic	Nitrate and other IOCs	**15**	X	X	
11182	Munson Auto	Auto repair garage – possible release of petroleum products, antifreeze, and solvents	VOC, SOCs	**16**	X		
many	Residential/light commercial properties in Zone 3	Septic system/ possible heating oil storage & use of lawn chemicals and fertilizers	Nitrates, bacteria, viruses, VOCs/ SOCs	**17**	X		

APPENDIX A

Photographs

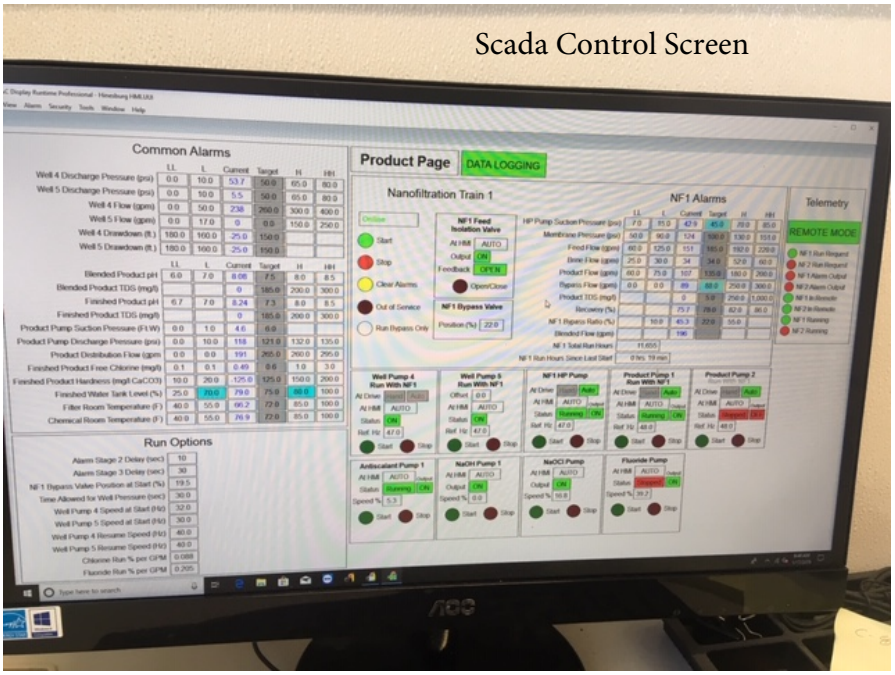

Hinesburg Water Department Treatment Building January 2019


Well #4
WL004


WL005
Well #5

Town of Hinesburg Well 6 during 120-hour pump test

Treatment System



APPENDIX B

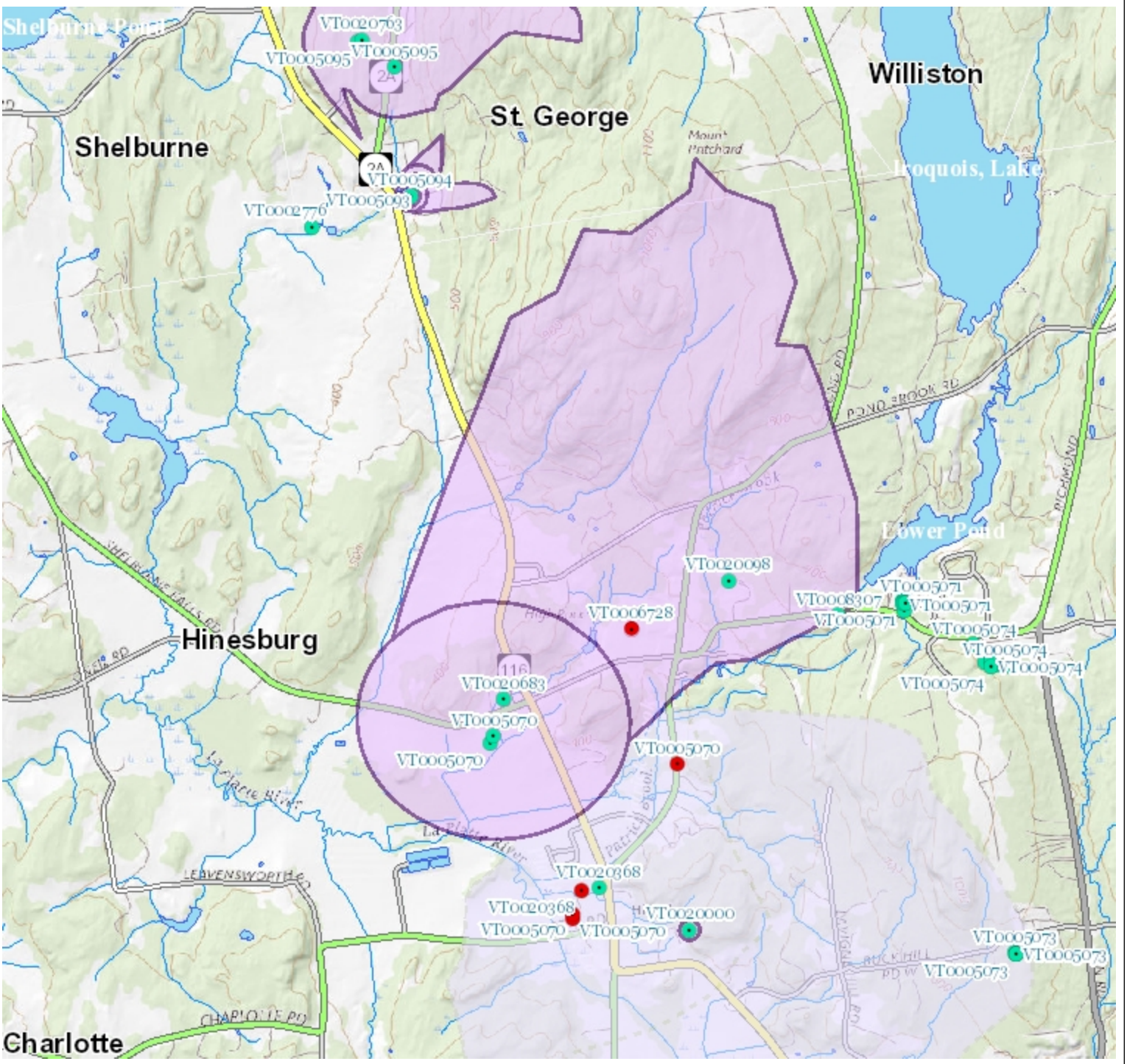
Primary SPA Maps

VERMONT

Hinesburg Water Department SPA (Wells 4 & 5)

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Public Water Sources
- Active
- Proposed
- Inactive

Ground Water SPA
- Active
- Proposed
- Inactive

NOTES

WSID #5070
Well #4 & Well #5

1: 35,279

January 21, 2019

1,792.0 0 896.00 1,792.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

1" = 2940 Ft. 1cm = 353 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Hinesburg Water Department SPA- Parcels (Wells 4 & 5)

Vermont Agency of Natural Resources

vermont.gov

LEGEND

- Public Water Sources
  - Active
  - Proposed
  - Inactive
- Ground Water SPA
  - Active
  - Proposed
  - Inactive
- Parcels (standardized)
- Parcels (non-standardized)
- Roads
  - Interstate
  - Principal Arterial
  - Minor Arterial
  - Major Collector
  - Minor Collector
  - Local
  - Not part of function Classification S
- Waterbody
- Stream
- Town Boundary

NOTES

WSID #5070
Well #4 & Well #5

843.0 0 422.00 843.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1382 Ft. 1cm = 166 Meters

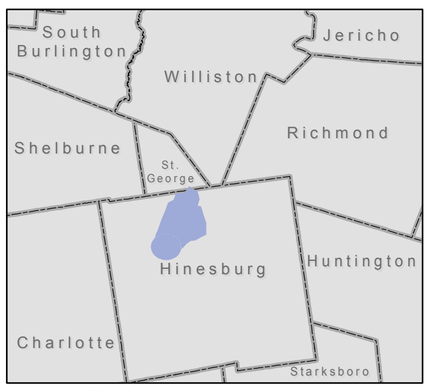
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Plan 1 - Town of Hinesburg Wells 4 and 5, WSID #5070

CHITTENDEN COUNTY RPC
Communities Planning Together

10/19/2015

D:\Projects15\Hinesburg\SourceProtectionArea_20151016.mxd



Source Protection Area Location Map

- Building *(NOTE: All bldgs w/in Zone 3 of SPA are considered PSOC #12)*
- Well Location

Source Protection Area

- Source Protection Area - Zone 1
- Source Protection Area - Zone 2
- Source Protection Area - Zone 3

Legend

- Stream Centerline
- 20' Contour Lines
- Water Body
- Road Centerline *(NOTE: All roads in SPA are considered PSOC 8)*
- 2014 Tax Parcel Boundary *(with SPAN# - For Hinesburg Properties only last 5 digits of the SPAN # are shown)*
- Town Boundary

N W E S

1 inch = 500 feet

0 250 500 1,000 ft

PSOC ID#	Property Use
1A&B	Hinesburg Citco: Gas Station – Haz Waste Site 931409 & USTs
2	Bus Maintenance Garage Haz Site 972248
3	Ballard's Corner Commercial /Residential
4	VELCO Power line corridor
5A	Carse Parcel
5B	Bissonette Parcel
5C	Lyman Parcel
6	NRG Systems
7A	Zone 2 residential (town sewer, underlain by clay/boulders)
7B	Zone 2 residential (town sewer, underlain by bedrock/glacial till)
7C	Zone 2 residential property (on-site septic, underlain by clay/boulders)
7D	Zone 2 residential (on-site septic, underlain by bedrock/glacial till)
8	Roads (not labeled on plan)
8A	Bridge Abutments /Guard Rails
9A&B	CVU – Hazardous Waste Site# 941618 Athletic fields/parking lots
10A&B	Iroquois Manufacturing Co. Hazardous Waste Site# 951795 Hazardous Waste Generator
11	Burnett Scrap Metal
12	Zone 3:Residential/light commercial (not labeled on plan)
12A	Ballard Farm

WELL 5

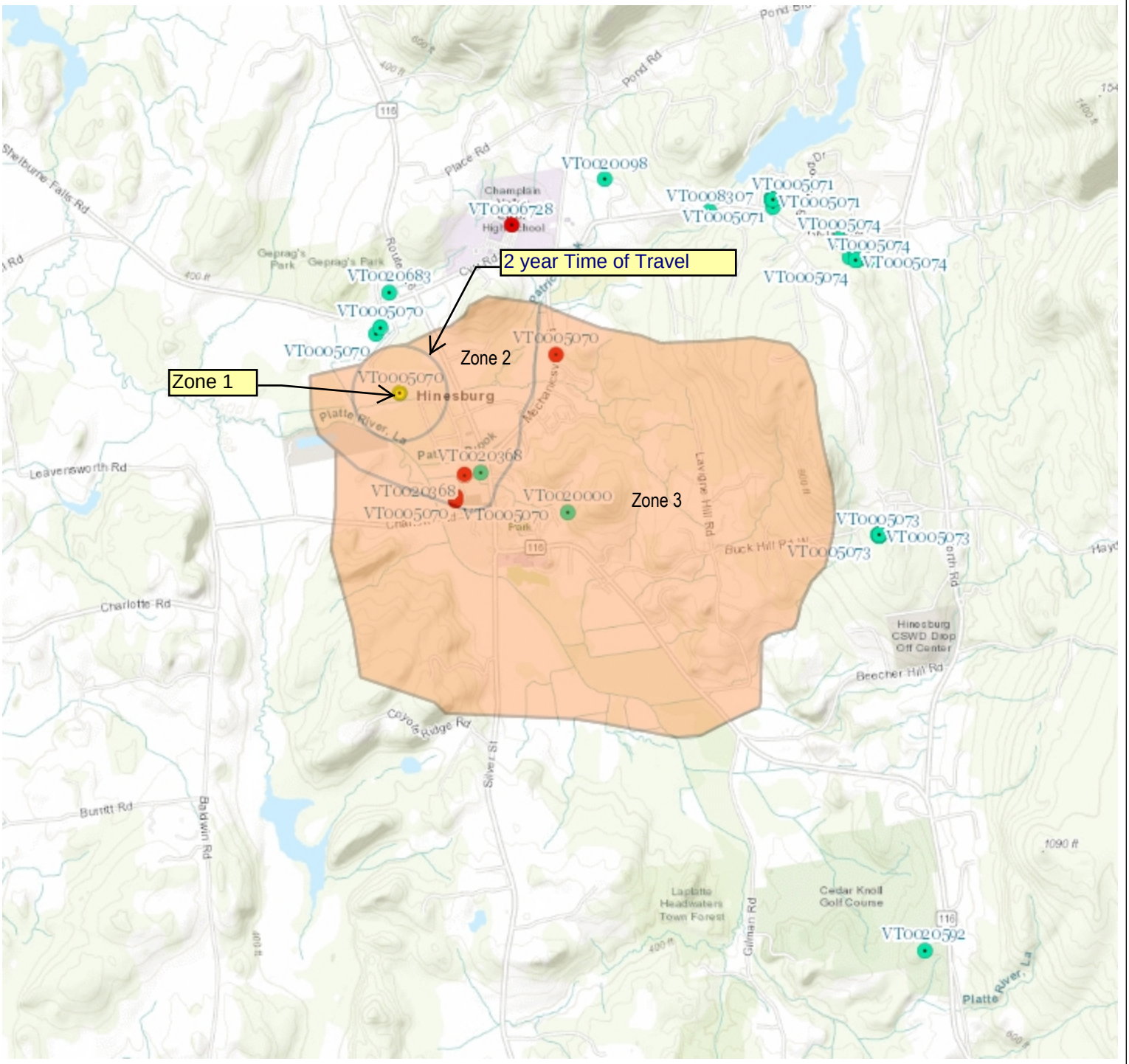
WELL 4

VERMONT

Hinesburg Water Department SPA (Well 6)

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Public Water Sources

- Active
- Proposed
- Inactive

NOTES

WSID #5070
Well 6

1: 36,980

December 7, 2021

1,879.0 0 940.00 1,879.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

1" = 3082 Ft. 1cm = 370 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Hinesburg Water Department SPA -Parcels (Well 6)

Vermont Agency of Natural Resources

vermont.gov

LEGEND

- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Stream/River
  - Stream
  - Intermittent Stream
- Town Boundary

NOTES

WSID# 5070
Well 6

1: 17,386

December 7, 2021

883.0 0 442.00 883.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1449 Ft. 1cm = 174 Meters

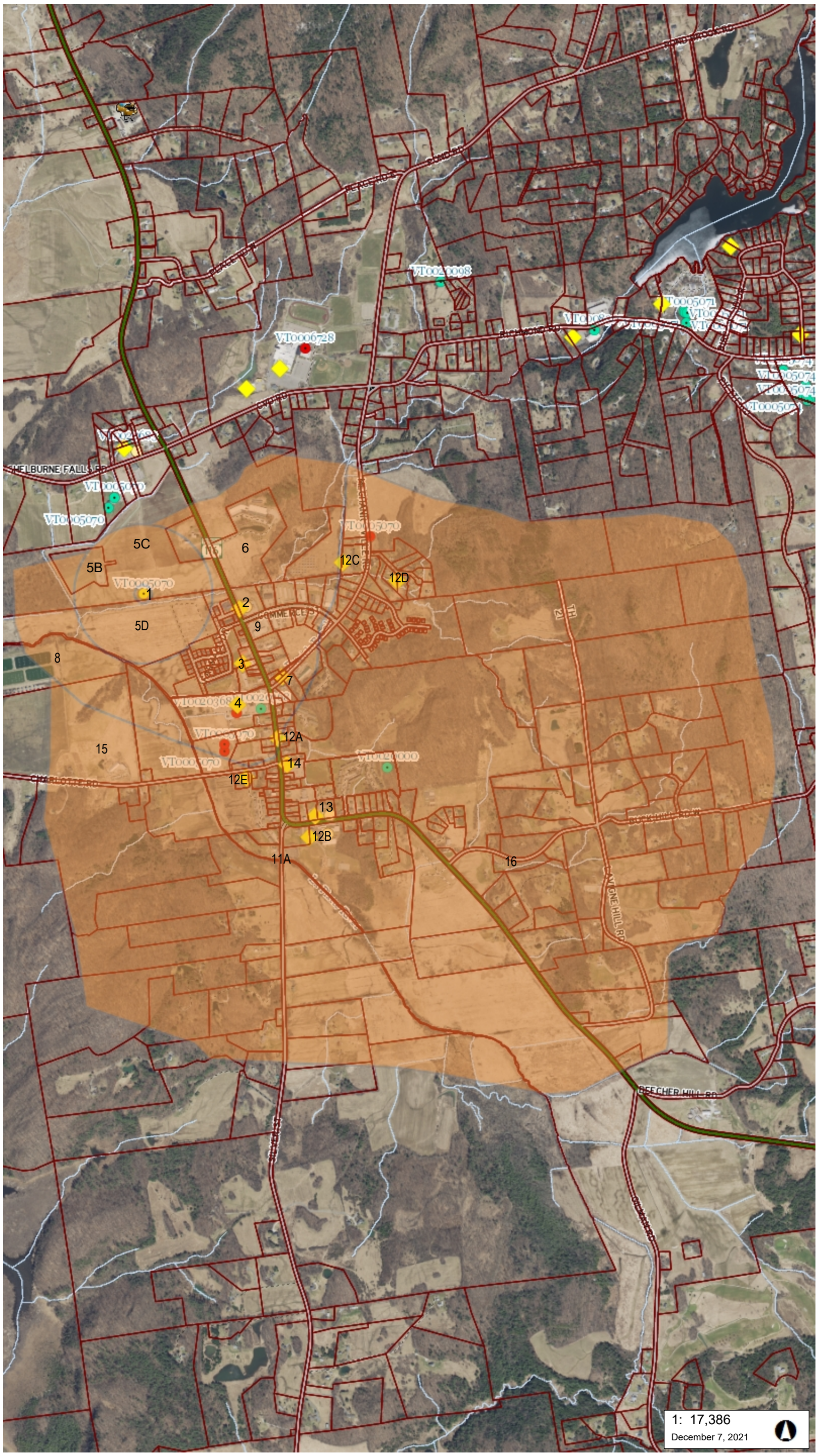
THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Hinesburg Water Department SPA -PSOC ID (Well 6)

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Landfills
  - OPERATING
  - CLOSED
- Hazardous Site
- Salvage Yard
- Aboveground Storage Tank
- Underground Storage Tank (w
- Public Water Sources
  - Active
  - Proposed
  - Inactive
- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Stream/River
  - Stream
  - Intermittent Stream
- Town Boundary

1 PSOC #1 (See Table 2B for description of PSOCs

NOTES:

.

PSOC #10 (other Zone 2 Resid. & Comm. Properties) are all properties in Zone 2 that are not labeled.

.

PSOC #11 (Roads) are not labeled, but are visible on the map.

.

PSOC #17 (Residential /light commercial properties in Zone 3) are all properties in Zone 3 that are not labeled.

.

See Appendix B, "Hinesburg Water Department Well 6 SPA" for details on the location of Zones 1, 2 and 3.

NOTES

WSID# 5070
Well 6

883.0 0 442.00 883.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1449 Ft. 1cm = 174 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Plan 2
Town of Hinesburg
Well 6 SPA, PSOCs WSID# 5070

N

Legend

- Well 6
- Source Protection Area
- Building
- Underground Storage Tank
- Former Dry Cleaner
- Hazardous Waste Site
- Road Centerline
- 20 Ft Contour Interval
- Stream Centerline
- Water Body
- Tax Parcel Boundary

PSOC #	Description
1	Haystack Crossing - Proposed SWRP
2	Hinesburg Shortstop, USTs, HWS
3	Giroux Body Shop HWS
4	Former IC Plant, Closed HWS
5B	Bissonette Recreation Area
5C	Haystack Crossing LLC
5D	Lyman Parcel –Future development
6	NRG - future development
7	Morgante Res.- Closed HWS
8	Town WWTF
9	Former Dry Cleaner
10	Other Zone 2 - Res. & Comm. (Not shown)
11	Roads (Not shown)
11A	Bridge Abutments /Guard Rails
12A	GTE Hinesburg - Closed HWS
12B	Hinesburg E.S. - Closed HWS Site
12C	Eastwind Condos - Closed Haz Waste Site
12D	Jackson Res. - Closed HWS
12E	Ben's Sandwiches - Closed HWS
13	Hart and Mead Texaco - HWS
14	Lantman's IGA - HWS
15	Knight Farm
16	Munson Auto
17	Zone 3 – Res./light comm. (Not shown)

Notes: HWS = Hazardous Waste Site
WWTF = Waste Water Treatment Facility
SWRP = Storm Water Retention Pond

Source: All data from VCGI data portal

CHITTENDEN COUNTY RPC
Communities Planning Together

Path: D:\Projects22\Hinesburg\HinesburgWell6spa20220202.aprx

0 0.13 0.25 0.5 Mile

APPENDIX C

Well Completion Reports
&
Well #5 Construction Diagram

STATE OF VERMONT – DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGPD), 1 National Life Drive, Main Building – 2nd Floor, Montpelier, VT 05620-3251

Tel. (802) 828-1535 or (802) 585-4907

WELL COMPLETION REPORT

WELL LOCATION **WELL TAG No.** 48478

Well Owner or Purchaser: Town of Hinesburg Town: Hinesburg

E-911 Address: Shelburne Falls Rd Subdivision Name: _____

_____ Lot Number: _____

GEOGRAPHIC LOCATION (Complete A OR B, but not both) **Date Well Drilled:** 4/1/14

A. GPS Location: 44.33 88 (Latitude Rdg) N 73.1195 (Longitude Rdg.) W I-Phone (GPS Make/Model) 3 (# of Satellites Used (Min. 3))

B. Attach Town Map with well location marked, if not providing GPS location.

WELL TYPE (Check one)
- ☑ Bedrock
- ☐ Gravel
- ☐ Monitoring
- ☐ Other: _____

WELL USE (Check one)
- ☐ Residential/Non-public
- ☑ Public water system
- ☐ Agricultural
- ☐ Industrial
- ☐ Other: _____

REASON FOR WELL (Check one)
- ☐ New supply
- ☐ Replace existing supply
- ☐ Deepen existing supply
- ☒ Additional supply
- ☐ Test/exploration
- ☐ Geothermal
- ☐ Other: _____

WELL CONSTRUCTION INFORMATION

DEPTHS
To bedrock 38 ft.
Total 597 ft

CASING
Total Length 100 ft.
Casing exposed 40 in.
Diameter 8 in.
Material Steel
Weight 29 lb/ft

LINER OR INNER CASING
Total Length _____ ft.
Depth to liner top _____ ft.
Diameter _____ in.
Material _____
Weight _____ lb/ft
Seal type _____

SCREEN DETAILS
Make/Type _____
Material _____
Diameter _____ in
Depth to screen top _____
Slot size _____
Gravel pack (type/size) _____

WELL LOG

From	To	Formation and water-bearing fracture Information
0	5	Brown Clay
5	38	Blue Clay
38	87	Light Grey Limestone
87	89	50ft Brown Seam
89	595	Limestone
595	597	Large Fracture with water

SEALING METHOD
- ☑ Drive Shoe
- ☑ Grouted – Grout type Portland Cement

YIELD TEST
Tested for 1 hr @ 250 GPM
Static Water Level 0 ft. (below land surface)
- ☒ Overflowing? (check if yes)
- ☐ Hydrofractured? _____ GPM

WELL DRILLER INFORMATION

☐ Yes ☒ No; **I provided property owner the Dept. of Health information, per 10 V.S.A. Section 1396(d)**

Drilled by: Robert Frost

Robert Frost
Signature of Qualifying Individual

Company: Vermont Well & Pump

Lic # 222

COMMENTS AND SITE SKETCH

White Copy - DWGPD Yellow Copy - Owner Pink Copy - Driller 1/10/13

STATE OF VERMONT – DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGPD), 1 National Life Drive, Main Building – 2nd Floor, Montpelier, VT 05620-3251

Tel. (802) 828-1535 or (802) 585-4907

WELL COMPLETION REPORT

WELL LOCATION

Well Owner or Purchaser: Town of Hinesburg

WELL TAG No. 48477

E-911 Address: _____

Town: Hinesburg

Subdivision Name: _____

Lot Number: _____

GEOGRAPHIC LOCATION (Complete A OR B, but not both)

Date Well Drilled: 6/26/14

A. GPS Location: 44.3392 (Latitude Rdg) N 73.1192 (Longitude Rdg.) W 1 – Phone (GPS Make/Model) _____ (# of Satellites Used (Min. 3))

B. Attach Town Map with well location marked, if not providing GPS location.

WELL TYPE (Check one)
- ☑ Bedrock
- ☐ Gravel
- ☐ Monitoring
- ☐ Other: _____

WELL USE (Check one)
- ☐ Residential/Non-public
- ☑ Public water system
- ☐ Agricultural
- ☐ Industrial
- ☐ Other: _____

REASON FOR WELL (Check one)
- ☐ New supply
- ☐ Replace existing supply
- ☐ Deepen existing supply
- ☑ Additional supply
- ☐ Test/exploration
- ☐ Geothermal
- ☐ Other: _____

WELL CONSTRUCTION INFORMATION

DEPTHS
To bedrock 43 ft.
Total 600 ft

CASING
Total Length 105 ft.
Casing exposed 30 in.
Diameter 8 in.
Material Steel
Weight 29 lb/ft

Outer LINER OR INNER CASING
Total Length 43 ft.
Depth to liner top _____ ft.
Diameter 14 in.
Material Steel
Weight 50 lb/ft
Seal type _____

SCREEN DETAILS
Make/Type _____
Material _____
Diameter _____ in
Depth to screen top _____
Slot size _____
Gravel pack (type/size) _____

WELL LOG

From	To	Formation and water-bearing fracture Information
0	4	Brown Clay
4	42	Blue-Gray Clay
42	94	Grey Limestone
94	95	Fracture 3 gpm
95	230	Dark Grey Limestone
230	232	Large Fracture
232	305	Grey Limestone (white)
305	390	Grey Limestone
390	600	Limestone

SEALING METHOD
- ☒ Drive Shoe
- ☒ Grouted – Grout type Portland Cement

YIELD TEST
Tested for 1 hr @ 125 GPM
Static Water Level 0 ft. (below land surface)
- ☒ Overflowing? (check if yes)
- ☐ Hydrofractured? _____ GPM

WELL DRILLER INFORMATION

☑ Yes ☐ No; I provided property owner the Dept. of Health information, per 10 V.S.A. Section 1396(d)

Drilled by: Robert Frost

Signature of Qualifying Individual

Company: Vermont Well & Pump

Lic # 222

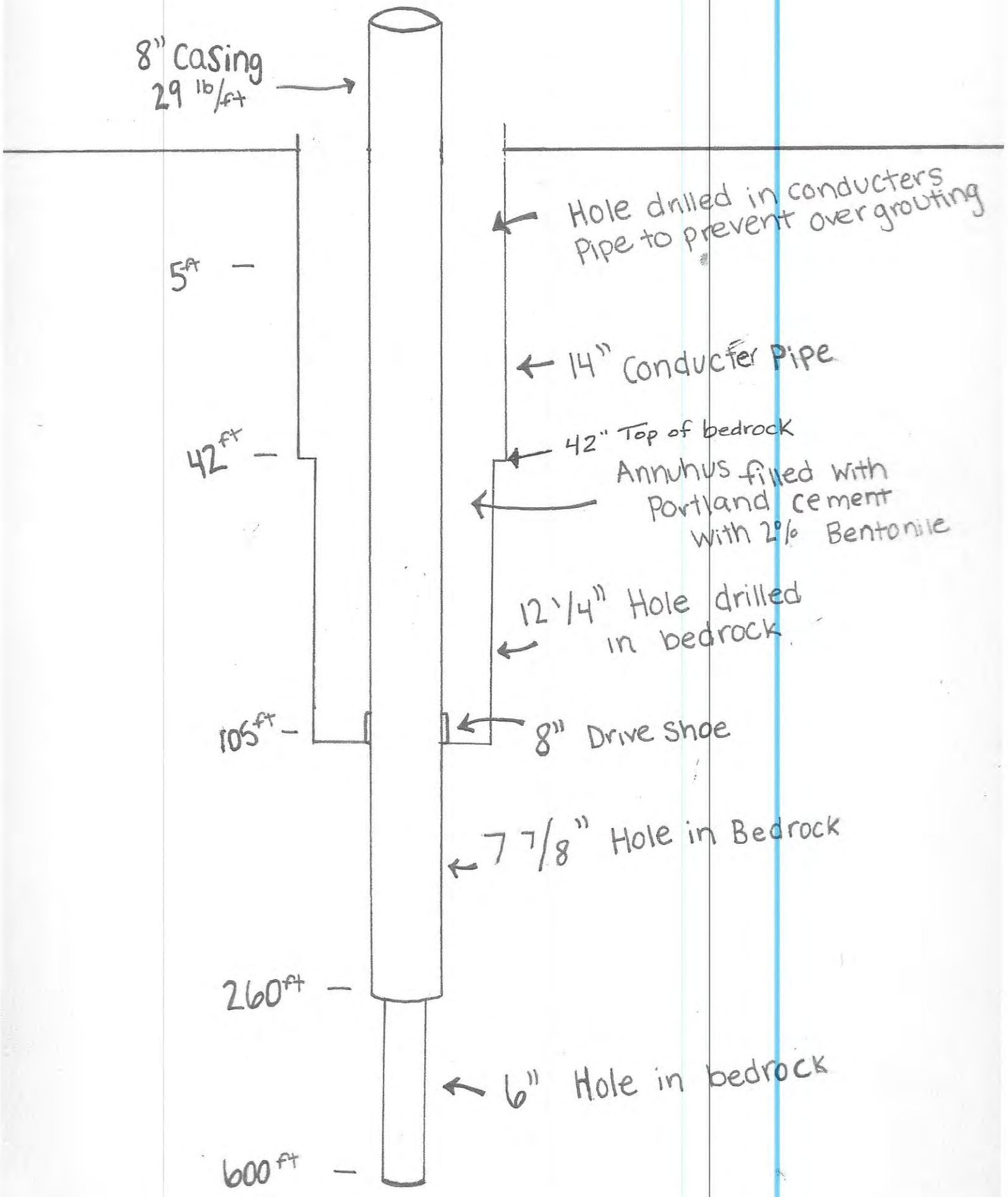
White Copy - DWGPD

COMMENTS AND SITE SKETCH

14" Surface pipe set to 42 ft
12¼" hole drilled to 105 ft
Cement pumped into annulus via 1" tremie pipe. 1 cubic foot of cement and 6 gallons of water and 2% bentonite

Yellow Copy - Owner Pink Copy - Driller 1/10/13

Town of Hinesburg Well #5
Construction Diagram



WELL COMPLETION/HYDROFRACTURING/CLOSURE REPORT

STATE OF VERMONT – DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGWPD),
1 National Life Drive, Main 2, Montpelier, VT 05620-3521
Tel. (802) 828-1535 or (802) 585-4907

WELL LOCATION

Well Owner or Purchaser: Blackrock US
WELL TAG No. 55965
E-911 Address of Well:
Date Drilling or Hydrofracturing Was Completed: 1/2/19
Town: Hinesburg
Subdivision Name:
Wastewater/Water Permit #:
Lot Number:
Parcel SPAN Number:

GEOGRAPHIC LOCATION

GPS Location: 44.335480 N, -73.117621 W
(Latitude in decimal degrees) (Longitude in decimal degrees)

WELL TYPE (Check one)
- ☑ Bedrock well (well finishes in bedrock)
- ☐ Gravel well (well is NOT into bedrock)

WELL USE (Check one)
- ☐ Residential/Non-public
- ☑ Public water system
- ☐ Agricultural
- ☐ Industrial
- ☐ Commercial
- ☐ Monitoring well

REASON FOR WELL (Check one)
- ☐ New supply
- ☐ Replace existing supply ---> Exempt from permit? ☐ Yes ☐ No
- ☐ Deepen/Hydrofracture existing supply
- ☐ Test/Exploration/Monitoring
- ☐ Geothermal
- additional supply

☐ **WELL CLOSURE** Date the well was closed: ____/____/____
Closed per the Water Supply Rule? ☐ Yes ☐ NO Grout/fill type:
Reason for closure: ☐ Insufficient yield ☐ Contaminated ☐ Disrepair ☐ No longer in use ☐ Test well
☐ Poor aesthetic quality ☐ Does not meet isolation distances ☐ Pump stuck ☐ Collapsed ☐ Other
Please use the WELL LOG section below to list the depth and materials used at each depth in filling the well.

WELL CONSTRUCTION INFORMATION

DEPTHS
To bedrock: 117 ft.
Total Depth: 560 ft.

CASING
Total Length: 137 ft.
Casing exposed: 36 in.
Diameter: 8 in.
Material: Steel
Weight: 29 lb/ft.

LINER OR INNER CASING
Total Length: ____ ft.
Depth to liner top: ____ ft.
Diameter: ____ in.
Material:
Weight: ____ lb/ft.
Seal type:

SCREEN DETAILS
Make/Type:
Material:
Diameter: ____ in.
Depth to screen top:
Slot size:
Gravel pack (type/size):

WELL LOG

From:	To:	Subsurface materials and water-bearing zones:
0	12	C Brown
12	83	C Blue
83	117	C G
117	235	R, Hard, white, Limestone
235	237	R, med, white, Limestone fractured
237	560	R, Hard, white, Limestone

SEALING METHOD
- ☒ Drive Shoe
- ☒ Grouted; type: Portland Cement
- ☐ Concentric

YIELD TEST
Tested for 1 hr. @ 250 GPM
Static Water Level: 10 ft.
Date Measured: 1/2/19
☐ Overflowing? (check if yes)
☐ Hydrofractured? ____ GPM

WELL DRILLER INFORMATION

☒ Yes ☐ No - ***I provided the property owner with the Dept. of Health water testing information, per 10 V.S.A. Section 1396(d).***

COMMENTS AND/OR SITE SKETCH

Drilled by: Robert Frost
Robert Frost
Signature of Qualifying Individual

Company: Vermont Well & Pump

VT Well Driller License Number: 222

White Copy - DWGWPD *Yellow Copy - Owner* *Pink Copy - Driller* 10/4/16

Hinesburg Well 6 Deepened

WELL COMPLETION/HYDROFRACTURING/CLOSURE REPORT

D

STATE OF VERMONT – DEPT. OF ENVIRONMENTAL CONSERVATION

Drinking Water & Groundwater Protection Division (DWGWPD),
1 National Life Drive, Main 2, Montpelier, VT 05620-3521
Tel. (802) 828-1535 or (802) 585-4907

WELL LOCATION

Well Owner or Purchaser: Blackrock us

WELL TAG No. 55965

E-911 Address of Well:

Town: Hinesburg

Date Drilling or Hydrofracturing Was Completed: 9/24/19

Subdivision Name:

Wastewater/Water Permit #:

Lot Number:

Parcel SPAN Number:

GEOGRAPHIC LOCATION

GPS Location: 44.335480 N, - 73.117621 W
(Latitude in decimal degrees) (Longitude in decimal degrees)

WELL TYPE (Check one)
- ☑ Bedrock well (well finishes in bedrock)
- ☐ Gravel well (well is NOT into bedrock)

WELL USE (Check one)
- ☐ Residential/Non-public
- ☑ Public water system
- ☐ Agricultural
- ☐ Industrial
- ☐ Commercial
- ☐ Monitoring well

REASON FOR WELL (Check one)
- ☐ New supply
- ☐ Replace existing supply ---> Exempt from permit? ☐ Yes ☐ No
- ☒ Deepen/Hydrofracture existing supply
- ☐ Test/Exploration/Monitoring
- ☐ Geothermal

☐ **WELL CLOSURE** Date the well was closed: ____/____/____
Closed per the Water Supply Rule? ☐ Yes ☐ NO Grout/fill type:
Reason for closure: ☐ Insufficient yield ☐ Contaminated ☐ Disrepair ☐ No longer in use ☐ Test well
☐ Poor aesthetic quality ☐ Does not meet isolation distances ☐ Pump stuck ☐ Collapsed ☐ Other
Please use the WELL LOG section below to list the depth and materials used at each depth in filling the well.

WELL CONSTRUCTION INFORMATION

DEPTHS
To bedrock: ____ ft.
Total Depth: 720 ft.

CASING
Total Length: ____ ft.
Casing exposed: ____ in.
Diameter: ____ in.
Material:
Weight: ____ lb/ft.

LINER OR INNER CASING
Total Length: ____ ft.
Depth to liner top: ____ ft.
Diameter: ____ in.
Material:
Weight: ____ lb/ft.
Seal type:

SCREEN DETAILS
Make/Type:
Material:
Diameter: ____ in.
Depth to screen top:
Slot size:
Gravel pack (type/size):

WELL LOG

From:	To:	Subsurface materials and water-bearing zones:
560	720	R, Medium, White, Limestone

SEALING METHOD
- ☒ Drive Shoe
- ☐ Grouted; type:
- ☐ Concentric

YIELD TEST
Tested for 1 hr. @ 300 GPM
Static Water Level: 10 ft.
Date Measured: 9/24/19
☐ Overflowing? (check if yes)
☐ Hydrofractured? ____ GPM

WELL DRILLER INFORMATION

☐ Yes ☒ No - ***I provided the property owner with the Dept. of Health water testing information, per 10 V.S.A. Section 1396(d).***

Drilled by: Robert Frost

Signature of Qualifying Individual

Company: Vermont Well & Pump

VT Well Driller License Number: 222

COMMENTS AND/OR SITE SKETCH

Deepened well from 560ft to 720ft

APPENDIX D

Laboratory Reports

ENDYNE Inc.
Environmental Laboratories

Sprague GeoScience	
480 Salvas Road	100518
Huntington, VT 05462	
Atten: Cindy Sprague	

PROJECT: WSID 5070 Hinesburg IPW SP
WORK ORDER: **1407-14177**
DATE RECEIVED: July 21, 2014
DATE REPORTED: August 08, 2014
SAMPLER: Cindy **VT0005070**

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report DATE REPORTED: 08/08/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1407-14177**
DATE RECEIVED: 07/21/2014

001 Site: NEW Well 4 Primary & Secondary Inorganic Contaminants Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Alkalinity, as CaCO3	245	mg/L	SM20 2320B(97)	7/30/14	W JSS	N	
Chloride	12	mg/L	EPA 300.0	7/21/14	W CM	A	
Color, Apparent	< 5	CoPt Units	SM 2120 B. (01)	7/22/14 15:09	W SJM	A	
pH of color measurement	7.47	SU at 20.4C	SM20 4500-H B.	7/22/14 15:30	W SJM	U	
Fluoride	< 0.10	mg/L	EPA 300.0	7/21/14	W CM	A	
Hardness, Total as CaCO3	336	mg/L	EPA 200.7	7/22/14	W RGT	U	
Langelier's Corrosivity	0.172		SM18 2330B	7/30/14	W JSS	A	
Nitrate as N	< 0.020	mg/L	EPA 300.0	7/21/14 19:27	W CM	A	
Nitrite as N	< 0.020	mg/L	EPA 300.0	7/21/14 19:27	W CM	A	
Odor	< 1	TON	SM20 2150B (97)	7/23/14 10:26	W JSS	A	
pH	7.48	SU at 20.0C	SM 4500-H B. (97)	7/21/14 13:51	W SJM	U	
Solids, Total Dissolved	335	mg/L	SM18 2540C	7/21/14	W JSS	A	
Temperature for Calc.	20	C	EPA 170.1	7/21/14 8:00	W LMH	U	
Turbidity	< 0.5	NTU	EPA 180.1	7/21/14 13:26	W SJM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	7/29/14	W AWM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	7/22/14	W AWM	A	
Barium, Total	0.14	mg/L	EPA 200.7	7/22/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	7/22/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	7/22/14	W RGT	A	
Calcium, Total	72	mg/L	EPA 200.7	7/22/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	7/22/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	7/22/14	W RGT	A	
Iron, Total	0.11	mg/L	EPA 200.7	7/22/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	7/25/14	W AWM	A	
Magnesium, Total	38	mg/L	EPA 200.7	7/22/14	W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	7/22/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	7/24/14	W CM	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	7/22/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM 3113B-04	7/22/14	W AWM	A	
Sodium, Total	6.9	mg/L	EPA 200.7	7/22/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	EPA 200.9	7/31/14	W AWM	A	

002 Site: NEW Well 4 Volatile Organic Chemicals Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Potable Water							
Dichlorodifluoromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Chloromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Vinyl chloride	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Bromomethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Chloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Trichlorofluoromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1-Dichloroethene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Methylene chloride	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	

Laboratory Report DATE REPORTED: 08/08/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1407-14177**
DATE RECEIVED: 07/21/2014

002 Site: NEW Well 4 Volatile Organic Chemicals Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Methyl-t-butyl ether (MTBE)	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
trans-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1-Dichloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
2,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
cis-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Bromochloromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Chloroform	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1,1-Trichloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1-Dichloropropene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Benzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Trichloroethene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Dibromomethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Bromodichloromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
cis-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Toluene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
trans-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1,2-Trichloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Tetrachloroethene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,3-Dichloropropane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Dibromochloromethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Chlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Ethylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Xylenes, Total	< 1.0	ug/L	EPA 524.2	7/24/14	W SJM	A	
Styrene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Bromoform	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Isopropylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,1,2,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Bromobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
n-Propylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2,3-Trichloropropane	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
2-Chlorotoluene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,3,5-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
4-Chlorotoluene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
t-Butylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2,4-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
s-Butylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
4-Isopropyltoluene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,3-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,4-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
n-Butylbenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	

Laboratory Report DATE REPORTED: 08/08/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1407-14177**
DATE RECEIVED: 07/21/2014

002 Site: NEW Well 4 Volatile Organic Chemicals Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2,4-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Hexachlorobutadiene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Naphthalene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
1,2,3-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	7/24/14	W SJM	A	
Surr. 1 (4-Bromofluorobenzene)	102	%	EPA 524.2	7/24/14	W SJM	A	
Surr. 2 (1,2-Dichlorobenzene d4)	100	%	EPA 524.2	7/24/14	W SJM	A	

003 Site: NEW Well 4 Synthetic Organic Chemicals Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
MICRO-EXTRACTABLES							
504 Extraction	Completed		EPA 504.1	7/21/14	W MDP	A	
Ethylene Dibromide	< 0.03	ug/L	EPA 504.1	7/21/14	W MDP	A	
1,2-Dibromo-3-chloropropane	< 0.05	ug/L	EPA 504.1	7/21/14	W MDP	A	
CHLORINATED PESTICIDES							
505 Extraction	Completed		EPA 505	7/21/14	W MDP	A	
gamma-BHC (Lindane)	< 0.1	ug/L	EPA 505	7/21/14	W MDP	A	
Heptachlor	< 0.1	ug/L	EPA 505	7/21/14	W MDP	A	
Aldrin	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Heptachlor Epoxide	< 0.1	ug/L	EPA 505	7/21/14	W MDP	A	
Dieldrin	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Endrin	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Methoxychlor	< 1.0	ug/L	EPA 505	7/21/14	W MDP	A	
Chlordane	< 0.2	ug/L	EPA 505	7/21/14	W MDP	A	
Toxaphene	< 2.0	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1016	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1221	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1232	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1242	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1248	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1254	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
Aroclor 1260	< 0.5	ug/L	EPA 505	7/21/14	W MDP	A	
PHENOXY-ACID HERBICIDES							
515 Extraction	Completed		EPA 515.4	8/1/14	W MDP	A	
Dalapon	< 15.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
Dicamba	< 10.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
2,4-D	< 5.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
Pentachlorophenol	< 0.5	ug/L	EPA 515.4	8/1/14	W MDP	A	
2,4,5-TP (Silvex)	< 2.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
2,4,5-T	< 3.0	ug/L	EPA 515.4	8/1/14	W MDP	U	
Picloram	< 5.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
Dinoseb	< 3.0	ug/L	EPA 515.4	8/1/14	W MDP	A	
Surrogate-DCAA	111	%	EPA 515.4	8/1/14	W MDP	A	
SEMI-VOLATILE ORGANICS							

Laboratory Report DATE REPORTED: 08/08/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1407-14177**
DATE RECEIVED: 07/21/2014

003 Site: NEW Well 4 Synthetic Organic Chemicals Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
525.2 Extraction	Completed		EPA 525.2	7/29/14	W FAA	A	
Hexachlorocyclopentadiene	< 5.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Propachlor	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Hexachlorobenzene	< 0.5	ug/L	EPA 525.2	8/1/14	W EEP	A	
Simazine	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Atrazine	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Metribuzin	< 2.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Alachlor	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Metolachlor	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Butachlor	< 1.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Bis(2-ethylhexyl)adipate	< 5.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 3.0	ug/L	EPA 525.2	8/1/14	W EEP	A	
Benzo(a)pyrene	< 0.1	ug/L	EPA 525.2	8/1/14	W EEP	A	
Surrogate 1	104	%	EPA 525.2	8/1/14	W EEP	A	
Surrogate 2	129	%	EPA 525.2	8/1/14	W EEP	A	
Surrogate 3	78	%	EPA 525.2	8/1/14	W EEP	A	

004 Site: NEW Well 4 Cyanide Testing Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Cyanide	< 0.004	mg/L	EPA 335.4, R.1	7/24/14	N CAL	A	

005 Site: NEW Well 4 Carbamates Testing Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
CARBAMATE PESTICIDES							
3-Hydroxycarbofuran	< 0.50	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Aldicarb	< 0.50	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Aldicarb Sulfone	< 0.80	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Aldicarb Sulfoxide	< 0.50	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Carbaryl	< 0.50	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Methomyl	< 0.50	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Oxamyl (Vydate)	< 2.0	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR
Carbofuran	< 0.90	ug/L	EPA 531.2	7/30/14	SWSUB	A	SPR

006 Site: NEW Well 4 Radionuclides Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Radium-226	3.72+/-1.02	pCi/L	EPA 903.1	8/4/14	SWSUB	A	SPA
Radium-228	0.392+/-0.370	pCi/L	EPA 904.0	8/4/14	SWSUB	A	SPA
Gross Alpha	7.26+/-2.11	pCi/L	EPA 900.0	8/4/14	SWSUB	A	SPA

Laboratory Report DATE REPORTED: 08/08/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1407-14177**
DATE RECEIVED: 07/21/2014

007 Site: NEW Well 4 Uranium Date Sampled: 7/21/14 Time: 8:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Uranium	0.00120	mg/L	EPA 200.8	7/29/14	SWSUB	A	SBK

008 Site: Method 524 Trip Blank Not Needed Date Sampled: 6/30/14 Time: 13:35

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.

