
SECTION 248 NATURAL RESOURCES REPORT

VELCO Franklin County Line Upgrade Project – Natural Resources Report

Towns of Georgia, St. Albans, Swanton, and
Highgate, Vermont.

PREPARED FOR



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Introduction

At the request of VT Transco LLC ("VELCO"), VHB conducted natural resources assessments in support of the proposed Franklin County Line Upgrade Project along the existing K42 Transmission Line ("K42") located in the towns of Georgia, St. Albans, Swanton, and Highgate, Vermont ("Project"). This natural resources report ("Report") includes a general description of the proposed Project, the Project's Study Area (or Assessment Area), a description of individual methodologies for each resource assessment, the findings, and an evaluation of the Project with respect to each criterion per the applicable 30 V.S.A. §248 (b)(5) natural resource criteria reviewed by the Vermont Public Utility Commission ("PUC").

VHB's assessment includes review of public and privileged databases provided by:

- › VELCO, consisting of past project data collection and permitting efforts;
- › Publicly available Permits and information associated with Projects adjacent to or overlapping the Assessment Area.
- › Vermont Fish and Wildlife Department ("FWD") Natural Heritage Inventory ("NHI") – for known Elemental Occurrences ("EO") of rare, threatened or endangered ("RTE") species and significant natural communities;
- › U.S. Fish and Wildlife Service ("USFWS") Information, Planning, and Conservation ("IPaC") System – for potential occurrences of federally-listed threatened or endangered species;
- › Vermont Agency of Natural Resources ("ANR") – for mapped state-significant wetlands, surface and groundwater resources, surficial geology, and wildlife habitat;
- › Natural Resources Conservation Science ("NRCS") – for soils data and mapping; and,
- › Federal Emergency Management Agency ("FEMA") – for floodways/floodway fringe mapping.

In addition to desktop reviews of the above-described databases, VHB conducted field delineations and assessments of wetlands, streams, and vernal pools, as well as surveys for potential wildlife habitat, natural communities, and RTE plant and animal species in support of various Project components. Field delineations and assessments were conducted during the 2022 and 2023 field season.

During natural resources assessments and Project planning, VHB conducted outreach and coordination with various ANR programs in coordination with VELCO, including:

- › Department of Environmental Conservation ("DEC") Wetlands – K42 Line representative wetland field review and pre-application meeting/coordination, and desktop review of wetland classifications and mapping;
- › DEC Rivers – K42 Line desktop review of stream classifications/river corridors/floodway mapping for the Project;

- › FWD – K42 Line pre-survey RTE plant survey field scoping review; pre-application meeting/coordination, and desktop review of mapping; and
- › Agency of Natural Resources Planning – Pre-application meeting/coordination, and desktop review of mapping.

The report includes an evaluation of the following Act 250 criteria as incorporated into 30 V.S.A. Section 248(b)(5) review, using both desktop and field data collected by VHB:

- › Outstanding Resource Waters (10 V.S.A. § 1424a(d))
- › Greenhouse Gas Impacts (30 V.S.A. § 248(b)(5))
- › Water and Air Pollution (10 V.S.A. § 6086(a)(1))
- › Headwaters (10 V.S.A. § 6086(a)(1)(A))
- › Waste Disposal (10 V.S.A. § 6086(a)(1)(B))
- › Water Conservation (10 V.S.A. § 6086(a)(1)(C))
- › Floodways (10 V.S.A. § 6086(a)(1)(D))
- › Streams (10 V.S.A. § 6086(a)(1)(E))
- › Shorelines (10 V.S.A. § 6086(a)(1)(F))
- › Wetlands (10 V.S.A. § 6086(a)(1)(G))
- › Water Supply (10 V.S.A. § 6086(a)(2) and (3))
- › Soil Erosion (10 V.S.A. § 6086(a)(4))
- › Rare and Irreplaceable Natural Areas (“RINA”) (10 V.S.A. § 6086(a)(8))
- › Necessary Wildlife Habitat and Endangered Species (10 V.S.A. § 6086 (a)(8)(A))
- › Primary Agricultural Soils (10 V.S.A. § 6001(15))

In making assessments of Project impacts or conformance with the applicable criteria, VHB relied substantially on Project plans and spatial data provided by VELCO on July 11, 2023, and on impact analyses conducted by VHB with data collected in the field and proposed access roads, work pads, and structure locations provided by VELCO.