No analysis

009 Site: Method 504 Trip Blank Not Needed Date Sampled: 6/30/14 Time: 13:35

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.

No analysis

Report Summary of Qualifiers and Notes

To facilitate reporting to the Water Supply Division, analyses requested on this C-of-C have been reported as separate, individual Work Orders.
Samples received in this project required pH. The EPA hold time for this analysis is 15 minutes and should be performed at the time of collection. Analysis was performed as soon as possible upon arrival at the laboratory.
SBK: Analysis performed by subcontracted laboratory, Katahdin Analytical Services, Inc. The complete subcontracted report has been appended to this report.
SPR: Analysis performed by subcontracted laboratory, Premier Laboratory Inc., VT11549. The complete subcontracted report has been appended to this report.
SPA: Analysis performed by subcontracted laboratory, Pace Analytical, VT-0282. The complete subcontracted report has been appended to this report.
Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Sprague GeoScience 100518
480 Salvas Road
Huntington, VT 05462

Atten: Cindy Sprague

PROJECT: WSID 5070 Hinesburg TC SP
WORK ORDER: **1407-14178**
DATE RECEIVED: July 21, 2014
DATE REPORTED: July 22, 2014
SAMPLER: Cindy Sprague **VT0005070**

001 Site: NEW WELL #4 Well Head Date Sampled: 7/21/14 Time: 8:00

Facility ID: DS001 Smp Pt: TC001 Categ: TC Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
Total Coliform	Absent	/100 mL	SM18 9223B (97)	7/21/14	14:12	W EER	A	
e. coli	Absent	/100 mL	SM18 9223B	7/21/14	14:12	W EER	A	

To facilitate reporting to the Water Supply Division, analyses requested on this C-of-C have been reported as separate, individual Work Orders.

Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

WSID 5070 Hinesburg

Total Coliform

Endyne Inc. COC

Lab Use WO# 1407-1478

Prepared: 6/30/14

Cust # 100518

VT0005070

TC0005070

Page 1 of 1

Bill to:

Accts Payable
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
Ph: (802) 434-5522

Report to:

Cindy Sprague
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
CindyS@madriver.com

Was the water system chlorinated at the time of sample collection? Circle one: YES (NO)

Sampler: Cindy Sprague

Circle Sample Type for each sample: RT RP SP 1 Sterile 120 mL Bottle per Sample

Fac.ID: DS001 Smp Pt: TC001 Ctgy: TC Smp Typ: **RT RP SP** Repl: **Y / N** Cmpl Ind: **Y / N** Chlorine, Free: — mg/L

Site: Well #4 well head Sampled Date/Time: 7/21/14 @ 8:00 Am Chlorine, Total: — mg/L

This is the Microbiological portion of the (Initial Public Water Supply) Sample.

Relinquished by: [signature] 7-21-14 11:45A Date Time Accepted by: Eileen Dooney 7/21/14 @ 11:45 Date Time

Relinquished by: _____ Date Time Received by: _____ Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Lab use Only

Delv: Client
Temp C: 3.2
Comment:

Tmpl Ck
Log by

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

ENDYNE Inc.
Environmental Laboratories

Sprague GeoScience	
480 Salvas Road	100518
Huntington, VT 05462	
Atten: Cindy Sprague	

PROJECT: WSID 5070 Hinesburg IPW SP
WORK ORDER: **1408-15867**
DATE RECEIVED: August 08, 2014
DATE REPORTED: September 02, 2014
SAMPLER: Cindy Sprague **VT0005070**

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

001 Site: NEW Well 5 Primary & Secondary Inorganic Contaminants Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Alkalinity, as CaCO3	255	mg/L	SM20 2320B(97)	8/14/14	W JSS	N	
Chloride	14	mg/L	EPA 300.0	8/12/14	W KMB	A	
Color, Apparent	< 5	CoPt Units	SM 2120 B. (01)	8/8/14 13:25	W SJM	A	
pH of color measurement	7.57	SU at 21.7C	SM20 4500-H B.	8/8/14 13:51	W SJM	U	
Fluoride	< 0.10	mg/L	EPA 300.0	8/12/14	W KMB	A	
Hardness, Total as CaCO3	322	mg/L	EPA 200.7	8/13/14	W RGT	U	
Langelier's Corrosivity	0.254		SM18 2330B	8/12/14	W JSS	A	
Nitrate as N	< 0.020	mg/L	EPA 300.0	8/12/14 1:26	W KMB	A	E
Nitrite as N	< 0.020	mg/L	EPA 300.0	8/12/14 1:26	W KMB	A	E
Odor	1	TON	SM20 2150B (97)	8/8/14 13:51	W JSS	A	
pH	7.57	SU at 21.7C	SM 4500-H B.(97)	8/8/14 13:51	W SJM	U	
Solids, Total Dissolved	296	mg/L	SM 2540C(97)	8/12/14	W JSS	A	
Temperature for Calc.	20	C	EPA 170.1	8/8/14 7:00	W ECT	U	
Turbidity	0.66	NTU	EPA 180.1	8/8/14 13:16	W SJM	A	
Antimony, Total	< 0.002	mg/L	SM 3113B-04	8/19/14	W CM	A	
Arsenic, Total	< 0.001	mg/L	SM 3113B-04	8/12/14	W CM	A	
Barium, Total	0.13	mg/L	EPA 200.7	8/13/14	W RGT	A	
Beryllium, Total	< 0.001	mg/L	EPA 200.7	8/13/14	W RGT	A	
Cadmium, Total	< 0.002	mg/L	EPA 200.7	8/13/14	W RGT	A	
Calcium, Total	68	mg/L	EPA 200.7	8/13/14	W RGT	A	
Chromium, Total	< 0.005	mg/L	EPA 200.7	8/13/14	W RGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.7	8/13/14	W RGT	A	
Iron, Total	0.092	mg/L	EPA 200.7	8/13/14	W RGT	A	
Lead, Total	< 0.001	mg/L	SM 3113B-04	8/12/14	W AWM	A	
Magnesium, Total	37	mg/L	EPA 200.7	8/13/14	W RGT	A	
Manganese, Total	< 0.020	mg/L	EPA 200.7	8/13/14	W RGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 245.1	8/13/14	W EER	A	
Nickel, Total	< 0.005	mg/L	EPA 200.7	8/13/14	W RGT	A	
Selenium, Total	< 0.002	mg/L	SM 3113B-04	8/20/14	W CM	A	
Sodium, Total	7.9	mg/L	EPA 200.7	8/13/14	W RGT	A	
Thallium, Total	< 0.001	mg/L	EPA 200.9	8/21/14	W CM	A	

002 Site: NEW Well 5 Volatile Organic Chemicals Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Potable Water							
Dichlorodifluoromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Chloromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Vinyl chloride	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Bromomethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Chloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Trichlorofluoromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Methylene chloride	< 3.0	ug/L	EPA 524.2	8/19/14	W MHM	A	PLE

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

002 Site: NEW Well 5 Volatile Organic Chemicals Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Methyl-t-butyl ether (MTBE)	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
trans-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1-Dichloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
2,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
cis-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Bromochloromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Chloroform	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1,1-Trichloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Benzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Trichloroethene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Dibromomethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Bromodichloromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
cis-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Toluene	0.8	ug/L	EPA 524.2	8/19/14	W MHM	A	
trans-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1,2-Trichloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Tetrachloroethene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,3-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Dibromochloromethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Chlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Ethylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Xylenes, Total	< 1.0	ug/L	EPA 524.2	8/19/14	W MHM	A	
Styrene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Bromoform	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Isopropylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,1,2,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Bromobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
n-Propylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2,3-Trichloropropane	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
2-Chlorotoluene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,3,5-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
4-Chlorotoluene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
t-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2,4-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
s-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
4-Isopropyltoluene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,3-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,4-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
n-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

002 Site: NEW Well 5 Volatile Organic Chemicals Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2,4-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Hexachlorobutadiene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Naphthalene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
1,2,3-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	8/19/14	W MHM	A	
Surr. 1 (4-Bromofluorobenzene)	99	%	EPA 524.2	8/19/14	W MHM	A	
Surr. 2 (1,2-Dichlorobenzene d4)	99	%	EPA 524.2	8/19/14	W MHM	A	

003 Site: NEW Well 5 Cyanide Testing Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Cyanide	< 0.004	mg/L	EPA 335.4, R.1	8/14/14	N JGM	A	

004 Site: NEW Well 5 Synthetic Organic Chemicals Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
MICRO-EXTRACTABLES							
504 Extraction	Completed		EPA 504.1	8/8/14	W MDP	A	
Ethylene Dibromide	< 0.03	ug/L	EPA 504.1	8/9/14	W MDP	A	
1,2-Dibromo-3-chloropropane	< 0.05	ug/L	EPA 504.1	8/9/14	W MDP	A	
CHLORINATED PESTICIDES							
505 Extraction	Completed		EPA 505	8/12/14	W MDP	A	
gamma-BHC (Lindane)	< 0.1	ug/L	EPA 505	8/12/14	W MDP	A	
Heptachlor	< 0.1	ug/L	EPA 505	8/12/14	W MDP	A	
Aldrin	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Heptachlor Epoxide	< 0.1	ug/L	EPA 505	8/12/14	W MDP	A	
Dieldrin	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Endrin	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Methoxychlor	< 1.0	ug/L	EPA 505	8/12/14	W MDP	A	
Chlordane	< 0.2	ug/L	EPA 505	8/12/14	W MDP	A	
Toxaphene	< 2.0	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1016	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1221	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1232	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1242	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1248	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1254	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
Aroclor 1260	< 0.5	ug/L	EPA 505	8/12/14	W MDP	A	
PHENOXY-ACID HERBICIDES							
515 Extraction	Completed		EPA 515.4	8/18/14	W MDP	A	
Dalapon	< 15.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
Dicamba	< 10.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
2,4-D	< 5.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
Pentachlorophenol	< 0.5	ug/L	EPA 515.4	8/19/14	W MDP	A	

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

004 Site: NEW Well 5 Synthetic Organic Chemicals Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
2,4,5-TP (Silvex)	< 2.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
2,4,5-T	< 3.0	ug/L	EPA 515.4	8/19/14	W MDP	U	
Picloram	< 5.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
Dinoseb	< 3.0	ug/L	EPA 515.4	8/19/14	W MDP	A	
Surrogate-DCAA	91	%	EPA 515.4	8/19/14	W MDP	A	
SEMI-VOLATILE ORGANICS							
525.2 Extraction	Completed		EPA 525.2	8/18/14	W FAA	A	
Hexachlorocyclopentadiene	< 5.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Propachlor	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Hexachlorobenzene	< 0.5	ug/L	EPA 525.2	8/21/14	W EEP	A	
Simazine	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Atrazine	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Metribuzin	< 2.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Alachlor	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Metolachlor	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Butachlor	< 1.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Bis(2-ethylhexyl)adipate	< 5.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 3.0	ug/L	EPA 525.2	8/21/14	W EEP	A	
Benzo(a)pyrene	< 0.1	ug/L	EPA 525.2	8/21/14	W EEP	A	
Surrogate 1	118	%	EPA 525.2	8/21/14	W EEP	A	
Surrogate 2	102	%	EPA 525.2	8/21/14	W EEP	A	
Surrogate 3	90	%	EPA 525.2	8/21/14	W EEP	A	

005 Site: NEW Well 5 Carbamates Testing Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
CARBAMATE PESTICIDES							
3-Hydroxycarbofuran	< 0.50	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Aldicarb	< 0.50	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Aldicarb Sulfone	< 0.80	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Aldicarb Sulfoxide	< 0.50	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Carbaryl	< 0.50	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Methomyl	< 0.50	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Carbofuran	< 0.90	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR
Oxamyl (Vydate)	< 2.0	ug/L	EPA 531.2	8/16/14	SWSUB	A	SPR

006 Site: NEW Well 5 Radionuclides Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Radium-226	1.83+/- 0.831	pCi/L	EPA 903.1	8/25/14	SWSUB	A	SPA
Radium-228	0.496+/-0.340	pCi/L	EPA 904.0	8/25/14	SWSUB	A	SPA
Gross Alpha	5.37+/-2.22	pCi/L	EPA 900.0	8/25/14	SWSUB	A	SPA

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

007 Site: NEW Well 5 Uranium Date Sampled: 8/8/14 Time: 7:00

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Uranium	0.00132	mg/L	EPA 200.8	8/20/14	SWSUB	A	SBK

008 Site: Method 524 Trip Blank Date Sampled: 7/25/14 Time: 11:30

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Potable Water							
Dichlorodifluoromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Chloromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Vinyl chloride	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Bromomethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Chloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Trichlorofluoromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Methylene chloride	< 3.0	ug/L	EPA 524.2	8/21/14	W MHM	A	PLE
Methyl-t-butyl ether (MTBE)	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
trans-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1-Dichloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
2,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
cis-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Bromochloromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Chloroform	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1,1-Trichloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Benzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Trichloroethene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Dibromomethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Bromodichloromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
cis-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Toluene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
trans-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1,2-Trichloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Tetrachloroethene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,3-Dichloropropane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Dibromochloromethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Chlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Ethylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Xylenes, Total	< 1.0	ug/L	EPA 524.2	8/21/14	W MHM	A	
Styrene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Bromoform	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Isopropylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	

Laboratory Report DATE REPORTED: 09/02/2014

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **1408-15867**
DATE RECEIVED: 08/08/2014

008 Site: Method 524 Trip Blank Date Sampled: 7/25/14 Time: 11:30

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,1,2,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Bromobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
n-Propylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2,3-Trichloropropane	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
2-Chlorotoluene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,3,5-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
4-Chlorotoluene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
t-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2,4-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
s-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
4-Isopropyltoluene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,3-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,4-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
n-Butylbenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2,4-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Hexachlorobutadiene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Naphthalene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
1,2,3-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	8/21/14	W MHM	A	
Surr. 1 (4-Bromofluorobenzene)	96	%	EPA 524.2	8/21/14	W MHM	A	
Surr. 2 (1,2-Dichlorobenzene d4)	95	%	EPA 524.2	8/21/14	W MHM	A	

009 Site: Method 504 Trip Blank Not Needed Date Sampled: 7/25/14 Time: 11:30

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.

No analysis

Report Summary of Qualifiers and Notes

The Langelier's Index is calculated based on the temperature, pH, TDS, Alkalinity and Calcium which are included in this report.

E: Sample was analyzed past Method specified holding time.

SBK: Analysis performed by subcontracted laboratory, Katahdin Analytical Services, Inc. The complete subcontracted report has been appended to this report.
SPR: Analysis performed by subcontracted laboratory, Premier Laboratory Inc., VT11549. The complete subcontracted report has been appended to this report.

PLE: The reporting limit was increased due to contaminant present in the laboratory environment.
SPA: Analysis performed by subcontracted laboratory, Pace Analytical, VT-0282. The complete subcontracted report has been appended to this report.

Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Sprague GeoScience 100518
480 Salvas Road
Huntington, VT 05462

Atten: Cindy Sprague

PROJECT: WSID 5070 Hinesburg TC SP
WORK ORDER: **1408-15868**
DATE RECEIVED: August 08, 2014
DATE REPORTED: August 11, 2014
SAMPLER: Cindy Sprague **VT0005070**

001 Site: NEW WELL # 5 Date Sampled: 8/8/14 Time: 7:00

Facility ID: DS001 Smp Pt: TC001 Categ: TC Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
Total Coliform	Present	/100 mL	SM20 9223B(97)	8/8/14	13:40	W EER	A	
e. coli	Absent	/100 mL	SM20 9223B(97)	8/8/14	13:40	W EER	A	

This is the Microbiological portion of the Initial Public Water Supply Sample.
Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Wells

WSID 5070 Hinesburg

Total Coliform

Endyne Inc. COC

Lab Use WO# 1408-15808

Prepared: 6/30/14

Bill to:	Report to:
Accts Payable	Cindy Sprague
Sprague GeoScience	Sprague GeoScience
480 Salvas Road	480 Salvas Road
Huntington VT 05462	Huntington VT 05462
Ph: (802) 434-5522	CindyS@madriver.com

Cust # 100518

VT0005070

TC0005070

Was the water system chlorinated at the time of sample collection? Circle one: YES (NO)

Circle Sample Type for each sample: RT RP SP initial PCWS

1 Sterile 120 mL Bottle per Sample

Sampler: Cindy Sprague

Fac.ID: DS001 Smp Pt: TC001 Ctgy: TC Smp Typ: **RT RP SP** Repl: **Y / N** Cmpl Ind: **Y / N** Chlorine, Free: ~ mg/L

Site: Town of Hinesburg Wells Wells Near

Sampled Date/Time: 8/8/14@7:00A

Chlorine, Total: ~ mg/L

This is the Microbiological portion of the Initial Public Water Supply Sample.

Relinquished by: [signature] 8.8.14 11:25 Date Time

Accepted by: _____ Date Time

Relinquished by: _____ Date Time

Received by: [signature] 8/8/14 11:30 Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Lab use Only

Delv: Client

Temp C: 5.7

Comment:

Tmpl Ck

Log by

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Hinesburg, Town of 100587
10632 RT 116
Hinesburg, VT 05461

Atten: Erik Bailey

PROJECT: Well 5
WORK ORDER: **1504-06909**
DATE RECEIVED: April 16, 2015
DATE REPORTED: April 17, 2015
SAMPLER: Erik **VTP**

- 001 Site: Wairner Well 5 Date Sampled: 4/16/15 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	Qualifiers
Total Coliform	< 1	MPN/100mls	SM20 9223B(97)	4/16/15 16:06	W KMB	
e. coli	< 1	MPN/100mls	SM20 9223B(97)	4/16/15 16:06	W KMB	

The Federal SDWA considers this water bacteriologically **Acceptable** for consumption.

EPA Coliform Acceptance Criteria MCL

Total Coliform < 1 MPN/100ml or Absent
e. coli < 1 MPN/100ml or Absent

Reviewed by:

Harry B. Locker Ph.D.
Laboratory Director

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

CHAIN-OF-CUSTODY-RECORD

71776

Special Reporting Instructions/PO#: _____

Project Name:	Client/Contact Name: Hinesburg Water works Phone #: 482-6097	Sampler Name: Phone #:
State of Origin: VT __ NY __ NH __ Other __	Mailing Address:	Billing Address:
Endyne WO # 1504-010909		

Sample Location	Matrix	GRAB	COMP	Date/Time Sampled	Sample Containers No.	Sample Containers Type/Size	Sample Preservation	Analysis Required	FieldResults/Remarks	Due Date
Warner Well 5	DW	✓		4/16 9:30am	1	100 mL	4	17		

Relinquished by:	Date/Time	Received by:	Date/Time	Received by:	Date/Time
[signature]	4/16/15 1355			Eileen Looney	4/16/15@ 1335

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Client
Temp: 6.3
Comment:

(White - Laboratory / Yellow - Client)

ENDYNE Inc.
Environmental Laboratories

Sprague GeoScience	
480 Salvas Road	100518
Huntington, VT 05462	
Atten: Cindy Sprague	

PROJECT: WSID 5070 Hinesburg IPW SP
WORK ORDER: **2008-22861**
DATE RECEIVED: August 21, 2020
DATE REPORTED: September 17, 2020
SAMPLER: Cindy Sprague **VT0005070**

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accredit ation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation fo r that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as t hey were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report DATE REPORTED: 09/17/2020

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **2008-22861**
DATE RECEIVED: 08/21/2020

002 Site: Well 6 Turbidity Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Turbidity	< 0.50	NTU	EPA 180.1	8/22/20 9:48	W MGT	A	

003 Site: Well 6 Primary & Secondary Inorganic Contaminants Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Uranium, Total	< 1.00	ug/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Alkalinity, as CaCO3, to pH 4.5	192	mg/L	SM22 2320B(97)	8/24/20	W JSS	N	
Chloride	18	mg/L	EPA 300.0	8/21/20	W TEL	A	
Color, Apparent	< 5	CoPt Units	SM 2120 B. (01)	8/22/20 8:55	W MGT	A	
pH of color measurement	7.89	SU at 21.9C	SM20 4500-H B.	8/22/20 10:30	W MGT	U	
Fluoride	0.12	mg/L	EPA 300.0	8/21/20	W TEL	A	
Hardness, Total as CaCO3	237	mg/L	EPA 200.7	9/1/20	W FAA	U	
Langelier's Corrosivity	0.359		SM22 2330B	9/1/20	W FAA	A	
Nitrate as N	< 0.020	mg/L	EPA 300.0	8/21/20 22:20	W TEL	A	
Nitrite as N	< 0.020	mg/L	EPA 300.0	8/21/20 22:20	W TEL	A	
Odor	< 1	TON @ 60C	SM22 2150B (97)	8/26/20 10:51	W JSS	A	AN1
pH	7.89	SU at 21.9C	SM 4500-H B.(00)	8/22/20 10:30	W MGT	U	
Solids, Total Dissolved	190	mg/L	SM22 2540C(11)	8/24/20	W JSS	A	
Temperature for Calc.	20	C	EPA 170.1	8/21/20 8:00	W ECT	U	
Antimony, Total	< 0.0020	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Arsenic, Total	0.0020	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Barium, Total	0.097	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Beryllium, Total	< 0.0010	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Cadmium, Total	< 0.0020	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Calcium, Total	47	mg/L	EPA 200.7	9/1/20	W FAA	A	
Chromium, Total	< 0.0050	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Copper, Total	< 0.020	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Iron, Total	0.091	mg/L	EPA 200.7	9/1/20	W FAA	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Magnesium, Total	29	mg/L	EPA 200.7	9/1/20	W FAA	A	
Manganese, Total	< 0.010	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Mercury, Total	< 0.0002	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Nickel, Total	< 0.0050	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Selenium, Total	< 0.0020	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	
Sodium, Total	12	mg/L	EPA 200.7	9/1/20	W FAA	A	
Thallium, Total	< 0.0010	mg/L	EPA 200.8	9/1/20 18:57	W MGT	A	

004 Site: Well 6 Volatile Organic Chemicals Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Potable Water							
Dichlorodifluoromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Chloromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	

Laboratory Report DATE REPORTED: 09/17/2020

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **2008-22861**
DATE RECEIVED: 08/21/2020

004 Site: Well 6 Volatile Organic Chemicals Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Vinyl chloride	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Bromomethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Chloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Trichlorofluoromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1-Dichloroethene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Methylene chloride	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Methyl-t-butyl ether (MTBE)	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
trans-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1-Dichloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
2,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
cis-1,2-Dichloroethene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Bromochloromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Chloroform	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1,1-Trichloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1-Dichloropropene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Benzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Trichloroethene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Dibromomethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
cis-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Toluene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
trans-1,3-Dichloropropene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1,2-Trichloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,3-Dichloropropane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Dibromochloromethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Chlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Ethylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1,1,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Xylenes, Total	< 1.0	ug/L	EPA 524.2	9/1/20	W EEP	A	
Styrene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Bromoform	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Isopropylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,1,2,2-Tetrachloroethane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Bromobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
n-Propylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2,3-Trichloropropane	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
2-Chlorotoluene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,3,5-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
4-Chlorotoluene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
t-Butylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2,4-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	

Laboratory Report DATE REPORTED: 09/17/2020

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **2008-22861**
DATE RECEIVED: 08/21/2020

004 Site: Well 6 Volatile Organic Chemicals Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
s-Butylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
4-Isopropyltoluene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,3-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,4-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2,3-Trimethylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	U	
n-Butylbenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2-Dichlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2,4-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Hexachlorobutadiene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
1,2,3-Trichlorobenzene	< 0.5	ug/L	EPA 524.2	9/1/20	W EEP	A	
Surr. 1 (4-Bromofluorobenzene)	95	%	EPA 524.2	9/1/20	W EEP	A	
Surr. 2 (1,2-Dichlorobenzene d4)	92	%	EPA 524.2	9/1/20	W EEP	A	

005 Site: Well 6 Cyanide Testing Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Cyanide	< 0.009	mg/L	EPA 335.4, R.1	9/4/20	N MAP	A	

006 Site: Well 6 Synthetic Organic Chemicals Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
MICRO-EXTRACTABLES							
504 Extraction	Completed		EPA 504.1	9/1/20	W DPD	A	
Ethylene Dibromide, Low Level	< 0.03	ug/L	EPA 504.1	9/1/20	W DPD	A	
1,2-Dibromo-3-chloropropane, Low Level	< 0.05	ug/L	EPA 504.1	9/1/20	W DPD	A	
CHLORINATED PESTICIDES							
505 Extraction	Completed		EPA 505	8/25/20	W DPD	A	
gamma-BHC (Lindane)	< 0.1	ug/L	EPA 505	8/25/20	W DPD	A	
Heptachlor	< 0.1	ug/L	EPA 505	8/25/20	W DPD	A	
Aldrin	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Heptachlor Epoxide	< 0.1	ug/L	EPA 505	8/25/20	W DPD	A	
Dieldrin	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Endrin	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Methoxychlor	< 1.0	ug/L	EPA 505	8/25/20	W DPD	A	
Chlordane	< 0.2	ug/L	EPA 505	8/25/20	W DPD	A	
Toxaphene	< 2.0	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1016	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1221	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1232	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1242	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1248	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
Aroclor 1254	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	

Laboratory Report DATE REPORTED: 09/17/2020

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **2008-22861**
DATE RECEIVED: 08/21/2020

006 Site: Well 6 Synthetic Organic Chemicals Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Aroclor 1260	< 0.5	ug/L	EPA 505	8/25/20	W DPD	A	
PHENOXY-ACID HERBICIDES							
515 Extraction	Completed		EPA 515.4	8/31/20	W MTA	A	
Dalapon	< 15.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
Dicamba	< 10.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
2,4-D	< 5.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
Pentachlorophenol	< 0.5	ug/L	EPA 515.4	9/2/20	W DPD	A	
2,4,5-TP (Silvex)	< 2.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
2,4,5-T	< 3.0	ug/L	EPA 515.4	9/2/20	W DPD	U	
Picloram	< 5.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
Dinoseb	< 3.0	ug/L	EPA 515.4	9/2/20	W DPD	A	
Surrogate-DCAA	92	%	EPA 515.4	9/2/20	W DPD	A	
SEMI-VOLATILE ORGANICS							
525.2 Extraction	Completed		EPA 525.2	9/1/20	W TRP	A	
Hexachlorocyclopentadiene	< 5.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Propachlor	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Hexachlorobenzene	< 0.5	ug/L	EPA 525.2	9/11/20	W EEP	A	
Simazine	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Atrazine	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Metribuzin	< 2.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Alachlor	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Metolachlor	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Butachlor	< 1.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Bis(2-ethylhexyl)adipate	< 5.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 3.0	ug/L	EPA 525.2	9/11/20	W EEP	A	
Benzo(a)pyrene	< 0.1	ug/L	EPA 525.2	9/11/20	W EEP	A	
Surrogate 1	95	%	EPA 525.2	9/11/20	W EEP	A	
Surrogate 2	106	%	EPA 525.2	9/11/20	W EEP	A	
Surrogate 3	74	%	EPA 525.2	9/11/20	W EEP	A	

007 Site: Well 6 Carbamates Testing Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
CARBAMATE PESTICIDES							
3-Hydroxycarbofuran	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Aldicarb	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Aldicarb Sulfone	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Aldicarb Sulfoxide	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Carbaryl	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Methomyl	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Oxamyl (Vydate)	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG
Carbofuran	< 1.0	ug/L	EPA 531.2	9/1/20	SW SUB	A	SPG

008 Site: Well 6 Radionuclides Date Sampled: 8/21/20 Time: 8:00

Laboratory Report DATE REPORTED: 09/17/2020

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg IPW SP

WORK ORDER: **2008-22861**
DATE RECEIVED: 08/21/2020

008 Site: Well 6 Radionuclides Date Sampled: 8/21/20 Time: 8:00

Facility ID: WL006 Smp Pt: RW006 Categ: GE Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Radium-226	2.12 +/- 0.770	pCi/L	EPA 903.1	9/14/20	SW SUB	A	SPA
Radium-228	0.662 +/- 0.439	pCi/L	EPA 904.0	9/10/20	SW SUB	A	SPA
Gross Alpha	5.28 +/- 2.03	pCi/L	EPA 900.0	9/14/20	SW SUB	A	SPA

009 Site: Method 524 Trip Blank Not Needed Date Sampled: 8/21/20 Time: 8:00

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.

No analysis

010 Site: Method 504 Trip Blank Not Needed Date Sampled: 8/21/20 Time: 8:00

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Compl Ind: Y Repl Ind: U IN

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.

No analysis

Report Summary of Qualifiers and Notes

AN1: Due to COVID-19 a single analyst was used instead of a full panel. Sample was analyzed past method specified holding time.

SPG: Analysis performed by subcontracted laboratory, Granite State. Results are presented here for your convenience. Refer to the complete subcontracted report, which has been appended to this report, for detailed information regarding this result.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. Refer to the complete subcontracted report appended to this report, for detailed information regarding this result.

Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

WSID Template IPW SP

Endyne Inc. COC

Prepared: 8/12/20

2008-22861

2008-22861

Sprague GeoScience
WSID 5070 Hinesburg IPW SP

Bill to:
Accts Payable
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
Ph: (802) 434-5522

Report to:
Cindy Sprague
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
cindyS@madriver.com

Cust # 100

VT0005C

IPW00000

Facility ID: DS001 Smp Pt: TC001 Categ: TC Smp Type: SP Repl Ind: N Compl Ind: Y / N

_____ Microbiological — Sampled Date/Time: 8/21/20 @ 8:20

Total Colif. Package P/A	1 - 150ml Sterile Plastic	<10C, Na2S2O3 If Cl2

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Turbidity — Sampled Date/Time: 8/21/20 @ 8:00 A

Turbidity	1 - 8oz Plastic	<6C

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Primary & Secondary Inorganic Contaminants — Sampled Date/Time: 8/21/20 @ 8:00A

Temperature		
Odor	1 - 16oz Amber Glass	<6C, pH 5-9
Color Package	1 - 8oz Amber Glass	<6C
pH	1 -4 oz Plastic	Refrigerate
Chloride Fluoride Nitrate as N Nitrite as N	1 -2 oz-Plastics Anion	<6C
Langelier's Corrosivity Solids, Total Dissolved	1 - 32oz Plastic	<6C
Alkalinity, as CaCO3	1 - 8 oz Plastics Alkalinity	<6C No Headspace
Hardness, Total Uranium, Total Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Sodium, Total Thallium, Total	1 - 16oz Plastic	HNO3 pH< 2

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Volatile Organic Chemicals — Sampled Date/Time: 8/21/20 @ 8:00 A

VOC Potable Regulated | 2 - 40ml vials | <6C, HCl

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Cyanide Testing — Sampled Date/Time: 8/21/20 @ 8:00 A

Cyanide | 1 - 8 oz Plastic for CN | <6C, NaOH ___ Na2S2O3, Cl2 ___

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Synthetic Organic Chemicals — Sampled Date/Time: 8/21/20 @ 8:00 A

SOC Package | See Attached Bottle List

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Carbamates Testing — Sampled Date/Time: 8/21/20 @ 8:00 A

CARBAMATE Premier | 2 - 40 mL vials clear | <6C, MCAA, Na2S2O3 Check at Si

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y / N

Well 6 Radionuclides — Sampled Date/Time: 8/21/20 @ 8:00 A

Radium 226 & 228 Package | 2 - 1 Liter Plastic | HNO3 to pH < 2 ___

Gross Alpha | 1 - 16 oz Subout Gross Alp | HNO3 ___

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Repl Ind: U Compl Ind: Y / N

Method 524 Trip Blank — Sampled Date/Time: ___/___/___@___) per lab

VOC Potable Regulated | 2 - 40ml vials | <6C, HCl

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Repl Ind: U Compl Ind: Y / N

Method 504 Trip Blank — Sampled Date/Time: ___/___/___@___ per lab

MICRO-EXTRACTABLES | 1 - 40ml vials | <6C, Na2S2O3

Sampler:: Cindy Sprague

Relinquished by: Cindy Sprague 8.21.20 / 9:00 A Date Time — Accepted by: 8/21/20 9:00AM Date Time

Relinquished by: 8/21/20 @ 11:34 am Date Time — Received by: Clair 8/21/20 11:32 Date Time

Sites/Parameters correct as listed. Client Initials ____

Client Authorization to use Subcontract lab Client Initials ____

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) ____

Requested Turnaround Time: Routine: Rush Due Date ____

Delv: Client
Temp C: 9.5
Comment:

Tmpl Ck
Log by

Lab use Only

ENDYNE Inc. www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Laboratory Report

ENDYNE Inc.
Environmental Laboratories

Sprague GeoScience 100518
480 Salvas Road
Huntington, VT 05462

Atten: Cindy Sprague

PROJECT: WSID 5070 Hinesburg TC SP
WORK ORDER: **2008-22749**
DATE RECEIVED: August 20, 2020
DATE REPORTED: August 24, 2020
SAMPLER: Cindy **VT0005070**

001 Site: Hinesburg Well #6 Date Sampled: 8/20/20 Time: 13:00

Facility ID: WL006 Smp Pt: RW006 Categ: TC Smp Type: SP Compl Ind: N Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
Total Coliform	Absent	/100 mL	SM20 9223B(04)	8/20/20	16:50	W KMB	A	
E. coli	Absent	/100 mL	SM20 9223B(04)	8/20/20	16:50	W KMB	A	

Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

The column heading “Lab” denotes the laboratory facility where the testing was performed. "W" designates the Williston, VT lab under NELAC certification ELAP 11263; and ISO/IEC:2017 accredited "R" designates the Lebanon, NH facility under certification NH 2037. This analysis meets NELAC requirements except as noted. Test results are representative of the samples as they were received at the laboratory. Chlorine field results are provided by the client unless otherwise indicated.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

ELAP 11263
160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893
NH2037

WSID Template IPW SP

Endyne Inc. COC **2008-22749**

Prepared: 8/12/20

Sprague GeoScience
WSID 5070 Hinesburg TC SP

Cust #

IP

Bill to:
Accts Payable
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
Ph: (802) 434-5522

Report to:
Cindy Sprague
Sprague GeoScience
480 Salvas Road
Huntington VT 05462
cindyS@madriver.com

Facility ID: DS001 Smp Pt: TC001 Categ: TC Smp Type: SP Repl Ind: N Compl Ind: Y/N

Hinesburg Well 6 — Microbiological — Sampled Date/Time: 8/20/20 @ 1:00 pm

Total Colif. Package P/A	1 - 150ml Sterile Plastic	<10C, Na2S2O3 If Cl2

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y/N

Turbidity — Sampled Date/Time: ___/___/___@___

Turbidity	1 - 8oz Plastic	<6C

Facility ID: TP001 Smp Pt: EP001 Categ: GE Smp Type: SP Repl Ind: N Compl Ind: Y/N

Primary & Secondary Inorganic Contaminants — Sampled Date/Time: ___/___/___@___

Temperature		
Odor	1 - 16oz Amber Glass	<6C, pH 5-9
Color Package	1 - 8oz Amber Glass	<6C
pH	1 -4 oz Plastic	Refrigerate
Chloride Fluoride Nitrate as N Nitrite as N	1 -2 oz-Plastics Anion	<6C
Langelier's Corrosivity Solids, Total Dissolved	1 - 32oz Plastic	<6C
Alkalinity, as CaCO3	1 - 8 oz Plastics Alkalinity	<6C, No Headspace
Hardness, Total Uranium, Total Antimony, Total Arsenic, Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Iron, Total Lead, Total Manganese, Total Mercury, Total Nickel, Total Selenium, Total Sodium, Total Thallium, Total	1 - 16oz Plastic	HNO3 pH< 2

ENDYNE Inc.
Environmental Laboratories

Sprague GeoScience	
480 Salvas Road	100518
Huntington, VT 05462	
Atten: Cindy Sprague	

PROJECT: WSID 5070 Hinesburg PFAS
WORK ORDER: **2111-32577**
DATE RECEIVED: November 01, 2021
DATE REPORTED: November 15, 2021
SAMPLER: Cindy Sprague **VT0005070**
VTP

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corres ponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accredit ation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation fo r that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as t hey were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of mercha ntability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report DATE REPORTED: 11/15/2021

CLIENT: Sprague GeoScience
PROJECT: WSID 5070 Hinesburg PFAS

WORK ORDER: **2111-32577**
DATE RECEIVED: 11/01/2021

001 Site: Well 6 Well Head Date Sampled: 11/1/21 Time: 15:21

Facility ID: TP002 Smp Pt: EP002 Categ: GE Smp Type: RT Compl Ind: Y Repl Ind: N

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
PFAS Package							
Perfluorobutanesulfonic acid PFBS	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorohexanoic acid PFHxA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
HFPO-DA	< 4.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluoroheptanoic acid PFHpA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorohexanesulfonic acid PFHxS	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
ADONA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorooctanoic acid PFOA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorononanoic acid PFNA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorooctanesulfonic acid PFOS	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorodecanoic acid PFDA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
9Cl-PF3ONS	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
NMeFOSAA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluoroundecanoic acid PFUnA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
NEtFOSAA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorododecanoic acid PFDoA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
11Cl-PF3OUdS	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorotridecanoic acid PFTrDA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA
Perfluorotetradecanoic acid PFTA	< 2.0	ng/L	EPA 537.1	11/12/21	SUB	A	SBA

Report Summary of Qualifiers and Notes

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. Refer to the complete subcontracted report, which has been appended to this report, for detailed information regarding this result.

Endyne will submit this data electronically to the State of VT Water Supply Division in accordance with their policy and standards.

WSID 5070 Hinesburg PFAS

Endyne Inc. COC

Prepared: 9/9/21

2111-32577

2111-32577

Sprague GeoScience
WSID 5070 Hinesburg PFAS

Bill to:	Report to:
Accts Payable	Cindy Sprague
Sprague GeoScience	Sprague GeoScience
480 Salvas Road	480 Salvas Road
Huntington VT 05462	Huntington VT 05462
Ph: (802) 434-5522	cindyS@madriver.com

Cust # 100518

VT0005070

PFA0005070

Facility ID: WL002 Smp Pt: RW002 Categ: GE Smp Type: (RT) Repl Ind: N Compl Ind: Y / N

001 Well 6 wellhead Sampled Date/Time: 11/1/21 @ 3:21

PFAS WSID Package — 2 -250 ml Plastic — Tris HCl/Tris, < 6C

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Repl Ind: U Compl Ind: Y / N

Field Blank Sampled Date/Time: 11/1/21 @ 3:20P

PFAS WSID Package — 2 -250 ml Plastic — Tris HCl/Tris, < 6C

Facility ID: UNKNO Smp Pt: UNKNO Categ: UN Smp Type: UN Repl Ind: U Compl Ind: Y / N

Trip Blank per lab Sampled Date/Time: 11/1/21 @ 3:20P

PFAS WSID Package — 2 -250 ml Plastic — Tris HCl/Tris, < 6C

Sampler:: Cindy Sprague

Relinquished by: Cindy Sprague 11.1.21 / 4:30P Date Time Accepted by:

Relinquished by: Date Time Received by: 11-1-21 16:00 Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT [X] NH [ ] NY [ ] Other [ ]

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date _____

Lab use Only

Delv: Client Tmpl Ck

Temp C: 10.1 Log by

Comment:

ENDYNE Inc.
www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

APPENDIX E

SPA Delineation
&
2-Year Time of Travel Calculations

Source Protection Area

Town of Thresburg Wells 4+5

① Zone 1 = 125' radius around each well. Reduction is due to wide spread clay layer in the vicinity of the wells.

② Zone 2 is based on Dist vs Drawdown graph (Figure 1)

For Q = 240 gpm Time = 5 days. (End of Well 4 test)

AND Piezometric contour map for Well 4 on July 21, 2014 (end of Well 4 - 120-hour test) (Figure 2)

Figure 1 shows both all supply wells and all wells, except Thomas Lyman and Michael Fortin.

There was much more drawdown in the wells to the west (stronger hydraulic connection) and purpose of Dist vs SW graph is to determine likely drawdown in all directions, thus TL + MF well data were not used in the linear regression analysis

L.R. Equation: $y = -34.98 \ln(x) + 282.4$

or Drawdown (SW) = $-34.98(\text{dist}) + 282.4$

Solve for drawdown = 0

$$0 = -34.98 \ln(d) + 282.4$$

$$\ln(d) = \frac{-282.4}{-34.98}$$

$$\ln(d) = 8.07$$

$$d = 3,207.3 \text{ ft}$$

Use circular area with a diameter of 3207' as a starting point
Also use Figure 2 as a guide for SPA Zone 2 (piezometric contours)
- modify circle to take into consideration all factors. - (Reduce down gradient dist)
Zone 2 is approx 5350' x 4700'

③ Zone 3 = Areas upgradient of Zone 2 - Assume streams act as hydraulic boundaries

SPA is Presented as Figure 3 (both on a Topo base map as well as gray-canvas map for B+W printing)

Two Year Time of Travel Calculations.

① Clay overburden. $\text{Velocity} = \frac{k}{n} i$

For k: Use conservative hydraulic conductivity value for ≤1 ft/clay = 1×10^{-2} ft/day

i = gradient - use 1 (vertical flow) also conservative

n = use porosity of 0.5

$$V = \frac{0.01 \text{ ft/day}}{0.5} \times 1 = 0.02 \text{ ft/day} \times 730 \text{ days} = 14.6 \text{ feet}$$

if assume hydraulic conductivity for clay is 1×10^{-3} ft/day

then:

$$V = \frac{0.001 \text{ ft/day}}{0.5} \times 1 = 2 \times 10^{-3} \text{ ft/day}$$

$$0.002 \text{ ft/day} \times 730 \text{ days} = 1.46 \text{ feet}$$

Page 4

(see hydraulic conductivity chart from "Basic Ground-Water Hydrology" by Ralph C. Heath, USGS Water-Supply Paper 2220)

For hydraulic conductivity values for clay and carbonate rocks

2 year Time of Travel calculations - Bed Rock Aquifer

$K = T/b$

K = hydraulic conductivity

b = aquifer Thickness = ? try 50'

T = transmissivity (use interference T = 4,000 gpd/ft)

÷7.48 = 535 ft²/day

$K = \frac{535\ ft^2/day}{50'} = 10.7'/day$ (This is in the range - see chart pg 6-4)

$Velocity = \frac{k}{n} i$ i = use McCraw well #9 to determine gradient

well #9 GW Elev. END of 120 hour test = 349'

Hanson well 4 GW Elev END of 120 hr test = 151' (subtract ±100' for turbulence so 251'

$\frac{349 - 251}{2310}$ = Distance between wells

$\frac{98}{2310} = 0.042$

n = porosity = 0.2 (estimate)

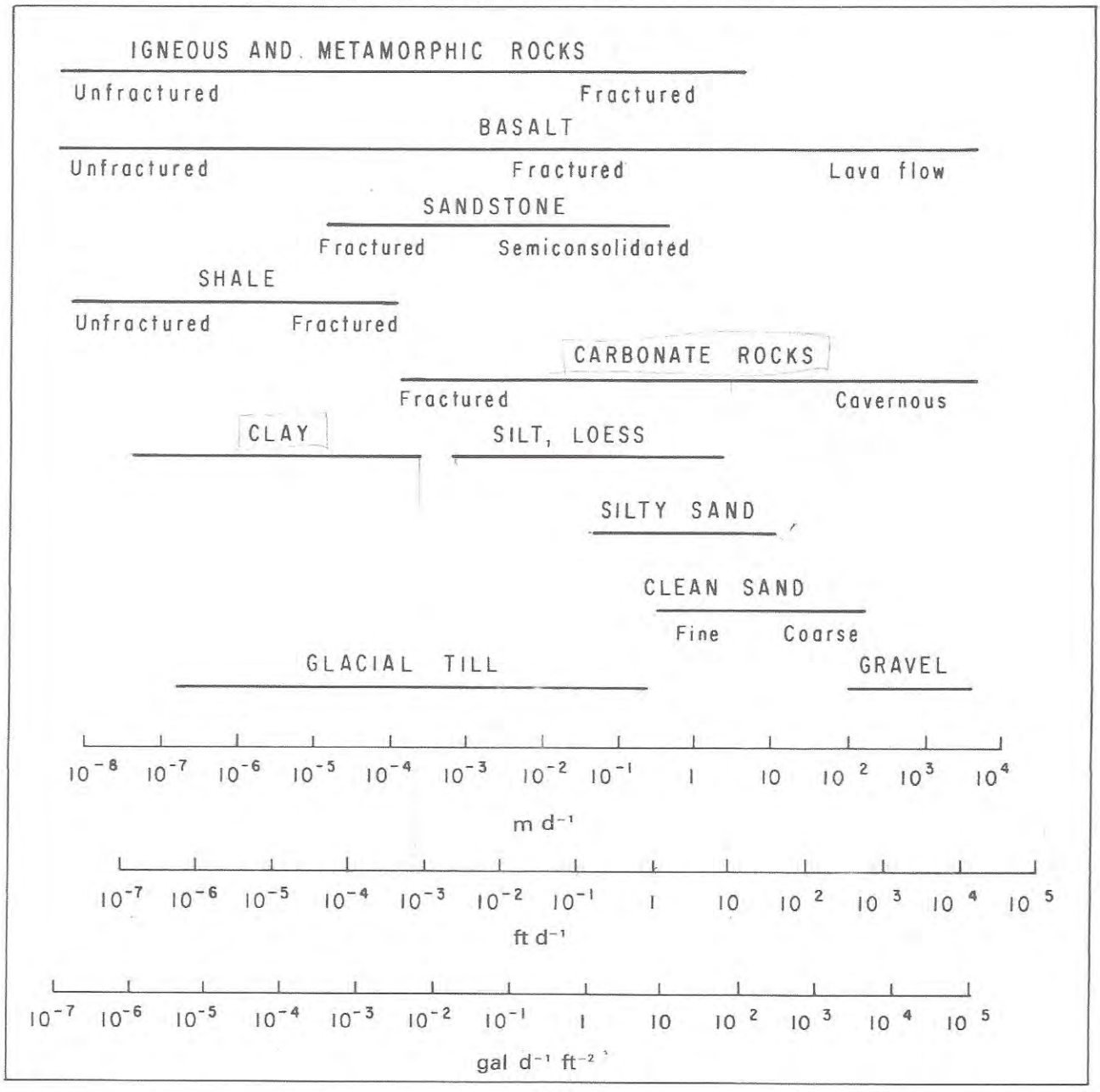
$Velocity = \frac{10.7'/day}{0.2} \times 0.042 = 2.25'/day$

Distance = 2.25' x 730 days = 1640 feet

NOTE:

This is a rough estimate only and actual 2 year time of travel distances will vary.

Hydraulic conductivity value for carbonate rocks vary 7 orders of magnitude, and may be different from place to place in the same rock.



(2)

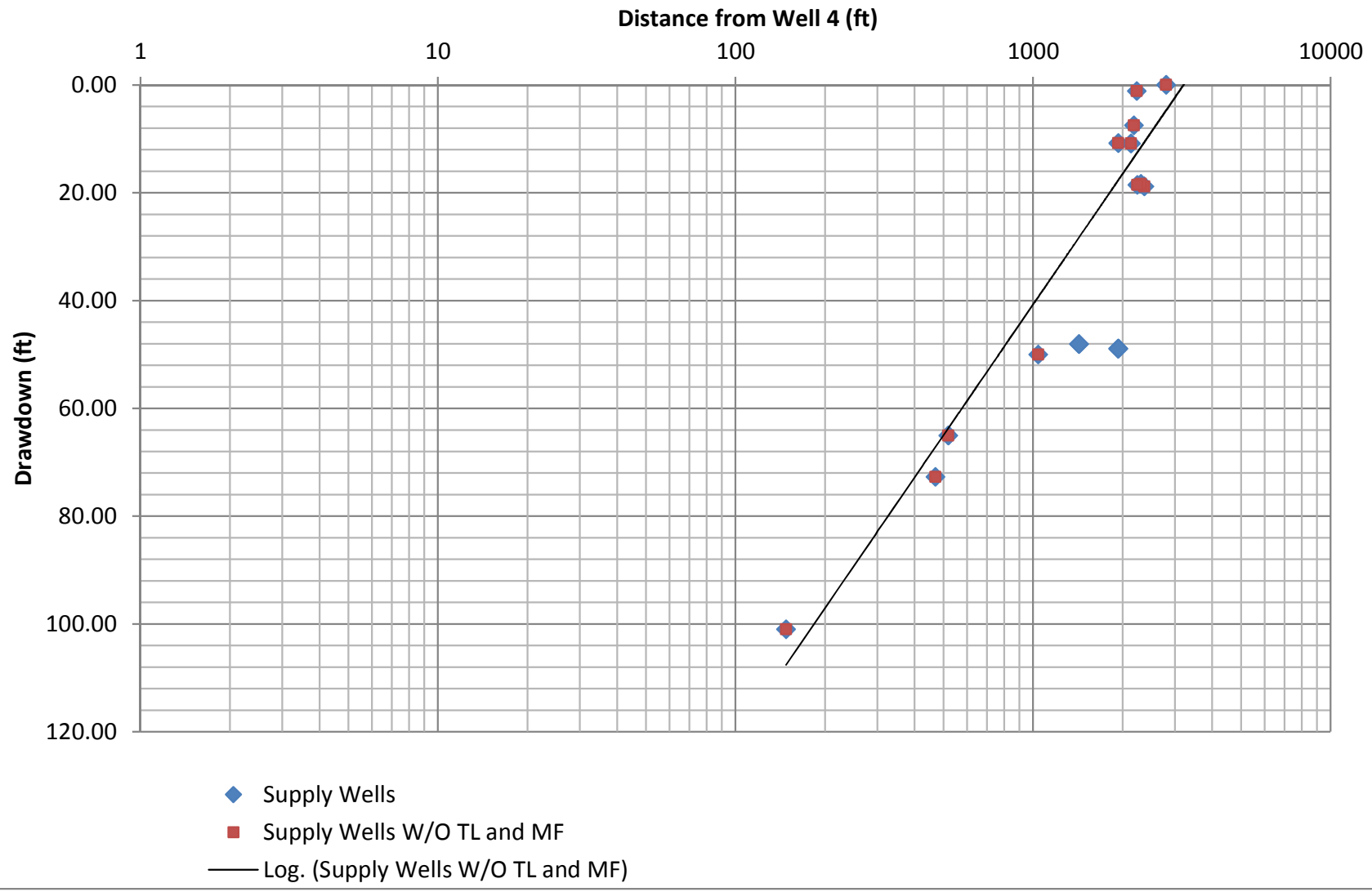
that area is said to be *homogeneous*. If, on the other hand, the hydraulic conductivity differs from one part of the area to another, the aquifer is said to be *heterogeneous*.

Hydraulic conductivity may also be different in different directions at any place in an aquifer. If the hydraulic conductivity is essentially the same in all directions, the aquifer is said to be *isotropic*. If it is different in different directions, the aquifer is said to be *anisotropic*.

Although it is convenient in many mathematical analyses of ground-water flow to assume that aquifers are both homogeneous and isotropic, such aquifers are rare, if they exist at all. The condition most commonly encountered is for hydraulic conductivity in most rocks and especially in unconsolidated deposits and in flat-lying consolidated sedimentary rocks to be larger in the horizontal direction than it is in the vertical direction.

From "Basic Ground-Water Hydrology, USGS Water-Supply Paper 2220, by Ralph C. Heath

Figure 1
Distance vs Drawdown (For SPA Delineation)
Hinesburg Well 4, 120-Hour Test
(Q=240 gpm, T = 5 days)



Source Protection Area

Town of Hinesburg Well 6

① Zone 1 = 125' radius circle around the well, Reduction is due to widespread clay layer in the vicinity of the well.

② Zone 2 is based on piezometric contour map for Well 6 on August 21, 2020 at the end of the Well 6 120-hour test. (See Figure 5 & F-1)
This is around 2,900 to the east, 3,000' to the southeast, 1925' to the south, and 3,600' to the northeast

For the downgradient extent of Zone 2, use the Uniform Flow Equation

Distance to downgradient null point

$$X_L = \frac{Q}{2\pi T i}$$

Where: $Q = 90\ gpm\ (ADD) \times \frac{1\ ft^3}{7.48\ gal} \times \frac{1440\ min}{day}$

$= 17,326\ ft^3/day$

i = gradient — average of (Giroux ⇒ Hinesburg Well 6; Knight Farm ⇒ Hinesburg Well 6 (start of 120-hr test))

i (Giroux) $= \frac{331.0 - 316.0}{1959} = 0.0077$

i (Knight Fm) $= \frac{335.1 - 316.0}{2627} = 0.0073$

Well	Start 120-hr $\bar{\nabla}$ elev (ft)	Dist to Well 6
Giroux	331.0	1959
Knight Fm	335.1	2627
Well 6	316.0	1

i = use average of 0.0075

$T = 1533\ gpd/ft$ (Well 6 120-hr test) $= 204\ ft^2/day$

$$X_L = \frac{Q}{2\pi T i} = \frac{17,326\ ft^3/day}{2\pi (204\ ft^2/day)(7.5 \times 10^{-3})} = \frac{17,326}{9.61} = 1,802\ ft$$

③ Zone 3 = topographically upgradient areas

Two Year Time of Travel Calculations.

① Clay overburden

$$\text{Velocity} = \frac{k}{n} i$$

For k: use conservative hydraulic conductivity value for silt/clay = 1×10^{-2} ft/day

i = gradient - use 1 (vertical flow) also conservative

n = use porosity of 0.5

$$V = \frac{0.01 \text{ ft/day}}{0.5} \times 1 = 0.02 \text{ ft/day} \times 730 \text{ days} = 14.6 \text{ feet}$$

if assume hydraulic conductivity for clay is 1×10^{-3} ft/day

then:

$$V = \frac{0.001 \text{ ft/day}}{0.5} \times 1 = 2 \times 10^{-3} \text{ ft/day}$$

$$0.002 \text{ ft/day} \times 730 \text{ days} = 1.46 \text{ feet}$$

Page G-4

(see hydraulic conductivity chart from "Basic Ground-Water Hydrology" by Ralph C. Heath, USGS Water-Supply Paper 2220)

For hydraulic conductivity values for clay and carbonate rocks

2 Year Time of Travel Calculations - (continued)

② Bedrock Aquifer

$K \cdot T/b$

K = hydraulic conductivity

b = aquifer Thickness - unknown, but try 50'

T = Transmissivity (use interference T for NRG-1)

= 2409 gpd/ft = 322 ft^2/day

$$K = \frac{322\ ft^2/day}{50\ ft} = 6.44\ '/day$$

$$Velocity = \frac{k}{n} i$$

n = porosity - say 0.2 (est)

i = gradient - use NRG-1 + well 6 (w/o Turbulent head loss)

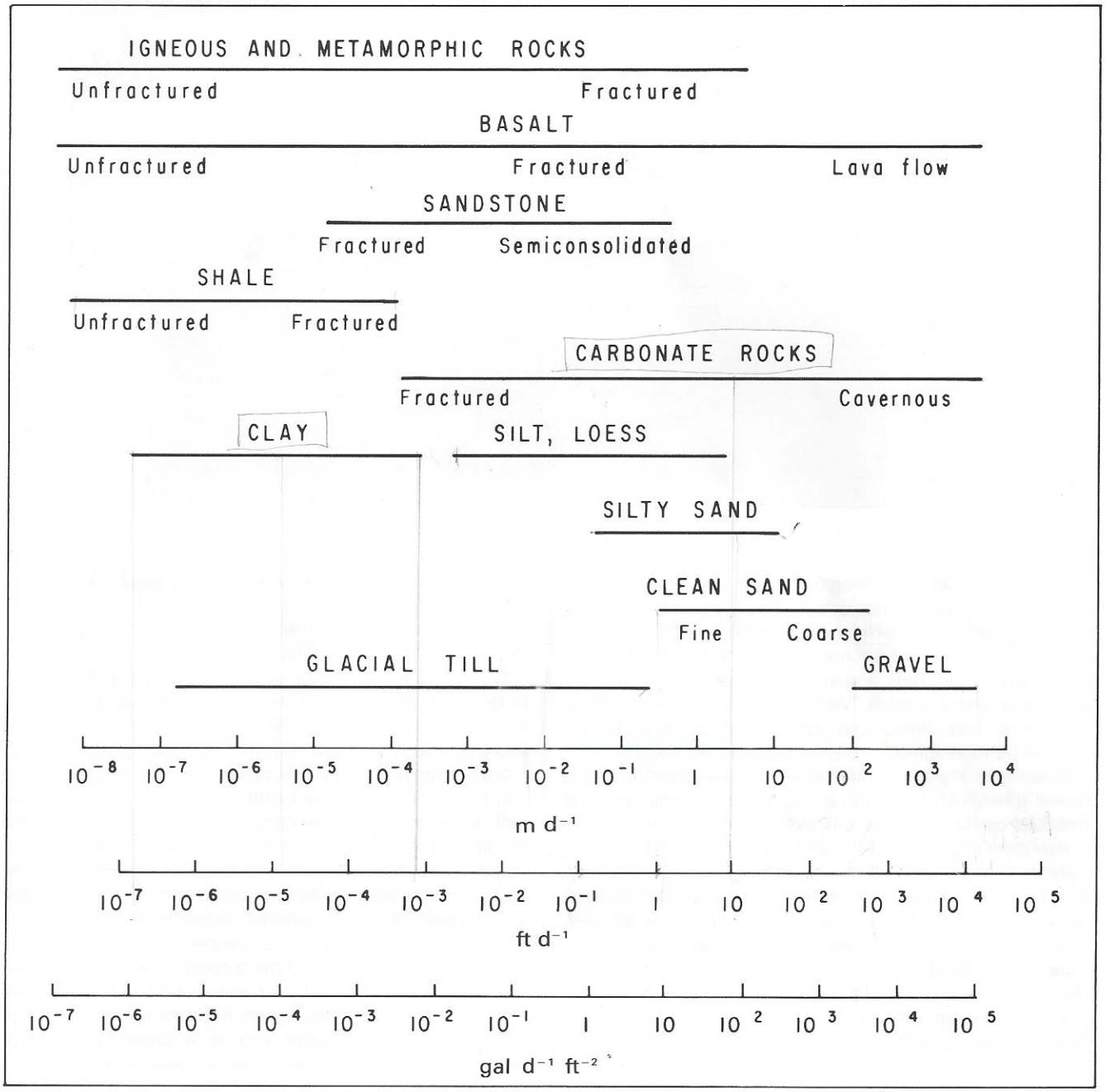
Well #	Elev (end of test)	Turbulent head loss	Elev w/o Turbulent head loss
NRG-1	282.6	0	282.6
Well 6	137.4	71' (step test)	208.4

$$i = \frac{282.6 - 208.4}{1771\ (\text{Dist NRG1 to well 6})} = \frac{74.20}{1771} = 0.042$$

$$Velocity = \frac{6.44\ '/day}{0.2} \times 0.042 = 1.35\ '/day$$

$$Dist = 1.35\ '/day \times 730\ days = 986'\ (2Y\ TOT\ Bedrock)$$

Hydraulic Conductivity of Selected Rocks



(2)

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Although it is convenient in many mathematical analyses of ground-water flow to assume that aquifers are both homogeneous and isotropic, such aquifers are rare, if they exist at all. The condition most commonly encountered is for hydraulic conductivity in most rocks and especially in unconsolidated deposits and in flat-lying consolidated sedimentary rocks to be larger in the horizontal direction than it is in the vertical direction.

From "Basic Ground-Water Hydrology, USGS Water-Supply Paper 2220, by Ralph C. Heath

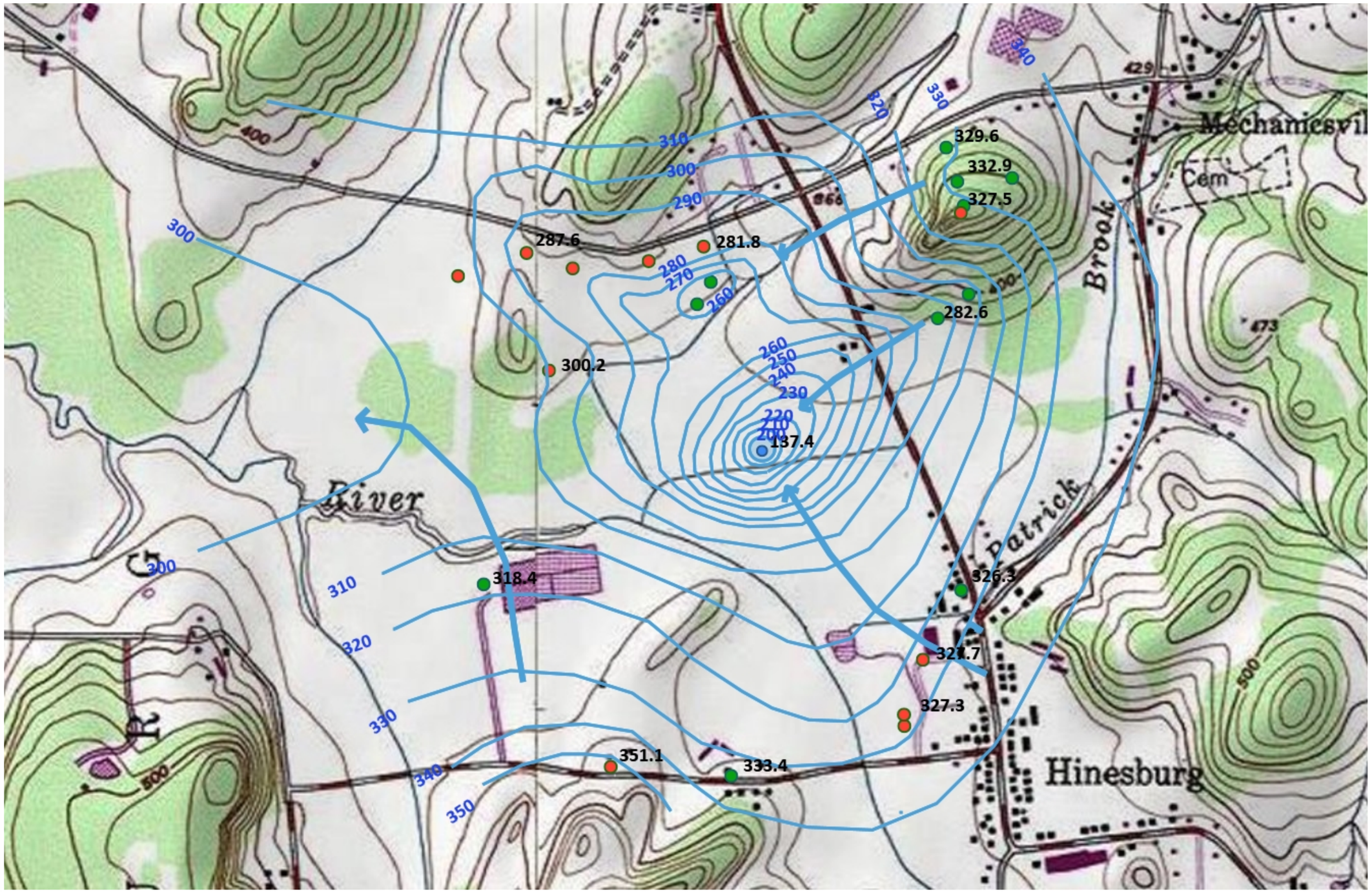
VERMONT

Piezometric Contour Map 8 21 2020

Vermont Agency of Natural Resources

Figure F-1

vermont.gov



LEGEND

Piezometric Contour

Flow Direction

1: 10,000

1in = 833 ft.

1cm = 100 meters

1,667.0 0 834.00 1,667.0 Feet

WGS_1984_Web_Mercator_Auxiliary_Sphere

NOTES

Bedrock piezometric head elevations at the end of Well 6 120-hour test

APPENDIX F

List of Property Owners Within SPAs

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
ALVAREZ JASON		218 PLACE ROAD WEST	HINESBURG	VT	05461	218 PLACE ROAD WEST	294-093-10021
BUTTERFIELD ANDREW		586 POND ROAD	HINESBURG	VT	05461	586 POND ROAD	294-093-10048
AUBE STEPHEN H & THERESA M		419 RICHMOND ROAD	HINESBURG	VT	05461	419 RICHMOND ROAD	294-093-10050
AYER DARLA	PELKEY VICKI	PO BOX 401	HINESBURG	VT	05461	243 PLACE ROAD WEST	294-093-10052
BABBOTT FRANK	LANDIS EDWIN C	88 ROCKY MOUNTAIN LANE	HINESBURG	VT	05461	POND ROAD	294-093-10056
BAKER MAURICE & MICHELLE		355 DYNAMITE HILL ROAD	HINESBURG	VT	05461	355 DYNAMITE HILL ROAD	294-093-10063
BAKKER WENDY		765 MECHANICSVILLE ROAD	HINESBURG	VT	05461	765 MECHANICSVILLE ROAD	294-093-10064
BALLARD TIMOTHY & KAY TRUSTEES	BALLARD TIMOTHY & KAY FAMILY TRUST	9260 ROUTE 116	HINESBURG	VT	05461	9260 ROUTE 116	294-093-10071
GLOBAL MONTELLO GROUP CORP		800 SOUTH STREET, SUITE 500	WALTHAM	MA	02453	17 BALLARDS CORNER ROAD	294-093-10072
BARRON MITCHELL J	ABELL SUSAN E	400 RICHMOND ROAD	HINESBURG	VT	05461	400 RICHMOND ROAD	294-093-10084
HOWARD JAMES W III TRUSTEE	NETO LAURA TRUSTEE	175 PARTRIDGE HILL	HINESBURG	VT	05461	175 PARTRIDGE HILL	294-093-10087
BROUSSARD ALEXANDER D & ANNE D		48 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	48 ORCHARD COMMONS ROAD	294-093-10093
KILEY JAMES & ABBI		8 MILL ROAD	HINESBURG	VT	05461	8 MILL ROAD	294-093-10094
VANCURA COREY J	VANCORA MORIAH C	330 RICHMOND ROAD	HINESBURG	VT	05461	330 RICHMOND ROAD	294-093-10101
DUCHARME LEONARD & VALERIE		416 CVU ROAD	HINESBURG	VT	05461	416 C.V.U. ROAD	294-093-10102
PERKINS ANDREW K & BRYN W		208 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	208 ORCHARD COMMONS ROAD	294-093-10106
MARGETIC GLENN & MISTI		22 AUBE RIDGE ROAD	HINESBURG	VT	05461	22 AUBE RIDGE ROAD	294-093-10108
BERTRAND RANDALL J & ROBIN J		203 SHELBURNE FALLS ROAD	HINESBURG	VT	-5461	203 SHELBURNE FALLS ROAD	294-093-10130
BIRD JACK R	BIRD SHERRI L	8713 ROUTE 116	HINESBURG	VT	05461	8713 ROUTE 116	294-093-10136
BIRD PETER L		8759 ROUTE 116	HINESBURG	VT	05461	8759 ROUTE 116	294-093-10137
HAYSTACK CROSSING LLC		12721 ROUTE 116	HINESBURG	VT	05461	ROUTE 116	294-093-10152
FORAUER BARBARA J & ROBERT R		197 AUBE RIDGE ROAD	HINESBURG	VT	05461	197 AUBE RIDGE ROAD	294-093-10156
OAKLEY JAMES	PACKER ASHLEY	240 WINDSWEPT WAY	HINESBURG	VT	05461	240 WINDSWEPT WAY	294-093-10160
MOTSCHMAN MARTHA LYNN		128 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	128 ORCHARD COMMONS ROAD	294-093-10164
BOMBERGER ELIZABETH U		157 PLACE ROAD EAST	HINESBURG	VT	05461	157 PLACE ROAD EAST	294-093-10170
BOUCHARD DAVID JOSEPH	BOUCHARD HEIDI JEAN	181 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	181 ORCHARD COMMONS ROAD	294-093-10180
SPRANO EDWARD		8 PLACE ROAD EAST	HINESBURG	VT	05461	8 PLACE ROAD EAST	294-093-10194
BRACE LEROY	GIROUX MARY JO	55 MAPLE TREE LANE	HINESBURG	VT	05461	55 MAPLE TREE LANE	294-093-10196
BRAWLEY THOMAS J TRUSTEE	THOMAS JOSEPH BRAWLEY LIVING TRUST	379 AUBE RIDGE ROAD	HINESBURG	VT	05461	379 AUBE RIDGE ROAD	294-093-10201
BURNETT REAL PROPERTY LLC		8855 ROUTE 116	HINESBURG	VT	05461	ROUTE 116 E/S	294-093-10230
BURNETT MARK	BURNETT JAMES	8855 ROUTE 116	HINESBURG	VT	05461	8855 ROUTE 116	294-093-10231
CURTIS BRIAN & JUDY		374 RICHMOND ROAD	HINESBURG	VT	05461	374 RICHMOND ROAD	294-093-10234
SEELEY PHILIP J	VACCARELLI SUSAN	175 RICHMOND ROAD	HINESBURG	VT	05461	175 RICHMOND ROAD	294-093-10240
HINESBURG COMMUNITY RESOURCE CENT		51 BALLARDS CORNER ROAD	HINESBURG	VT	05461	51 BALLARDS CORNER ROAD	294-093-10242
CARSE CARPENTER LIBRARY		69 BALLARD'S CORNER RD	HINESBURG	VT	05461	69 BALLARDS CORNER ROAD	294-093-10259

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
CASTONGUAY KENNETH P	CASTONGUAY KEITH M	1137 POND ROAD	HINESBURG	VT	05461	75 CRAIGY LANE	294-093-10276
CHATOFF WILLIAM & KIMBERLEY		89 ROCKY MOUNTAIN LANE	HINESBURG	VT	05461	89 ROCKY MOUNTAIN LANE	294-093-10295
GLADE GREGORY	GALGON BARBARA	182 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	182 ORCHARD COMMONS ROAD	294-093-10300
CHURCHILL MADINE & RODNEY	BUSHEY MICHELE	2468 SILVER STREET	HINESBURG	VT	05461	827 MECHANICSVILLE ROAD	294-093-10301
BALLARD MARY JANE		8910 ROUTE 116	HINESBURG	VT	05461	8910 ROUTE 116	294-093-10311
MCGEE MICHELLE	LANUEL IDO J	33 ROCKY MOUNTAIN LANE	HINESBURG	VT	05461	33 ROCKY MOUNTAIN LANE	294-093-10326
COMMUNITY ALLIANCE CHURCH		190 POND ROAD	HINESBURG	VT	-5461	190 POND ROAD	294-093-10327
CONLEY NICOLE		119 PLEASANT VIEW LANE	HINESBURG	VT	05461	119 PLEASANT VIEW LANE	294-093-10331
JIPNER VAUGHN		298 RICHMOND RD #2	HINESBURG	VT	05461	298 RICHMOND ROAD	294-093-10334
COOK DANIEL & REBECCA		254 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	254 ORCHARD COMMONS ROAD	294-093-10336
KING JOHN T & MARY CAROL		222 BILLINGS FARM ROAD	HINESBURG	VT	05461	222 BILLINGS FARM ROAD	294-093-10337
COUTURE JEFFREY D & VIRGINIA P		562 RICHMOND ROAD	HINESBURG	VT	05461	562 RICHMOND ROAD	294-093-10348
CRAWFORD SAMUEL A & JOANNE R F		225 WINDSWEPT WAY	HINESBURG	VT	05461	225 WINDSWEPT WAY	294-093-10355
CURTIS PATRICIA		674 POND ROAD	HINESBURG	VT	05461	674 POND ROAD	294-093-10369
CVUHS DISTRICT			HINESBURG	VT	-5461	369 C.V.U. ROAD	294-093-10371
PARKER BRADFORD		464 POND BROOK ROAD	HINESBURG	VT	05461	318 C.V.U. ROAD	294-093-10374
DAGGETT ROGER & LISA		449 DYNAMITE HILL ROAD	HINESBURG	VT	05461	449 DYNAMITE HILL ROAD	294-093-10375
DATTILIO DANA & KIMBERLY		8760 ROUTE 116	HINESBURG	VT	05461	8760 ROUTE 116	294-093-10380
FRANCIS MICHAEL & ANDREA		PO BOX 355	HINESBURG	VT	05461	448 DYNAMITE HILL ROAD	294-093-10390
HENNESSEY MICHAEL & LORI		288 POND ROAD	HINESBURG	VT	05461	288 POND ROAD	294-093-10409
RILEY JESSICA C	LANDEY DAVID	9701 VT ROUTE 116	HINESBURG	VT	05461	9701 ROUTE 116	294-093-10431
BISSONETTE DAVID L		1081 POND ROAD	HINESBURG	VT	05461	1081 POND ROAD	294-093-10439
COMMO PETER J	BURKE MARY ANN	206 AUBE RIDGE RD	HINESBURG	VT	05461	206 AUBE RIDGE ROAD	294-093-10459
KNIGHT JEFFREY		17439 1ST STREET E	ST PETERSBUR(	FL	33708	570 CHARLOTTE ROAD	294-093-10473
QUENNEVILLE CARLTON	MULLIN KAREN	125 BITTER SWEET HILL	HINESBURG	VT	05461	125 BITTER SWEET HILL	294-093-10480
FARMER DAVID G & KIMBERLY		975 POND ROAD	HINESBURG	VT	05461	975 POND ROAD	294-093-10504
FENWICK GARY		1008 HAYDEN HILL ROAD WEST	HINESBURG	VT	05461	249 RICHMOND ROAD	294-093-10511
RAYMOND EMILY S	RAYMOND SCOTT	84 RICHMOND ROAD	HINESBURG	VT	05461	84 RICHMOND ROAD	294-093-10521
FORTIN ALLEN & ANNE M		300 C.V.U. ROAD	HINESBURG	VT	05461	300 C.V.U. ROAD	294-093-10540
FORTIN MICHAEL A	FORTIN ELIZABETH A	555 SHELBURNE FALLS ROAD	HINESBURG	VT	05461	555 SHELBURNE FALLS ROAD	294-093-10542
IANDOLI ROBERT D	IANDOLI TRACY M	225 RICHMOND ROAD	HINESBURG	VT	05461	225 RICHMOND ROAD	294-093-10547
HAGMAN JOHN R		781 MECHANICSVILLE ROAD	HINESBURG	VT	05461	781 MECHANICSVILLE ROAD	294-093-10560
SCOTT WILLIAM	EDELSTEIN BETTINA O	156 PLACE ROAD WEST	HINESBURG	VT	05461	156 PLACE ROAD WEST	294-093-10579
GATELY JOSEPH & ALICE		175 WINDSWEPT WAY	HINESBURG	VT	05461	175 WINDSWEPT WAY	294-093-10581
WEISS LIRON	MORRILL DEVIN	470 PLACE ROAD WEST	HINESBURG	VT	05461	470 PLACE ROAD WEST	294-093-10583

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
SPIES RUSSELL	OSGOOD JANICE	766 MECHANICSVILLE ROAD	HINESBURG	VT	05461	766 MECHANICSVILLE ROAD	294-093-10602
LITTLEFIELD SABEN & KATHERINE	HOUSTON CINDY LEE	429 RICHMOND RD	HINESBURG	VT	05461	429 RICHMOND ROAD	294-093-10608
GIROUX STEVEN	GIROUX KATHY	238 PLACE ROAD WEST	HINESBURG	VT	05461	238 PLACE ROAD WEST	294-093-10617
GIROUX THOMAS HENRY	GIROUX JUNE	354 RICHMOND ROAD	HINESBURG	VT	05461	354 RICHMOND ROAD	294-093-10618
GIROUX RAMONA M TRUSTEE	RAMONA M GIROUX FAMILY TRUST	9318 ROUTE 116	HINESBURG	VT	05461	9318 ROUTE 116	294-093-10620
GLADSTONE STEPHEN Z	GLADSTONE DEIRDRE K	171 PLACE ROAD EAST	HINESBURG	VT	05461	171 PLACE ROAD EAST	294-093-10631
FROST ANDREW & AIMEE		129 RICHMOND ROAD	HINESBURG	VT	05461	129 RICHMOND ROAD	294-093-10639
GOVER SCOTT E		168 PLACE ROAD WEST	HINESBURG	VT	05461	168 PLACE ROAD WEST	294-093-10653
NAILS ALJARAY JR	D'AIELLO JENIFER C	237 RICHMOND ROAD	HINESBURG	VT	05461	237 RICHMOND ROAD	294-093-10658
LEWIS BRIAN R	FUOCO DANIELLLE	8720 ROUTE 116	HINESBURG	VT	05461	8720 ROUTE 116	294-093-10660
HABITZ PETER A & MARY ELLEN		315 AUBE RIDGE ROAD	HINESBURG	VT	05461	315 AUBE RIDGE ROAD	294-093-10678
DEDERER JULIE A		297 BILLINGS FARM ROAD	HINESBURG	VT	05461	297 BILLINGS FARM ROAD	294-093-10701
CRAFT CYNDY M		173 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	173 ORCHARD COMMONS ROAD	294-093-10724
HEDGES ROBERT & ROSEANNE		270 AUBE RIDGE ROAD	HINESBURG	VT	05461	270 AUBE RIDGE ROAD	294-093-10726
HEININGER JUSTIN P	PATERSON MARY K N	9271 ROUTE 116	HINESBURG	VT	05461	9271 ROUTE 116	294-093-10727
WHITE ALEXANDER D		384 CVU ROAD	HINESBURG	VT	05461	384 C.V.U. ROAD	294-093-10736
CACCIATORE LORI		178 RICHMOND ROAD	HINESBURG	VT	05461	178 RICHMOND ROAD	294-093-10784
BABBOTT FRANK		88 ROCKY MOUNTAIN LANE	HINESBURG	VT	05461	POND ROAD E/S	294-093-10794
GOLDSMITH/GRANAT REV TRUST	% GRANAT MARIAM	447 AUBE RIDGE ROAD	HINESBURG	VT	05461	447 AUBE RIDGE ROAD	294-093-10795
IADANZA JOSEPH A & ANN MARIE REV TRUS		160 BILLINGS FARM ROAD	HINESBURG	VT	05461	160 BILLINGS FARM ROAD	294-093-10797
IROQUOIS MANUFACTURING CO		695 RICHMOND ROAD	HINESBURG	VT	05461	641 RICHMOND ROAD	294-093-10804
IROQUOIS MFG CO INC		695 RICHMOND ROAD	HINESBURG	VT	05461	596 RICHMOND ROAD	294-093-10805
JOLLEY ASSOCIATES		PO BOX 671	ST ALBANS	VT	05478	21 COMMERCE STREET	294-093-10827
HORTON AUDREY L REV TRUST		108 PLACE ROAD EAST UNIT B	HINESBURG	VT	05461	108 PLACE ROAD EAST	294-093-10829
MCCOY M SUZANNE		244 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	244 ORCHARD COMMONS ROAD	294-093-10832
169 BILLINGS FARM ROAD LLC	C/O BURNETT'S SCRAP METAL	8855 ROUTE 116	HINESBURG	VT	05461	169 BILLINGS FARM ROAD	294-093-10834
GUTIERREZ KATHRYN & STEPHEN		305 BILLINGS FARM ROAD	HINESBURG	VT	05461	305 BILLINGS FARM ROAD	294-093-10835
KELLY DEBORAH L		862 POND ROAD	HINESBURG	VT	05461	862 POND ROAD	294-093-10845
KENDALL CONSTANCE R	TAUB DONALD R	483 MT PRITCHARD LANE	ST GEORGE	VT	05495	POND ROAD	294-093-10847
KETCHAM LARNED M JR & ROSETTA		PO BOX 252	HINESBURG	VT	05461	1196 SHELBURNE FALLS ROAD B/S	294-093-10855
KEYES ALLEN R	SCHLOSSBERG JANE E	132 ENMANS RD	ST. GEORGE	VT	05495	VT 116 E/S	294-093-10856
KNUDSON STEVEN	WOLTER JOANN D	40 POND BROOK ROAD	HINESBURG	VT	05461	40 POND BROOK ROAD	294-093-10883
BURTT R ANDREW		35 WHITETAIL RIDGE	HINESBURG	VT	05461	35 WHITETAIL RIDGE	294-093-10884
KRAMER HILLARY A	MELNICK DAVID I	282 WINDSWEPT WAY	HINESBURG	VT	05461	282 WINDSWEPT WAY	294-093-10894
HUNT COLIN		195 PLACE ROAD WEST	HINESBURG	VT	05461	195 PLACE ROAD WEST	294-093-10899

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
LACAILLADE LYNN & LEIGH		259 SUGAR HOUSE LANE	HINESBURG	VT	05461	259 SUGAR HOUSE LANE	294-093-10904
BEDARD SETH B	PETRIE EVAN B	372 C.V.U. ROAD	HINESBURG	VT	05461	372 C.V.U. ROAD	294-093-10928
LAROSE KATHY R		506 CVU ROAD	HINESBURG	VT	05461	506 C.V.U. ROAD	294-093-10935
LAVALETTE BERNARD LE	C/O KERRI WOLYNEC	6 SOUTHDOWN CT	ESSEX JCT	VT	05452	8812 ROUTE 116	294-093-10943
MUROSKI KENNETH J & MARY L		587 SHERMAN HOLLOW ROAD	HINESBURG	VT	05461	849 MECHANICSVILLE ROAD	294-093-10945
TUCKER DAVID & BEVERLY		333 RICHMOND RD	HINESBURG	VT	05461	333 RICHMOND ROAD	294-093-10950
LEE SHANON R & KAREN F		9147 ROUTE 116	HINESBURG	VT	05461	9147 ROUTE 116	294-093-10968
GOETZ REBECCA		735 RICHMOND ROAD	HINESBURG	VT	05461	735 RICHMOND ROAD	294-093-10974
KINVILLE PATRICK	BOLLER KATHERINE	462 RICHMOND ROAD	HINESBURG	VT	05461	462 RICHMOND ROAD	294-093-10975
LEWIS RICHARD K & MARY J		8832 ROUTE 116	HINESBURG	VT	05461	8832 ROUTE 116	294-093-10981
LINDELOF LAWRENCE A & DEBRA A		40 MILL ROAD	HINESBURG	VT	05461	40 MILL ROAD	294-093-10988
BROWN BENJAMIN D	BROWN ABIGAIL R	343 PARTRIDGE HILL ROAD	HINESBURG	VT	05461	343 PARTRIDGE HILL	294-093-10989
WICK JOHN J	WICK MIRANDA P	38 HICKORY PLACE	HINESBURG	VT	05461	38 HICKORY PLACE	294-093-11006
LYMAN DAVID TRUSTEE	DAVID LYMAN REVOCABLE TRUST	368 RTEAD LANE W	ST ALBANS	VT	05478	357 SHELBURNE FALLS ROAD	294-093-11010
LYMAN THOMAS D & JANN		423 SHELBURNE FALLS ROAD	HINESBURG	VT	05461	423 SHELBURNE FALLS ROAD	294-093-11016
MORGAN DAVID A SNOOK & DAWN K G		50 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	50 ORCHARD COMMONS ROAD	294-093-11019
FOX RUSSELL & CAROL		244 PARTRIDGE HILL ROAD	HINESBURG	VT	05461	244 PARTRIDGE HILL	294-093-11035
NOIVA TREVON G	LONGFELLOW KATHARINE J	274 RICHMOND RD	HINESBURG	VT	05461	274 RICHMOND ROAD	294-093-11036
KRING EXPERIENCE		1177 POND ROAD	HINESBURG	VT	05461	1177 POND ROAD	294-093-11050
WHITE TIMOTHY A	WHITE SHARON E	10 BIRCHWOOD DR	HINESBURG	VT	05461	114 RICHMOND ROAD	294-093-11071
MATTHEWS GREGORY & VICTORIA		9113 ROUTE 116	HINESBURG	VT	05461	9113 ROUTE 116	294-093-11073
GERARDI MICHAEL S	GERARDI GEMMA K	87 CRAIGY LANE	HINESBURG	VT	05461	87 CRAIGY LANE	294-093-11090
BISSONETTE SHANE W	BACON KRISTINA R	100 NORTH ROAD	BURLINGTON	VT	05401	261 DYNAMITE HILL ROAD	294-093-11096
BURNETT INVESTMENT PROPERTIES LLC		8855 ROUTE 116	HINESBURG	VT	05461	28 BILLINGS FARM ROAD	294-093-11101
ST PETER HOLLIS A	ST PETER HEIDI L	118 LOMEADOW ROAD	HINESBURG	VT	-5461	118 LOMEADOW ROAD	294-093-11111
104 BALLARDS CORNER LLC		83 WHITETAIL RIDGE	HINESBURG	VT	05461	104 BALLARDS CORNER ROAD	294-093-11112
COMMUNITY BANK N.A.	ATTN: FACILITIES DEPT.	275 KENNEDY DRIVE	SOUTH BURLINC	VT	05403	26 BALLARDS CORNER ROAD	294-093-11115
KALIBEROV ANDREI		924 POND ROAD	HINESBURG	VT	05461	924 POND ROAD	294-093-11116
STEPHENS FAMILY DENTISTRY		PO BOX 592	HINESBURG	VT	05461	82 BALLARDS CORNER ROAD	294-093-11118
SMITH NANCI		343 AUBE RIDGE ROAD	HINESBURG	VT	05461	343 AUBE RIDGE ROAD	294-093-11120
MICHAELIDES IOANNIS		3 TWIN BROOK CT	SO BURLINGTON	VT	05403-592	BALLARDS CORNER ROAD	294-093-11122
MILLER GEOFFREY & BETH BUTTLES	REVOCABLE TRUST	2330 GUINEA RD	CHARLOTTE	VT	05495	70 PARTRIDGE HILL	294-093-11126
MILLER THOMAS R & ELLEN M		496 RICHMOND ROAD	HINESBURG	VT	05461	496 RICHMOND ROAD	294-093-11128
MOORE MELBERN & AUDREY		249 AUBE RIDGE ROAD	HINESBURG	VT	05461	249 AUBE RIDGE ROAD	294-093-11155
BORIE FAMILY TRUST		678 POND ROAD	HINESBURG	VT	05461	678 POND ROAD	294-093-11162

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
NEWTON DAVID M REV TRUST	NEWTON DAVID & KATHLEE TTUSTEES	165 SUGAR HOUSE LANE	HINESBURG	VT	05461	VT 116 E/S	294-093-11202
NEWTON DAVID M & KATHLEEN P		165 SUGAR HOUSE LANE	HINESBURG	VT	05461	165 SUGAR HOUSE LANE	294-093-11203
NOONAN ROBERT T	NOONAN MICHAEL S	1138 SHELBURNE FALLS ROAD	SHELBURNE	VT	05482	SHELBURNE FALLS ROAD	294-093-11214
WOODWORTH KATRINA K	WOODWORTH DANIEL	10 C.V.U. ROAD	HINESBURG	VT	05461	10 C.V.U. ROAD	294-093-11222
BABBOTT FRANK & AIMEE		88 ROCKY MOUNTAIN LANE	HINESBURG	VT	-5461	88 ROCKY MOUNTAIN LANE	294-093-11224
ORVIS STEVEN & TRUDIE		421 PLACE ROAD WEST	HINESBURG	VT	05461	421 PLACE ROAD WEST	294-093-11242
PARKE RENATE	RENATE B PARKE & A WAYNE SCHWAB TRUS	P.O. BOX 294	HINESBURG	VT	05461	99 POND ROAD	294-093-11271
PARKER KIMBERLEY S		61 PLEASANT VIEW LANE	HINESBURG	VT	05461	61 PLEASANT VIEW LANE	294-093-11274
PARKINSON WILLIAM L & ANNE M		P.O. BOX 40	HINESBURG	VT	05461	83 MAPLE TREE LANE	294-093-11276
PATRICK RUFUS & NANCY		505 RICHMOND ROAD	HINESBURG	VT	05461	505 RICHMOND ROAD	294-093-11280
PAYA DONALD & THERESA		13 PLACE ROAD WEST	HINESBURG	VT	05461	13 PLACE ROAD WEST	294-093-11287
THOMPSON MICAH	THOMPSON JENNIFER	1000 POND ROAD	HINESBURG	VT	05461	1000 POND ROAD	294-093-11299
PENOYAR JOHN	MACULAN JUDITH	1041 POND ROAD	HINESBURG	VT	05461	1041 POND ROAD	294-093-11301
ROBERTSON AARON C		889 MECHANICSVILLE ROAD	HINESBURG	VT	05461	889 MECHANICSVILLE ROAD	294-093-11313
DAILY K Y LIVING TRUST		1118 POND ROAD	HINESBURG	VT	05461	1118 POND ROAD	294-093-11318
PLACE DENNIS J & JODY A		190 PLACE ROAD WEST	HINESBURG	VT	05461	190 PLACE ROAD WEST	294-093-11333
PLACE GLENN & LAURIE		19 SUGAR HOUSE LANE	HINESBURG	VT	05461	19 SUGAR HOUSE LANE	294-093-11334
PLACE REVOCABLE LIVING TRUST	PLACE HILTON TRUSTEE	187 SUGAR HOUSE LANE	HINESBURG	VT	05461	187 SUGAR HOUSE LANE	294-093-11335
NEWTON KATHLEEN R REV TRUST	NEWTON DAVID & KATHLEEN TRUSTEES	165 SUGAR HOUSE LANE	HINESBURG	VT	05461	9303 ROUTE 116	294-093-11337
PLACE MARJORIE		9329 ROUTE 116	HINESBURG	VT	05461	9329 ROUTE 116	294-093-11338
PLACE MICHAEL & MARY		265 SUGAR HOUSE LANE	HINESBURG	VT	05461	265 SUGAR HOUSE LANE	294-093-11339
WHITE CHRISTOPHER J	WHITE DENISE W	57 PARTRIDGE HILL ROAD	HINESBURG	VT	05461	57 PARTRIDGE HILL	294-093-11345
ORLOW TAMARA S	ESCOTT AMY E	93 PLEASANT VIEW LANE	HINESBURG	VT	05461	93 PLEASANT VIEW LANE	294-093-11351
PSAROS MICHAEL & JOYCE		1116 POND ROAD	HINESBURG	VT	05461	1116 POND ROAD	294-093-11369
QUATT MARTIN & MARTHA L		42 RICHMOND ROAD	HINESBURG	VT	05461	42 RICHMOND ROAD	294-093-11375
DONOVAN JAMES	O'DONNELL PATRICIA	PO BOX 321	CHARLOTTE	VT	05445	613 MECHANICSVILLE ROAD	294-093-11377
PALMER JAMES		PO BOX 385	WILLISTON	VT	05495	389 RICHMOND ROAD	294-093-11392
RIGGS ANDREW S & GAIL W		PO BOX 445	HINESBURG	VT	05461	57 C.V.U. ROAD	294-093-11406
KB REAL ESTATE LLC		PO BOX 301	HINESBURG	VT	05461	10004 ROUTE 116	294-093-11407
MASHIA JUSTIN		56 CVU ROAD	HINESBURG	VT	05461	56 C.V.U. ROAD	294-093-11408
RIGGS TIMOTHY H & KATHLEEN A.		PO BOX 191	HINESBURG	VT	05461	119 C.V.U. ROAD	294-093-11409
MUMLEY KYLE	MUMLEY DARCIE	328 WINDSWEPT WAY	HINESBURG	VT	05461	328 WINDSWEPT WAY	294-093-11420
ROBINSON RUSSELL A	NEWELL DEBORAH J	266 MOUNTAIN BROOK ROAD	HINESBURG	VT	05461	266 MOUNTAIN BROOK ROAD	294-093-11428
POWERS JOHN	POWERS ALISON	125 PLACE ROAD EAST	HINESBURG	VT	05461	125 PLACE ROAD EAST	294-093-11430
WAAGS PROPERTIES LLC		PO BOX 988	DORSET	VT	05251	96 POND ROAD	294-093-11432