Project Description

The Franklin County Line Upgrade Project (the Project) is a replacement of VELCO’s existing 16.6-mile 115 kV transmission line originally constructed in 1958 that runs through the towns of Georgia, St. Albans, Swanton, and Highgate in northwestern Vermont. VELCO conducted a condition assessment of the line and identified the need to replace the majority of the structures due to condition and age. To replace these deficient structures, and keep the existing line energized during this work to minimize the risk of widespread customer outages, VELCO proposes to build a replacement line adjacent to the existing one. Once the replacement transmission line is completed the existing line will be removed leaving only the new line within the boundary of the existing 150-foot-wide easement. Based on VELCO’s schedule and following receipt of a CPG and ancillary permits, upgrade work is anticipated to occur from 2024 through 2026.

To stay within the existing 150-foot Right of Way easement boundaries, the new structures will need to be 30 feet taller on average as the three phases of conductors shift from a horizontal to a vertical configuration. The majority of the 215 replacement structures will consist of a single pole instead of the existing two pole structures.

Along with replacing aged and deteriorated structures, the Project proposes to upgrade the transmission line to add a second electrical conductor to save Vermont and New England power costs and to increase the existing limit of generation that may be sited and/or allowed to operate within northern Vermont within the Sheffield Highgate Export Interface limit.

Project construction will require the installation of temporary and permanent access roads and crane pads, and temporary wire pulling pads to construct all Project components safely and efficiently. This will include crane pads at each existing and new structure generally consisting of 125 feet by 75 feet. Where existing and proposed structures are not co-located, or where natural resources or terrain is limiting, two crane pads consisting of 75-feet by 75-feet may be used. Where ground conditions preclude overland (at grade) pads, crane pads will be constructed with existing material, imported material, and/or temporary timber construction mats. Access roads will generally have a 25-foot-wide footprint and consist of native material, imported material, or temporary timber construction mats. During construction and between prolonged periods of inactivity, crane pads and access roads will be stabilized with erosion control blanket, straw or hay mulch and/or vegetation. Following construction, VELCO will perform site restoration activities where necessary, such as but not limited to subsoiling for soil decompaction in agricultural fields and landscaping in residential lawns and apply a seed mix and mulch in accordance with applicable permits and VELCO's Environmental Guidance Manual ("VEGM").

Assessment Area Description

VHB conducted its natural resources assessments during the 2022 and 2023 field seasons. The maintained portion of the existing K42 line is approximately 150 feet wide, centered on the existing transmission line, along the approximately 16.6-mile section between VELCO's Georgia and Highgate Substations, comprising the rights-of-way ("ROW"). The ROW is the core of the area assessed by VHB, though additional areas include off-ROW access roads and staging areas adjacent to the ROW. The Natural Resources Map Series (Appendix A) and the Primary Agricultural Soils Mapping (Appendix B) depict the Assessment Area, K42 Line, potential off-ROW access areas, and staging areas.

The K42 line is located within the Champlain Valley biophysical region of Vermont. This area is generally characterized as low, warm, and comparatively dry with clay soils deposited by post-glacial lakes and seas, sands from post-glacial rivers, and outcrops of limestone and other Ordovician rocks. The K42 Line crosses through six watershed boundaries, including the Mill River (HUC:043001081202), Saint Albans Bay-Lake Champlain (HUC:043001081204), Jewett Brook (HUC:043001081201), Outlet Missisquoi River (HUC:043001070603), Hungerford Brook (HUC: 043001070602), and McGowan Brook-Missisquoi River (HUC:043001070601) watersheds. Elevations along the K42 Line measure approximately 95 to 457 feet above mean sea level ("amsl") varying from nearly level to steep banks near riverine areas. The USDA Natural Resources Conservation Service ("NRCS") has numerous soil

types mapped in the Assessment Area, of which the following are most dominant in terms of area:

- › Farmington-Rock outcrop complex, 6 to 15 percent slopes;
- › Farmington-Rock outcrop complex, 15 to 60 percent slopes;
- › Scantic silt loam, 0 to 3 percent slopes; and
- › Windsor loamy fine sand, 3 to 8 percent slopes.