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
PHOENIX1 LLC		79 COMMERCE STREET	HINESBURG	VT	05461	79 COMMERCE STREET	294-093-11439
ROSENBLUM PETER & HELEN TRUSTEES	PETER ROSENBLUM REVOCABLE TRUST	PO BOX 107	HINESBURG	VT	05461	385 PARTRIDGE HILL	294-093-11442
RUSHFORD WAYNE N & ROBIN L		PO BOX 87	HINESBURG	VT	05461	9185 ROUTE 116	294-093-11454
NELLE JORDAN E		9432 ROUTE 116	HINESBURG	VT	05461	9432 ROUTE 116	294-093-11478
MISKAVAGE ANDREW S & KRISTIN		47 ORCHARD COMMONS ROAD	HINESBURG	VT	05461	47 ORCHARD COMMONS ROAD	294-093-11479
SCHULMAN BRUCE G & SUSAN B		538 RICHMOND ROAD	HINESBURG	VT	05461	538 RICHMOND ROAD	294-093-11486
SEATON ANDREW M & DEBORAH E		PO BOX 486	HINESBURG	VT	05461	197 ORCHARD COMMONS ROAD	294-093-11492
SHANGRAW LAURA	C/O THERESA L SHANGRAW	840 MECHANICSVILLE ROAD	HINESBURG	VT	05461	840 MECHANICSVILLE ROAD	294-093-11500
LALUMIERE SCOTT & MARY		426 PLACE ROAD WEST	HINESBURG	VT	05461	426 PLACE ROAD WEST	294-093-11504
SHEPARD REVOCABLE LIVING TRUST		1166 POND ROAD	HINESBURG	VT	05461	1166 POND ROAD	294-093-11506
SILVERMAN DANIEL	BOWMAN MARY BETH	140 AUBE RIDGE ROAD	HINESBURG	VT	05461	140 AUBE RIDGE ROAD	294-093-11517
SILVIA JAMES J	LEVY MELISSA	345 BILLINGS FARM ROAD	HINESBURG	VT	05461	345 BILLINGS FARM ROAD	294-093-11518
GODBOUT THOMAS E		915 EAST ROAD	COLCHESTER	VT	05446	POND ROAD E/S	294-093-11535
SWENOR EMILY		314 RICHMOND ROAD	HINESBURG	VT	05461	314 RICHMOND ROAD	294-093-11552
SPRANO NINA		30 PLACE ROAD EAST	HINESBURG	VT	05461	30 PLACE ROAD EAST	294-093-11568
ST CROIX NANCY		P.O. BOX 97	HINESBURG	VT	05461	420 RICHMOND ROAD	294-093-11569
DOUGLAS JAMES C & ALISON A		123 WINDSWEPT WAY	HINESBURG	VT	05461	123 WINDSWEPT WAY	294-093-11572
HEYMAN MARK	SCHMIDT KANDY	227 BILLINGS FARM ROAD	HINESBURG	VT	05461	227 BILLINGS FARM ROAD	294-093-11575
STIDSEN MICHELLE BAKER	STIDSEN GLENN RICHARD	332 PLACE ROAD WEST	HINESBURG	VT	05461	332 PLACE ROAD WEST	294-093-11589
STIREWALT WILLIAM S JR	WILLIAM S STIREWALT REVOCABLE TRUST	20565 WEST TERRACE LN	BUCKEYE	AZ	85396-773	182 C.V.U. ROAD	294-093-11590
GALIGA PHILIP R	JANDA ANN K	119 LOMEADOW ROAD	HINESBURG	VT	05461	119 LOMEADOW ROAD	294-093-11591
YARWOOD BRIAN C	STEIN WENDI	25 PLEASANT VIEW LANE	HINESBURG	VT	05461	25 PLEASANT VIEW LANE	294-093-11606
RILEY BRYAN	RILEY STACY	311 WINDSWEPT WAY	HINESBURG	VT	05461	311 WINDSWEPT WAY	294-093-11634
THIBAULT RICHARD J	THIBAULT MARY AMIDON	74 AUBE RIDGE ROAD	HINESBURG	VT	05461	74 AUBE RIDGE ROAD	294-093-11642
TUCKER DANIEL JAMES & TORRY J		56 POND ROAD	HINESBURG	VT	05461	56 POND ROAD	294-093-11699
BAILEY GARRETT P		9037 ROUTE 116	HINESBURG	VT	05461	9037 ROUTE 116	294-093-11700
UTTER STEVEN C & DEANNA L		346 C.V.U. ROAD	HINESBURG	VT	05461	346 C.V.U. ROAD	294-093-11708
CHEN QUIHANG	LI MEI	176 SHELBURNE FALLS ROAD	HINESBURG	VT	05461	176 SHELBURNE FALLS ROAD	294-093-11741
MCELWAIN QUINN		43 LATHAM COURT	BURLINGTON	VT	05401	149 SHELBURNE FALLS ROAD	294-093-11742
WEBSTER THERON	C/O CARRIE CARTER	687 PRAIRIE ROAD	DERBY LINE	VT	05830	1285 POND ROAD	294-093-11760
WEISHAAR MARCI L & JOHN		9170 ROUTE 116	HINESBURG	VT	05461	9170 ROUTE 116	294-093-11766
PAQUET JACQUELEEN E	DEUTL GRAHAM F	9 MAPLE TREE LANE	HINESBURG	VT	05461	9 MAPLE TREE LANE	294-093-11767
ASH KRISTIAN J	KAVANACH LISA M	331 WINDSWEPT WAY	HINESBURG	VT	05461	331 WINDSWEPT WAY	294-093-11779
WINTER JAMES & CAROLINE		PO BOX 25	HINESBURG	VT	05461	874 MECHANICSVILLE ROAD	294-093-11806
BLOMSTRANN JAN	PEACE OF MIND REVOCABLE TRUST	222 DEER POINT RD	CHARLOTTE	VT	05445	RIGGS ROAD	294-093-11851

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
WIND NRG PARTNERS		110 RIGGS RD	HINESBURG	VT	05461	110 RIGGS ROAD	294-093-11859
PLACE HILTON & ELAINE		187 SUGAR HOUSE LANE	HINESBURG	VT	05461	PLACE ROAD WEST	294-093-11863
STANILONIS FAMILY TRUST	STANILONIS PAUL & MARGARET TRUSTEES	747 KIMBALL DOCK ROAD	VERGENNES	VT	05491	POND ROAD	294-093-11869
FOURNIER GARY		400 POND ROAD	HINESBURG	VT	05461	308 POND ROAD	294-093-11890
DENIS MATTHEW		103 BITTER SWEET HILL	HINESBURG	VT	05461	103 BITTER SWEET HILL	294-093-11907
MCCRAW RICHARD		122 BITTER SWEET HILL	HINESBURG	VT	05461	122 BITTER SWEET HILL	294-093-11911
FISHER JOHN M		10 LOMEADOW ROAD	HINESBURG	VT	05461	10 LOMEADOW ROAD	294-093-11915
GARDNER RYAN READ & AUBREY LEIGH		10 BITTER SWEET HILL	HINESBURG	VT	05461	10 BITTER SWEET HILL	294-093-11945
LYMAN DAVID	LYMAN DAVID F REVOCABLE TRUST	368 READ LANE W	ST ALBANS	VT	05478	ROUTE 116	294-093-11973
OWEN DAVID N	OWEN KATE B	12 LOMEADOW ROAD	HINESBURG	VT	05461	12 LOMEADOW ROAD	294-093-11976
VERNET CODY		97 BITTER SWEET HILL	HINESBURG	VT	05461	97 BITTER SWEET HILL	294-093-11988
ST HILAIRE TONY E & RUCHEL D		83 WHITETAIL RIDGE	HINESBURG	VT	05461	83 WHITETAIL RIDGE	294-093-12027
HART HILL DESIGN LLC		2356 CHARLOTTE ROAD	HINESBURG	VT	05461	ROUTE 116	294-093-12118
BILLINGSLEY TYLER	BILLINGSLEY LAUREL	55 CVU ROAD	HINESBURG	VT	05461	55 C.V.U. ROAD	294-093-12125
THIBAULT ETHAN		76 AUBE RIDGE ROAD	HINESBURG	VT	05461	76 AUBE RIDGE ROAD	294-093-12191
COMMUNITY ALLIANCE CHURCH		PO BOX 582	HINESBURG	VT	05461	244 POND ROAD	294-093-12252
USHER FAMILY TRUST	USHER KARL & SAMANTHA TRUSTEES	88 CRAIGY LANE	HINESBURG	VT	05461	88 CRAIGY LANE	294-093-12264
HINESBURG CENTER LLC		32 SEYMOUR ST	WILLISTON	VT	05495	10212 ROUTE 116	294-093-12268
HINESBURG CENTER LLC		32 SEYMOUR ST	WILLISTON	VT	05495	10212 ROUTE 116	294-093-12276
UNIVERSITY OF VERMONT MEDICAL CENTE		111 COLCHESTER AVENUE	BURLINGTON	VT	05401	37 HAYSTACK CROSSING	294-093-12286
B CAIRNS PROPERTY LLC		PO BOX 2126	SO BURLINGTON	VT	05403	HAYSTACK CROSSING	294-093-12287
PLACE CHAD MICHAEL	MALLOW JESSICA LYNN	167 MOUNTAIN BROOK ROAD	HINESBURG	VT	05461	167 MOUNTAIN BROOK ROAD	294-093-12316
GIROUX MATTHEW	LITTLE JOHN	328 PLACE ROAD	HINESBURG	VT	05461	328 PLACE ROAD WEST	294-093-12318
PBG HINESBURG LLC		32 SEYMOUR STREET	WILLISTON	VT	05495	30 KAILEY'S WAY	294-093-12319
KELLY PATRICK S	KELLY KATHERINE M	81 MOUNTAIN BROOK ROAD	HINESBURG	VT	05461	81 MOUNTAIN BROOK ROAD	294-093-12323
CARON LAWRENCE	CARON CYNTHIA	PO BOX 473	WILLISTON	VT	05495	276 RICHMOND ROAD	294-093-12327
WHEELER BRUCE		779 EAST NHILL ROAD	WOLCOTT	VT	05680	WINDSWEPT WAY	294-093-12401

Created using a GIS overlay of 2020 Tax Parcel data that has been joined to 2020 Grand List data and the Well 6 SPA data.
Town Properties are not included
Duplicate enteries are landowners who own multiple parcels.
New property owners are highlighted in yellow

Owner1	Owner2	Address	City	State	Zip	e911 Address	SPAN	MAPID	PARCID
LACLAIR MICHAEL L		160 LYMAN MEADOW ROAD E1	HINESBURG	VT	05461	160E1 LYMAN MEADOW ROAD	294-093-10006		818.19
ALBRIGHT JOANNA J		189 LYMAN MEADOW ROAD N4	HINESBURG	VT	05461	189N4 LYMAN MEADOW ROAD	294-093-10011		818.59
PRICE LINDSAY D		133 LYMAN MEADOW ROAD I2	HINESBURG	VT	05461	133I2 LYMAN MEADOW ROAD	294-093-10015		818.38
ALLEN TAWNY		47 ORCHARD HILL UNIT B	HINESBURG	VT	05461	47 ORCHARD HILL UNIT B	294-093-10016		124.2
APPLIN TOMASI LLC		PO BOX 231	HINESBURG	VT	05461	10805 ROUTE 116	294-093-10035	000410	410
TRINGALE NICHOLAS		133 LYMAN MEADOW ROAD I1	HINESBURG	VT	05461	133I1 LYMAN MEADOW ROAD	294-093-10036		818.37
LAPIER CHREISTINE LOUISE		121 LYMAN MEADOWS UNIT H3	HINESBURG	VT	05461	121H3 LYMAN MEADOW ROAD	294-093-10058		818.35
BAIRD CENTER FOR CHILDREN	AND FAMILIES INC	1110 PINE STREET	BURLINGTON	VT	05401	58 HAWK LANE	294-093-10060	000641.31	641.31
BALL EARLE JR & LISA		6 BROOKVIEW CT	CLIFTON PARK	NY	12065-6911	203O2 LYMAN MEADOW ROAD	294-093-10069		818.61
RACICOT ROCKY	GAREN TRACY	175 LYMAN MEADOW L3	HINESBURG	VT	05461	175L3 LYMAN MEADOW ROAD	294-093-10074		818.5
BAPTIST SOCIETY OF HINESBURG	C/O YVONNE WHITAKER	PO BOX 39	HINESBURG	VT	05461	SILVER STREET	294-093-10076	001721	1721
BARNARD STEPHEN C & MAUREEN S		70 HAWK LANE	HINESBURG	VT	05461	70 HAWK LANE	294-093-10082	000364	364
10792 ROUTE 116 LLC		191 WINDROW LANE	HINESBURG	VT	05461	10792 ROUTE 116	294-093-10090	000803	803
BEAN DOUGLAS		109 LAVIGNE HILL ROAD	HINESBURG	VT	05461	109 LAVIGNE HILL ROAD	294-093-10097	000206	206
PURINTON HEATHER	MASON RICHARD	251 BEECHER HILL ROAD	HINESBURG	VT	05461	251 BEECHER HILL ROAD	294-093-10098	001234	1234
CAMPBELL DARYL J	JOHNSON JANEL L	2814 B NW 56TH STREET	SEATTLE	WA	98107	160E5 LYMAN MEADOW ROAD	294-093-10099		818.23
CARLSON JANET		P.O. BOX 861	WILLISTON	VT	05495	203O1 LYMAN MEADOW ROAD	294-093-10100		818.6
BEAULAC JUDITH L		160 LYMAN MEADOW ROAD E3	HINESBURG	VT	05461	160E3 LYMAN MEADOW ROAD	294-093-10104		818.21
MATHEWS PAMELA		14 HAWK LANE	HINESBURG	VT	05461	14 HAWK LANE	294-093-10105	000641.3	641.3
BELL RICHARD	BELL SUSAN JEAN	593 SILVER STREET	HINESBURG	VT	05461	593 SILVER STREET	294-093-10113	001191.5	1191.5
BENJAMIN GARY		PO BOX 570	HINESBURG	VT	05465	73 CHARLOTTE ROAD	294-093-10118	000363	363
ABBOTT REBECCA METZ		719 HILLS POINT ROAD	CHARLOTTE	VT	05455	101G4 LYMAN MEADOW ROAD	294-093-10127		818.32
BEVINS LEE E		144 LYMAN MEADOW ROAD D4	HINESBURG	VT	05461	144D4 LYMAN MEADOW ROAD	294-093-10131		818.16
PARROTT PHYLLIS LIVING TRUST	PARROTT PHYLLIS TRUSTEE	78 LYMAN MEADOW ROAD B3	HINESBURG	VT	05461	78B3 LYMAN MEADOW ROAD	294-093-10133		818.07
CATAHOULA HOLDINGS LLC		10732 ROUTE 116	HINESBURG	VT	05461	10736 ROUTE 116	294-093-10138	000455	455
RIGGS STEPHANIE		185 LYMAN MEADOW ROAD M1	HINESBURG	VT	05461	185M1 LYMAN MEADOW ROAD	294-093-10139		818.52
BISSONETTE BARBARA		12721 ROUTE 116	HINESBURG	VT	05461	11861 ROUTE 116	294-093-10151	000543	543
HAYSTACK CROSSING LLC		12721 ROUTE 116	HINESBURG	VT	05461	ROUTE 116	294-093-10152	000850.6	850.6
PLANTE MARGARGET		189 LYMAN MEADOW ROAD N2	HINESBURG	VT	05461	189N2 LYMAN MEADOW ROAD	294-093-10154		818.57
BLUMEN STEVEN R & CYNTHIA A		184 SILVER STREET	HINESBURG	VT	05461	184 SILVER STREET	294-093-10163	000302.1	302.1
BOHLEN CARL C	MCLEOD KRISTY	PO BOX 225	HINESBURG	VT	05461	343 BUCK HILL ROAD WEST	294-093-10166	000586	586
MCCONNELL JOHN	TAYLOR C JANE	47 ORCHARD HILL UNIT C	HINESBURG	VT	05461	47 ORCHARD HILL UNIT C	294-093-10202		124.3
MACLAY LAURA DEAN		226 LYMAN MEADOW ROAD S2	HINESBURG	VT	05461	226S2 LYMAN MEADOW ROAD	294-093-10214		818.74
COOK ADAM		10561 ROUTE 116	HINESBURG	VT	05461	10561 ROUTE 116	294-093-10222	000532	532
BUSIER BRIAN & KATHY		10549 ROUTE 116	HINESBURG	VT	05461	10549 ROUTE 116	294-093-10241	000555	555
CASEY EILEEN M		160 LYMAN MEADOW ROAD E2	HINESBURG	VT	05461	160E2 LYMAN MEADOW ROAD	294-093-10247		818.2
CARPENTER BRADLEY C		143 BUCK HILL ROAD WEST	HINESBURG	VT	05461	143 BUCK HILL ROAD WEST	294-093-10250	000203	203
BARNARD VENTURES LLC		4400 RUTE 17	STARKSBORO	VT	05487	10523 ROUTE 116	294-093-10251	000914	914
MORRIS JAMES D		2342 MONKTON ROAD	NO. FERRISBURG	VT	05473	68 SILVER STREET	294-093-10253		189
POWERS JOHN R & ALISON L		10622 ROUTE 116	HINESBURG	VT	05461	10622 ROUTE 116	294-093-10258	000999	999
LAPERLE DONNA		144 LYMAN MEADOW ROAD D3	HINESBURG	VT	05461	144D3 LYMAN MEADOW ROAD	294-093-10275		818.15
WAITSFIELD AND CHAMPLAIN VALLEY TELECOM	ATTN ACCOUNTS PAYABLE	PO BOX 9	WAITSFIELD	VT	05673-0009	10607 ROUTE 116	294-093-10284	001241	1241

Owner1	Owner2	Address	City	State	Zip	e911 Address	SPAN	MAPID	PARCID
BUSIER BRYCE & JENNIFER		11057 ROUTE 116	HINESBURG	VT	05461	11057 ROUTE 116	294-093-10297	000465	465
CLARK GARY C		PO BOX 525	HINESBURG	VT	05461	88 CHARLOTTE ROAD	294-093-10309	000239	239
CLARK LUCY M		101 LYMAN MEADOWS UNIT G2	HINESBURG	VT	05461	101G2 LYMAN MEADOW ROAD	294-093-10317		818.3
CONGREGATIONAL SOCIETY		10765 ROUTE 116	HINESBURG	VT	-5461	10765 ROUTE 116	294-093-10330	001719	1719
CORBETT BRUCE & MAUREEN		10776 ROUTE 116	HINESBURG	VT	05461	10776 ROUTE 116	294-093-10341	000402	402
GAREY BRENDA S		245 LYMAN MEADOW ROAD Q3	HINESBURG	VT	05461	245Q3 LYMAN MEADOW ROAD	294-093-10356		818.68
CROOK DAVID & VANDA		PO BOX 142	HINESBURG	VT	05461	375 BUCK HILL ROAD WEST	294-093-10359	001156.21	1156.21
DAMERON GEORGE	OWEN DEBORAH	57 CHARLOTTE ROAD	HINESBURG	VT	05461	57 CHARLOTTE ROAD	294-093-10377	000254	254
KUHAR JENNIFER		78 LYMAN MEADOW ROAD B2	HINESBURG	VT	05461	78B2 LYMAN MEADOW ROAD	294-093-10388		818.06
DEGREE KELLY K & KELLY M		391 MECHANICSVILLE ROAD	HINESBURG	VT	05461	391 MECHANICSVILLE ROAD	294-093-10394	000583	583
LUSTGARTEN DANIEL L	STILL ABBY R	208 COYOTE RIDGE ROAD	HINESBURG	VT	05461	208 COYOTE RIDGE ROAD	294-093-10407	000282.1	282.1
GREEN STREET HOUSING LIMITED PARTNERSHIP		100 BANK STREET SUITE 400	BURLINGTON	VT	05401	GREEN STREET	294-093-10411	001191	1191
DOHERTY RICHARD M		85 LYMAN MEADOW ROAD F4	HINESBURG	VT	05461	85F4 LYMAN MEADOW ROAD	294-093-10423		818.28
DOOLEY ELLEN		151 LYMAN MEADOW ROAD J4	HINESBURG	VT	05461	151J4 LYMAN MEADOW ROAD	294-093-10430		818.44
DOWNS PATRICK J & KATHY J		10437 ROUTE 116	HINESBURG	VT	05461	10437 ROUTE 116	294-093-10441	000497	497
DREW WILLIAM T & PATRICIA A		108 THORN BUSH ROAD	HINESBURG	VT	05461	108 THORN BUSH ROAD	294-093-10443	000059.54	59.54
GOLDSMITH JAMES D	GOLDSMITH CATHERINE F	10760 RTE 116	HINESBURG	VT	05461	10732 ROUTE 116	294-093-10444	000404	404
DRISCOLL JOSEPH H		358 SILVER STREET	HINESBURG	VT	05461	358 SILVER STREET	294-093-10447	000198	198
EPJ PROPERTIES LLC		10600 ROUTE 116 SUITE 2	HINESBURG	VT	05461	10600 ROUTE 116	294-093-10453	000537	537
RED BEAR LLC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 13	294-093-10455		1246.13
GALLOWAY MATTHEW		78 LYMAN MEADOWS ROAD B4	HINESBURG	VT	05461	78B4 LYMAN MEADOW ROAD	294-093-10464		818.08
AUBUCHON REALTY COMPANY INC	DBA FIREHOUSE PLAZA	73 JUNCTION SQUARE DR	CONCORD	MA	01742	22 COMMERCE STREET	294-093-10467	000059.41	59.41
LABOUNTY JODY	LABOUNTY DONNA	405 CHARLOTTE ROAD	HINESBURG	VT	05461	405 CHARLOTTE ROAD	294-093-10472	000215	215
KNIGHT JEFFREY		17439 1ST STREET E	ST PETERSBURG	FL	33708	570 CHARLOTTE ROAD	294-093-10473	000781	781
RYAN DOUGLAS & CATHERINE		203 LYMAN MEADOW ROAD O3	HINESBURG	VT	05461	203O3 LYMAN MEADOW ROAD	294-093-10477		818.62
LAFORCE DILLON	LAFORCE GABRIELLE	216 LAVIGNE HILL ROAD	HINESBURG	VT	05461	216 LAVIGNE HILL ROAD	294-093-10478	000217	217
QUENNEVILLE CARLTON	MULLIN KAREN	125 BITTER SWEET HILL	HINESBURG	VT	05461	125 BITTER SWEET HILL	294-093-10480	000850.4	850.4
ROSS WILLIAM R & NANCY LEE		P.O. BOX 627	HINESBURG	VT	05461	153 POSTICHE LANE	294-093-10493	000984.31	984.31
MCCLEMENTS MARY		85 HIGH ROCK ROAD	HINESBURG	VT	05461	85 HIGH ROCK ROAD	294-093-10496	001156.312	1156.312
G&J PROPERTIES LLC		2119 SPEAR STREET	CHARLOTTE	VT	05445	10729 ROUTE 116	294-093-10502	000390	390
BENSHEMER LIAM	VINCENT AMANDA	78 LYMAN PARK ROAD #1	HINESBURG	VT	05461	78#1 LYMAN PARK ROAD #1	294-093-10505		818
FERRARA JOHN D & KATHERINE K		840 BUCK HILL ROAD WEST	HINESBURG	VT	05461	840 BUCK HILL ROAD WEST	294-093-10514	001178	1178
MIHAVICS ALEXANDER	MIHAVICS BETHANY	62 LYMAN MEADOW ROAD A4	HINESBURG	VT	05461	62A4 LYMAN MEADOW ROAD	294-093-10524		818.04
FITZSIMMONS AMY MELISSA		242 LYMAN MEADOW ROAD T3	HINESBURG	VT	05461	242T3 LYMAN MEADOW ROAD	294-093-10528		818.79
FOLDESI STEVEN JR	C/O NESTECH MACHINE SYSTEMS INC	PO BOX 462	HINESBURG	VT	05461	223 COMMERCE STREET	294-093-10532	000059.407	59.407
THIBAULT FARM PROPERTIES LLC		2512 WITHY COURT	TAMPA	FL	33618	11093 ROUTE 116	294-093-10537	000519	519
JARVIS CRAIG ANTHONY TRUST		229 HIGH ROCK ROAD	HINESBURG	VT	05461	229 HIGH ROCK ROAD	294-093-10558	001156.316	1156.316
FROST INVESTMENT GROUP LLC		171 COMMERCE STREET	HINESBURG	VT	05461	171 COMMERCE STREET	294-093-10561	000059.406	59.406
GALLAGHER JOYCE LAVIGNE REV TRUST	GALLAGHER JOYCE TRUSTEE	17 BLUEBILL AVE #203	NAPLES	FL	34108	LAVIGNE HILL ROAD	294-093-10571	000057	57
GALPER NICANDRA TRUSTEE	NICANDRA GALPER REVOCABLE	795 BUCK HILL ROAD WEST	HINESBURG	VT	05461	795 BUCK HILL ROAD WEST	294-093-10572	000251	251
GELBER JAMES J & VICTORIA		205 HIGH ROCK ROAD	HINESBURG	VT	05461	205 HIGH ROCK ROAD	294-093-10587	001156.314	1156.314
MASHIA MAGHAN CHARLAND		175 LYMAN MEADOW ROAD L2	HINESBURG	VT	05461	175L2 LYMAN MEADOW ROAD	294-093-10594		818.49
BURNOR REVOCABLE LIVING TRUST	BURNOR MICHAEL W & JANET P	590 SILVER STREET	HINESBURG	VT	05461	590 SILVER STREET	294-093-10597	000282.2	282.2

Owner1	Owner2	Address	City	State	Zip	e911 Address	SPAN	MAPID	PARCID
LEE NOE A	LEE KELLY P	76 HIGH ROCK ROAD	HINESBURG	VT	05461	76 HIGH ROCK ROAD	294-093-10599	001156.31	1156.31
GIROUX JUNE T TRUSTEE	JUNE T. GIROUX TRUST	327 CHARLOTTE ROAD	HINESBURG	VT	05461	327 CHARLOTTE ROAD	294-093-10604	000219	219
SPIVACK ERIC & MARGARET E.C.		311 MECHANICSVILLE ROAD	HINESBURG	VT	05461	311 MECHANICSVILLE ROAD	294-093-10606	000582	582
CLUVER GREGORY A	CLUVER MEGAN E	PO BOX 235	HINESBURG	VT	05461	1289 LAVIGNE HILL ROAD	294-093-10607	000059	59
GIROUX EUGENE J & NORMA P	GIROUX FAMILY TRUST	PO BOX 28	HINESBURG	VT	05461	10703 ROUTE 116	294-093-10609	000487	487
GIROUX PROPERTIES		10370 RTE 116	HINESBURG	VT	05461	10390 RT 116	294-093-10613	001247	1247
GIROUX PROPERTIES		10370 ROUTE 116	HINESBURG	VT	05461	10370 ROUTE 116	294-093-10614	001249	1249
GIROUX ROBERT & MARY BETH		106 THORN BUSH ROAD	HINESBURG	VT	05461	106 THORNBUSH ROAD	294-093-10615	000059.51	59.51
THOMPSON PATRICK A & CARINA M		441 SILVER STREET	HINESBURG	VT	05461	441 SILVER STREET	294-093-10619	000059.3	59.3
GIROUX VICTOR J & RAMONA A TRUSTEES	GIROUX BERNARD A ESTATE & JUNE T TRUSTEE	9318 ROUTE 116	HINESBURG	VT	-5461	COMMERCE STREET LOT 15	294-093-10621	000059.416	59.416
NATIONAL BANK OF MIDDLEBURY		PO BOX 189	MIDDLEBURY	VT	05753	140 COMMERCE STREET	294-093-10622	000059.4	59.4
GIROUX VICTOR J & RAMONA M TRUSTEES	GIROUX BERNARD A ESTATE & JUNE T TRUSTEE	9318 ROUTE 116	HINESBURG	VT	05461	10365 ROUTE 116	294-093-10624	000059.415	59.415
GIROUX PROPERTIES LLP		10370 ROUTE 116	HINESBURG	VT	05461	10407 ROUTE 116	294-093-10626	000490	490
GIROUX PROPERTIES LLC		10370 ROUTE 116	HINESBURG	VT	05461	10406 ROUTE 116	294-093-10627	000708	708
GIROUX PROPERTIES LLC		10370 ROUTE 116	HINESBURG	VT	05461	10402 ROUTE 116	294-093-10629	000488	488
THOMAS KIMBERLY A		245 LYMAN MEADOW ROAD Q1	HINESBURG	VT	05461	245Q1 LYMAN MEADOW ROAD	294-093-10630		818.66
GOLDSWEIG ARTHUR & ROCHELLE		PO BOX 223	HINESBURG	VT	05461	309 RED PINE ROAD	294-093-10636	000966	966
ROBERTS KEITH A & HEATHER J		824 LAVIGNE HILL ROAD	HINESBURG	VT	05461	824 LAVIGNE HILL ROAD	294-093-10642	000063.1	63.1
GOODRICH RB & RH LLC		53 HELEN AVE	SO BURLINGTON	VT	05403	NORTH ROAD	294-093-10643	000898.1	898.1
GOODRICH VIOLA TRUSTEE		419 LAVIGNE HILL ROAD	HINESBURG	VT	05461	552 LAVIGNE HILL ROAD	294-093-10644	000898	898
ZDUNCZYK ANDRE J	ARMS LAUREN	1259 SHELLHOUSE MOUNTAIN ROAD	FERRISBURGH	VT	05456	242T2 LYMAN MEADOW ROAD	294-093-10648		818.78
DENIS BROOKE		163 LYMAN MEADOWS K1	HINESBURG	VT	05461	163K1 LYMAN MEADOW ROAD	294-093-10655		818.45
GRILLO MICHAEL J & LENORA L		27 SO. MAIN ST #1	ESSEX	CT	06426	10694 ROUTE 116	294-093-10664	001254	1254
HEBERT SARAH E		144 LYMAN MEADOW ROAD UNIT D-5	HINESBURG	VT	05461	144D5 LYMAN MEADOW ROAD	294-093-10667		818.17
CARTULARO VINCENT & KELLEY		385 DAVIS ROAD	HINESBURG	VT	05461	10613 ROUTE 116	294-093-10682	000707	707
HANLON SHARON L		175 LYMAN MEADOWS ROAD L1	HINESBURG	VT	05461	175L1 LYMAN MEADOW ROAD	294-093-10691		818.48
HARRIS ROBERT F		12005 ROUTE 116	HINESBURG	VT	05461	12005 ROUTE 116	294-093-10692	001626	1626
HART & MEAD INC		PO BOX 307	HINESBURG	VT	05461	10919 ROUTE 116	294-093-10694	001250	1250
ROBINSON CHRISTIN		538 SILVER STREET	HINESBURG	VT	05461	538 SILVER STREET	294-093-10702	000285	285
HART THOMAS		11141 ROUTE 116	HINESBURG	VT	05461	11141 ROUTE 116	294-093-10703	001265	1265
SMITH OWEN B		P.O. BOX 72	HINESBURG	VT	05461	420 TIMBER POND ROAD	294-093-10704	000307	307
AUSTIN PROPERTIES LLC		58 BARTLETT BAY ROAD	SO BURLINGTON	VT	05403	VILLAGE HEIGHTS ROAD	294-093-10711	000059.1	59.1
HELLMAN HILDEGUND FAMILY TRUST	C/O RENATA ADAMOWICZ TRUSTEE	35 SPRUCE STREET	BURLINGTON	VT	05401	LAVIGNE HILL ROAD	294-093-10730	000059.53	59.53
BARBIERI MARISSA		62 LYMAN MEADOW ROAD A1	HINESBURG	VT	05461	62A1 LYMAN MEADOW ROAD	294-093-10737		818.01
CATAHOULA HOLDINGS LLC		10760 ROUTE 116	HINESBURG	VT	05461	10710 ROUTE 116	294-093-10772	001714	1714
NRZ REO VII LLC (NPL)		8950 CYPRESS WATERS BLVD	COPPELL	TX	75019	377 CHARLOTTE ROAD	294-093-10776	000781.2	781.2
YANDOW TIMOTHY S	ROWE JANE E	32 MARTEL LANE	WILLISTON	VT	05495-9618	175L4 LYMAN MEADOW ROAD	294-093-10791		818.51
BRUNETTO SCOTT J	INCERPI MARIANNE	240 SILVER STREET	HINESBURG	VT	05461	240 SILVER STREET	294-093-10798	000201	201
BARROWS ROBERT E JR & LAURA ANN		491 MECHANICSVILLE ROAD	HINESBURG	VT	05461	491 MECHANICSVILLE ROAD	294-093-10801	000596	596
CHERNEK WAYNE F	CHERNEK SUSAN J	17 LILLY ST	NEWBURGH	NY	12550	114C2 LYMAN MEADOW ROAD	294-093-10811		818.1

Owner1	Owner2	Address	City	State	Zip	e911 Address	SPAN	MAPID	PARCID
JACKSON LAURA S & JOEL T		114 HAWK LANE	HINESBURG	VT	05461	114 HAWK LANE	294-093-10813	000347	347
JACOBS MICHAEL J		11064 ROUTE 116	HINESBURG	VT	05461	11064 ROUTE 116	294-093-10815	000389	389
HULSHOF JEREMY B	HULSHOF ARIANNA K	85 LYMAN MEADOW ROAD F1	HINESBURG	VT	05461	85F1 LYMAN MEADOW ROAD	294-093-10819		818.25
JOHANSEN SCOTT	REILLY KIMBERLEE	601 LAVIGNE HILL ROAD	HINESBURG	VT	05461	601 LAVIGNE HILL ROAD	294-093-10821	001156	1156
JOHNSTON KEITH A & SHANNON L		366 BUCK HILL ROAD WEST	HINESBURG	VT	05461	366 BUCK HILL ROAD WEST	294-093-10826	000227	227
JOLLEY ASSOCIATES		PO BOX 671	ST ALBANS	VT	05478	21 COMMERCE STREET	294-093-10827	000059.402	59.402
LANG JOSHUA BRENT		41 LEARY ROAD	JERICHO	VT	05465	11075 ROUTE 116	294-093-10841	000542	542
KELLEY'S FIELD LIMITED PARTNERSHIP	C/O CATHEDRAL SQUARE	412 FARRELL ST SUITE 100	SO. BURLINGTON	VT	05403	87 KELLEY'S FIELD ROAD	294-093-10844	000914.1	914.1
KERSCHNER RICHARD L & SARAH W		3532 SHELLHOUSE MOUNTAIN ROAD	FERRISBURGH	VT	05456	47 ORCHARD HILL UNIT E	294-093-10853		124.5
COUGHLIN KATHRYN		249 LYMAN MEADOW ROAD R3	HINESBURG	VT	05461	249R3 LYMAN MEADOW ROAD	294-093-10861		818.72
ZIMICKI CAROL		62 LYMAN MEADOW ROAD A3	HINESBURG	VT	05461	62A3 LYMAN MEADOW ROAD	294-093-10863		818.03
HICKERSON JACKLYN J		151 LYMAN MEADOW ROAD J1	HINESBURG	VT	05461	151J1 LYMAN MEADOW ROAD	294-093-10869		818.41
WHITE SARA		47 ORCHARD HILL UNIT D	HINESBURG	VT	05461	47 ORCHARD HILL UNIT D	294-093-10874		124.4
DENSMORE DOUGLAS & LYNDA		121 LYMAN MEADOWS UNIT H-1	HINESBURG	VT	05461	121H1 LYMAN MEADOW ROAD	294-093-10887		818.33
KOHN ROGER ET AL		PO BOX 340	HINESBURG	VT	05461	10719 ROUTE 116	294-093-10890	000709	709
KONKEL CONSTANCE M		185 LYMAN MEADOW ROAD M2	HINESBURG	VT	05461	185M2 LYMAN MEADOW ROAD	294-093-10891		818.53
DONER NICOLE S		245 LYMAN MEADOW ROAD Q2	HINESBURG	VT	05461	245Q2 LYMAN MEADOW ROAD	294-093-10895		818.67
LAGASSE RICHARD M.	LAGASSE LAUNA L	491 LAVIGNE HILL ROAD	HINESBURG	VT	05461	491 LAVIGNE HILL ROAD	294-093-10910	000293	293
LALONDE JAMES W	LALONDE MARY L	363 MECHANICSVILLE ROAD	HINESBURG	VT	05461	363 MECHANICSVILLE ROAD	294-093-10912	000581	581
WITHUM MICHAEL K		226 LYMAN MEADOW ROAD S3	HINESBURG	VT	05461	226S3 LYMAN MEADOW ROAD	294-093-10916		818.75
HAYES AIMEE P	HAYES MATTHEW R	PO BOX 265	HINESBURG	VT	05461	674 MECHANICSVILLE ROAD	294-093-10920	000604	604
LANTMANS IGA INC	C/O BRIAN & KATHY BUSIER	PO BOX 301	HINESBURG	VT	-5461	10681 ROUTE 116	294-093-10929	001251	1251
LARSON PAIGE A		25 KELLEY'S FIELD ROAD UNIT 3	HINESBURG	VT	05461	25 KELLEY'S FIELD ROAD UNIT 3	294-093-10938		914.03
LYMAN JAMMIE M		P.O. BOX 414	HINESBURG	VT	05461	151J2 LYMAN MEADOW ROAD	294-093-10941		818.42
BRASSARD JAIME	PROCTOR JAMIE	306 MECHANICSVILLE ROAD	HINESBURG	VT	05461	306 MECHANICSVILLE ROAD	294-093-10971	000590	590
LEROY GREGORY & NANCY	LEROY TRUST	794 BUCK HILL ROAD WEST	HINESBURG	VT	05461	794 BUCK HILL ROAD WEST	294-093-10976	000001.1	1.1
LIAN ROBERT T		PO BOX 337	HINESBURG	VT	05461	155 POSTICHE LANE	294-093-10983	000984.32	984.32
NALETTE DONNA		226 LYMAN MEADOW ROAD S1	HINESBURG	VT	05461	226S1 LYMAN MEADOW ROAD	294-093-11000		818.73
LYMAN JOHN K & AMY C		PO BOX 528	HINESBURG	VT	05461	10438 ROUTE 116	294-093-11013	000819	819
HOWE CAROLYN TRUSTEE	CAROLYN L HOWE REVOCABLE	792 PIETTE MEADOW ROAD	HINESBURG	VT	05461	249R1 LYMAN MEADOW ROAD	294-093-11020		818.7
MARRA AMY M		144 LYMAN MEADOW ROAD D1	HINESBURG	VT	05461	144D1 LYMAN MEADOW ROAD	294-093-11021		818.13
ROOT SUE		249 LYMAN MEADOW R2	HINESBURG	VT	05461	249 LYMAN MEADOW ROAD R2	294-093-11030		818.71
DICKINSON STERLING L IV	DICKINSON JENNIFER I	163 LYMAN MEADOW ROAD K3	HINESBURG	VT	05461	163K3 LYMAN MEADOW ROAD	294-093-11031		818.47
PLANTE ROBERT JR & LAUREL		P.O. BOX 821	SHELBURNE	VT	05482	10750 ROUTE 116	294-093-11051	000403	403
PALMER TRAVIS		PO BOX 238	HINESBURG	VT	05461	62 CHARLOTTE ROAD	294-093-11054	000263	263
MARTIN RICHARD & CHERYL D		526 FERN ROAD	HINESBURG	VT	05461	526 FERN ROAD	294-093-11061	000007.01	7.01
SMITH LINDSEY ANN		221 LYMAN MEADOW ROAD P2	HINESBURG	VT	05461	221P2 LYMAN MEADOW ROAD	294-093-11078		818.64
KOHALA PROPERTIES LLC		1015 ATLANTIC BLVD, SUITE 446	ATLANTIC BEACH	FL	32233	206 COMMERCE STREET	294-093-11082	000059.410	59.41
MORIAH LLC	ANIMAL HOSPITAL OF HINESBURG	205 COMMERCE ST	HINESBURG	VT	05461	205 COMMERCE STREET	294-093-11084	000059.418	59.418
MCENTEE JOHN & CAROLINE		81 HAWK LANE	HINESBURG	VT	05461	81 HAWK LANE	294-093-11089	000869.1	869.1

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BIRCHMORE SAMUEL		144 LYMAN MEADOW ROAD UNIT D2	HINESBURG	VT	05461	144D2 LYMAN MEADOW ROAD	294-093-11103		818.14
MEAD BROTHERS INC		P.O. BOX 307	HINESBURG	VT	05461	10901 ROUTE 116	294-093-11105	001252	1252
MEAD FAMILY TRUST	DOUGLAS MEAD	PO BOX 623	HINESBURG	VT	05461	10975 ROUTE 116	294-093-11106	000409	409
MEAD NICHOLAS B	LEA KELSEY	PO BOX 75	HINESBURG	VT	05461	10655 ROUTE 116	294-093-11107	000515	515
GOLDSMITH JAMES	GOLDSMITH CATHERINE	10760 ROUTE 116	HINESBURG	VT	05461	10760 ROUTE 116	294-093-11127	000541	541
MINER JOSEPH R		59 HAWK LANE #B	HINESBURG	VT	05461	59 HAWK LANE	294-093-11132	000869	869
MINER MATTHEW D & MELODY A		11599 ROUTE 116	HINESBURG	VT	05461	11599 ROUTE 116	294-093-11133	000372	372
KB REAL ESTATE LLC	C/O BRIAN & KATHY BUSIER	10549 ROUTE 116	HINESBURG	VT	05461	10701 ROUTE 116	294-093-11142	000710	710
MCCABE ELIZABETH R		144 LYMAN MEADOW ROAD UNIT D-6	HINESBURG	VT	05461	144D6 LYMAN MEADOW ROAD	294-093-11158		818.18
MORGANTE ANDREA		56 MECHANICSVILLE ROAD	HINESBURG	VT	05461	56 MECHANICSVILLE ROAD	294-093-11160	000380	380
WEBB MICHAEL	WEBB AMANDA	244 SILVER ST	HINESBURG	VT	05461	244 SILVER STREET	294-093-11164	000288	288
MOTT BRENT & PHEBE		221 LYMAN MEADOW ROAD P3	HINESBURG	VT	05461	221P3 LYMAN MEADOW ROAD	294-093-11166		818.65
SCHNEEBAUM ANDREA		PO BOX 626	HINESBURG	VT	05461	308 TIMBER POND ROAD	294-093-11168	000205	205
RED BEAR LLC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 1	294-093-11174		1246.01
VERMONT BUILDING RESOURCES LLC	C/O CHARLES REISS	756 BUCK HILL ROAD WEST	HINESBURG	VT	05461	69 BUCK HILL ROAD WEST	294-093-11181	000984.1	984.1
MUNSON LAWRENCE J & MARY M		160 BUCK HILL ROAD WEST	HINESBURG	VT	05461	160 BUCK HILL ROAD WEST	294-093-11182	000984.2	984.2
SULLIVAN RONALD	SULLIVAN LORENE L	101 LYMAN MEADOWS G1	HINESBURG	VT	05461	101G1 LYMAN MEADOW ROAD	294-093-11188		818.29
BELLIVEAU ERIC J	BELLIVEAU MARIA B	85 APPLE RIDGE RD	HINESBURG	VT	05461	10542 ROUTE 116	294-093-11196	000450	450
NEVIUS JOHN M & JUDITH M		19 FRIENDSHIP LANE	HINESBURG	VT	05461	19 FRIENDSHIP LANE	294-093-11201	000414	414
NEVIUS JEFFREY M		25 KELLEY'S FIELD ROAD UNIT 4	HINESBURG	VT	05461	25 KELLEY'S FIELD ROAD UNIT 4	294-093-11206		914.04
BUTLER ROBERT R		P.O. BOX 276	HINESBURG	VT	05461	25 KELLEY'S FIELD ROAD UNIT 1	294-093-11207		914.01
NORRIS ALAN	LIAN NANCY E	PO BOX 368	HINESBURG	VT	05461	211 POSTICHE LANE	294-093-11216	000984.3	984.3
DENNISON ANDREW R	BELL ALISON P	732 BUCK HILL ROAD WEST	HINESBURG	VT	05461	732 BUCK HILL ROAD WEST	294-093-11232	001154	1154
PACHT JOHN	BAYER ANDREA	145 HAYMEADOW LANE	HINESBURG	VT	05461	145 HAYMEADOW LANE	294-093-11245	001156.24	1156.24
ASHFORD REBECCA G		185 LYMAN MEADOW ROAD M4	HINESBURG	VT	05461	185M4 LYMAN MEADOW ROAD	294-093-11246		818.55
PAGE MICHAEL D & BETH A		189 LYMAN MEADOW ROAD	HINESBURG	VT	05461	189N1 LYMAN MEADOW ROAD	294-093-11248		818.56
PALMER GEORGE & LINDA		98 FRIENDSHIP LANE	HINESBURG	VT	05461	98 FRIENDSHIP LANE	294-093-11251	000518	518
PALMER SHARLENE THURSTON	PALMER DAVID P	PO BOX 98	HINESBURG	VT	05461	10996 ROUTE 116	294-093-11257	000538	538
JAMES CHRISTOPHER		59 MECHANICSVILLE ROAD	HINESBURG	VT	05461	59 MECHANICSVILLE ROAD	294-093-11277	000358	358
BARNETT M LAURIE SR		79 MECHANICSVILLE ROAD	HINESBURG	VT	05461	79 MECHANICSVILLE ROAD	294-093-11296	000573	573
PENDERGRASS MARK J	KAUFMAN JENNIFER S	154 HIGH ROCK ROAD	HINESBURG	VT	05461	154 HIGH ROCK ROAD	294-093-11298	001156.313	1156.313
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 2	294-093-11302		1246.02
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 3	294-093-11303		1246.03
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 5	294-093-11304		1246.05
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 6	294-093-11305		1246.06
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 7	294-093-11306		1246.07
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANCISVILLE ROAD APT 9	294-093-11307		1246.09
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 10	294-093-11308		1246.1
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 11	294-093-11309		1246.11
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 14	294-093-11310		1246.14
PERFORMANCE REALTY INC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 15	294-093-11311		1246.15

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PICCINI ANGELA		221 LYMAN MEADOW ROAD P1	HINESBURG	VT	05461	221P1 LYMAN MEADOW ROAD	294-093-11312		818.63
MELI ISABEL	DIAZ DONOSO CARMEN	3356 MARTHA CUSTIS DR	ALEXANDRIA	VA	22302-2115	114C3 LYMAN MEADOW ROAD	294-093-11314		818.11
JARVIS JAMES L	JARVIS MARGUERITE L	133 LYMAN MEADOW ROAD I4	HINESBURG	VT	05461	133I4 LYMAN MEADOW ROAD	294-093-11320		818.4
NUNZIATA BENJAMIN T	NUNZIATA LAURA	232 HIGH ROCK ROAD	HINESBURG	VT	05461	232 HIGH ROCK ROAD	294-093-11326	001156.315	1156.315
PORTELANCE TODD M		137 HAWK LANE	HINESBURG	VT	05461	137 HAWK LANE	294-093-11349	000641.2	641.2
VOLK RANDALL & JENNIFER		2637 BALDWIN ROAD	HINESBURG	VT	05461	18 MECHANICSVILLE ROAD	294-093-11360	000529	529
MILLS DANIEL P	CAULFIELD HEATHER A	121 LYMAN MEDOW ROAD H2	HINESBURG	VT	05461	121H2 LYMAN MEADOW ROAD	294-093-11370		818.34
CLARK JAMES C		8 MECHANICSVILLE ROAD	HINESBURG	VT	05461	8 MECHANICSVILLE ROAD	294-093-11371	000511	511
DONOVAN JAMES	O'DONNELL PATRICIA	PO BOX 321	CHARLOTTE	VT	05445	613 MECHANICSVILLE ROAD	294-093-11377	000625	625
RABIDOUX STEVEN M & FARAH D		599 SILVER STREET	HINESBURG	VT	05461	599 SILVER STREET	294-093-11379	001191.3	1191.3
MARTIN TERRY	MURRAY GARY A & BILLIE JO	10879 ROUTE 116	HINESBURG	VT	05461	10879 ROUTE 116	294-093-11386	000531	531
RAYMOND TIMOTHY D	GRUPPI LINDA A	378 SILVER STREET	HINESBURG	VT	05461	378 SILVER STREET	294-093-11387	000220	220
REISS CHARLES F & SALLY M		756 BUCK HILL ROAD WEST	HINESBURG	VT	05461	756 BUCK HILL ROAD WEST	294-093-11398	001156.1	1156.1
KARMOSKY WALTER & ANN TRUSTEES	REVOCABLE TRUST OF ANN P	121 LYMAN MEADOW ROAD H4	HINESBURG	VT	05461	121H4 LYMAN MEADOW ROAD	294-093-11400		818.36
KB REAL ESTATE LLC		PO BOX 301	HINESBURG	VT	05461	10004 ROUTE 116	294-093-11407	000850	850
GRAVES BRETT E	GRAVES KATHERINE W	366 MECHANICSVILLE ROAD	HINESBURG	VT	05461	366 MECHANICSVILLE ROAD	294-093-11416	000746	746
ROBINSON REGINALD H & SANDRA J		480 BUCK HILL ROAD EAST	HINESBURG	VT	05461	480 BUCK HILL ROAD EAST	294-093-11426	001612	1612
ROBINSON REGINALD H & SANDRA T		480 BUCK HILL ROAD EAST	HINESBURG	VT	05461	10787 ROUTE 116	294-093-11427	000533	533
DANON BETH		32 SILVER STREET	HINESBURG	VT	05461	32 SILVER STREET	294-093-11431	000575	575
ST JUDE PARISH CHARITABLE TRUST	MATANO SALVATORE R TRUSTEE	351 NORTH AVE	BURLINGTON	VT	05401	10759 ROUTE 116	294-093-11434	001720	1720
KATIMS ROBERT	BAYER-PACHT EMILY	147 HAYMEADOW LANE	HINESBURG	VT	05461	147 HAYMEADOW LANE	294-093-11437	001156.23	1156.23
PHOENIX1 LLC		79 COMMERCE STREET	HINESBURG	VT	05461	79 COMMERCE STREET	294-093-11439	000059.403	59.403
ROSE KAREN Z & IRVING N	ROSE FAMILY TRUST	213 TIMBER POND ROAD	HINESBURG	VT	05461	213 TIMBER POND ROAD	294-093-11440	000308	308
ROY BERNARD & PHYLLIS		66 FRIENDSHIP LANE	HINESBURG	VT	05461	66 FRIENDSHIP LANE	294-093-11450	000434	434
RUGGLES DARLENE F	DARLENE F RUGGLES REVOCABLE	96 SILVER STREET	HINESBURG	VT	05461	96 SILVER STREET	294-093-11452	000230	230
O'DONNELL DAVID	O'DONNELL SARA	353 SILVER STREET	HINESBURG	VT	05461	353 SILVER STREET	294-093-11456	000858	858
RUSSELL FAMILY TRUST	C/O ANNE DONGAN	742 POND BROOK ROAD	HINESBURG	VT	05461	CHARLOTTE ROAD N/S	294-093-11457	000859	859
RUSSELL FAMILY TRUST	C/O ANNE DONEGAN	742 POND BROOK ROAD	HINESBURG	VT	05461	10643 ROUTE 116	294-093-11458	000991.02	991.02
RUSSELL HARRY P	RUSSELL KENNETH	PO BOX 201	HINESBURG	VT	05461	1087 LAVIGNE HILL ROAD	294-093-11461	000991.01	991.01
DONEGAN JAMES P	ARMSTRONG-DONEGAN SARA	10643 ROUTE 116	HINESBURG	VT	05461	10643 ROUTE 116	294-093-11462	000991	991
RUSSELL STEPHEN & HOLLY LE		PO BOX 6	HINESBURG	VT	05461	346 CHARLOTTE ROAD	294-093-11464	000281	281
GAGNE JEAN-PIERRE		242 LYMAN MEADOW ROAD T1	HINESBURG	VT	05461	242T1 LYMAN MEADOW ROAD	294-093-11472		818.77
CATAMOUNT-MALONE/HINESBURG LLC	%REDSTONE	PO BOX 790	BURLINGTON	VT	05402	10516 ROUTE 116	294-093-11476	001257	1257
GRENHAM PATRICK	BATLEY TANIA	706 SILVER ST	HINESBURG	VT	05461	706 SILVER STREET	294-093-11477	000282	282
HASKINS SHANE M		160 LYMAN MEADOW ROAD E4	HINESBURG	VT	05461	160E4 LYMAN MEADOW ROAD	294-093-11489		818.22
GIROUX PROPERTIES		10370 RTE 116	HINESBURG	VT	05461	10383 ROUTE 116	294-093-11491	000498	498
SELECTRONICS CORPORATION	ATTN ACCOUNTS PAYABLE	PO BOX 9	WAITSFIELD	VT	05673-0009	14 THORN BUSH ROAD	294-093-11494	000059.52	59.52
CASCO CALEB MICHAEL		PO BOX 343	HINESBURG	VT	05461	11038 ROUTE 116	294-093-11501	000385	385
DARK STAR PROPERTIES LLC		102 COMMERCE STREET	HINESBURG	VT	05461	102 COMMERCE STREET	294-093-11502	000059.411	59.411
SHERWOOD KEITH R		185 LYMAN MEADOW ROAD M3	HINESBURG	VT	05461	185M3 LYMAN MEADOW ROAD	294-093-11508		818.54
SIUS LLC	C/O CENTURY 21	1161 WILLISTON ROAD	SO BURINGTON	VT	05403	447 MECHANCISVILLE ROAD APT 4	294-093-11523		1246.04
SIUS LLC	C/O CENTURY 21	1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 12	294-093-11524		1246.12
BOLDUC ANDREW M		85 LYMAN MEADOW ROAD	HINESBURG	VT	05461	85F2 LYMAN MEADOW ROAD	294-093-11530		818.26

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WESLEY WILLIAM L		114 LYMAN MEADOW ROAD C4	HINESBURG	VT	05461	114C4 LYMAN MEADOW ROAD	294-093-11531		818.12
SMITH NORMAN S & WILMA G		833 LAVIGNE HILL ROAD	HINESBURG	VT	05461	833 LAVIGNE HILL ROAD	294-093-11538	001158	1158
WALKER DEBRA		160 LYMAN MEADOW ROAD E6	HINESBURG	VT	05461	160E6 LYMAN MEADOW ROAD	294-093-11548		818.24
RED BEAR LLC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 8	294-093-11549		1246.08
SPILLANE LOWELL T JR & SHELLEY	LANDRIGAN NICHOLAS	336 TAMARACK SHORES	SHELBURNE	VT	05482	10497 ROUTE 116	294-093-11556	000642	642
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORES	SHELBURNE	VT	05482	11099#1 ROUTE 116	294-093-11557		519.1
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORES	SHELBURNE	VT	05482	11099#2 ROUTE 116	294-093-11558		519.2
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORE	SHELBURNE	VT	05482	11099#3 ROUTE 116	294-093-11559		519.3
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORES	SHELBURNE	VT	05482	11099#4 ROUTE 116	294-093-11560		519.4
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORES	SHELBURNE	VT	05482	11099#5 ROUTE 116	294-093-11561		519.5
SPILLANE LOWELL T JR & SHELLEY		336 TAMARACK SHORES	SHELBURNE	VT	05482	11099#6 ROUTE 116	294-093-11562		519.6
STEELE DAVID & MARJORIE		PO BOX 488	HINESBURG	VT	05461	1027 LAVIGNE HILL ROAD	294-093-11580	001156.3	1156.3
STEWART DOUGLAS A & JENNEE E		300 FARMALL DR	HINESBURG	VT	05461	101G3 LYMAN MEADOW ROAD	294-093-11585		818.31
MITCHELL CAYAUNA	MITCHELL JEFFREY S	341 MECHANICSVILLE ROAD	HINESBURG	VT	05461	341 MECHANICSVILLE ROAD	294-093-11587	000399	399
OLSON JOSHUA	OLSON JENNIFER	10575 ROUTE 116	HINESBURG	VT	05461	10575 ROUTE 116	294-093-11596	000535	535
STORAGE SOLUTIONS		PO BOX 501	WILLISTON	VT	05495	119 COMMERCE STREET	294-093-11597	000059.417	59.417
LIUZZI NATACHA MARIA		189 LYMAN MEADOW ROAD N3	HINESBURG	VT	05461	189N3 LYMAN MEADOW ROAD	294-093-11607		818.58
THERRIEN RAYMOND & DENISE		149 HAWK LANE	HINESBURG	VT	05461	149 HAWK LANE	294-093-11639	000641.1	641.1
THOMPSON ROBERT		39 MECHANICSVILLE ROAD	HINESBURG	VT	05461	39 MECHANICSVILLE ROAD	294-093-11651	000635	635
TOMKO JOSEPH		47 ORCHARD HILL ROAD	HINESBURG	VT	05461	47 ORCHARD HILL UNIT A	294-093-11654		124.1
HASKINS KASEY L		25 KELLEYS FIELD ROAD UNIT 2	HINESBURG	VT	05461	25 KELLEY'S FIELD ROAD UNIT 2	294-093-11694		914.02
TRZEPACZ JAMES		226 LYMAN MEADOW ROAD S4	HINESBURG	VT	05461	226S4 LYMAN MEADOW ROAD	294-093-11697		818.76
MARTIN CURTIS	LEDNICKY SAMANTHA	419 FERN ROAD	HINESBURG	VT	05461	419 FERN ROAD	294-093-11698	000167.1	167.1
UNITED CHURCH HINESBURG		PO BOX 39	HINESBURG	VT	05461	10580 ROUTE 116	294-093-11707	001718	1718
HINESBURG VILLAGE CENTER LLC		421 MALLARD POND ROAD	HINESBURG	VT	05461	90 MECHANICSVILLE ROAD	294-093-11736	000741	741
WALKER DAPHNE & DAVID		PO BOX 26	HINESBURG	VT	05461	10686 ROUTE 116	294-093-11743	000536	536
WALSH FRANCES E		85 LYMAN MEADOW ROAD F3	HINESBURG	VT	05461	85F3 LYMAN MEADOW ROAD	294-093-11746		818.27
COMMERCE STREET LLC	C/O JACQUELINE WASHBURN	900 BEEBE LANE	WILLISTON	VT	05495	234 COMMERCE STREET	294-093-11755	000059.2	59.2
BAUCH JANICE A REV TRUST		242 LYMAN MEADOW ROAD T4	HINESBURG	VT	05461	242T4 LYMAN MEADOW ROAD	294-093-11769		818.8
WERNHOFF DALE	TURPIN-WERNHOFF JOANNE	PO BOX 470	HINESBURG	VT	-5461	11532 ROUTE 116	294-093-11773	000984.4	984.4
WHEATER DONALD	LAPLANT LISA	564 BUCK HILL ROAD WEST	HINESBURG	VT	05461	564 BUCK HILL ROAD WEST	294-093-11778	000273	273
MARINO PAUL S		151 LYMAN MEADOW ROAD J3	HINESBURG	VT	05461	151J3 LYMAN MEADOW ROAD	294-093-11780		818.43
WHITE HENRY	WHITE SANDRA	224 SILVER STREET	HINESBURG	VT	05461	224 SILVER STREET	294-093-11783	000302	302
WHITNEY THOMAS & PATRICIA		114 HAYMEADOW LANE	HINESBURG	VT	05461	114 HAYMEADOW LANE	294-093-11791	001156.2	1156.2
RED BEAR LLC		1161 WILLISTON ROAD	SO BURLINGTON	VT	05403	447 MECHANICSVILLE ROAD APT 16	294-093-11792		1246.16
LAVIGNE LORA LESHEA		78 LYMAN MEADOW ROAD B1	HINESBURG	VT	05461	78B1 LYMAN MEADOW ROAD	294-093-11796		818.05
ZIMICKI BOWDITCH NICHOLAS & LAURA		133 LYMAN MEADOW ROAD I3	HINESBURG	VT	05461	133I3 LYMAN MEADOW ROAD	294-093-11797		818.39
WILSON JAMES & LORI		140 FRIENDSHIP LANE	HINESBURG	VT	05461	140 FRIENDSHIP LANE	294-093-11802	000518.1	518.1
WILSON TERALD J	ANISFIELD NANCY	1067 SILVER STREET	HINESBURG	VT	05461	1067 SILVER STREET	294-093-11804	000762.1	762.1
BREEN MICHAEL S	BREEN KRISTINE	PO BOX 641	HINESBURG	VT	05461	677 SILVER STREET	294-093-11805	001191.2	1191.2
WINTERS ROBIN COHEN S	WINTERS LARRY	144 HAWK LANE	HINESBURG	VT	05461	144 HAWK LANE	294-093-11807	000641	641
FREGEAU EMILY E		245 LYMAN MEADOW ROAD Q4	HINESBURG	VT	05461	245Q4 LYMAN MEADOW ROAD	294-093-11811		818.69
WRIGHT DENIS T		163 LYMAN MEADOW ROAD K2	HINESBURG	VT	05461	163K2 LYMAN MEADOW ROAD	294-093-11823		818.46
WUTHRICH RYAN W & CARLA C		838 BUCK HILL ROAD WEST	HINESBURG	VT	05461	838 BUCK HILL ROAD WEST	294-093-11826	001178.2	1178.2

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ZONTANOS VOULA P TRUSTEE	VOULA P ZONTANOS REVOCABLE	3 ROSEWOOD LANE	ESSEX JUNCTION	VT	05452	11027 ROUTE 116	294-093-11836	000453	453
ZONTANOS VOULA P TRUSTEE	VOULA P ZONTANOS REVOCABLE	3 ROSEWOOD LANE	ESSEX JCT	VT	05452	11035 ROUTE 116	294-093-11837	000589	589
ZONTANOS VOULA P TRUSTEE	VOULA P ZONTANOS REVOCABLE	3 ROSEWOOD LANE	ESSEX JUNCTION	VT	05452	10997 ROUTE 116	294-093-11838	001237	1237
PROVOST LYNSEY		62 LYMAN MEADOW ROAD A2	HINESBURG	VT	05461	62A2 LYMAN MEADOW ROAD	294-093-11840		818.02
RADIGAN JONATHAN M	TEBBETTS CHRISTOPHER M	662 BUCK HILL ROAD WEST	HINESBURG	VT	05461	662 BUCK HILL ROAD WEST	294-093-11842	001154.1	1154.1
BLOMSTRANN JAN	PEACE OF MIND REVOCABLE TRUST	222 DEER POINT RD	CHARLOTTE	VT	05445	RIGGS ROAD	294-093-11851	000850.9	850.9
BESSETTE CURTIS P	BESSETTE ROBYN	114 LYMAN MEADOW ROAD C1	HINESBURG	VT	05461	114C1 LYMAN MEADOW ROAD	294-093-11852		818.09
WIND NRG PARTNERS		110 RIGGS RD	HINESBURG	VT	05461	110 RIGGS ROAD	294-093-11859	000851	851
MARCELINO MARK A	PAWUL CASSIE R	276 MECHANICSVILLE ROAD	HINESBURG	VT	05461	276 MECHANICSVILLE ROAD	294-093-11865	000590.1	590.1
GOODRICH KAREN		419 LAVIGNE HILL ROAD	HINESBURG	VT	05461	419 LAVIGNE HILL ROAD	294-093-11867	000898.3	898.3
MURPHY CHRISTOPHER & SARAH		26 MULBERRY LANE	HINESBURG	VT	05461	26 MULBERRY LANE	294-093-11872	000059.61	59.61
O'NEIL ROBERT J & JOYCE C		111 MULBERRY LANE	HINESBURG	VT	05461	111 MULBERRY LANE	294-093-11873	000059.66	59.66
EDWARDS HAROLD	C/O JUDY EDWARDS-DURGIN	15 MURRAY ROAD	HINESBURG	VT	05461	78U2 LYMAN PARK ROAD	294-093-11875		818.92
OSBORN SHERRELL ELIZABETH LIV	OSBORN SHERRELL TRUSTEE	78 LYMAN PARK ROAD UNIT 3	HINESBURG	VT	05461	78U3 LYMAN PARK ROAD	294-093-11876		818.93
ALFIERI AMY		38 LYMAN ROAD UNIT #4	HINESBURG	VT	05461	38U4 LYMAN PARK ROAD	294-093-11877		818.94
BALDWIN MARY		38 LYMAN PARK RD UNIT 5	HINESBURG	VT	05461	38U5 LYMAN PARK ROAD	294-093-11878		818.95
LAROCQUE AMY A		38 LYMAN PARK ROAD UNIT 6	HINESBURG	VT	05461	38U6 LYMAN PARK ROAD	294-093-11879		818.96
CERNOSIA PETER L	CERNOSIA ARTHUR W	38 LYMAN PARK ROAD UNIT 7	HINESBURG	VT	05461	38U7 LYMAN PARK ROAD	294-093-11880		818.97
GODDARD NANCY L		38 LYMAN PARK ROAD UNIT 8	HINESBURG	VT	05461	38U8 LYMAN PARK ROAD	294-093-11881		818.98
PALMER CAROLYN A		PO BOX 536	HINESBURG	VT	05461	38U9 LYMAN PARK ROAD	294-093-11882		818.99
HAY MATTHEW & LINDSAY		44 MULBERRY LANE	HINESBURG	VT	05461	44 MULBERRY LANE	294-093-11884	000059.63	59.63
FRENCH JOSEPH & ANITA		90 MULBERRY LANE	HINESBURG	VT	05461	90 MULBERRY LANE	294-093-11886	000059.65	59.65
EDDY PAUL F REVOCABLE TRUST		P.O. BOX 292	HINESBURG	VT	05461	657 CHARLOTTE ROAD	294-093-11888	000781.3	781.3
PETERSON ADAM	SUSKIN KATE	54 MULBERRY LANE	HINESBURG	VT	05461	54 MULBERRY LANE	294-093-11910	111111	111111
FRAZIER JAMES C & KATHARINA M		826 LAVIGNE HILL ROAD	HINESBURG	VT	05461	826 LAVIGNE HILL ROAD	294-093-11927	000063	63
REGAN ERIN E	WORTMANN APRIL J	187 FARMALL DRIVE	HINESBURG	VT	05461	187 FARMALL DRIVE	294-093-11940		819.032
VONBARGEN VERONICA L		175 FARMALL DRIVE	HINESBURG	VT	05461	175 FARMALL DRIVE	294-093-11943		819.031
LAVIGNE KELLY J		34 BLAIR PARK RD #142	WILLISTON	VT	05495-7991	195 FARMALL DRIVE	294-093-11944		819.033
WHEELER JAMES WESTON	WHEELER SHANNON	286 FARMALL DERIVE	HINESBURG	VT	05461	286 FARMALL DRIVE	294-093-11947	000819.05	819.05
PARENT BETTY J		242 FARMALL DRIVE	HINESBURG	VT	05461	242 FARMALL DRIVE	294-093-11948	000819.06	819.06
MCCAFFREY BECKY M		234 FARMALL DRIVE	HINESBURG	VT	05461	234 FARMALL DRIVE	294-093-11949	000819.07	819.07
PARROTT JAYSON H	CONSIGLI ALYSSA B	222 FARMALL DRIVE	HINESBURG	VT	05461	222 FARMALL DRIVE	294-093-11950	000819.08	819.08
JONES TRAVIS L	BILLADO DORIS J	200 FARMALL DRIVE	HINESBURG	VT	05461	200 FARMALL DRIVE	294-093-11951	000819.09	819.09
SEDIC NIJAZ JR	ABRAMOVIC DUBRAVKA	188 FARMALL DRIVE	HINESBURG	VT	05461	188 FARMALL DRIVE	294-093-11952	000819.10	819.1
LUCIER JOSHUA R	LUCIER KELLY	182 FARMALL DRIVE	HINESBURG	VT	05461	182 FARMALL DRIVE	294-093-11953	000819.11	819.11
HARLOW ROSWELL L III & CARRIE R		15 FREDRIC WAY	HINESBURG	VT	05461	15 FREDRIC WAY	294-093-11954	000819.12	819.12
MOLLER III WILLIAM & CATHERINE		21 FREDRIC WAY	HINESBURG	VT	05461	21 FREDRIC WAY	294-093-11955	000819.13	819.13
BUSCHER MICHAEL		33 FREDRIC WAY	HINESBURG	VT	05461	33 FREDRIC WAY	294-093-11956	000819.14	819.14
BUZZELL THOMAS E & STEPHANIE L		45 FREDRIC WAY	HINESBURG	VT	05461	45 FREDRIC WAY	294-093-11957	000819.15	819.15
KING LONNIE H	KING CALEN M	57 FREDRIC WAY	HINESBURG	VT	05461	57 FREDRIC WAY	294-093-11958	000819.16	819.16
TALLEY UTE S		69 FREDRIC WAY	HINESBURG	VT	05461	69 FREDRIC WAY	294-093-11959	000819.17	819.17
STEWART DOUGLAS A	STEWART JENNEE E	300 FARMALL DRIVE	HINESBURG	VT	05461	300 FARMALL DRIVE	294-093-11960	000819.18	819.18
TOMCZYK GREG		90 FREDRIC WAY	HINESBURG	VT	05461	90 FREDRIC WAY	294-093-11961	000819.19	819.19
HUNTER BRIAN D & JENNIFER L		78 FREDRIC WAY	HINESBURG	VT	05461	78 FREDRIC WAY	294-093-11962	000819.20	819.2

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KOSS FAMILY REVOCABLE TRUST	KOSS FRANK & DEBBIE TRUSTEES	64 FREDRIC WAY	HINESBURG	VT	05461	64 FREDRIC WAY	294-093-11963	000819.21	819.21
SLASON JONATHAN	LOVITZ SARAH B	56 FREDRIC WAY	HINESBURG	VT	05461	56 FREDRIC WAY	294-093-11964	000819.22	819.22
MCKENZIE SEAN	SAYLES SARA	36 FREDRIC WAY	HINESBURG	VT	05461	36 FREDRIC WAY	294-093-11965	000819.24	819.24
LEISE ANDREW W	LEISE NADINE	24 FREDRIC WAY	HINESBURG	VT	05461	24 FREDRIC WAY	294-093-11966	000819.25	819.25
WAINER JONATHAN RUSSELL		8 FREDRIC WAY	HINESBURG	VT	05461	8 FREDRIC WAY	294-093-11967	000819.26	819.26
ATKINS STEVEN J & LARA C		92 FARMALL DRIVE	HINESBURG	VT	05461	92 FARMALL DRIVE	294-093-11968	000819.27	819.27
WEBSTER JAMES B	WEBSTER KATE C	80 FARMALL DRIVE	HINESBURG	VT	05461	80 FARMALL DRIVE	294-093-11969	000819.28	819.28
LASHER PAUL & ALYSSA		68 FARMALL DRIVE	HINESBURG	VT	05461	68 FARMALL DRIVE	294-093-11970	000819.29	819.29
LYMAN DAVID	LYMAN DAVID F REVOCABLE TRUST	368 READ LANE W	ST ALBANS	VT	05478	ROUTE 116	294-093-11973	000819.32	819.32
BOSTWICK KYLE & ERIN		339 FARMALL DRIVE	HINESBURG	VT	05461	339 FARMALL DRIVE	294-093-11975	000819.34	819.34
MUNSON GEORGE LE	MUNSON KARLA LE	134 BUCK HILL ROAD WEST	HINESBURG	VT	05461	134 BUCK HILL ROAD WEST	294-093-11977	000984.5	984.5
STEVENS PAMELA G		207 FARMALL DRIVE	HINESBURG	VT	05461	207 FARMALL DRIVE	294-093-11978		819.034
MORTON BROGAN & JENNIFER		328 MECHANICSVILLE ROAD	HINESBURG	VT	05461	328 MECHANICSVILLE ROAD	294-093-11979	000059.62	59.62
CARLSON ROSS A	CARLSON AMY L	39 EVANSON ROAD	HINESBURG	VT	05461	39 EVANSON ROAD	294-093-11982	000063.2	63.2
TWAROG FRANCIS J	TWAROG LEE T	73 EVANSON ROAD	HINESBURG	VT	05461	73 EVANSON ROAD	294-093-11983	000063.4	63.4
EVANSON CONSTRUCTION		215 WESTWIND DRIVE	PLACIDA	FL	33946		294-093-11984	000063.5	63.5
FRIESEN BRADLEY & ELIZABETH		86 EVANSON ROAD	HINESBURG	VT	05461	86 EVANSON ROAD	294-093-11985	000063.6	63.6
CUDNEY KENNETH & JAMIE		48 EVANSON ROAD	HINESBURG	VT	05461	48 EVANSON ROAD	294-093-11987	000063.8	63.8
DYE MICHAEL	LITTLE JESSICA	247 FARMALL DRIVE	HINESBURG	VT	05461	247 FARMALL DRIVE	294-093-12031		819.038
ECHO KATE H LE		233 FARMALL DRIVE	HINESBURG	VT	05461	233 FARMALL DRIVE	294-093-12032		819.037
MAGLARIS GUY S & BOBBI-JO E		227 FARMALL DRIVE	HINESBURG	VT	05461	227 FARMALL DRIVE	294-093-12033		819.036
HADOW CLAUER FAMILY TRUST		5327 OAK HILL ROAD	ST GEORGE	VT	05495	213 FARMALL DRIVE	294-093-12034		819.035
ORVIS JANET		70 SILVER STREET UNIT #2	HINESBURG	VT	05461	70#2 SILVER STREET	294-093-12038		189.02
O'HORA SANDRA A		70 SILVER STREET UNIT #3	HINESBURG	VT	05461	70#3 SILVER STREET	294-093-12039		189.03
GOW NEALE		70 SILVER STREET UNIT #4	HINESBURG	VT	05461	70#4 SILVER STREET	294-093-12040		189.04
COSTELLO LEAH MCLANE	TALLMAN MICHAEL ALAN	325 FARMALL DRIVE	HINESBURG	VT	05461	325 FARMALL DRIVE	294-093-12042	000819.35	819.35
JACOBS DANIEL	JACOBS CHRISTINE	319 FARMALL DRIVE	HINESBURG	VT	05461	319 FARMALL DRIVE	294-093-12043	000819.36	819.36
BLANCK DOROTHY	BLANCK LIVING TRUST	305 FARMALL DRIVE	HINESBURG	VT	05461	305 FARMALL DRIVE	294-093-12044	000819.37	819.37
ROTH JENNIFER		293 FARMALL DRIVE	HINESBURG	VT	05461	293 FARMALL DRIVE	294-093-12045	000819.38	819.38
NIEBUR MICHAEL J	NIEBUR KRISTEN J	82 EVANSON RD	HINESBURG	VT	05461	82 EVANSON ROAD	294-093-12055	000063.27	63.27
KIMBALL AARON & KIMBERLY		PO BOX 495	HINESBURG	VT	05461	70#1 SILVER STREET	294-093-12057		189.01
POUECH PHILLIP R	CRAVEDI LIA	67 NEW SOUTH FARM RD	HINESBURG	VT	05461	67 NEW SOUTH FARM RD	294-093-12063	000984.11	984.11
WHITE JOHANNA W		101 NEW SOUTH FARM	HINESBURG	VT	05461	101 NEW SOUTH FARM RD	294-093-12064	000984.12	984.12
PASACKOW DAVID	PASACKOW HOLLY	103 NEW SOUTH FARM ROAD	HINESBURG	VT	05461	103 NEW SOUTH FARM ROAD	294-093-12065	000984.13	984.13
LOVELL MERRILY TRUSTEE		133 NEW SOUTH FARM ROAD	HINESBURG	VT	05461	133 NEW SOUTH FARM ROAD	294-093-12066	000984.14	984.14
MCNURLAN MARGARET		135 NEW SOUTH FARM RD	HINESBURG	VT	05461	135 NEW SOUTH FARM RD	294-093-12067	000984.15	984.15
KNIGHT BEVERLY J		126 NEW SOUTH FARM ROAD	HINESBURG	VT	05461	126 NEW SOUTH FARM RD	294-093-12068	000984.16	984.16
KONCEWICZ KONRAD		68 SILVER STREET #6	HINESBURG	VT	05461	68 SILVER STREET	294-093-12102		189.06
BROUGH MAUREEN		68 SILVER STREET UNIT #7	HINESBURG	VT	05461	68 SILVER STREET	294-093-12103		189.07
SKIFF ROBYN		68 SILVER STREET UNIT 8	HINESBURG	VT	05461	68 SILVER STREET	294-093-12104		189.08
FRASER STEPHANIE B		68 SILVER STREET UNIT #9	HINESBURG	VT	05461	68 SILVER STREET	294-093-12105		189.09
OJALA JEFFREY	LEBLANC JILLIAN	554 LAVIGNE HILL ROAD	HINESBURG	VT	05461	554 LAVIGNE HILL ROAD	294-093-12116	000898.4	898.4
MEADOW MIST LLC		PO BOX 368	HINESBURG	VT	05461	ROUTE 116	294-093-12117	000984.7	984.7
O'KANE SUSAN		193 THISTLE HILL DRIVE	HINESBURG	VT	05461	193 THISTLE HILL DRIVE	294-093-12159	000059.001	59.001

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GLOVER REVOCBLE TRUST	% GLOVER JEFFREY & MONICA	185 THISTLE HILL DRIVE	HINESBURG	VT	05461	185 THISTLE HILL DRIVE	294-093-12160	000059.002	59.002
SWETT WILLIAM W LIVING TRUST		173 THISTLE HILL DRIVE	HINESBURG	VT	05461	173 THISTLE HILL DRIVE	294-093-12161	000059.003	59.003
MACEYKA WAYNE B JR	ZACK JUDITH L	161 THISTLE HILL DRIVE	HINESBURG	VT	05461	161 THISTLE HILL DRIVE	294-093-12162	000059.004	59.004
JENSEN TRACI	SNYDER WADE	200 THISTLE HILL DRIVE	HINESBURG	VT	05461	200 THISTLE HILL DRIVE	294-093-12163	000059.005	59.005
HAVILAND SARAH		188 THISTLE HILL DRIVE	HINESBURG	VT	05461	188 THISTLE HILL DRIVE	294-093-12164	000059.006	59.006
MILLER JERRILYN LIVING TRUST		176 THISTLE HILL DRIVE	HINESBURG	VT	05461	176 THISTLE HILL DRIVE	294-093-12165	000059.007	59.007
CARLSON THOMAS Z & NANCY H		164 THISTLE HILL DRIVE	HINESBURG	VT	05461	164 THISTLE HILL DRIVE	294-093-12166	000059.008	59.008
WEISSE GAIL		142 THISTLE HILL DRIVE	HINESBURG	VT	05461	142 THISTLE HILL DRIVE	294-093-12167	000059.009	59.009
MILLER MEGHEN D		128 THISTLE HILL DRIVE	HINESBURG	VT	05461	128 THISTLE HILL DRIVE	294-093-12168	000059.010	59.01
ALLEN ERNEST III	MONAHAN DENA	120 THISTLE HILL DRIVE	HINESBURG	VT	05461	120 THISTLE HILL DRIVE	294-093-12169	000059.011	59.011
SCHAD TIMOTHY	SCHAD KATHERINE	92 THISTLE HILL DRIVE	HINESBURG	VT	05461	92 THISTLE HILL DRIVE	294-093-12170	000059.012	59.012
MCCOLLIN EDWARD	LACROIX LAINNIE M	78 THISTLE HILL DRIVE	HINESBURG	VT	05461	78 THISTLE HILL DRIVE	294-093-12171	000059.013	59.013
ZIGIC ZORAN & DZERALDINA		46 THISTLE HILL DRIVE	HINESBURG	VT	05461	46 THISTLE HILL DRIVE	294-093-12172	000059.014	59.014
THIBEAULT JAYNE MARIE REVOCABLE		34 THISTLE HILL DRIVE	HINESBURG	VT	05461	34 THISTLE HILL DRIVE	294-093-12173	000059.015	59.015
OUELLETTE JASON	EVARDI CHELSEA J	26 THISTLE HILL DRIVE	HINESBURG	VT	05461	26 THISTLE HILL DRIVE	294-093-12174	000059.016	59.016
BOARDMAN COLLEEN		P.O. BOX 515	HINESBURG	VT	05461	44 BARBERRY LANE	294-093-12175	000059.017	59.017
TURNER HEIDI B		32 BARBERRY LANE	HINESBURG	VT	05461	32 BARBERRY LANE	294-093-12176	000059.018	59.018
HERSKOWITZ CHRISTIANE		26 BARBERRY LANE	HINESBURG	VT	05461	26 BARBERRY LANE	294-093-12177	000059.019	59.019
BERTIN GIANETTA		14 BARBERRY LANE	HINESBURG	VT	05461	14 BARBERRY LANE	294-093-12178	000059.020	59.02
KAYE JULIE		35 ELDERBERRY LANE	HINESBURG	VT	05461	35 ELDERBERRY LANE	294-093-12179	000059.021	59.021
AMBUSK GLENN & MARIE		25 ELDERBERRY LN	HINESBURG	VT	05461	25 ELDERBERRY LANE	294-093-12180	000059.022	59.022
BANGSUND LEE J & DEBRA A		28 ELDERBERRY LANE	HINESBURG	VT	05461	28 ELDERBERRY LANE	294-093-12181	000059.023	59.023
BARBIC HEIDI E	MEAD RALPH A	20 ELDERBERRY LANE	HINESBURG	VT	05461	20 ELDERBERRY LANE	294-093-12182	000059.024	59.024
LONER MICHAEL C	LONER VICTORIA E	8 ELDERBERRY LANE	HINESBURG	VT	05461	8 ELDERBERRY LANE	294-093-12183	000059.025	59.025
GREEN STREET LLC		PO BOX 220	HINESBURG	VT	05461	CHARLOTTE ROAD	294-093-12190	000803.001	803.001
10802 ROUTE 116 LLC		191 WINDROW LANE	HINESBURG	VT	05461	10802 ROUTE 116	294-093-12199	001191	119.1
LOT 31 ASSOCIATION INC		319 FARMALL DRIVE	HINESBURG	VT	05461	FARMALL DRIVE	294-093-12260	001738	1738
LANDRY JACQUES	LANDRY LISA	89 GREEN STREET	HINESBURG	VT	05461	89 GREEN STREET	294-093-12266	001191	1191.101
CELLARS JEFFREY	CELLARS BETHANNE	87 GREEN ST	HINESBURG	VT	05461	87 GREEN STREET	294-093-12267	001191	1191.103
HINESBURG CENTER LLC		32 SEYMOUR ST	WILLISTON	VT	05495	10212 ROUTE 116	294-093-12268	000819.321	819.321
HINESBURG CENTER LLC		32 SEYMOUR ST	WILLISTON	VT	05495	10212 ROUTE 116	294-093-12276	000819.322	819.322
PBG HINESBURG LLC		32 SEYMOUR ST	WILLISTON	VT	05495	10240 ROUTE 116	294-093-12279	000819.323	819.323
BOULANGER DAVID B	BOULANGER ANDREA J	15 THISTLE HILL DRIVE	HINESBURG	VT	05461	15 THISTLE HILL DRIVE	294-093-12289	000059.026	59.026
THOMPSON KENNETH CO-TRUSTEE	THOMPSON CONNIE S CO-TRUSTEE	31 THISTLE HILL DRIVE	HINESBURG	VT	05461	31 THISTLE HILL DRIVE	294-093-12290	000059.027	59.027
SOQUET JULIE TRUST	SOQUET JULIE TRUSTEE	53 THISTLE HILL DRIVE	HINESBURG	VT	05461	53 THISTLE HILL DRIVE	294-093-12291	000059.028	59.028
BRUNETTO CHARLES	BRUNETTO EILEEN	17 BARBERRY LANE	HINESBURG	VT	05461	17 BARBERRY LANE	294-093-12292	000059.029	59.029
SABENS ELIZABETH A TRUSTEE	SABENS ELIZABETH A FAMILY TRUST	25 BARBERRY LANE	HINESBURG	VT	05461	25 BARBERRY LANE	294-093-12293	000059.030	59.03
VANNUCCI ANN MARIE	LAMOTHE SCOTT W	41 BARBERRY LANE	HINESBURG	VT	05461	41 BARBERRY LANE	294-093-12294	000059.031	59.031
DUPRAS STEPHANIE R		16 LILAC LANE	HINESBURG	VT	05461	16 LILAC LANE	294-093-12295	000059.032	59.032
LAGROW JASON	LAGROW AMBER	28 LILAC LANE	HINESBURG	VT	05461	28 LILAC LANE	294-093-12296	000059.033	59.033
JENSEN DAVID B	JENSEN JEANNE M	41 LILAC LANE	HINESBURG	VT	05461	41 LILAC LANE	294-093-12297	000059.034	59.034
WHEELER MATTHEW M	WHEELER AMANDA R	33 LILAC LANE	HINESBURG	VT	05461	33 LILAC LANE	294-093-12298	000059.035	59.035

Owner1	Owner2	Address	City	State	Zip	e911 Address	SPAN	MAPID	PARCID
THOMPSON FAMILY TRUST	STANNARD DANIEL J THOMPSON ANN M TRUSTE	17 LILAC LANE	HINESBURG	VT	05461	17 LILAC LANE	294-093-12299	000059.036	59.036
GREEN ACRES SOLAR PARTNERS LLC		1042 DORSET STREET	CHARLOTTE	VT	05445	RIGGS ROAD	294-093-12305	000850.94	850.94
PBG HINESBURG LLC		32 SEYMOUR STREET	WILLISTON	VT	05495	FARMALL DRIVE	294-093-12313	000819.324	819.324
PBG HINESBURG LLC		32 SEYMOUR STREET	WILLISTON	VT	05495	52 FARMALL DRIVE	294-093-12314	000819.325	819.325
PBG HINESBURG LLC		32 SEYMOUR STREET	WILLISTON	VT	05495	30 KAILEY'S WAY	294-093-12319	000819.326	819.326
CREEKSIDE INVESTMENTS LLC	C/O BRET GRABOWSKI	32 SEYMOUR STREET	WILLISTON	VT	05495	FARMALL DRIVE	294-093-12321	001739	1739
LAFORCE DEAN	LAFORCE PATRICIA J	345 LAVIGNE HILL ROAD	HINESBURG	VT	05461	345 LAVIGNE HILL ROAD	294-093-12338	000206.2	206.2
GREEN STREET LLC		PO BOX 220	HINESBURG	VT	05461	91 GREEN STREET	294-093-12342	001191.102	1191.102
EFG ENTERPRISES LLC		PO BOX 587	HINESBURG	VT	05461	10298 ROUTE 116	294-093-12354	000508.100	508.1
THERRIEN ROBERT		149 HAWK LANE	HINESBURG	VT	05461	154 HAWK LANE	294-093-12359	000641.11	641.11
LASTER JOSEPH		1139 LANIER BLVD NE	ATLANTA	GA	30306	MECHANICSVILLE ROAD	294-093-12365	000625.1	625.1
BAKER WILLIAM H III		PO BOX 331	HINESBURG	VT	05461	10775 ROUTE 116	294-093-12402		1718.1

Notes:

Created using a GIS overlay of 2020 Tax Parcel data that has been joined to 2020 Grand List data and the Well 6 SPA data.

Town Properties are not included

Duplicate enteries are landowners who own

St George Property Owners Located in Hinesburg Wells 4 and 5 SPA

Span #*	Lot #	Name	Address	Town	State	Zip
10131	1010	Catherine Neff	580 Mount Pritchard Lane	St. George	VT	05495
10291	1244	Donald Taub	483 Mount Pritchard Lane	St. George	VT	05495
10232	1239	David R. Park Jr. Revocable Trust	405 Mount Pritchard Lane	St. George	VT	05495
10312	1245	Robert Walker	235 Mount Pritchard Lane	St. George	VT	05495

Notes: *Span Numbers begin with 555-175.