Land cover types within the Assessment Area include upland fields and agricultural land, wetlands (emergent, scrub-shrub, and forested), stream and river crossings, and maintained areas (such as residential lawn, roads, and overhead utility corridors). Further, the Assessment Area is generally within the maintained K42 ROW that has been in service and maintained since 1958 and is subject to routine vegetation management in accordance with VELCO's Transmission Vegetation Management Plan (TVMP), which includes mowing, hand clearing, and herbicide application to maintain compatible vegetation beneath and adjacent to the high-voltage power lines.

Section 248 Natural Resources Criteria

The following sections detail the methodology and findings of field and desktop reviews and how the Project will avoid undue adverse impacts to natural resources as defined in each criterion described below.

Outstanding Resource Waters (10 V.S.A. § 1424a (d))

The Vermont Water Quality Standards ("VWQS", effective November 15, 2022) (ANR 2022), under section 1-03D, state that the Secretary of the Vermont Agency of Natural Resources ("ANR") may, under 10 V.S.A. Section 1424(a), designate Outstanding Resource Waters ("ORW"). The following waterways have been classified as ORWs:

1. Batten Kill River, Towns of Dorset and Arlington;
2. Pike's Falls/Ball Mountain, Town of Jamaica;
3. Poultney River, Towns of Poultney and Fair Haven; and
4. Great Falls, Ompompanoosuc River, Town of Thetford.

The Assessment Area does not cross any portions of the waters listed above, which all occur in southern Vermont counties. The closest occurrence is the Poultney River, more than 75 miles from the southern extent of the Project. There are no ORWs which intersect Assessment Area; therefore, the Project will not result in any impacts to resources included for review under this criterion.

Greenhouse Gas Impacts (30 V.S.A. § 248(b)(5))

This criterion requires that the Project will not result in undue greenhouse gas emissions. For the Project, VHB's consideration of this criterion is limited to the construction phase of the proposed work as the transmission line, when in operation, will not emit greenhouse gases. Construction phase impacts will include emissions from vehicular traffic entering and exiting the Project area, as well as construction equipment associated with site work and equipment operation. This work will not have any undue impact resulting from greenhouse gas emissions.

Water and Air Pollution (10 V.S.A. § 6086(a)(1))

This criterion requires that the Project result in no undue water or air pollution. The Project will address surface water pollution by implementing a site-specific Erosion Prevention and Sediment Control Plan and Best Management Practices (“BMPs”), which are described further in the Soil Erosion and Waste Disposal section of this memorandum. In addition, the Project will ensure water quality protections and avoid undue water pollution through several regulatory approvals to be sought and obtained for the upgrade work including a Vermont Wetlands Permit, Vermont Construction Stormwater Permit (“INDC”), and authorization under Section 401 and 404 of the Clean Water Act. In addition to the Project-specific Erosion Prevention and Sediment Control (“EPSC”) plan and adherence to the ancillary environmental permit approvals, VELCO will implement the policies and procedures outlined in the VEGM, such as contractor trainings regarding permits and sensitive resource areas, signage and flagging for sensitive resources including receiving waters, and by clearly noting these areas on project plans. As such, the Project will not result in undue water pollution. Further, VHB understands that the Project will not generate any wastewater once in operation.

As described above, once in operation, the Project will have no component that will generate air pollution or require an air pollution control permit from ANR Air Quality and Climate Division. Minor temporary emissions associated with vehicular traffic and construction equipment operations are expected during the construction phase, though they are not anticipated to be significant. Dust generated during the construction phase of the Project will be controlled by applying water or calcium chloride, as an alternate BMP, to work areas, as needed, in accordance with the VEGM and applicable BMPs. Through the use of applicable BMPs and adherence to the Project’s ancillary environmental permit conditions, the Project will not generate undue air pollution.

Headwaters (10 V.S.A § 6086(a)(1)(A))

VHB conducted a field review and analyzed available information including soils data, topographic maps, and state-mapped public water supply source protection areas, to determine if the Project Assessment Area is located on any lands that meet the criteria of 10 V.S.A. § 6086(a)(1)(A) as incorporated in the Section 248(b)(5) review. If located in a headwater, a project is required to meet any applicable health and environmental conservation department regulations regarding reduction of the quality of the ground or surface waters flowing through or upon lands that are not devoted to intensive development. The criteria for headwaters are as follows:

- i) headwaters of watersheds characterized by steep slopes and shallow soils;
- ii) drainage areas of 20 square miles or less;
- iii) above 1,500 feet elevation;
- iv) watersheds of public water supplies designated by the Agency of Natural Resources;
- v) areas supplying significant amounts of recharge waters to aquifers.