Town of Hinesburg - Wells 4 and 5 Source Water Protection Area - NEW Landowners Only

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
GLOBAL MONTELLO GROUP CORP		800 SOUTH STREET, SUITE 500	WALTHAM	MA	02453	17 BALLARDS CORNER ROAD	294-093-10072
BIRD JACK R	BIRD SHERRI L	8713 ROUTE 116	HINESBURG	VT	05461	8713 ROUTE 116	294-093-10136
HINESBURG COMMUNITY RESOURCE CENT		51 BALLARDS CORNER ROAD	HINESBURG	VT	05461	51 BALLARDS CORNER ROAD	294-093-10242
CONLEY NICOLE		119 PLEASANT VIEW LANE	HINESBURG	VT	05461	119 PLEASANT VIEW LANE	294-093-10331
RILEY JESSICA C	LANDEY DAVID	9701 VT ROUTE 116	HINESBURG	VT	05461	9701 ROUTE 116	294-093-10431
KNIGHT JEFFREY		17439 1ST STREET E	ST PETERSBURG	FL	33708	570 CHARLOTTE ROAD	294-093-10473
RAYMOND EMILY S	RAYMOND SCOTT	84 RICHMOND ROAD	HINESBURG	VT	05461	84 RICHMOND ROAD	294-093-10521
LITTLEFIELD SABEN & KATHERINE	HOUSTON CINDY LEE	429 RICHMOND RD	HINESBURG	VT	05461	429 RICHMOND ROAD	294-093-10608
WHITE ALEXANDER D		384 CVU ROAD	HINESBURG	VT	05461	384 C.V.U. ROAD	294-093-10736
CACCIATORE LORI		178 RICHMOND ROAD	HINESBURG	VT	05461	178 RICHMOND ROAD	294-093-10784
JOLLEY ASSOCIATES		PO BOX 671	ST ALBANS	VT	05478	21 COMMERCE STREET	294-093-10827
HORTON AUDREY L REV TRUST		108 PLACE ROAD EAST UNIT B	HINESBURG	VT	05461	108 PLACE ROAD EAST	294-093-10829
KENDALL CONSTANCE R	TAUB DONALD R	483 MT PRITCHARD LANE	ST GEORGE	VT	05495	POND ROAD	294-093-10847
HUNT COLIN		195 PLACE ROAD WEST	HINESBURG	VT	05461	195 PLACE ROAD WEST	294-093-10899
GOETZ REBECCA		735 RICHMOND ROAD	HINESBURG	VT	05461	735 RICHMOND ROAD	294-093-10974
KINVILLE PATRICK	BOLLER KATHERINE	462 RICHMOND ROAD	HINESBURG	VT	05461	462 RICHMOND ROAD	294-093-10975
BROWN BENJAMIN D	BROWN ABIGAIL R	343 PARTRIDGE HILL ROAD	HINESBURG	VT	05461	343 PARTRIDGE HILL	294-093-10989
GERARDI MICHAEL S	GERARDI GEMMA K	87 CRAIGY LANE	HINESBURG	VT	05461	87 CRAIGY LANE	294-093-11090
104 BALLARDS CORNER LLC		83 WHITETAIL RIDGE	HINESBURG	VT	05461	104 BALLARDS CORNER ROAD	294-093-11112
COMMUNITY BANK N.A.	ATTN: FACILITIES DEPT.	275 KENNEDY DRIVE	SOUTH BURLING	VT	05403	26 BALLARDS CORNER ROAD	294-093-11115
MICHAELIDES IOANNIS		3 TWIN BROOK CT	SO BURLINGTON	VT	05403-592	BALLARDS CORNER ROAD	294-093-11122
BORIE FAMILY TRUST		678 POND ROAD	HINESBURG	VT	05461	678 POND ROAD	294-093-11162
PLACE REVOCABLE LIVING TRUST	PLACE HILTON TRUSTEE	187 SUGAR HOUSE LANE	HINESBURG	VT	05461	187 SUGAR HOUSE LANE	294-093-11335
NEWTON KATHLEEN R REV TRUST	NEWTON DAVID & KATHLEEN TRUSTEES	165 SUGAR HOUSE LANE	HINESBURG	VT	05461	9303 ROUTE 116	294-093-11337
POWERS JOHN	POWERS ALISON	125 PLACE ROAD EAST	HINESBURG	VT	05461	125 PLACE ROAD EAST	294-093-11430
NELLE JORDAN E		9432 ROUTE 116	HINESBURG	VT	05461	9432 ROUTE 116	294-093-11478
GODBOUT THOMAS E		915 EAST ROAD	COLCHESTER	VT	05446	POND ROAD E/S	294-093-11535
BAILEY GARRETT P		9037 ROUTE 116	HINESBURG	VT	05461	9037 ROUTE 116	294-093-11700
MCELWAIN QUINN		43 LATHAM COURT	BURLINGTON	VT	05401	149 SHELBURNE FALLS ROAD	294-093-11742
WEBSTER THERON	C/O CARRIE CARTER	687 PRAIRIE ROAD	DERBY LINE	VT	05830	1285 POND ROAD	294-093-11760
PAQUET JACQUELEEN E	DEUTL GRAHAM F	9 MAPLE TREE LANE	HINESBURG	VT	05461	9 MAPLE TREE LANE	294-093-11767
ASH KRISTIAN J	KAVANACH LISA M	331 WINDSWEPT WAY	HINESBURG	VT	05461	331 WINDSWEPT WAY	294-093-11779
OWEN DAVID N	OWEN KATE B	12 LOMEADOW ROAD	HINESBURG	VT	05461	12 LOMEADOW ROAD	294-093-11976
VERNET CODY		97 BITTER SWEET HILL	HINESBURG	VT	05461	97 BITTER SWEET HILL	294-093-11988
COMMUNITY ALLIANCE CHURCH		PO BOX 582	HINESBURG	VT	05461	244 POND ROAD	294-093-12252

Town of Hinesburg - Wells 4 and 5 Source Water Protection Area - NEW Landowners Only

OWNER1	OWNER2	ADDRGL1	CITYGL	STGL	ZIPGL	E911ADDR	GLIST_SPAN
USHER FAMILY TRUST	USHER KARL & SAMANTHA TRUSTEES	88 CRAIGY LANE	HINESBURG	VT	05461	88 CRAIGY LANE	294-093-12264
WHEELER BRUCE		779 EAST NHILL ROAD	WOLCOTT	VT	05680	WINDSWEPT WAY	294-093-12401

Created using a GIS overlay of 2020 Tax Parcel data that has been joined to 2020 Grand List data and the Well 6 SPA data.
Town Properties are not included
Duplicate enteries are landowners who own multiple parcels.

APPENDIX G

Sample Letter to Property Owners

Town of Hinesburg Water Department

10632 VT Route 116 Hinesburg, Vermont 05461

March 31, 2022

Dear Neighbor,

Between 2014 and 2019 the Town of Hinesburg drilled three new bedrock supply wells, namely Wells 4, 5 and 6. These wells are the primary sources of the Town's municipal water system. As required by the State of Vermont we have developed a **Source Protection Plan (SPP)**, with the purpose of protecting the quality and quantity of these three sources. As part of this SPP, we have delineated the surface and subsurface areas from which contaminants are considered to be reasonably likely to reach our wells. This land area is referred to as the **Source Protection Area (SPA).** A map showing the location of the SPAs is available at http://www.hinesburg.org. We are sending this letter to all property owners located within the SPAs.

Your property (or part of it) is located within one of our SPAs; therefore, the activities that you conduct on your property could potentially affect the quality of our water. For example, anything that is disposed of on the ground could potentially enter the groundwater and thus impact our water supply. Be mindful of this when disposing household wastes, changing oil in your car or tractor, and maintaining equipment. Please do not put hazardous materials down sinks, toilets, or drains. Avoid or minimize application of pesticides and herbicides to lawn and gardens.

If you have an on-site septic system, please see the fact sheet online at http://www.hinesburg.org for tips on how to best care for your system.

If you have a fuel oil storage tank (either above ground or underground) on your property take a look at the online flyer "Think Oil and Water" at http://www.hinesburg.org. Avoid spills and over filling of the tank, and inspect the area around the tank at least once a week for obvious signs of leakage. If it is an older underground storage tank, consider replacing it with an above ground tank, or a doubled walled tank. If you have an above ground tank, make sure it is secure and on a poured concrete surface. It should also be under a roof and protected from the weather. If you notice a release, please notify the Town of Hinesburg at (802) 482-2281.

A complete copy of the **SPP** is available at the Hinesburg Town Hall, 10632 VT 116, Hinesburg, Vermont (802) 482-2281.

If you have questions or want further information, please contact me at (802)482-6097.

Sincerely,

John Alexander

Assistant Chief Operator

APPENDIX H

Summary Table of Active USTs
SMAC Letters for Closed Hazardous Waste Sites

Underground Storage Tanks in Wells 4 & 5 SPA

TankID	FacilityID	NAME	TankStatus	TankCapacity	YearInstalled	LastInspDate	Address
17052	4822070	Hinesburg Jiffy Mart #446	ACTIVE	10000		10/10/2012	17 Ballard's Corner Road
17051	4822070	Hinesburg Jiffy Mart #446	ACTIVE	15000		10/10/2012	17 Ballard's Corner Road
17053	4822070	Hinesburg Jiffy Mart #446	ACTIVE	15000		10/10/2012	17 Ballard's Corner Road

Underground Storage Tanks in Well 6 SPA

TankID	FacilityID	NAME	TankStatus	TankCapacity	Year Installed	Address
16946	2486	Hinesburg Jolley	ACTIVE	2000	1995	Route 116 and 21 Commerce Road
17157	2486	Hinesburg Jolley	ACTIVE	25000	2011	Route 116 and 21 Commerce Road
7901	242	Hinesburg Elementary School	ACTIVE	10000	1998	10888 Route 116
18280	1487	Hart & Mead Texaco	ACTIVE	12000		10919 Route 116
10946	1487	Hart & Mead Texaco	ACTIVE	10000	1988	10919 Route 116

VERMONT

AGENCY OF NATURAL RESOURCES

State of Vermont
Department of Environmental Conservation
Waste Management & Prevention Division
1 National Life Drive – Davis 1
Montpelier, VT 05620-3704
matt.moran@vermont.gov

October 13, 2017

Mr. Adam Bunting, Principal
Champlain Valley Union High School
369 CVU Road
Hinesburg, Vermont 05461

RE: Site Management Activity Completed, Champlain Valley Union High School, 369 CVU Road, Hinesburg (SMS Site #94-1618)

Dear Mr. Bunting:

The Sites Management Section (SMS) has conducted a review of the above referenced site file to determine if the site is eligible for a Site Management Activity Complete (SMAC) designation. Information contained in the site file includes:

- On May 11, 1994, petroleum odors were noted within the cafeteria of the Champlain Valley Union (CVU) High School. A 10,000-gallon #2 fuel oil underground storage tank (UST) was located adjacent to the cafeteria and was the suspected source of the petroleum odor.

- On May 12, 1994, Atlantic Testing Labs, Ltd. conducted tightness on the UST and product supply and return lines. Results indicated that the UST was sound, but the piping failed tightness testing. The UST piping was exposed on May 13, 1994, and was found to be contained within a clay pipe conduit. The clay pipe was accidentally broken during excavation and a small amount of fuel oil escaped the piping and entered the soils surrounding the UST. A faulty joint in the fuel line was observed and determined to be the source of the release of fuel oil.

- On June 20, 1994, ATC Environmental, Inc. (ATC) oversaw the advancement of one test pit and one soil boring in the vicinity of the UST. Soil samples were collected from the test pit for field screening of volatile organic compounds (VOCs) utilizing a photoionization detector (PID). Elevated PID reading up to 60 parts per million by volume (ppmv) were observed in soils at depths up to 6 feet below ground surface (bgs) around the UST piping breach. Field screening results from a soil sample collected at 12.5 feet bgs were non-detect for VOCs. Groundwater was not encountered in the test pit to a depth of 12.5 feet bgs. Approximately four cubic yards of petroleum contaminated soil (PCS) were excavated and placed in a polyencapsulated stockpile on the CVU property. The soil boring was advanced through the school basement concrete slab to a depth of 2.5 feet below slab grade. Soil screening results from the boring were non-detect, and groundwater was not encountered.

- One of two of the CVU public water supply wells is located inside the school near the UST emplacement. Upon discovery of the #2 fuel oil release, this well was isolated from the CVU water supply and a sample was collected for laboratory analysis of VOCs in August 1994. Results of drinking water sample analysis were non-detect.

- Semi-annual sampling of the isolated supply well was completed in 1995. Results from the February 1995 sampling event were non-detect for VOCs. Results of the September 1995 event revealed low levels of petroleum-related VOCs at concentrations below Vermont Groundwater Enforcement

Standards and Maximum Contaminant Levels for drinking water supplies. Of significance, the field blank collected concurrent with the September water supply sample contained VOC concentrations, and cross contamination during sampling was suspected. In response to the September 1995 drinking water sample results, the SMS requested quarterly drinking water sampling be performed in 1996.

- At some time in 1995, ATC performed field screening of the PCS stockpile. Reportedly, no petroleum odors were observed and soil sample PID screening results were non-detect. In November 1995, CVU personnel supplied a letter to the SMS detailing the thinspreading of approximately four cubic yards of PCS in areas on the CVU property.

- The requested quarterly drinking water supply sampling program was not initiated in 1996. During renovations to the CVU property in 2000, a connection to the municipal water supply was made and public consumption of drinking water supplied from both the on-site wells was discontinued. The wells remain operable for use in watering athletic fields on the CVU property.

- In August 2013, the UST was removed from the CVU property as part of the school's conversion to a natural gas heating source. The Verterre Group completed an environmental assessment during UST closure. No additional releases of fuel oil were observed as evidenced by non-detect soil sample PID screening results.

- On October 13, 2013, ATC collected a sample from the CVU supply well for laboratory analysis. Results of the sampling event were non-detect for petroleum-related VOCs.

- A sensitive receptor evaluation was performed during the investigation into the petroleum odors noted in the CVU cafeteria in 1994. Indoor air within the cafeteria was initially impacted based on PID screening results up to 5.0 ppmv. Mitigation of petroleum vapor intrusion was completed by covering air vents within the cafeteria and the removal of approximate four cubic yards of PCS. Potential drinking water impacts were evaluated through analytical sampling, and ultimately any exposure to petroleum contaminated drinking water was mitigated by connection to the municipal water supply in 2000.

The SMS believes that no unacceptable risk to human health or the environment remains at this site related to the release of #2 fuel oil from the former UST system. Based on the above, the SMS is assigning the CVU High School property a 'Site Management Activity Completed' (SMAC) designation. The SMAC designation does not release the owner and/or operators (past, present, or future) from any past or future environmental liability associated with residual contamination from the identified release or from any contamination discovered after the site receives this designation. It also does not mean that the site is free of contamination or absent of other environmental issues. However, this designation does mean that the SMS is not requesting any additional work at this time related to the release of #2 fuel oil identified in May 1994.

Please feel free to call either myself or James Donaldson at (802) 828-1138 if you have any questions.

Sincerely,

Matt Moran, Section Chief
Site Management Section

c: Robert Montgomery, ATC Group Services, LLC.
DEC Regional Office
Hinesburg Select Board
Hinesburg Health Officer

VERMONT

AGENCY OF NATURAL RESOURCES

State of Vermont
Department of Environmental Conservation
Waste Management & Prevention Division
103 South Main Street/West Building
Waterbury, VT 05671-0404
(802) 241-3888
chuck.schwer@state.vt.us

June 25, 2012

Mr. Gary Benjamin
Ben's Sandwiches
73 Charlotte Rd.
Hinesburg, VT 05482

RE: Site Management Activity Completed, Ben's Sandwiches, 73 Charlotte Rd., Hinesburg, VT (SMS Site #2011-4211)

Dear Mr. Benjamin,

The Sites Management Section (SMS) has received Closure Assessment Report for the above referenced site, which was submitted by the Verterre Group and dated April 23, 2012. Subsurface contamination was encountered at this site during the removal of a heating oil UST. Based on the information presented in the report, we have made the following conclusions:

- On September 9, 2011, a 1,000-gallon #2 heating oil UST was closed in place at the site. The tank was found to be in poor condition, with significant corrosion and holes noted in the tank cavity. Soils surrounding the tank were screened for volatile substances using a photoionization detector (PID) and had readings up to 280 parts per million (ppm). This reading was recorded in a soil boring advanced adjacent to the UST. Groundwater was present at a depth of 7 feet below grade. The full extent of contamination was not determined.

- On November 18, 2011, Verterre was onsite to install six soil borings in the vicinity of the former UST. During this process, soils were screened for volatile substances using a photoionization detector (PID) and no readings were detected above 1 part per million (ppm). All soil borings were developed into groundwater monitoring points. Groundwater samples were collected from the six onsite monitoring wells (MW-1 through MW-6) and analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). VOCs were not detected in any of the wells above the minimum laboratory detection levels. Low TPH concentrations were recorded in MW-2, MW-4 and MW-5.

- A survey of sensitive receptors was conducted as part of the site investigation work. This property is and surrounding properties are served by the municipal drinking water system. There does not appear to be a significant impact to the shallow groundwater table at this property. Residual soil contamination should diminish over time.

- The six monitoring wells at the property were closed on April 17, 2012.

- No unacceptable risk to human health or the environment is believed to be present due to any residual contamination remaining at the site from the former heating oil UST.

OVER→

Based on the above, the SMS is assigning this property a Site Management Activity Completed (SMAC) designation. The SMAC designation will not release the owner(s) of the property from any past or future liability associated with the petroleum contamination at the site. It does, however, mean that the SMS is not requesting any additional work in response to the contamination discovered during the closure of the UST in 2011.

Please feel free to call myself or Ashley Desmond of the SMS at (802) 241-3888 if you have any questions.

Sincerely,

Chuck Schwer, Section Chief
Site Management Section

c: Martha Roy, Verterre Group
DEC Regional Office
Hinesburg Town Selectboard
Hinesburg Health Officer

State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICE FOR THE HEARING IMPAIRED
1-800-253-0191 TDD>Voice
1-800-253-0195 Voice>TDD

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Waste Management Division
103 South Main Street / West Building
Waterbury, Vermont 05671-0404
(802) 241-3888
FAX (802) 241-3296

February 28, 2000

PETER TRONO
EASTWIND CONDOMINIUM ASSOCIATION
8 CHASE LANE
BURLINGTON, VERMONT 05401

RE: Site Management Activity Completed, Eastwind Condominiums, SMS Site #99-2669
Hinesburg, Vermont

Dear Mr. Trono:

The Sites Management Section (SMS) has reviewed the February 22, 2000 report titled, *"January 2000 Groundwater Monitoring Report, Eastwind Condominiums, 447 Mechanicsville Road, Hinesburg, Vermont"* prepared by Griffin International for work conducted at the above referenced site. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- During the August 1999 removal of two 4,000 gallon heating oil underground storage tanks (USTs), contaminated soil was observed. The soil encountered, was sand and fine gravel surrounding the USTs underlain by clay. Groundwater was found at a depth of 7'. No volatile organic compounds (VOCs) were detected above SMS guidelines at the south fuel oil UST. Additional investigation at the north UST was required.

- On October 21 four groundwater monitor wells were installed in order to evaluate potential contamination related to the north UST. Sandy silt above clay was observed from grade to 12' below the ground surface (bgs). No VOC levels, as measured by a photoionization detector (PID), were noted above 1 ppm during monitor well MW-1, -3, and -4 installation. The maximum PID reading at MW-2, the tank grave monitor well, was 10 ppm at 2-2.5' bgs. PID readings decreased with increasing depth.

- On October 28, MW-1 to -4 were sampled for VOCs via EPA 8021B. In MW-2 1,2,4-trimethylbenzene (16.6 µg/L), 1,3,5-trimethylbenzene (11.9 µg/L), and

over

naphthalene (56.6 µg/L) were noted above the Vermont Groundwater Enforcement Standards (VGES). Naphthalene (2.8 µg/L) was noted in MW-1 below the VGES. MTBE was noted in MW-4 (11.0 µg/L) below the VGES; this is not a heating oil component and was attributed to surface gasoline spills in the parking lot adjacent to the building. Total petroleum hydrocarbons at 56.5 mg/L were noted in MW-2. No quantifiable levels of target petroleum compounds were found in MW-3.

- Follow up groundwater sampling was performed on January 31, 2000 and contaminant levels had decreased considerably. In MW-2, 1,2,4-trimethylbenzene (5.7 µg/L) and 1,3,5-trimethylbenzene (6.1 µg/L) were noted above the VGES; naphthalene (18.2µg/L) was below the VGES. Trace concentrations of MTBE below the test quantitation limit were found in MW-1 and -4. No detectable levels of target petroleum compounds were found in MW-3.

- The site buildings and the neighboring buildings have municipal water service, which is not at risk from contamination. The water line was considered a potential preferential pathway for contaminant migration, however due to the relatively low concentrations, this was not considered a significant risk. Groundwater flow direction is toward the Patrick Brook, approximately 160' west. The site buildings are up-gradient, of slab on grade construction, and at low risk for soil vapor infiltration. No other sensitive receptors were identified by Griffin.

- Residual contamination in the soil and groundwater associated with the UST removals was shown to be confined to the subject property. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed USTs.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release the Eastwind Condominiums Association of any past or future liability associated with the petroleum contamination remaining onsite. It does, however, mean that the SMS is not requesting any additional work in response to the August 1999 UST removals.

If the monitoring wells are no longer used or maintained, then they must be properly closed to eliminate possible conduits for contaminant migration into the subsurface. This closure typically involves filling the wells with a grout material to prevent fluid migration in the borehole. Specific requirements for well closure are outlined in Section 12.3.5 in Appendix A of the Vermont Water Supply Rule-Chapter 21.

Please feel free to call with any questions.

Sincerely,

George Desch, Chief, P.E.
Sites Management Section

CC: Hinesburg Selectboard
Hinesburg Health Officer
DEC Regional Office
Christine Ward, Griffin International

D:\MyFiles\site files, active\Eastwind Condos\Eastwind.SMAC.wpd

State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
•Waste Management Division
103 South Main Street/West Office
Waterbury, Vermont 05671-0404
(802) 241-3888
FAX (802) 241-3296

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICE FOR THE HEARING IMPAIRED
1-800-253-0191 TDD>Voice
1-800-253-0195 Voice>TDD

February 2, 2001

GTE North, Inc.
Mr. Mike Burnet
850 Harrison Street Ext.
Johnstown, New York 12095

RE: Site Management Activity Completed, GTE Hinesburg, (SMS Site # 93-1518), Hinesburg, Vermont

Dear Mr. Parkin:

The Sites Management Section (SMS) has completed a file review, for the above referenced site, referencing the contamination discovered during the removal of 1 diesel fuel underground storage tank (UST) at GTE Hinesburg, Route 116, Hinesburg, Vermont. With this information the SMS can now make the following conclusions:

- On November 11, 1993, petroleum contaminated soils were encountered during the removal of a 500 gallon diesel fuel underground storage tank (UST).
- During site activities, approximately 3.5cubic yards of contaminated soil with photoionization (PID) levels up to 7.1 parts per million (ppm) were removed from the excavation and polyencapsulated on-site
- Two soil samples were submitted for laboratory analysis. The analysis indicated little impact to the soils below the UST.
- The SMS, in a letter dated December 28, 1993, gave permission for the soils to be thin-spread on site when there was no measurable contamination.
- In a letter dated July 19, 1994, Maxymillian Technologies , a Class A Soil Recycling Facility, of North Adams, MA.,confirmed that they had received the soils from the GTE Hinesburg site.
- No unacceptable risk to human health and the environment is present due to the residual contamination remaining in the ground from the contaminated soils encountered during the removal of the diesel fuel UST from the GTE Hinesburg site in November of 1993.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC)designation. This SMAC designation will not release you from any past or future liability associated with the petroleum contamination at the site. It does, however, mean the SMS is not requesting any additional work in response to the UST removal from the GTE Hinesburg site in November of 1993.

We are here to help make this process as effective and uncomplicated as possible. Please call me with any questions you may have. I can be reached at (802) 241-3491.

Sincerely,

George Desch, Chief, P.E.
Sites Management Section

cc: Hinesburg Select Board w/o enclosure
Hinesburg Health Officer w/o enclosure
DEC Regional Office w/o enclosure
David Rydelek, C.T. Male Associates

State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Waste Management Division
103 South Main Street / West Building
Waterbury, Vermont 05671-0404
802-241-3888
fax: 802-241-3296

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
RELAY SERVICE FOR THE HEARING IMPAIRED
1-800-253-0191 TDD>Voice
1-800-253-0195 Voice>TDD

February 24, 2000

Mark Bouvier
Chittenden South School District
RR3, Box 161
Hinesburg, VT 05461

RE: Site Management Activity Completed (SMAC) at Hinesburg Elementary School, Hinesburg
SMS Site #982370

Dear Mr. Bouvier:

The Sites Management Section (SMS) has reviewed ATC's letter dated December 17, 1999, regarding the soil pile monitoring for the Hinesburg Elementary School. ATC is requesting a Site Management Activity Designation for this site. Based on historical information and the information provided in this report, the SMS makes the following conclusions:

- In 1998, two underground storage tanks (USTs) storing fuel oil were removed from the property. Approximately 50 cubic yards of contaminated soils were excavated and stockpiled at the Hinesburg Town Garage. Additional work was requested to determine the degree and extent of contamination.
- Several rounds of water quality samples have been collected from onsite monitoring wells to determine the presence of petroleum compounds. The most recent rounds of water quality sampling reveals that groundwater enforcement standards are met on the property. Screening of the soil pile with a PID has revealed non-detect (< 1 ppm) readings. Soil samples collected for laboratory analysis has also revealed no detectable levels of petroleum compounds. Indoor air screening in the school building also revealed no detectable levels of contamination.
- The property has been evaluated with respect to petroleum contamination from the former fuel oil USTs.
- This site does not pose an unacceptable threat to human health and the environment.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This designation means that based on the information you have submitted, the SMS is not aware of any threat to human health or the environment presented at this site. In making this determination, the SMS is not certifying that the property is free of contamination that may have occurred or may still be present due to other activities on the site that have not been evaluated or identified. This designation means that based on the information you have submitted and the actions you have taken, the SMS has determined that you do not need to perform any additional remedial or investigative work on this site. Any additional information which may come to light in the future may be cause for reconsideration of this decision.

The stockpiled soils can be thinspread onsite at the town garage. If the soils are not thinspread onsite, then approval must be granted by the SMS prior to thinspreading or disposal at an offsite location. In addition, if the monitoring wells are no longer used or maintained, then they must be properly closed to eliminate a possible conduit for contaminant migration into the subsurface. This closure typically involves filling in the well with a grout material to prevent fluid migration in the borehole. Specific requirements for well closure are outlined in Section 12.3.5 in Appendix A of the Vermont Water Supply Rule-Chapter 21. Also, the road box or stand-up well guard for a monitoring well must be removed before well closure is considered complete.

If you have any questions, then please feel free to contact Linda Elliott or myself.

Sincerely,

George Desch, Chief
Sites Management Section

c: John Simone, ATC

gd:le\sites\hinesburg\smacltr.feb2000

VERMONT

State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Building
Waterbury, VT 05671-0404
(802) 241-3888
FAX (802) 241-3296
Chuck.Schwer@state.vt.us

January 20, 2012

Doug Nedde, Partner
Redstone
210 College Street
Burlington, Vermont 05401

RE: Site Management Activity Completed Designation
Former Saputo Cheese, Hinesburg, Vermont (SMS Site #1991-1017)

Dear Mr. Nedde:

The Sites Management Section (SMS) has reviewed the information contained in our file for the above referenced site. The file contains reports and information describing the investigation and cleanup actions completed in response to several release events and the subsequent environmental impacts resulting from these releases.

Based on the information we have received, the following conclusions have been made:

- December of 1997 two underground storage tanks (USTs) were removed: a 9,000 gallon tank used for both No. 4 and No. 6 fuel oil and a 10,000 gallon No. 4 fuel oil UST. At that time an abandoned 5,000 gallon fuel oil UST (unknown product grade) was confirmed to be closed in place. Approximately 400 tons of petroleum contaminated soils were removed from around these tanks and transported for disposal at ESMI soil treatment facility in Loudon, New Hampshire.

- In April of 1991 petroleum contaminated soils were encountered during a site construction excavation. These soils were located in an area approximately 100' south of the Patrick Brook spillway and immediately west of Vermont Route 116. Both gasoline and fuel oil contaminated soils were removed at this time and were successfully treated on site by polyencapsulation and landfarming, respectively. Following treatment they were thin spread on site.

- With respect to the gasoline contaminated soil, the Hinesburg Fire Chief (also a former employee) stated that there was a gasoline UST onsite in the 1970's and possibly the early 1980's, but believed it had been removed. No documentation is available for the existence of this tank or its removal. The approximate limits of the remaining contaminated soil and groundwater in this area were delineated and characterized in 2005 by Heindel & Noyes. The findings were documented in the August 18, 2005

(Over)

Heindel & Noyes *Site Investigation Report*. The affected area is near the driveway and former factory building and covers an elliptical area approximately 100' x 30' at a depth between 2' to 6.5' below ground surface. These soils were left in place and are referenced by a notice to the land record #195228 (Volume 195, pg. 228) recorded in the Hinesburg Town Clerk's office on November 11, 2007. These soils are not felt to pose a significant risk to human health or to the environmental.

- In November of 2000, two 3,000 gallon No. 2 fuel oil USTs were removed and an additional 3,486 tons of petroleum contaminated soils were exhumed. This excavation area included the former location of the 9,000 gallon and 10,000 gallon USTs, and where the 5,000 gallon tank was closed in place. These soils were transported to the S.T. Griswold Facility on Industrial Avenue in Williston for treatment using composting and bioventing. In November 2004, these soils were deemed successfully treated and thin spread at the treatment location.

- Soil borings and monitoring wells were installed prior to and after the UST removals. These monitoring points were installed in arrays that allowed characterization of both soil and groundwater throughout the areas where the USTs were present. These points were monitored over time and the results of this monitoring showed eventual compliance with the Enforcement Standards of the Vermont Groundwater Protection Rule and Strategy.

- In May of 2007 all available monitoring wells at the site were closed in accordance with State guidelines. These wells included MW-1 01, 102, 116B, 11 6C, 301 S, 3011, 301D, 302S, 302D and IW-1, 2, 3. No other wells from past investigations could be located and were assumed destroyed.

- In September 2008, the chemical storage and maintenance area of the former Saputo facility were destroyed by fire. Subsequently, Saputo ceased operations at this facility and conducted a RCRA Closure process, which included the assessment of the soil and groundwater quality beneath the fire area. Twenty-one groundwater monitoring wells were installed. In February of 2009 acetone was the only contaminant detected in groundwater above Enforcement Standards. The most persistent contamination was generally centered on three sets of wells located in the middle of the former maintenance area. By July 2009, only a few compounds were still detected in groundwater and they were all below Enforcement Standards. In September and October of 2011, all but two of the monitoring wells were abandoned in accordance with the Vermont Water Supply Rule; the two wells in question could not be located and were assumed destroyed.

- In February of 1999 methyl tertiary butyl ether (MTBE) was detected in the on site water supply well. Investigation conducted subsequent to this detection determined the source of the MTBE to be gasoline releases occurring from leaking underground storage tanks at Lantman's Market (SMS Site #96-1988) located east of the former Saputo facility. Usage of this well was discontinued after the September 2008 fire. Though currently not in use this well is likely to remain contaminated with MTBE. If it is determined that the well will no longer be used, then we recommend that it be properly abandoned in accordance with the Water Supply Rule. If this well is to be used in the future, the SMS will require access to this well for future testing and monitoring.

(Next Page)

- No unacceptable risk to human health or the environment is believed to be present due to any residual contamination that may remain at the site from the investigated conditions summarized above and further described in the site file.

Based on the above, the SMS is assigning this property a Site Management Activity Completed (SMAC) designation. The SMAC designation will not release the owner(s) of the property from any past or future liability associated with the petroleum or acetone contamination found at the site. It does, however, mean that the SMS is not requesting any additional work in response to the above referenced contamination events.

Please feel free to call myself or Matt Moran of the SMS at (802) 241-3888 if you have any questions.

Sincerely,

Chuck Schwer, Section Chief
Sites Management Section

c: *Mailed Electronically*
Joe Colangelo, Hinesburg Town Administrator
Rocky Martin, Hinesburg Director of Buildings and Facilities, and Town Health Officer
DEC Regional Office
Steve LaRosa, Heindel & Noyes
Alan Liptak, KAS, Inc.

Site Name Jackson Residence

Address 114 Hawk Ln

Town Hinesburg

Site Use Residential

Site Number 20114151

DEC Manager Tim Cropley

Priority SMAC - Site Management Activities Completed

Site Status

Project Status During spill response to AST release, abandoned UST found to have released fuel from fill/vent pipe due to water intrusion. UST pulled and ISI performed by REA. Contamination limited to tank pit and all PCS removed.

Source of Contamination UST-Heating Oil

Contaminant Heating Oil

Institutional Control

Site Closure Date 06-01-2012

DEC Contact Email Address Tim.Cropley@vermont.gov

Record Last Updated 06-04-2012

VERMONT

State of Vermont
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Building
Waterbury, VT 05671-0404
(802) 241-3888
FAX (802) 241-3296

AGENCY OF NATURAL RESOURCES

July 11, 2007

ANDREA MORGANTE
56 MECHANICSVILLE ROAD
HINESBURG, VERMONT 05461

RE: Sites Management Activity Complete, Morgante Property, 56 Mechanicsville Road
SMS Site #2003-3159, Hinesburg

Dear Ms. Morgante:

The Sites Management Section (SMS) has reviewed the January 18, 2005 report titled, *"Groundwater Monitoring Report, December 2004, Morgante Property, Hinesburg, Vermont"* prepared by Waite Environmental Management (WEM) for work conducted at your property. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- On October 8, 2003 one 1,000 gallon fuel oil underground storage tank (UST) was removed from your property at 56 Mechanicsville Road in Hinesburg.

- During the UST removal, soil under the UST was found to be contaminated with volatile organic compounds (VOCs) at concentrations above SMS guideline levels, as measured with a photoionization detector (PID). The maximum PID reading was 23 parts per million (ppm). Fuel oil odors characteristic of old oil and soil staining were also reported. The tank was out of service since approximately 2000 and was full of water. Additional investigation of the UST removal was required by the SMS.

- On May 18, 2004 four groundwater monitor wells were installed on site to evaluate potential contamination to the groundwater. The maximum PID reading was 7.8 ppm in the tank pit monitor well. A slight fuel oil odor was also reported. There were no PID readings above 1 ppm recorded during the installation of the other three monitor wells and no odors were reported. Soils were reported to be sand and gravel overlying clay at approximately 6' depth.

- Groundwater samples were collected from the four monitor wells and basement sump on May 27, 2004 and December 9, 2004. No groundwater contamination was detected.

- Residual contamination in the soil associated with the UST removal was shown to be confined to the subject property at the tank pit. The nearest surface water is the Patrick Brook approximately 200 feet down gradient. During monitor well installation the basement of the house was screened for VOCs.

Over

using a PID and no above background readings were noted. No other sensitive environmental receptors were identified.

- The subject building and area are served by municipal water and sewer, which are not at risk of contamination from this site. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed UST.

- The four groundwater monitoring wells were properly closed on June 12, 2007 to eliminate possible conduits for contaminant migration into the subsurface. This closure involved removal of the protective well cover, filling the wells bentonite clay pellets to prevent fluid migration in the borehole, and finishing to the surrounding grade.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release you, Ms. Morgante, of any past or future liability associated with the petroleum contamination onsite. It does, however, mean that the SMS is not requesting any additional work in response to the October 2003 UST removal.

Please feel free to call with any questions.

Sincerely,

George Desch, P.E.
Chief, Sites Management Section

CC: Hinesburg Selectboard
Hinesburg Health Officer
DEC Regional Office (via electronic mail)
Miles Waite, Waite Environmental Management (via electronic mail)

APPENDIX I

Business and Department of Transportation - Letters

Town of Hinesburg Water Department

0632 VT Route 116 Hinesburg, Vermont 05461

April 30, 2022

Mr. Steve Giroux
Giroux Body Shop
10370 VT Route 116
Hinesburg, Vermont 05461

RE: Giroux Body Shop within SPA
Town of Hinesburg Public Water System, Well 6 (WSID #5070)

Dear Steve Giroux,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 6 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Giroux Body Shop be aware of the use of contaminants such as paints, cleaners, and paint strippers (VOCs) and properly dispose of them at your facility. Also lead, chromium, and cadmium can form particle pollution during sanding and welding. If there is ever a large spill or leak, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey

Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department

0632 VT Route 116 Hinesburg, Vermont 05461

April 30, 2022

Hart and Mead
PO Box 307
10919 Route 116
Hinesburg, VT 05461

RE: Hart and Mead Service Station within SPA
Town of Hinesburg Public Water System, Well 6 (WSID #5070)

Dear Hart and Mead,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 6 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Hart and Mead be aware of the use of contaminants such as used motor oil, solvents, parts washer solutions, antifreeze, used batteries, automotive fluids and gasoline, and properly dispose of them at your facility. Also be sure to monitor your USTs for leaks on a regular basis. If there is ever a large spill, or leak, please contact the Town so we can properly address the situation. Feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey
Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department

0632 VT Route 116 Hinesburg, Vermont 05461

April 30, 2022

Hinesburg Shortstop
21 Commerce St.
Hinesburg, VT 05461

RE: Hinesburg Shortstop within SPA
Town of Hinesburg Public Water System, Well 6 (WSID #5070)

Dear Hinesburg Shortstop,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 6 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Hinesburg Shortstop be aware of the use of contaminants such as oil, washer fluid, #2 or #4 or fuel oil and gasoline at your facility and properly dispose of them. Please monitor your USTs on a regular basis for leaks. If there is ever a large spill or leak, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey
Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department

10632 VT Route 116

Hinesburg, Vermont 05461

April 30, 2022

Vermont Gas
85 Swift Street South Burlington,
Vermont 05403 Attn: Tom Murray

RE: Vermont Gas lines within SPA

Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Mr. Murray,

The Town of Hinesburg has recently updated their Source Protection Plan to protect the water quality of our public water system. As part of this source protection plan, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org

Vermont Gas has buried gas line that run north to south through the western portion of the SPA. As part of our efforts to protect the quality of our drinking water, we are requesting that Vermont Gas refrain from using chemicals along the power lines within this SPA. Please feel free to contact me if you have any questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey

Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

April 30, 2022

VELCO
366 Pinnacle Ridge Road
Rutland, Vermont 05701
Attn: Mr. Jeff Disorda

RE: VELCO power lines within SPA, Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Mr. Disorda,

The Town of Hinesburg has recently updated their Source Protection Plan to protect the water quality of our public water system. As part of this source protection plan, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org.

VELCO has major transmission lines that run north to south through the western portion of the SPA. As part of our efforts to protect the quality of our drinking water, we are requesting that VELCO refrain from using chemicals along the power lines within this SPA. Please feel free to contact me if you have any questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey

Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

April 30, 2022

David Blackmore
AOT Senior Manager II District Transportation Administrator
P.O. Box 168 Essex Junction, Vermont 05453

RE: Roadside Vegetation Management

Town of Hinesburg Public Water System (WSID #5070)

Dear Mr. Blackmore,

The Town of Hinesburg has recently updated their Source Protection Plan to protect the water quality of our public water system. As part of this source protection plan, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). Maps showing the SPAs for the Town of Hinesburg Wells 4, 5 and 6 can be found at www.hinesburg.org.

Route 116 runs north – south through the SPA. As part of our efforts to protect the quality of our drinking water, we are requesting that the Vermont Agency of Transportation not use any chemicals along the guardrails and bridges within this SPA. Please feel free to contact me if you have any questions or comments.

Thank you in advance for your cooperation.

Sincerely,

Erik Bailey

Director of Utilities & Facilities/Superintendent

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

January 31, 2019

Jiffy Mart
17 Ballard's Corner Road
Hinesburg, VT 05461

RE: Jiffy Mart within SPA

Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Jiffy Mart,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Jiffy Mart be aware of the use of contaminants such as oil, antifreeze and fuel at your facility and properly dispose of them. If there is ever a large spill, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

John Alexander

Assistant Chief Operator

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

January 31, 2019

Iroquois Manufacturing Company
695 Hinesburg Road
Hinesburg, VT 05461

RE: Iroquois Manufacturing Company within SPA

Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Iroquois Manufacturing Company,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Iroquois Manufacturing Company be aware of the use of contaminants such as oil, antifreeze and fuel at your facility and properly dispose of them. If there is ever a large spill, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

John Alexander

Assistant Chief Operator

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

January 31, 2019

Champlain Valley School District & School Bus Garage
5420 Shelburne Road
Shelburne, VT 05482
Attn: Elaine Pinckney

RE: Champlain Valley School District & School Bus Garage within SPA

Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Elaine,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Champlain Valley School District & School Bus Garage be aware of the use of contaminants such as oil, antifreeze, fuel and pesticides at your facility and properly dispose of them. If there is ever a large spill, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

John Alexander

Assistant Chief Operator

Town of Hinesburg Water Department
10632 VT Route 116
Hinesburg, Vermont 05461

January 31, 2019

Burnett Scrap Metals LLC
8855 Route 116
Hinesburg, VT 05461
Attn: Chris Burnett

RE: Burnett Scrap Metals LLC within SPA

Town of Hinesburg Public Water System Wells 4 & 5 (WSID #5070)

Dear Chris,

The Town of Hinesburg has recently updated their Source Protection Plan (SPP) to protect the water quality of our public water system. As part of this SPP, we have delineated the area of land from which contaminants could potentially reach our wells. This is referred to as the Source Protection Area (SPA). A map showing the SPA for the Town of Hinesburg Wells 4 & 5 can be found at www.hinesburg.org.

As part of our efforts to protect the quality of our drinking water, we are requesting that Burnett Scrap Metals LLC be aware of the use of contaminants such as oil, antifreeze and fuel at your facility and properly dispose of them. If there is ever a large spill, please contact the Town so we can properly address the situation. Please feel free to contact me if you have any further questions or comments.

Thank you in advance for your cooperation.

Sincerely,

John Alexander

Assistant Chief Operator

APPENDIX J

VELCO Permits and Permit Application

STATE OF VERMONT

AGENCY OF AGRICULTURE, FOOD & MARKETS
Office of the Secretary
Telephone: (802) 828-2430 Fax: (802) 828-2361

PERMIT TO CONDUCT RIGHTS-OF-WAY HERBICIDE TREATMENT

Applicant: Vermont Electric Power Company, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701

Permit number: ROW 2012-1

1. This permit authorizes the use of herbicides in the power line rights-of-way maintenance during the calendar year 2012 in the towns and lines listed in Attachment A of the VELCO 2012 permit request. This permit in no way authorizes the applicant to use herbicides on land where it has no lawful right to do so.

2. The following herbicides may be applied at the rates specified:

- Accord Concentrate, E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Arsenal , E.P.A. registration number 241-346, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Escort, E.P.A. registration number 352-439, at an application rate not to exceed two (2) ounces per acre, and in accordance with label directions.
- Krenite S, E.P.A. registration number 352-395, at an application rate not to exceed three (3) gallons per acre, and in accordance with label directions.
- Garlon 4 Ultra, E.P.A. registration number 62719-527, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Garlon 4, E.P.A. registration number 62719-40, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Polaris, E.P.A. registration number 228-534, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Habitat, E.P.A. registration number 241-426, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Arsenal Powerline , E.P.A. registration number 241-431, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Accord E.P.A. registration number 62719-556, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Rodeo E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.

3. At least one certified applicator shall be a member of each crew using herbicides.

4. The applicant shall contact the Vermont Agency of Agriculture, Food and Markets at (802) 828-6531 twenty four (24) hours prior to the commencement of herbicide application, and shall provide the location of spray initiation and the names and certificate numbers of the certified applicators who will be applying herbicides.

5. This permit shall not be initiated prior to May 1, 2012.

6. Copies and dates of all public notification shall be submitted to this office prior to spraying.

7. Copies of newspaper tear sheets or invoices and radio station invoices for public notification shall be provided to the Agency as proof the notification occurred.

8. Herbicides shall not enter the waters of the State. Herbicide applications of herbicides with aquatic labels may be made up to ten (10) feet from surface water. Cut stump herbicide application of Garlon 4 may be made up to fifteen (15) feet from water. All other herbicide applications shall not be applied within 30 feet of surface waters.

9. Public and private water supplies are to be avoided. Herbicides shall not be applied within 200 feet of public water supplies or within 100 feet of private water supplies. For drinking water sources supplied by surface water the no spray buffer shall extend from the shoreline of lakes or ponds. At the point where the right of way intersects other surface waters within the source protection area the buffer shall be 100 feet.

10. Spray reports shall be submitted by the utility or herbicide applicator to the Agency on a weekly basis.

11. A copy of this permit, the permit application, and a set of maps noting both public and private water supplies shall be provided to the applicator for use during herbicide application.

12. No foliar application of herbicide will take place within 100 feet of domiciles.

13. Cut stump treatment is prohibited on Sugar Maple (Acer saccharum) and Red Maple (Acer rubrum) until May 1.

14. All label requirements for protective clothing shall be adhered to.

15. All-terrain vehicles (ATVs) may be used to apply the herbicides within the right-of-way provided that easements or other covenants do not prohibit the use of such equipment. ATVs shall be equipped with a spill kit capable of containing 125% of the combined storage total of the pesticide stored on the ATV.

16. All herbicides shall be used in accordance with the representations made by the applicant in its permit application, permit review and in these permit conditions unless, and until, the permit is amended.

17. The Secretary reserves the right to further limit or restrict the application of herbicides approved under this permit as conditions or circumstances require.

18. A current vegetation management plan shall be submitted to the Secretary of the Agency of Natural Resources as required by Wetland Rules if not so previously done.

19. Applicators are responsible for coordinating one use inspection with an Agency inspector.

This application was reviewed by the Vermont Pesticide Advisory Council and was forwarded with recommendations to the Secretary.

DATED: May 11, 2012

Charles R Ross , Secretary
Vermont Agency of Agriculture,
Food & Markets

STATE OF VERMONT

AGENCY OF AGRICULTURE, FOOD & MARKETS
Office of the Secretary
Telephone: (802) 828-2430 Fax: (802) 828-2361

PERMIT TO CONDUCT RIGHTS-OF-WAY HERBICIDE TREATMENT

Applicant: Vermont Electric Power Company, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701

Permit number: ROW 2015-3

1. This permit authorizes the use of herbicides in the power line rights-of-way maintenance during the calendar year 2015 in the towns and lines listed in Attachment A of the VELCO 2015 permit request. This permit in no way authorizes the applicant to use herbicides on land where it has no lawful right to do so.

2. The following herbicides may be applied at the rates specified:

- Rodeo or Accord Concentrate, E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Arsenal , E.P.A. registration number 241-346, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Escort, E.P.A. registration number 352-439, at an application rate not to exceed two (2) ounces per acre, and in accordance with label directions.
- Krenite S, E.P.A. registration number 352-395, at an application rate not to exceed three (3) gallons per acre, and in accordance with label directions.
- Garlon 4 Ultra, E.P.A. registration number 62719-527, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Garlon 4, E.P.A. registration number 62719-40, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Polaris, E.P.A. registration number 228-534, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Habitat, E.P.A. registration number 241-426-67690, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Arsenal Powerline , E.P.A. registration number 241-431, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Accord E.P.A. registration number 62719-556, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.

3. At least one certified applicator shall be a member of each crew using herbicides.

4. The applicant shall contact the Vermont Agency of Agriculture, Food and Markets at (802) 828-6531 twenty four (24) hours prior to the commencement of herbicide application, and shall provide the location of spray initiation and the names and certificate numbers of the certified applicators who will be applying herbicides.

5. This permit shall not be initiated prior to May 15, 2015.

6. Copies and dates of all public notification shall be submitted to this office prior to spraying.

7. Copies of newspaper tear sheets or invoices and radio station invoices for public notification shall be provided to the Agency as proof the notification occurred.

8. Herbicides shall not enter the waters of the State. Herbicide applications of herbicides with aquatic labels may be made up to ten (10) feet from surface water. Cut stump herbicide application of Garlon 4 may be made up to fifteen (15) feet from water. All other herbicide applications shall not be applied within 30 feet of surface waters.

9. Public and private water supplies are to be avoided. Herbicides shall not be applied within 200 feet of public water supplies or within 100 feet of private water supplies. For drinking water sources supplied by surface water the no spray buffer shall extend from the shoreline of lakes or ponds. At the point where the right of way intersects other surface waters within the source protection area the buffer shall be 100 feet.

10. Spray reports shall be submitted by the utility or herbicide applicator to the Agency on a weekly basis.

11. A copy of this permit, the permit application, and a set of maps noting both public and private water supplies shall be provided to the applicator for use during herbicide application.

12. No foliar application of herbicide will take place within 100 feet of domiciles.

13. Cut stump treatment is prohibited on Sugar Maple (Acer saccharum) and Red Maple (Acer rubrum) until May 1.

14. All label requirements for protective clothing shall be adhered to.

15. All-terrain vehicles (ATVs) may be used to apply the herbicides within the right-of-way provided that easements or other covenants do not prohibit the use of such equipment. ATVs shall be equipped with a spill kit capable of containing 125% of the combined storage total of the pesticide stored on the ATV.

16. All herbicides shall be used in accordance with the representations made by the applicant in its permit application, permit review and in these permit conditions unless, and until, the permit is amended.

17. The Secretary reserves the right to further limit or restrict the application of herbicides approved under this permit as conditions or circumstances require.

18. A current vegetation management plan shall be submitted to the Secretary of the Agency of Natural Resources as required by Wetland Rules if not so previously done.

19. Applicators are responsible for coordinating one use inspection with an Agency inspector.

STATE OF VERMONT

AGENCY OF AGRICULTURE, FOOD & MARKETS
Office of the Secretary
Telephone: (802) 828-2430 Fax: (802) 828-2361

PERMIT TO CONDUCT RIGHTS-OF-WAY HERBICIDE TREATMENT

Applicant: Vermont Electric Power Company, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701

Permit number: ROW 2012-1

1. This permit authorizes the use of herbicides in the power line rights-of-way maintenance during the calendar year 2012 in the towns and lines listed in Attachment A of the VELCO 2012 permit request. This permit in no way authorizes the applicant to use herbicides on land where it has no lawful right to do so.

2. The following herbicides may be applied at the rates specified:

- Accord Concentrate, E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Arsenal , E.P.A. registration number 241-346, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Escort, E.P.A. registration number 352-439, at an application rate not to exceed two (2) ounces per acre, and in accordance with label directions.
- Krenite S, E.P.A. registration number 352-395, at an application rate not to exceed three (3) gallons per acre, and in accordance with label directions.
- Garlon 4 Ultra, E.P.A. registration number 62719-527, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Garlon 4, E.P.A. registration number 62719-40, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Polaris, E.P.A. registration number 228-534, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Habitat, E.P.A. registration number 241-426, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Arsenal Powerline , E.P.A. registration number 241-431, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Accord E.P.A. registration number 62719-556, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Rodeo E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.

3. At least one certified applicator shall be a member of each crew using herbicides.

4. The applicant shall contact the Vermont Agency of Agriculture, Food and Markets at (802) 828-6531 twenty four (24) hours prior to the commencement of herbicide application, and shall provide the location of spray initiation and the names and certificate numbers of the certified applicators who will be applying herbicides.

5. This permit shall not be initiated prior to May 1, 2012.

6. Copies and dates of all public notification shall be submitted to this office prior to spraying.

7. Copies of newspaper tear sheets or invoices and radio station invoices for public notification shall be provided to the Agency as proof the notification occurred.

8. Herbicides shall not enter the waters of the State. Herbicide applications of herbicides with aquatic labels may be made up to ten (10) feet from surface water. Cut stump herbicide application of Garlon 4 may be made up to fifteen (15) feet from water. All other herbicide applications shall not be applied within 30 feet of surface waters.

9. Public and private water supplies are to be avoided. Herbicides shall not be applied within 200 feet of public water supplies or within 100 feet of private water supplies. For drinking water sources supplied by surface water the no spray buffer shall extend from the shoreline of lakes or ponds. At the point where the right of way intersects other surface waters within the source protection area the buffer shall be 100 feet.

10. Spray reports shall be submitted by the utility or herbicide applicator to the Agency on a weekly basis.

11. A copy of this permit, the permit application, and a set of maps noting both public and private water supplies shall be provided to the applicator for use during herbicide application.

12. No foliar application of herbicide will take place within 100 feet of domiciles.

13. Cut stump treatment is prohibited on Sugar Maple (Acer saccharum) and Red Maple (Acer rubrum) until May 1.

14. All label requirements for protective clothing shall be adhered to.

15. All-terrain vehicles (ATVs) may be used to apply the herbicides within the right-of-way provided that easements or other covenants do not prohibit the use of such equipment. ATVs shall be equipped with a spill kit capable of containing 125% of the combined storage total of the pesticide stored on the ATV.

16. All herbicides shall be used in accordance with the representations made by the applicant in its permit application, permit review and in these permit conditions unless, and until, the permit is amended.

17. The Secretary reserves the right to further limit or restrict the application of herbicides approved under this permit as conditions or circumstances require.

18. A current vegetation management plan shall be submitted to the Secretary of the Agency of Natural Resources as required by Wetland Rules if not so previously done.

19. Applicators are responsible for coordinating one use inspection with an Agency inspector.

This application was reviewed by the Vermont Pesticide Advisory Council and was forwarded with recommendations to the Secretary.

DATED: May 11, 2012

Charles R Ross , Secretary
Vermont Agency of Agriculture,
Food & Markets

STATE OF VERMONT

AGENCY OF AGRICULTURE, FOOD & MARKETS
Office of the Secretary
Telephone: (802) 828-2430 Fax: (802) 828-2361

PERMIT TO CONDUCT RIGHTS-OF-WAY HERBICIDE TREATMENT

Applicant: Vermont Electric Power Company, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701

Permit number: ROW 2015-3

1. This permit authorizes the use of herbicides in the power line rights-of-way maintenance during the calendar year 2015 in the towns and lines listed in Attachment A of the VELCO 2015 permit request. This permit in no way authorizes the applicant to use herbicides on land where it has no lawful right to do so.

2. The following herbicides may be applied at the rates specified:

- Rodeo or Accord Concentrate, E.P.A. registration number 62719-324, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Arsenal , E.P.A. registration number 241-346, at an application rate not to exceed three (3) quarts per acre, and in accordance with label directions.
- Escort, E.P.A. registration number 352-439, at an application rate not to exceed two (2) ounces per acre, and in accordance with label directions.
- Krenite S, E.P.A. registration number 352-395, at an application rate not to exceed three (3) gallons per acre, and in accordance with label directions.
- Garlon 4 Ultra, E.P.A. registration number 62719-527, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Garlon 4, E.P.A. registration number 62719-40, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.
- Polaris, E.P.A. registration number 228-534, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
- Habitat, E.P.A. registration number 241-426-67690, at an application rate not to exceed six (6) pints per acre, and in accordance with label directions
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- Accord E.P.A. registration number 62719-556, at an application rate not to exceed two (2) gallons per acre, and in accordance with label directions.

3. At least one certified applicator shall be a member of each crew using herbicides.

4. The applicant shall contact the Vermont Agency of Agriculture, Food and Markets at (802) 828-6531 twenty four (24) hours prior to the commencement of herbicide application, and shall provide the location of spray initiation and the names and certificate numbers of the certified applicators who will be applying herbicides.

5. This permit shall not be initiated prior to May 15, 2015.

6. Copies and dates of all public notification shall be submitted to this office prior to spraying.

7. Copies of newspaper tear sheets or invoices and radio station invoices for public notification shall be provided to the Agency as proof the notification occurred.

8. Herbicides shall not enter the waters of the State. Herbicide applications of herbicides with aquatic labels may be made up to ten (10) feet from surface water. Cut stump herbicide application of Garlon 4 may be made up to fifteen (15) feet from water. All other herbicide applications shall not be applied within 30 feet of surface waters.

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11. A copy of this permit, the permit application, and a set of maps noting both public and private water supplies shall be provided to the applicator for use during herbicide application.

12. No foliar application of herbicide will take place within 100 feet of domiciles.

13. Cut stump treatment is prohibited on Sugar Maple (Acer saccharum) and Red Maple (Acer rubrum) until May 1.

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16. All herbicides shall be used in accordance with the representations made by the applicant in its permit application, permit review and in these permit conditions unless, and until, the permit is amended.

17. The Secretary reserves the right to further limit or restrict the application of herbicides approved under this permit as conditions or circumstances require.

18. A current vegetation management plan shall be submitted to the Secretary of the Agency of Natural Resources as required by Wetland Rules if not so previously done.

19. Applicators are responsible for coordinating one use inspection with an Agency inspector.

This application was reviewed by the Vermont Pesticide Advisory Council and was forwarded with recommendations to the Secretary.

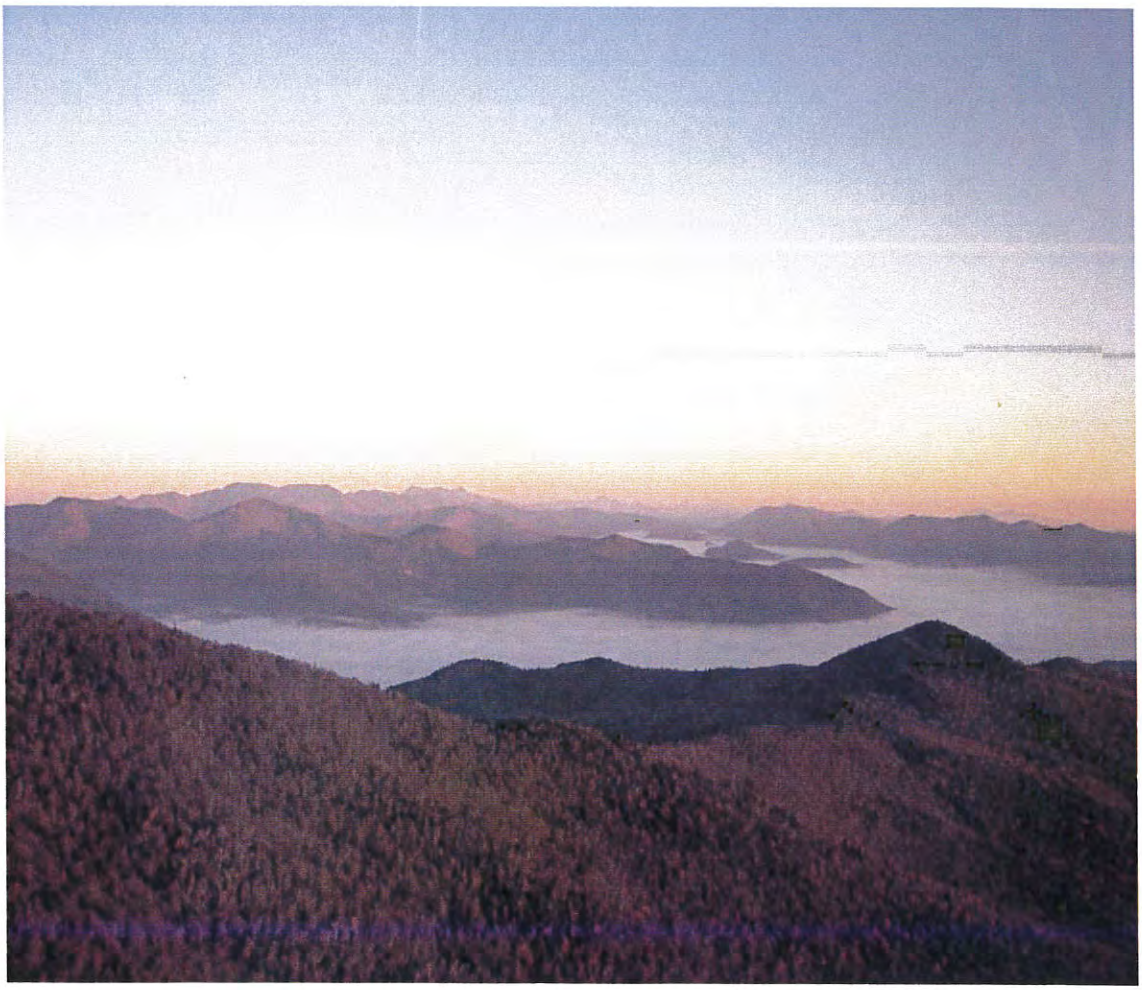
DATED: May 15, 2015

Charles R Ross , Secretary
Vermont Agency of Agriculture,
Food & Markets

vermont electric power company

VELCO

Transmission Herbicide Program
Vermont Permit Application
February, 2015



REQUEST FOR PERMIT TO CONDUCT RIGHTS OF WAY SPRAYING

Request is hereby made pursuant to Title 6 V.S.A., Chapter 87 and the regulations issued pursuant thereto, for an approved permit to conduct spraying on rights of way within the State of Vermont.

A. General Information

1. Title of Organization: Vermont Electric Power Co., Inc.

2. Address: 366 Pinnacle Ridge Road
Rutland, Vermont 05701

3. Telephone Number: (802) 770-6240

4. Contact Person: Jeffrey S. Disorda

5. Type of Right of Way:

X a Electric Power Transmission Line
__b Electric Power Distribution Line
__c Telephone Line
__d Highway
__e Pipeline (Specify: Gas, Soil, and Water)
__f Railroad
__g Airport Approaches and Safety Zones
__h Other Describe: _____

6. Type of Treatment

X a Selective Basal
X b Stump Treatment
__c Dormant Cane (Broadcast Basal)
__d Soil Applications (Soil Sterilant)
__e Ground Broadcast Stem-Foliage
__f Stem Injection (Frill Treatment)
X g Other Describe: Selective Ultra Low Volume Foliar

7. **Railroad Right-of-Way Treatment**

   a. Ballast
   b. Shoulder

B. Site Specific Information

1. **List Towns where Treatment will be Made:**

   See Attachment A

2. **Total Acreage to be Treated:** 1522 Acres

   Ground Application 1522 Acres

3. **Width of Right-of-Way** 115kV – 100-'150'
   Double circuits 115kV - 250'

   And

4. **Width of Area in Right-of-Way to be Treated** 115 kV – 100'-150'
   Double circuits 115kV - 250'

5. **Anticipated Starting Date** May 12, 2015

C. Special needs – Treatment With-in Buffer Strips

1. **Specific Areas where Application is to be Made:**
   Cut stump treatment up to 10' of waters edge with Accord and cut stump/basal treatment buffer up to 15' with Garlon 4 or Garlon 4 Ultra

2. **Type of Vegetation to be Controlled:**
   Cut stump treatment of undesirable hardwood species

3. **Pesticide(s) to be Applied (List Here and in Section E):**
   Accord Concentrate (53.8% Glyphosate) – DOW EPA #62719-324
   Garlon 4 Ultra-DOW EPA#62719-527
   Garlon 4 – DOW EPA #62719-40

4. **Rate of Application (List Here and in Section E):**
   Accord Concentrate .1 – 2 Gal. per acre or less
   Garlon 4 Ultra .1 – 2 Gal. per acre or less
   Garlon 4 .1 – 2 Gal. per acre or less

5. **Application Technique to be Implemented:**
   Cut stump treatment with low volume wand directly to stumps of undesirable species under low pressure

6. **Application Equipment to be Used:**
   Hand operated backpack or squirt bottle

7. **Explain how this Request will Protect Sensitive Areas, Sensitive Crops, Site Conditions, Wells, etc.:**

   Stumps to be treated are individually selected and only the undesirable species are treated. We will still maintain a 10' or 15' buffer from waters edge.

D. Contractor Information

1. Contractor's Name: *See Attachment B*
2. Company Name: _____
3. Company Address: _____
   _____
4. Current Vermont Applicator Certificate Number: _____
5. Company Telephone Number: _____

E. Control Details

Pesticides to be used and rates to be applied. If more than one chemical is listed, a summary of the uses intended for each chemical must be provided. The summary should state whether the chemical will be mixed or applied separately, specifying which chemicals will control what types of vegetation.

See Attachment E

F. Methods of Notification

1. **List the Newspapers in which you will Advertise this Application to Comply with Section IV, 4.b., of the Vermont Regulations for Control of Pesticides.**

Franklin County -	Burlington Free Press, The Messenger
Chittenden County -	Burlington Free Press, The Messenger
Washington County -	The Times Argus, Burlington Free Press
Lamoille County -	The Times Argus, Burlington Free Press
Grand Isle -	The Islander, Burlington Free Press

See Attachment C - Sample Newspaper Ads

2. **Please Indicate Other Notification Option Chosen to Comply with Section IV, 4.c, of the Vermont Regulations for Control of Pesticides.**

Franklin County-	WCPV FM 101.3, WRSA AM 1420
Chittenden County-	WOKO FM 98.9, WJOY AM 1230
Washington County-	WDEV AM 550, WDEV FM 96.1
Lamoille County-	WDEV FM 96.1,
Grand Isle-	WCPV FM 101.3, WRSA AM 1420

Radio Stations and Sample Radio Ads – *See Attachment D*

G. Other Information To Be Submitted With Application

1. Two (2) Sets of Geodetic (in 7.5 minute scale) or Ortho photo Maps indicating the Right-of-Way to be Treated. (Only one set of maps is needed if maps have been previously submitted and revisions have not been made.)
2. Current Labeling for each Pesticide to be Used.
3. Current Material Safety Data Sheet (MSDS) for each Pesticide to be Used.
4. Current Environmental Protection Agency Pesticide Fact Sheet (if applicable).

The undersigned accepts full responsibility for all statutes and regulations of the State of Vermont and understands that any authorization is limited to the described materials, locations and time periods stated herein.

The undersigned further understands that weekly spray and dusting operations must be reported to the Vermont Department of Agriculture. Such written report shall be on forms furnished by the Commissioner of Agriculture and placed in the mail not later than the close of business on the Monday following the week's operation.

February 23, 2015
Date

Signature of Applicant

Attachment A

1429 Highgate to Canada .....7.66 miles

Franklin County: Highgate, Franklin

K42 Highgate to St. Albans 115kV 11.10miles

Franklin County: St. Albans, Swanton, Highgate

K42 St. Albans Tap to Georgia 115kV 6.68miles

Franklin County: St. Albans, Georgia

K80 Georgia to East Fairfax 115kv.....14.55 miles

Franklin County: Georgia, Farifax

K19 Sandbar to Structure 50 115kV 8.83miles

Chittenden County: Milton

K20 Sandbar to East Cable 115kV.....2.28miles

Chittenden County: Milton

K20 Apple Tree to South Hero 115kV 4.60miles

Grand Isle County: South Hero

K20 South Hero to Grand Isle 115kV 2.40miles

Grand Isle County: Grand Isle

K21 Essex to Georgia 115kV .....18.08 miles

Franklin County: Georgia
Chittenden County: Milton, Colchester, Essex, Williston

K22 Essex to Sandbar 115kV .....11.16 miles

Chittenden County: Milton, Colchester, Essex, Williston

K25 Essex to East Avenue 115kV .....4.73 miles

Chittenden County: Williston, South Burlington, Colchester, Winooski, Burlington

K23 Essex to Taft's Corner 115kV .....2.97 miles

Chittenden County: Williston

K27 Taft's Corner to Williston 115kV.....2.05 miles

Chittenden County: Williston

K24 Essex to Duxbury 115kV.....20.33 miles

Chittenden County: Williston, Richmond, Bolton, Jericho
Washington County: Duxbury, Waterbury

K24T Duxbury to Stowe 115kV.....9.79 miles

Washington County: Duxbury, Waterbury
Lamoille County: Stowe

K24 Duxbury to Middlesex 115kV.....6.10 miles

Washington County: Duxbury, Moretown, Middlesex

K56 Middlesex to Berlin 115kV.....4.76 miles

Washington County: Moretown, Berlin

K55 Berlin to Barre 115kV.....5.60 miles

Washington County: Berlin, Barre

Attachment B

1. **Contractors Name:** Jeffery Taylor
2. **Company Name:** Vegetation Control Services, Inc.
3. **Company Address:** 2342 Main St., Athol, MA 01331
4. **Current Vermont Applicator Certificate Number**: 18 - 196
5. **Company Telephone Number:** (978) 249-5348

1. **Contractors Name:** Sean McPhee
2. **Company Name:** Asplundh Tree Expert Company
3. **Company Address:** 975 Allen St., Springfield, MA 01118
4. **Current Vermont Applicator Certificate Number:** 70 - 2084
5. **Company Telephone Number:** (802) 770-2458

1. **Contractors Name:** Charlie Chapman
2. **Company Name:** Davey Tree Expert Company
3. **Company Address:**
4. **Current Vermont Applicator Certificate Number:** 661- 2421
5. **Company Telephone Number:**

1. **Contractors Name:** Doug Cummings
2. **Company Name:** Cumming's & Son Land Clearing
3. **Company Address:** 5559 W. Creek Rd, Brandon, VT
4. **Current Vermont Applicator Certificate Number**: 1240-3950
5. **Company Telephone Number:** (802) 247-4633

Attachment C

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

A permit has been applied for through the Commissioner of Agriculture, Food & Markets, by Vermont Electric Power Company, Inc. for the purpose of making a selective ground base application of the herbicides: Accord, (Glyphosate), Arsenal (Imazapyr), Escort (Metsulfuron), Garlon 4 (Tryclopyr), Habitat (Imazapyr), Polaris (Imazapyr) and Krenite S (Ammonium Salt of Fosamine) on their 115,000 volt transmission line rights-of-way located in the following towns:

Franklin County	Chittenden County	Washington County	Lamoille County
Franklin	Milton	Moretown	Stowe
Highgate	Colchester	Waterbury	
Swanton	Winooski	Duxbury	
St. Albans Town	Essex	Middlesex	
St. Albans City	Georgia	Berlin	
Georgia	Burlington	Barre Town	
Fairfax	South Burlington	Barre City	
	Williston		
	Jericho		
	Richmond		
	Bolton		

Grand Isle County
Grand Isle
South Hero

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Mgt
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

A permit has been applied for through the Commissioner of Agriculture, Food & Markets, by Vermont Electric Power Company, Inc. for the purpose of making a selective ground base application of the herbicides: Accord (Glyphosate), Arsenal (Imazapyr), Escort (Metsulfuron), Garlon 4 (Tryclopyr), and Polaris (Imazapyr), Habitat (Imazapyr) and Krenite S (Ammonium Salt of Fosamine) on their 115,000 volt transmission line rights-of-way located in the following towns:

Franklin County
Franklin
Highgate
Swanton
St. Albans Town
St. Albans City
Georgia
Fairfax

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor - Right of Way Mgt
Vermont Electric Power Co, Inc. (VELCO)
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-347

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

A permit has been applied for through the Commissioner of Agriculture, Food & Markets, by Vermont Electric Power Company, Inc. for the purpose of making a selective ground base application of the herbicides: Accord (Glyphosate), Arsenal (Imazapyr), Escort (Metsulfuron), Garlon 4 (Tryclopyr), Polaris (Imazapyr), Habitat (Imazapyr) and Krenite S (Ammonium Salt of Fosamine) on their 115,000 volt transmission line rights-of-way located in the following towns:

Washington County	**Chittenden County**	**Lamoille County**
Moretown	Milton	Stowe
Waterbury	Colchester	
Duxbury	Winooski	
Middlesex	Essex	
Berlin	Georgia	
Barre Town	Burlington	
Barre City	South Burlington	
	Williston	
	Jericho	
	Richmond	
	Bolton	

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor - Right of Way Mgt
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Department of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

A permit has been applied for through the Commissioner of Agriculture, Food & Markets, by Vermont Electric Power Company, Inc. for the purpose of making a selective ground base application of the herbicides: Accord (Glyphosate), Arsenal (Imazapyr), Escort (Metsulfuron), Garlon 4 (Tryclopyr), Habitat (Imazapyr), Polaris (Imazapyr) and Krenite S (Ammonium Salt of Fosamine) on their 115,000 volt transmission line rights-of-way located in the following towns:

Grand Isle County
Grand Isle
South Hero

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supv - Right of Way Mgt
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

Attachment D

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Franklin County
Franklin
Highgate
Swanton
St. Albans Town
St. Albans City
Georgia
Fairfax

Grand Isle County
South Hero
Grand Isle

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Management
Vermont Electric Power Co, Inc. (VELCO)
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WCPV FM 101.3

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Chittenden County

Milton
Colchester
Winooski
Essex
South Burlington
Burlington
Williston
Jericho
Richmond
Bolton

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Management
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Department of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WOKO FM 98.9

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Washington County
Moretown
Waterbury
Duxbury
Middlesex
Berlin
Barre Town
Barre City
Stowe

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Management
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WDEV AM 550

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Franklin
Highgate
Swanton
St. Albans Town
St. Albans City
Georgia
Fairfax

Grand Isle County
South Hero
Grand Isle

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

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Supervisor of Right of Way Management
Vermont Electric Power Co, Inc. (VELCO)
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WRSA AM 1420

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Chittenden County

Milton
Colchester
Winooski
Essex
Georgia
Burlington
South Burlington
Williston
Jericho
Richmond
Bolton

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Management
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

The state agency to contact with questions or comments is:

Vermont Department of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WJOY AM 1230

PUBLIC NOTICE OF INTENT TO APPLY HERBICIDE

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Washington County
Moretown
Waterbury
Duxbury
Middlesex
Berlin
Barre Town
Barre City

Lamoille County
Stowe

The application will start on May 16, 2015.

Landowners adjacent to the areas to be treated should contact Vermont Electric Power Company (VELCO) if private water supplies or other environmentally sensitive areas are located within 100 feet of the right-of-way. For further information

Contact: Jeffrey S. Disorda
Supervisor of Right of Way Management
Vermont Electric Power Co, Inc.
366 Pinnacle Ridge Road
Rutland, VT 05701
(802) 770-6240

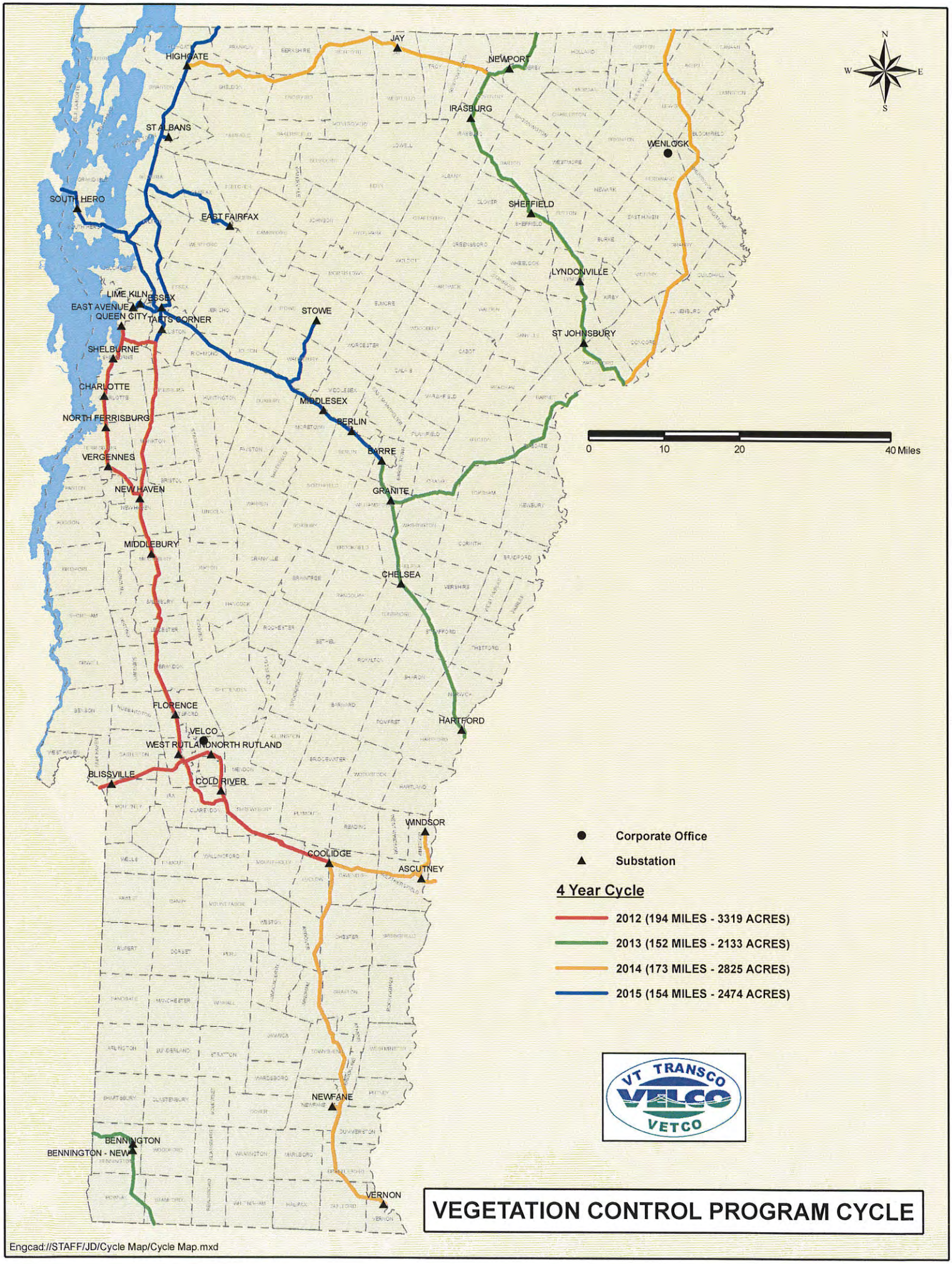
The state agency to contact with questions or comments is:

Vermont Agency of Agriculture
Plant Industry Division
Montpelier, VT 05602
(802) 828-3478

WDEV FM 96.1

Attachment E

Trade Name	Common Name of Active Ingredient(s)	EPA Reg. Number	Applic. Rate Product/Acre	Vegetation to Be Controlled	Type of Application and Equipment to be Used
Garlon 4 (DOW)	Triclopyr	62719-40	0.1-2.0 gals	Undesirable Tree Species	Backpack Sprayer, Low Volume Basal & CST
Garlon 4 Ultra (DOW)	Triclopyr	62719-527	0.1-2.0 gals.	Undesirable Tree Species	Backpack Sprayer, Low Volume Basal & CST
Accord (DOW)	Glyphosate	62719-556	0.1-2.0 gals	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Escort, and/or Arsenal, and/or Habitat
Accord Concentrate (DOW)	Glyphosate	62719-324	0.1-2.0 gals	Undesirable Tree Species	Cut Stump (CST) or Backpack Low Volume Foliar tank mixed with Escort, and/or Arsenal, and/or Habitat
Krenite S (DUPONT)	Fosamine Ammonium	352-395	0.1-3.0 gals.	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Escort, and/or Arsenal, and/or Habitat
Escort (DUPONT)	Metsulfuron Methyl	352-439	0.15-2.0 oz.	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Krenite, Arsenal, and/or Accord Concentrate, and/or Habitat
Arsenal (BASF)	Imazapyr	241-346	3 ozs.-3 qts.	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Krenite, Escort, and/or Accord Concentrate
Arsenal Powerline (BASF)	Imazapyr	241-431	3 ozs.-3 qts.	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Krenite, Escort, and/or Accord Concentrate
Polaris	Imazapyr	228-534	4-6 pts	Undesirable Tree Species	Low Volume Basal and CST Backpack Sprayer
Habitat	Imazapyr	241-426-67690	2-6 pints/acre	Undesirable Tree Species	Backpack Low Volume Foliar tank mixed with Escort, and/or KreniteS
Surfactants:					
Kinetic	Polydimethylsiloxane	N/A			
Induce	Alkylaryl Polyoxylkane	N/A			
Aqufact		N/A			
Kingpin	MSO + OSS	N/A			
Clean Cut	Aliphatic and Cyclic Petrolium	N/A			
Chemsurf 90	90% Aquatic Surfactant	N/A			
Drift Retardants:					
38-F	Polyacrylamide Polymer	N/A			
41-A	Polyacrylamide Polymer	N/A			
Point Blank	Polyacrylamide Polymer	N/A			
Thinvert RTU	Paraffinic oil blend	N/A			
Thinvert Concentrate	Paraffinic oil blend	N/A			
Penetrant:					
Arborchem Basal Oil	Aliphatic and Cyclic Petroleum	N/A			
	Distillates				
Arborchem Mineral Oil	Aliphatic Hydrocarbon Oils	N/A			
Arborchem NPD	Vegetable Oil	N/A			



VEGETATION CONTROL PROGRAM CYCLE

Engcad://STAFF/JD/Cycle Map/Cycle Map.mxd

APPENDIX K

Blank Review Sheet

Source Water Protection Plan Annual Review

Hinesburg Water Department
WSID 5070

Date Reviewed	Reviewer	Changes or Comments

APPENDIX L

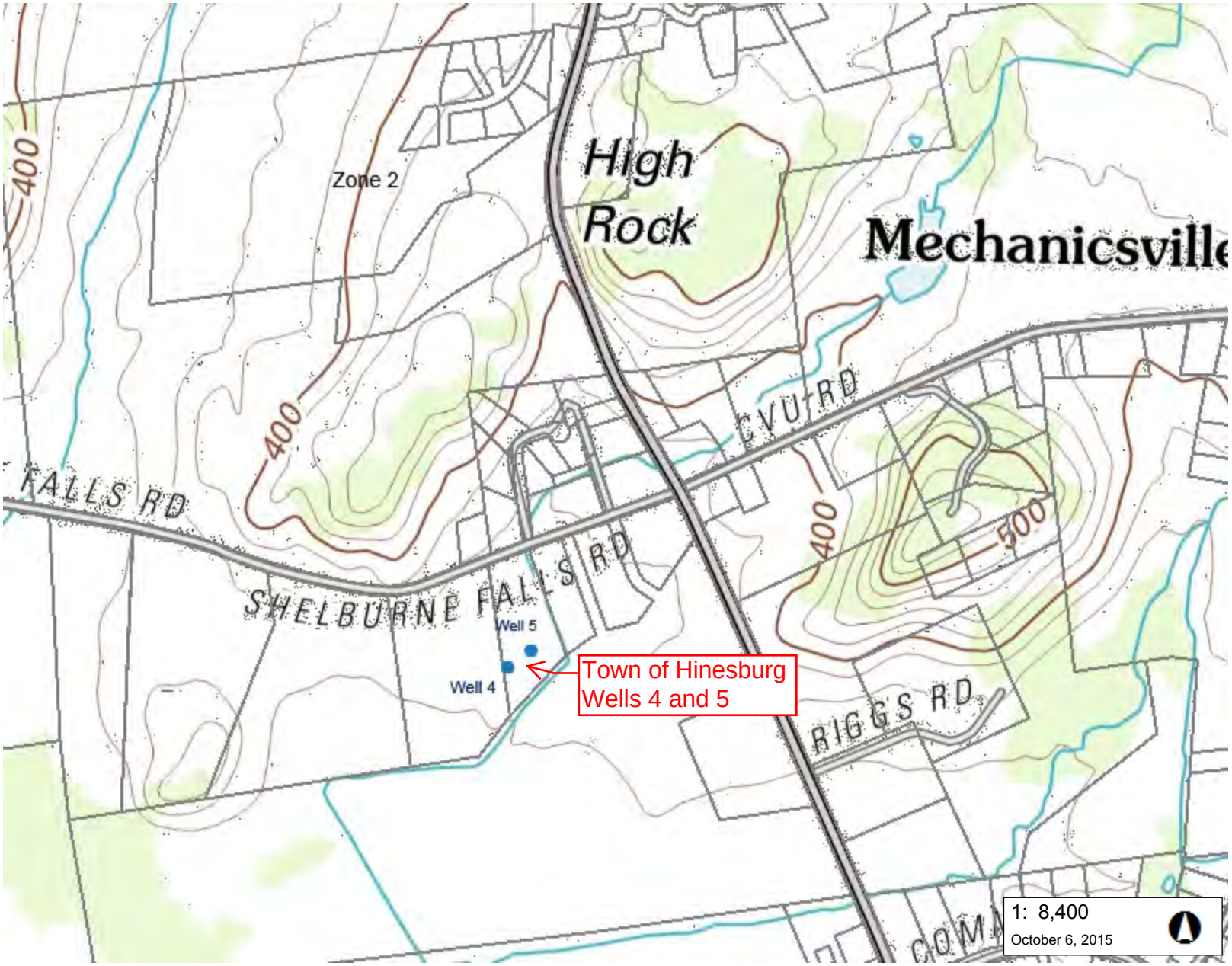
Maps and Figures from Well 4&5 2015 Source Protection

VERMONT

Figure 1: Location Map

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Parcels (where available)
- Town Boundary

NOTES

Town of Hinesburg
Wells 4 and 5
WSID #5070

427.0 0 214.00 427.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 700 Ft. 1cm = 84 Meters

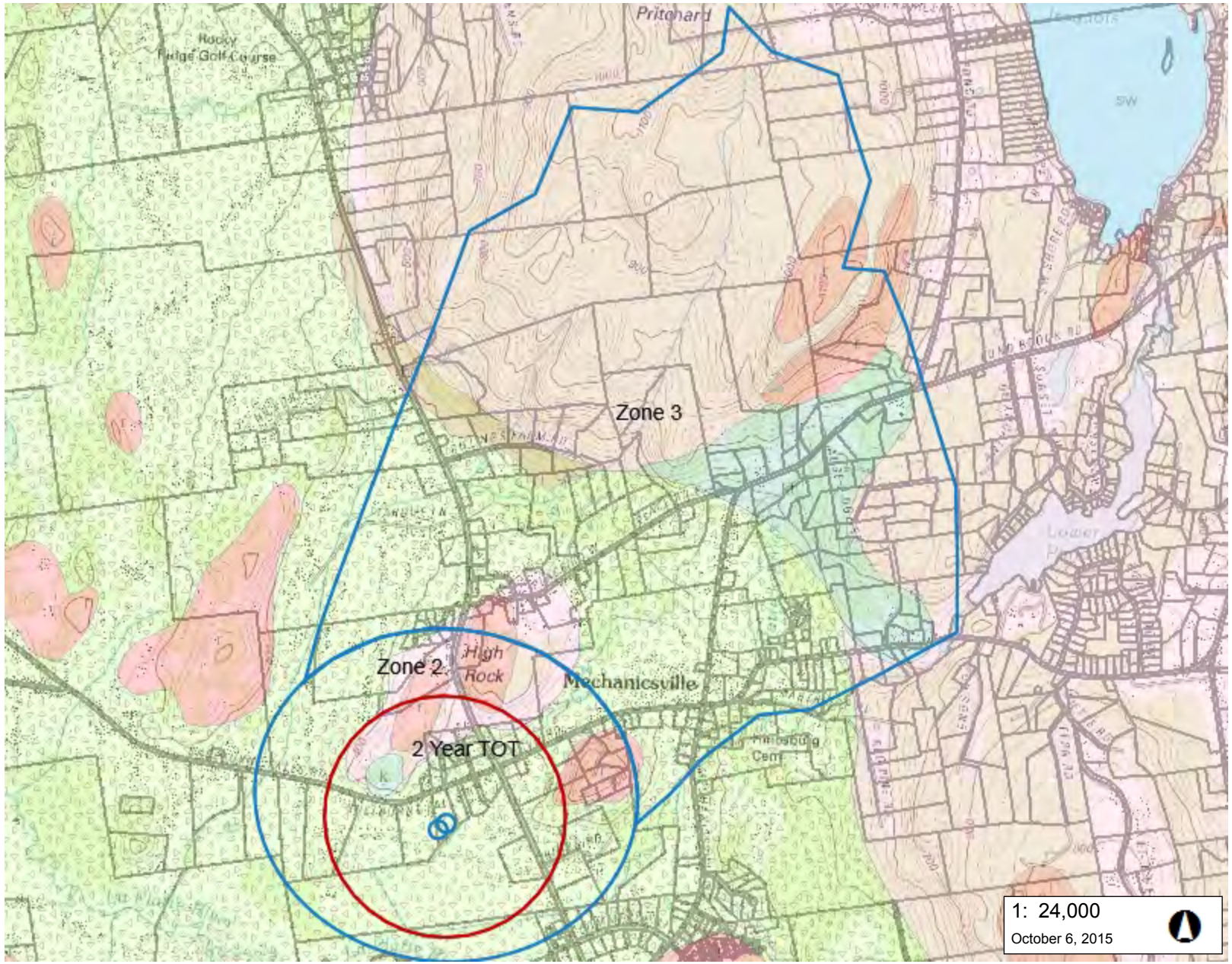
THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Figure 2: Town of Hinesburg Wells 4 & 5 SPA

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Surficial Geology (Lithology)

- till
- terminal moraine
- moraine
- isolated kame
- kame terrace
- kame moraine
- outwash
- esker
- eolian sand
- lake gravel
- beach gravel
- delta gravel
- delta
- lake sand
- pebbly sand
- boulders in sand
- delta sand
- silt, silty clay, and clay
- varved clay
- boulders in clay
- wave-washed till
- fluvial gravel
- fluvial sand
- alluvium
- marine beach gravel
- marine sand

NOTES

WSID 5070

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 2000 Ft. 1cm = 240 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Figure 3: Land Uses

Vermont Agency of Natural Resources

vermont.gov

LEGEND

- Buildings (E911)
- Parcels (where available)
- Town Boundary

NOTES

Town of Hinesburg Wells 4 & 5
WSID #5070

711.0 0 356.00 711.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 1167 Ft. 1cm = 140 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

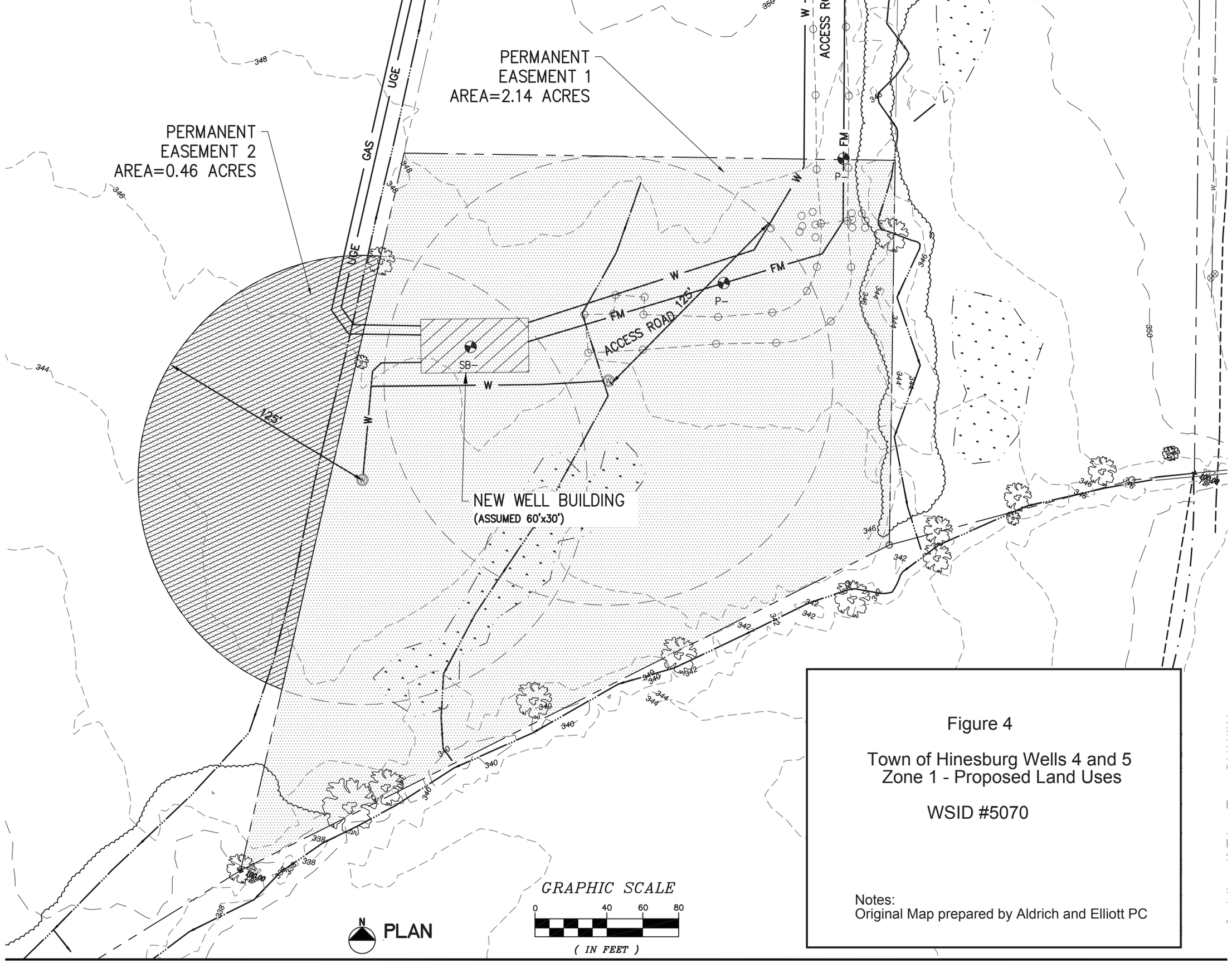


Figure 4

Town of Hinesburg Wells 4 and 5
Zone 1 - Proposed Land Uses

WSID #5070

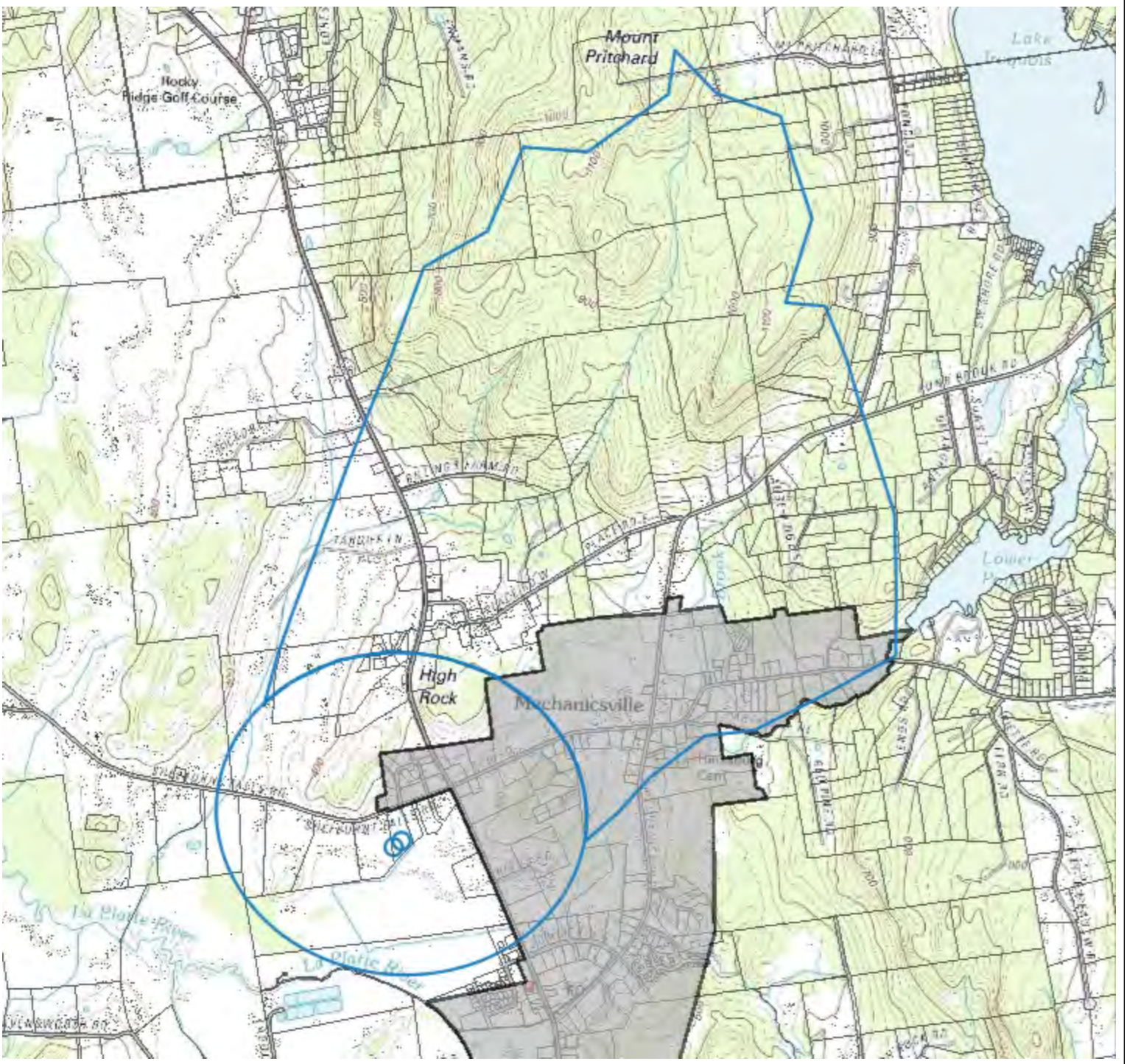
Notes:
Original Map prepared by Aldrich and Elliott PC

VERMONT

Figure 5 - Sewer Service Area

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Sewer Service Area
- Parcels (where available)
- Town Boundary

NOTES

Town of Hinesburg Wells 4 & 5
WSID #5070

1: 24,000

October 15, 2015

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere

1" = 2000 Ft. 1cm = 240 Meters

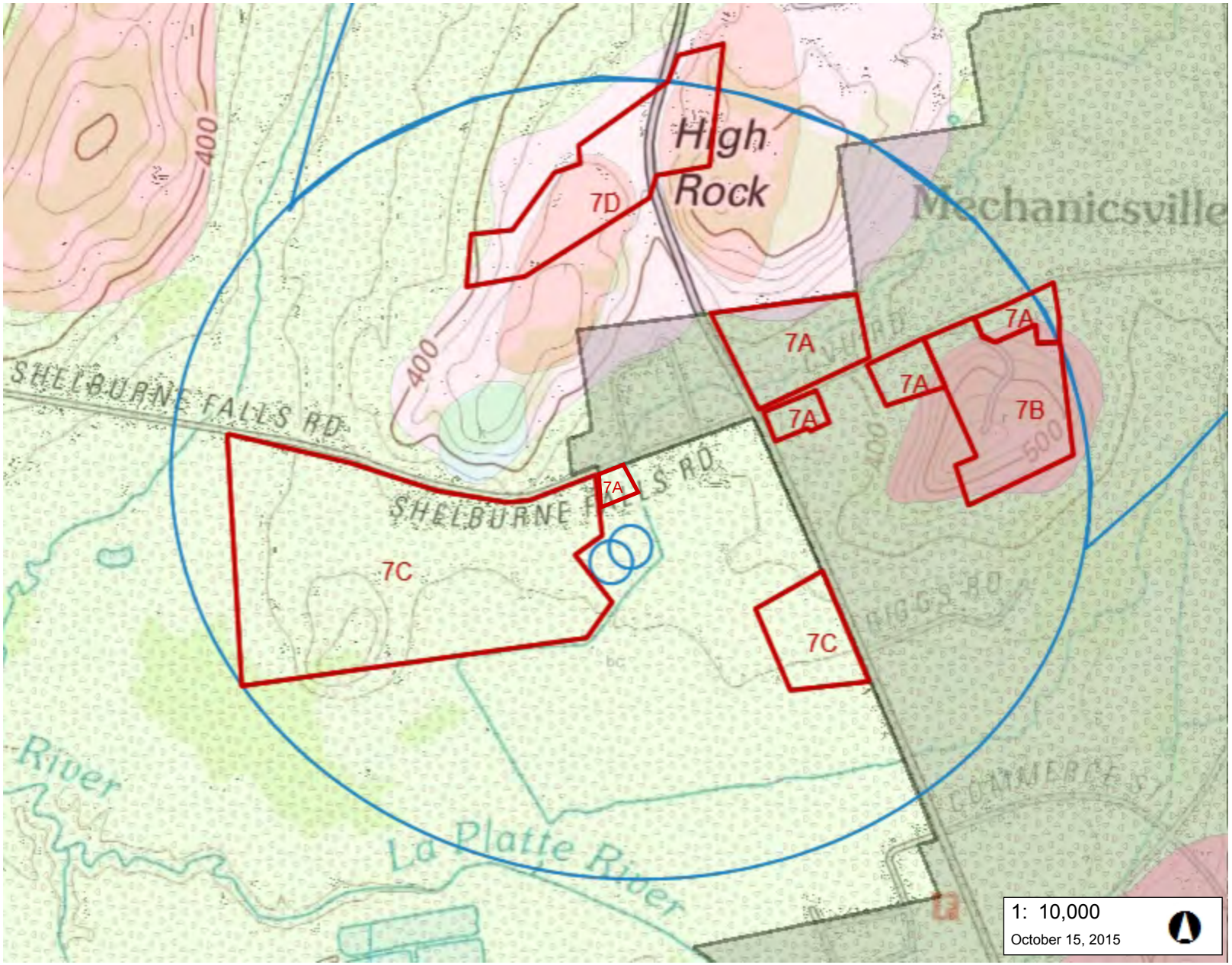
THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Figure 6 - Residential PSOC's - Zone 2

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Surficial Geology (Lithology)

- till
- terminal moraine
- moraine
- isolated kame
- kame terrace
- kame moraine
- outwash
- esker
- eolian sand
- lake gravel
- beach gravel
- delta gravel
- delta
- lake sand
- pebbly sand
- boulders in sand
- delta sand
- silt, silty clay, and clay
- varved clay
- boulders in clay
- wave-washed till
- fluvial gravel
- fluvial sand
- alluvium
- marine beach gravel
- marine sand

NOTES

Town of Hinesburg Wells 4 & 5
WSID #5070

508.0 0 254.00 508.0 Meters

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

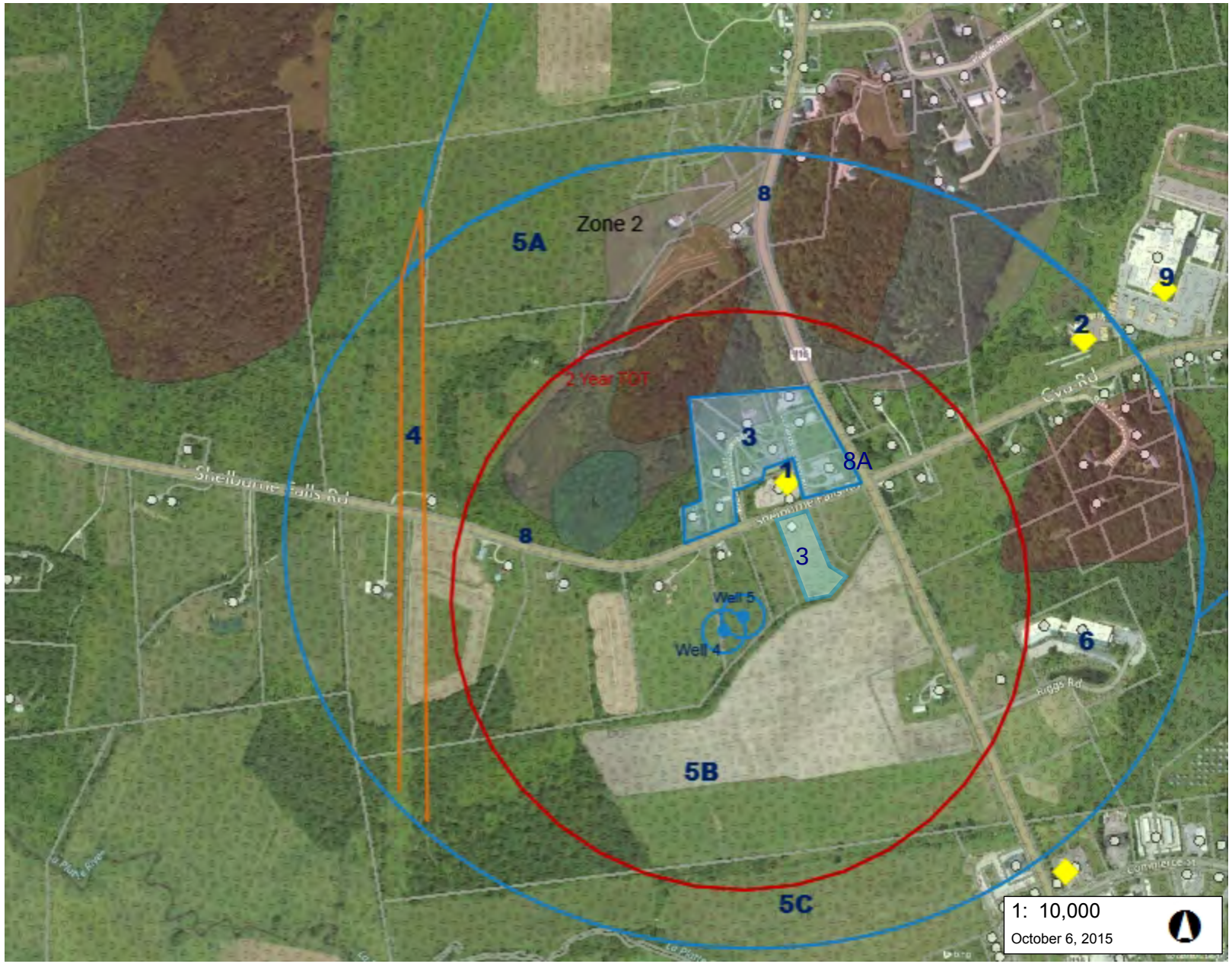
THIS MAP IS NOT TO BE USED FOR NAVIGATION

VERMONT

Figure 7 PSOCs Zone 2 (1-6 & 8)

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Hazardous Waste Site

PSOCs

1: Gas Station
2: Bus Maintenance Garage
3: Ballards Corner - Commercal/Residential
4: VELCO Power Line ROW
5A: Carse Parcel
5B: Bissonette Parcel
5C: Lyman Parcel
6: NRG Systems
7: Zone 2 Residential Properties See Fig 6
8: Roads
8A: Bridges
9: CVU

1: 10,000

October 6, 2015

508.0 0 254.00 508.0 Meters

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

THIS MAP IS NOT TO BE USED FOR NAVIGATION

APPENDIX M

Additional Maps & Figures for Well 6 SPA

TABLE OF USES

Building A
2 stories
3,840 sf footprint
5 residential units
1,920 sf dedicated commercial space
1,400 sf potential commercial space

Building B
2 Stories
3,580 sf footprint
5 residential units
1,240 sf dedicated commercial space
1,800 sf potential commercial space

Building C
2 Stories
3,580 sf footprint
5 residential units
3,000 sf dedicated commercial space

Building D
2 Stories
3,580 sf footprint
3 residential units
1,920 sf dedicated commercial space
1,400 sf potential commercial space

Building E
2 Stories
17,484 sf footprint
33 residential units
6,000 sf potential commercial space

Building F
2 Stories
7,356 sf footprint
12 residential units
6,000 sf dedicated commercial space

Building G
2 Stories
6,100 sf footprint
0 residential units
6,100 sf dedicated commercial space

Building H
3 stories
20,160 sf footprint
50 congregate housing units
+/- 10,000 sf Senior support space

Building I
2 Stories
10,400 sf footprint
10,400 sf commercial/light industrial space

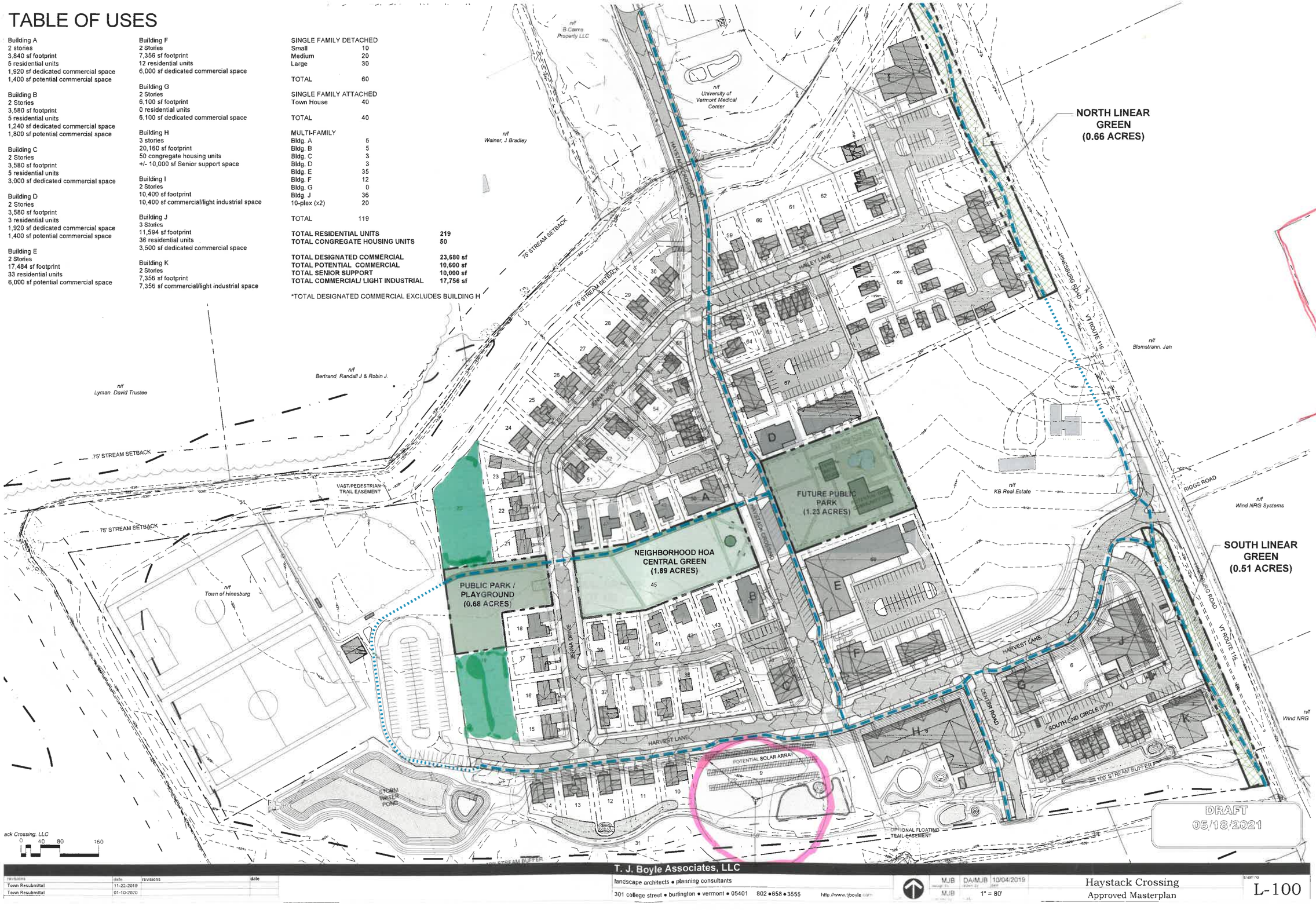
Building J
3 Stories
11,594 sf footprint
36 residential units
3,500 sf dedicated commercial space

Building K
2 Stories
7,356 sf footprint
7,356 sf commercial/light industrial space

SINGLE FAMILY DETACHED	
Small	10
Medium	20
Large	30
TOTAL	60
SINGLE FAMILY ATTACHED	
Town House	40
TOTAL	40
MULTI-FAMILY	
Bldg. A	5
Bldg. B	5
Bldg. C	3
Bldg. D	3
Bldg. E	35
Bldg. F	12
Bldg. G	0
Bldg. J	36
10-plex (x2)	20
TOTAL	119

TOTAL RESIDENTIAL UNITS	**219**
TOTAL CONGREGATE HOUSING UNITS	**50**
TOTAL DESIGNATED COMMERCIAL	**23,680 sf**
TOTAL POTENTIAL COMMERCIAL	**10,600 sf**
TOTAL SENIOR SUPPORT	**10,000 sf**
TOTAL COMMERCIAL/ LIGHT INDUSTRIAL	**17,756 sf**

*TOTAL DESIGNATED COMMERCIAL EXCLUDES BUILDING H



Revisions	date	revisions	date
Town Resubmittal	11-22-2019		
Town Resubmittal	01-10-2020		

T. J. Boyle Associates, LLC
landscape architects • planning consultants
301 college street • burlington • vermont • 05401 802 • 658 • 3555 http://www.tjboyle.com

MJB | DA/MJB | 10/04/2019
MJB | 1" = 80'

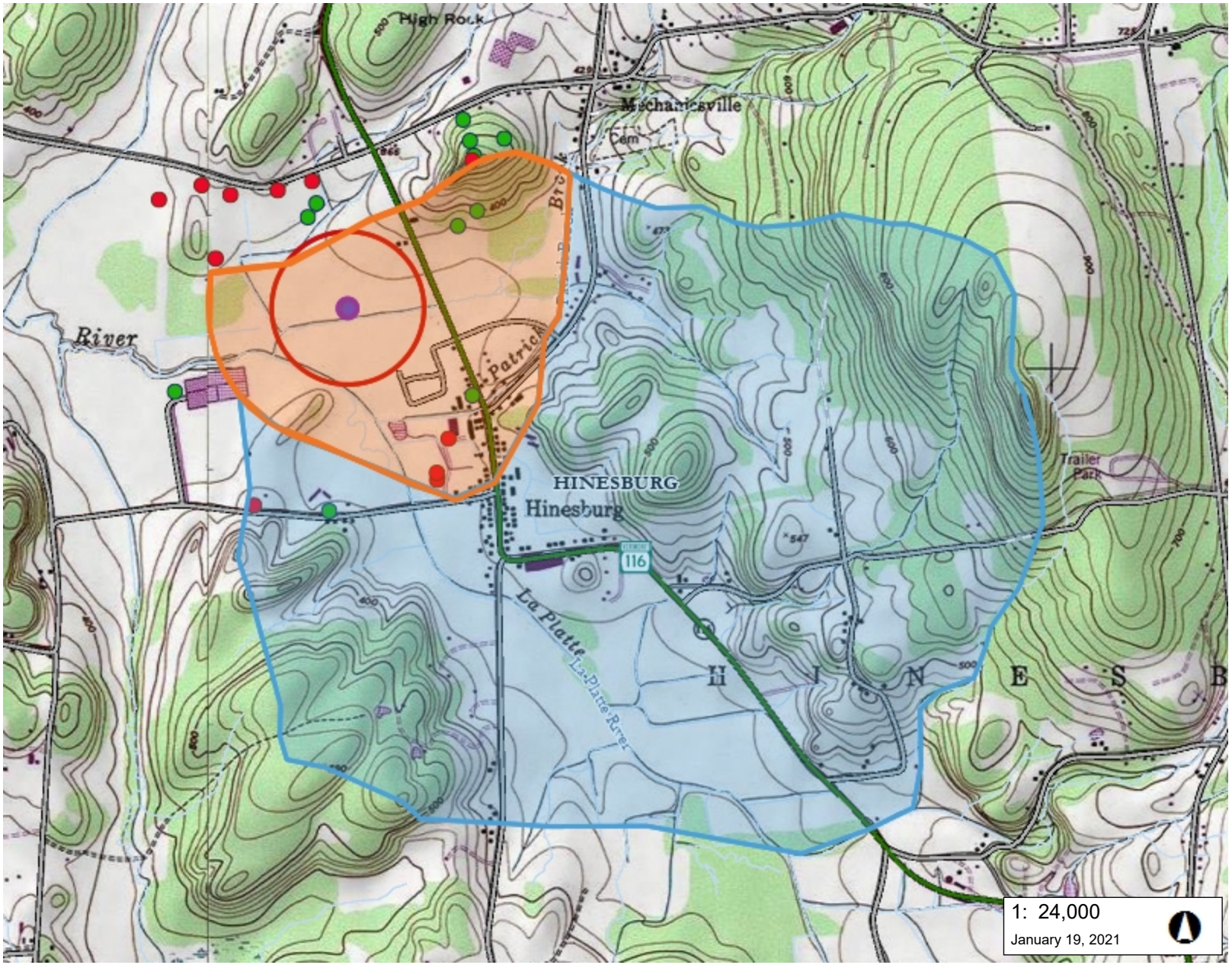
Haystack Crossing
Approved Masterplan

sheet no
L-100

Well 6 Source Protection Area

Vermont Agency of Natural Resources

vermont.gov



LEGEND

Roads
- Interstate
- US Highway; 1
- State Highway
- Town Highway (Class 1)
- Town Highway (Class 2,3)
- Town Highway (Class 4)
- State Forest Trail
- National Forest Trail
- Legal Trail
- Private Road/Driveway
- Proposed Roads

Stream/River
- Stream
- Intermittent Stream

Town Boundary

SPA Zone 1
SPA Zone 2
SPA Zone 3
2Y TOT
Well 6
Well not in use
Well in use

NOTES

Map created using ANR's Natural Resources Atlas

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 2000 Ft. 1cm = 240 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Hinesburg Water Department SPA - Sewer Area

Vermont Agency of Natural Resources

vermont.gov

LEGEND

- Waste Water Facilities
- Sewer Service Area
- Parcels (standardized)
- Roads
  - Interstate
  - US Highway; 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Stream/River
  - Stream
  - Intermittent Stream
- Town Boundary

NOTES

WSID# 5070
Well 6
Sewer Service Area

1: 24,000

December 7, 2021

1,219.0 0 610.00 1,219.0 Meters

WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 2000 Ft. 1cm = 240 Meters

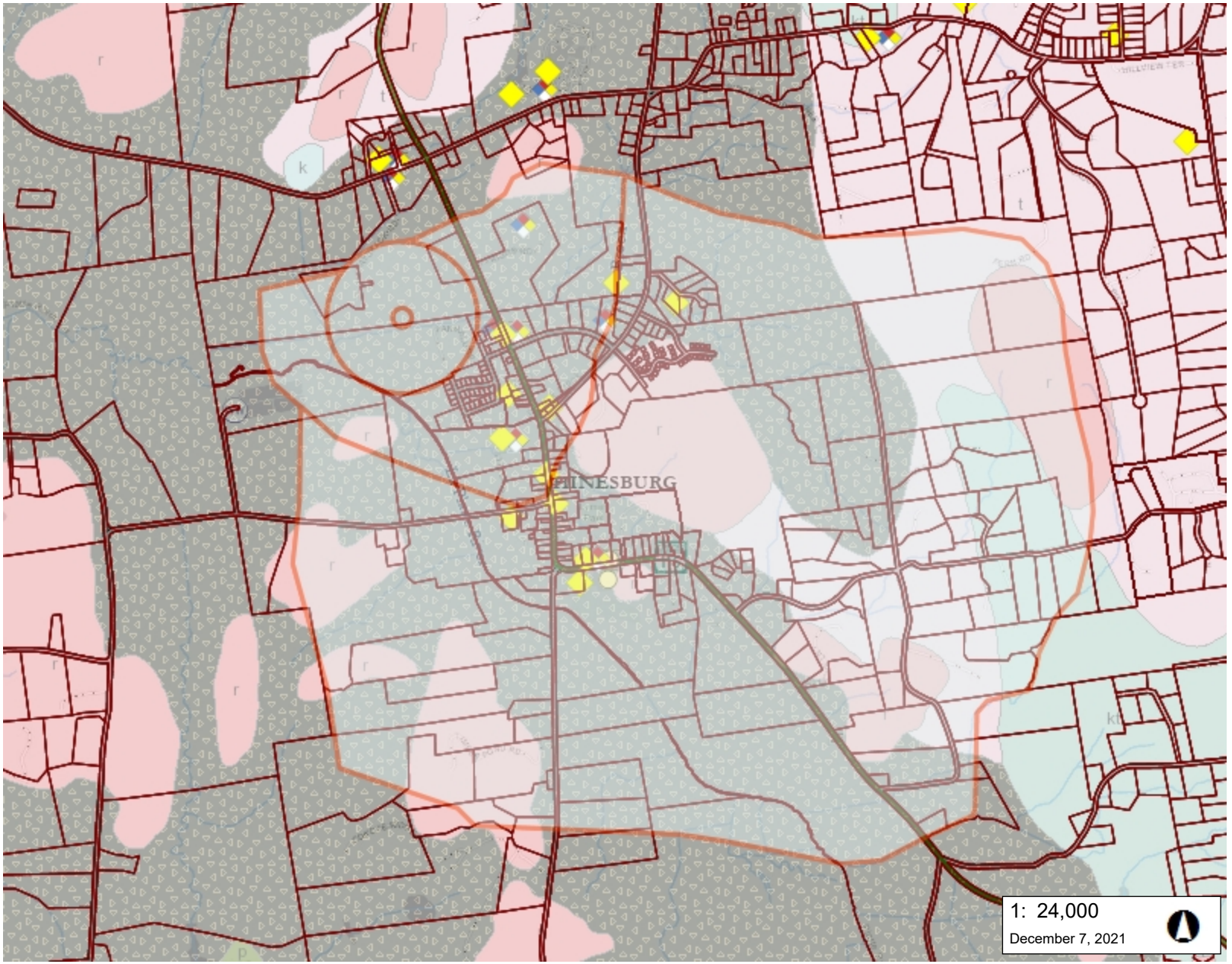
THIS MAP IS NOT TO BE USED FOR NAVIGATION

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.

Hinesburg Well 6 SPA - Surficial Geology

Vermont Agency of Natural Resources

vermont.gov



LEGEND

- Hazardous Site
- Hazardous Waste Generators
- Salvage Yard
- Underground Storage Tank (w
- Surficial Geology (Lithology)
  - till
  - terminal moraine
  - moraine
  - isolated kame
  - kame terrace
  - kame moraine
  - outwash
  - esker
  - eolian sand
  - lake gravel
  - beach gravel
  - delta gravel
  - delta
  - lake sand
  - pebbly sand
  - boulders in sand
  - delta sand
  - silt, silty clay, and clay
  - varved clay
  - boulders in clay
  - wave-washed till
  - fluvial gravel

NOTES

WSID# 5070
Well 6

1,219.0 0 610.00 1,219.0 Meters

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APPENDIX N

Guidance on How to Prepare
A Source Protection Plan Update

PREPARING A SOURCE PROTECTION PLAN UPDATE

Guidance for Public Community and Non-Transient-Non Community Water Systems

With the adoption of the new Water Supply Rule on December 29, 2000, all public community and non-transient, non-community water systems must update their approved Source Protection Plans *every three years*. Prior to this Rule, the updates were required annually. Source Protection Plan (SPP) Updates are also required for all water systems applying for Phase II/V monitoring waivers and waiver renewals. This information sheet gives guidance on how to prepare a Source Protection Plan Update.

Summary of Steps for Updating a Source Protection Plan

- ✓ Inspect the Source Protection Area and Update PSOC Maps and Inventory
- ✓ Weigh Risks from New PSOCs and Identify Risk Management Measures
- ✓ Update Landowner List
- ✓ Communicate with Relevant Landowners and Town/County/State Officials
- ✓ Make sure your Contingency Plan Information is Current
- ✓ Summarize Progress in Reducing Threats to your Source

Inspect the Source Protection Area and Update Your PSOC Maps and Inventory

Visually inspect the Source Protection Area and review the potential sources of contamination (PSOCs) identified in your original Source Protection Plan or most recent SPP Update. Note any key changes. Is the local farmer still using the same pesticides and fertilizers on crop land? Check for any evidence of new land uses or activities that may threaten the water source. Has a new residence been constructed? If so, does it have a septic system? What fuel is used for heating the home? Discuss any important changes you have discovered. Modify your PSOC Inventory and PSOC map to reflect your observations.

Weigh the Risks from New PSOCs and Identify Risk Management Measures

Determine the risk level posed by any new potential source of contamination you have found. Then outline the management measure you intend to use to reduce the risk. In many cases the management measure can be as simple as communicating with the landowner and asking for assistance in protecting the water supply. If you think of a new way to manage the risk from a previously identified PSOC, take the time to outline your ideas and plans in the update.

Update Your Landowner List

Visit your town clerk=s office to determine whether any land or land rights within your Source Protection Area have changed hands. Add any new landowners to your list and remove anyone that no longer owns property in your SPA.

Communicate with Relevant Landowners and Town/County/State Officials
Send out letters to regulatory agencies to remind them that you are concerned about land use activities in your SPA. Also, send letters to newly identified landowners who may not know about your water source. Although not required, it's a good idea to contact the other landowners within your SPA with a positive message about actions they can take to help protect your supply, and to thank them for any efforts they have made since your last letter.

Make Sure Your Contingency Plan Information is Current
Check the emergency contact information in your contingency plan and make sure all of the information is up-to-date. Make sure any new water system personnel have the information they need to make good decisions in an emergency situation.

Summarize Progress in Reducing Threats to Your Source
Look back over the last three years and think about what actions you have taken to make your source of water less vulnerable to contamination. Have you worked with a local farmer to reduce pesticide and fertilizer use in your SPA? Have you purchased development rights for land in your SPA? Have you posted signs at key locations to notify people when they enter your SPA? Have you responded swiftly and appropriately to an emergency situation? Use the SPP Update as an opportunity to boast about the progress you have made.

Source Protection Plan Update Checklist~

Your SPP Update may be as simple as a detailed short letter or it may be a comprehensive revision or rewrite of your original SPP. The format you choose will depend on what you discovered in the steps outlined above. However, regardless of the format, please be sure you have included the relevant items from the following checklist when you submit the SPP Update:

_____ Text describing your PSOC inspection and any changes and additions you are making to the Source Protection Plan. If there are no changes, please state clearly that you have performed an SPA inspection and found no changes in land use, land ownership, risk levels, etc. Provide date of inspection.
_____ Text describing the progress you have made in implementing risk management measures since your original SPP (or last update) was prepared.
_____ Updated PSOC Inventory (if applicable)
_____ Updated PSOC Map (if applicable)
_____ Updated Management Plan (if applicable)
_____ Updated Landowner List (if applicable)
_____ Updated Contingency Plan information (if applicable)
_____ Copy of letter sent to ongoing SPA landowners (optional)
_____ Copy of letter sent to new SPA landowners (if applicable)
_____ Copy of letter to town/county/state officials

Please send your Source Protection Plan Update to:

Water Resources Section
VT-DEC, Drinking Water & Groundwater Protection Division
1 National Life Drive, Davis 4, Montpelier, VT 05620-3521

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ENVIRONMENTAL CONSERVATION

GUIDANCE

Drinking Water and Groundwater Protection Division

Source Protection Plan Required Information
(to be used in conjunction with the SPP Checklist)

I. If a consultant or someone other than the water system responsible person prepares the plan, an acknowledgement letter from the responsible person with a signature and date needs to be included.

II. There should be a brief description of the water system. Include such things as what the source is, its construction details, storage, if any, exist, population served, connections, setting (urban, rural, etc). There should also be a discussion of how the source protection area was delineated- include the calculations if necessary. The well log should also be included, if available.

III. Inventory the Potential Sources of Contamination (PSOCs) to your water source(s). This list should include sources of contamination that are potential and actual. They can include septic systems, gas stations, farms, parking lots, etc. There then needs to be a risk rating given to each PSOC (high, moderate or low). This rating is based on proximity of PSOC to source, amount of contamination, well construction, etc. Please note that all PSOCs within Zone 1 of the Source Protection Area are High risk. PSOCs that are just outside of the SPA, but are considered by you to be risk to the source may be included in your discussion. You may opt to summarize the PSOCs in a table at the end of their discussion. Please be sure to include past, present and *future* land uses.

IV. The source protection plan needs to have a strategic plan (risk management plan) for dealing with the potential sources of contamination and future needs of the water system. This part should include a list of landowners, and local, regional and state officials with their contact information (most importantly, mailing address). There should be sample letters to the affected parties. This section should outline the specific steps the water system will take to mitigate the threat from the PSOCs. This section should also include future plans the water system may have in the realm of source protection (purchasing land, development rights, etc.).

V. The source protection plan also needs to include a contingency plan in case the water system has an unexpected emergency. This is to include a list of who in the water system should be contacted (operator and/or responsible person) and which local, regional and state officials who need immediate contact and those who can wait until the situation is under control. Plans for short and long term emergencies are to be discussed here. A brief shut down/start up description should be included as well.

VI. Maps are an integral part of your source protection plan. There needs to be enough maps to convey a sense of the nature of the area. Meaning, the source and source protection area should be located on a USGS Topographic map (preferably 1:24,000). Either an orthophotographic or topographic base map, showing the source location and source protection area along with the potential sources of contamination; may be 1:12000 or smaller. A map with the tax base also needs to be included. This can be represented as an individual map or on the orthophotographic base with PSOCs. All maps need to include the following information; scale, legend, north arrow, water system name, WSID number, town, date of map creation, person making the map and source of map information. The Drinking Water and Groundwater Protection Division is available to provide technical assistance.

VII. Some other items you may wish to include in your plan are photographs of the water source and surrounding area, commitment to update the plan every three years (the plan needs to be updated every three years regardless of a commitment to do so), and excerpts from town plans or ordinances highlighting source protection efforts.

This guidance sheet and related environmental information are available electronically at:
www.dec.vermont.gov/water
Drinking Water and Groundwater Protection Division
1 National Life Drive, Davis 4, Montpelier, VT 05620-3521
Phone: 802-828-1535; Fax: 802-828-1541

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Vermont Department of Environmental Conservation *Agency of Natural Resources*
Drinking Water and Groundwater Protection Division
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Montpelier, VT 05620-3521 [fax] 802-828-1541
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SOURCE PROTECTION PLAN REQUIRED INFORMATION

I. Maps

A. An orthophoto or USGS topographic map showing the location of the water supply(s) and the delineated Source Protection Area (SPA). A SPA is the surface and subsurface area from or through which contaminants are reasonably likely to reach a water system source. A SPA is described further in the Source Protection Plan (SPP) guidance document *Protecting Public Water Sources in Vermont*.

To find the location of the SPA for your water system, please use the Agency Atlas.

B. A map showing locations of water system's groundwater sources and/or surface water intakes, the landowners within the SPA, and Potential Sources of Contamination (PSOCs) within the SPA. A tax parcel map with the SPA overlay may be most helpful to locate PSOCs and to identify the responsible parcel owner. Include on all maps the WSID # and name of the water system

II. Inventory and Assessment of Potential Sources of Contamination (PSOCs)

A. Include an inventory and description of the PSOCs that occur within the SPA (i.e., septic system/leach fields, underground storage tanks, above ground storage tanks, agricultural and forestry activities, businesses, high traffic areas, hazardous sites, etc.).

B. Include a cross indexed list of the PSOC with the landowner/responsible person's contact information.

C. Provide a risk ranking of high, medium, or low for each PSOC with an explanation of the reasons for the ranking.

III. Management Plans

The SPP identifies how the water system will manage the identified risks in conjunction with the PSOC's responsible parties. These plans shall be directed toward controlling risks from existing potential sources of contamination, where possible, and reducing risks of potential contamination.

A. The management plans shall include one or more actionable items from the source protection list (below), or other appropriate actionable activity.

1. The water system will provide educational opportunities and activities to improve source protection understanding (for example: school presentations, meetings for residents to raise their source protection awareness, the state is invited to explain the utility of a SPA is to the planning commissions).
2. The town will make zoning district changes to decrease risks in their Source Protection Area (for example: change development density in SPA, locate industrial/commercial development zones outside of SPA, place septic treatment facilities outside of a prime groundwater aquifer).
3. The town will incorporate zoning overlays for source protection areas (for example: prohibit certain activities within SPA Zone 1, Zone 2 and/or Zone 3).
4. The town will reclassify Source Protection Areas to Class II Groundwater areas

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(this pertains to municipal water systems primarily and is for both existing SPA and likely proposed new SPA). Other Agency programs restrict or prohibit certain activities in Class I and Class II groundwater areas. It also raises public awareness of the groundwater resource and groundwater protection by recognizing its importance at an elevated level.

5. The water system will draft specific letters targeting the identified potential contaminants and send them to those land owners in the Source Protection Area (for example: targeted letters to specific land uses, provide more explanation regarding the relationship of land use activity and groundwater flow/recharge to the water supply).
6. Describe in detail the enhanced surveillance activities the water system will take, including frequency (for example: visiting with the owner/manager of high and moderate risk activities bi-yearly, walk or drive the SPA to observe what is happening every other week), and incorporate changes found into the SPP.
7. Purchase land or land use easements (i.e. development rights) within the Source Protection Area to have control over land use activities in sensitive areas. (for example: use the DWSRF loan set-asides for land purchase, fund a targeted land purchase/development rights acquisition account).
8. Incorporate and discuss how the bedrock and surficial materials base maps derived from the new State Geologic Maps, specific to the SPA, relate to specific source protection activities. This can be the basis for reevaluating risk assessments and determining more effective protection activities or assigning zoning districts.
9. Coordinate with DWGPD staff, depending on their workload, to accompanying water system personnel on a "windshield survey" or walk through the SPA to help identify unrecognized Potential Sources of Contamination (PSOC) or reevaluate existing ones, and understand their significance if released into the recharge area.
10. Coordinate with DWGPD staff, depending on their workload, to assist in priority ranking the identified risks in the SPA (as High, Medium, or Low) to improve
targeting the water system's protection activities. This could be done in conjunction with discussing the geologic surficial materials/bedrock type maps, the topography, the concentration/volume of contaminant, etc.).
11. Attend specific source protection training opportunities that are presented at various trainings and meetings (for example: Vermont Rural Water Association (VRWA) annual meeting, as a component of Operator Training. (VRWA is a partner with the Division in Operator Training and Source Protection).
12. Discuss other deterrent measures to contamination or vandalism that will be installed or implemented (for example: signage, fencing, volunteer activities for education, surveillance).
13. Other actionable activities.

B. Specifically address the water system's control of 200-foot isolation zone 1, and if not owned or controlled by the system, the water system's plan to manage it.

C. Commitment to update the SPP every year for changes/additions of PSOCs and landowners, and every three years to submit an updated SPP to the Division for review and approval.

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D. Include copies of educational letters to be mailed to Town officials, and landowners and businesses within the SPA. These letters can involve education about proper septic tank use and cleaning, requests to reduce pesticide/herbicide/fertilizer use, reduce salting of roads, and other educational efforts specific to the PSOC, such as health effects or consequences of contamination of the source.

IV. Contingency Plan

A. Identify alternate drinking water supplies in the event of source contamination or disruption. Contingency plans address both short- and long-term needs, i.e., bottled water, hauled water, boiling water, drilling a new well, purchasing water from another water system, etc.

B. Emergency procedures for non-scheduled sequenced system shutdown and start-up. This information may be found in the Operation and Maintenance Manual for the water system.

C. List name and telephone numbers of people to contact in case of emergencies, spills, discharges, etc. (i.e. Fire Department, Police Department, Drinking Water & Groundwater Protection Division, Hazardous Material Spills (1-800-641-5005), etc.).

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WSID # _____
Water System Name _____ **Date** __
Reviewer _____

SOURCE PROTECTION PLAN CHECKLIST
Note: Not all sections may be applicable to all water systems.

YES
NO

IA. Orthophoto or USGS topographical maps with Source Protection Area delineation showing Source Location and:

_____1. Zone I, 200 foot radius isolation zone
_____2. Zone II
_____3. Zone III
_____4. two year time of travel delineation

IB. Tax maps with the following information identified and labeled:

_____1. Name of water system and WSID #.
_____2. Town name, scale, legend.
_____3. Groundwater sources (wells, springs)
_____4. Surface water inlets
_____5. Source Protection Area delineation
_____6. Potential Sources of Contamination (septic systems/leach fields, businesses, agriculture, forestry, USTs, ASTs, etc.) within the SPA
_____7. Landowner parcels and buildings within the SPA

II. Inventory of PSOCs and Assessment

_____**A**. Inventory and description of PSOCs (septic systems/leach fields, businesses, agriculture, forestry, USTs, ASTs, etc.) present and past.
_____**B**. A list of the land parcels within the SPA cross-indexed with the landowner and the PSOCs.
_____**C**. Assessment and ranking (whether PSOCs are high, moderate, or low risk)

III. Management Plan

_____**A**1. Educational activities to be performed.
_____ 2. Zoning changes to be enacted.
_____ 3. Zoning overlays to be incorporated.
_____ 4. Groundwater reclassification to Class II petition to be submitted.
_____ 5. Targeted PSOC letters to be developed and sent.
_____ 6. Enhanced surveillance activities to be implemented.
_____ 7. Land or easements to be purchased.
_____ 8. Enhance geologic understanding of aquifer.
_____ 9. Enhance PSOC identification.
_____10. Enhance PSOC ranking.
_____11. Attend source protection training.
_____12. Enhance Deterrent measures to contamination or vandalism.
_____13. Other, describe _____

_____**B**. Zone 1 management: Management techniques to be used, i.e., land purchase within SPA, posting signs, purchase of development rights, local ordinances, public educational efforts, other _____
_____**C**. Commitment to update the SPP every three years

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_____**D**. Copy of letter sent to businesses/landowners within SPA and copy of letter sent to town, county, and state officials.

IV. Contingency Plan

_____A. Alternate water supply made available, both long- and short-term solutions, with list of suppliers and phone numbers.

_____**B**. Emergency procedure for non-scheduled sequenced system shut down and startup.

_____**C**. A plan for notifying key contact people, including names, functions, and phone numbers.