It is VHB's opinion that the lands within the Assessment Area do not meet the character of the headwater criteria. While the Assessment Area contains areas of locally steep terrain (greater than 15 percent), with somewhat shallow soils, and crosses two HUC12 drainage area less than 20 square miles, it does not exceed 1,500 feet elevation and does not cross a state-mapped groundwater or surface water Source Protection Area. The Assessment Area is also within and adjacent to the St. Albans Bay / Lake Champlain HUC12 drainage area, which covers 170 square miles of the Lake Champlain basin and surrounding valley.

The Project will not adversely affect groundwater or surface water because the Project will meet applicable health and DEC regulations regarding the quality of groundwater and surface waters. Construction phase soil disturbance will require an Individual Construction Stormwater Permit and will follow a site-specific Erosion Prevention and Sediment Control Plan in addition to guidance provided in the VEGM. The Project will follow BMPs for pole removal and installation as included in Appendix A of the "Pentachlorophenol Report" (ANR 2016). The Project will create approximately 0.4 acres of new impervious surface, which does not exceed the 0.5-acre threshold requiring an operational stormwater management permit.

While there are a number of areas where the Project meets one or more of the statutory criteria for a headwaters area, the Assessment Area does not meet the character of the headwater criteria. Regardless, VELCO has designed the Project to avoid adversely affecting groundwater and surface water by meeting all applicable health and DEC regulations pertaining to the quality of groundwater and surface water. There will be no reduction in ground or surface water quality of headwaters or non-headwater areas from the construction and/or operation of the Project.

Waste Disposal (§ 6086(a)(1)(B))

The Waste Disposal criterion requires that a project meet applicable health and environmental regulations regarding the disposal of waste and not involve injection of waste material or any harmful or toxic substances into groundwater or wells. For the Project, VHB's consideration of waste disposal involves sanitary wastewater, stormwater runoff, treated utility poles, and general construction debris.

VELCO will dispose of all construction debris that cannot be re-used or recycled in accordance with Vermont Department of Environmental Conservation ("DEC") waste management rules and BMPs. Management and disposal of utility poles throughout the Project will follow BMPs for the use of Pentachlorophenol-treated utility poles (ANR 2016). In addition, the VEGM outlines spill response procedures for releases generated by construction equipment and requires all contractors to maintain spill response kits to respond to incidental spills associated with construction activities and equipment. Sanitary waste will be collected through portable toilets, and managed by a sanitation company, as no permanent wastewater system is required or proposed for this existing transmission line rebuild. As noted earlier in the headwaters section, disposal related to stormwater will be addressed through the construction stormwater permit and the practices outlined in the VEGM.

As described above, the Project will meet the applicable health and DEC regulations regarding the disposal of waste and does not involve the injection of waste materials into

groundwater or wells and once constructed, the upgraded K42 transmission line will not generate wastewater. Therefore, the Project will not have an undue adverse effect to the environment associated with waste disposal.

Water Conservation (§ 6086(a)(1)(C))

The Water Conservation criterion is met if the project design incorporates water conservation principles. The Project will not use water for operational purposes, will not require on-site water supplies, and will not involve expansion or redevelopment of existing water supplies. Only minor amounts of water may be needed for construction phase temporary dust suppression or to establish temporary or permanent vegetative coverage as needed. Therefore, the proposed Project will not have an undue adverse effect on water supplies.

Floodways (10 V.S.A § 6086(a)(1)(D))

The Act 250 Floodway criterion, as incorporated into Section 248 review, takes into consideration a project's effect on both floodways and floodway fringes. Per 10 V.S.A. § 6001(6), a "flood hazard area" is "the land in the flood plain within a community subject to a one percent or greater chance of flooding in any given year" (44 CFR 59.1), where a one percent chance of flooding is synonymous with the 100-year floodplain. A project's impacts are considered with respect to both flood inundation and fluvial erosion hazards pursuant to the Flood Hazard Area and River Corridor ("FHARC") Protection Procedure (ANR 2017).

The Flood Hazard Area ("FHA") and River Corridor ("RC") Protection Procedure addresses both inundation risks as represented by FEMA-mapped flood information, and potential fluvial erosion risks associated with the geomorphic principles necessary to achieve stable fluvial processes. The River Corridor consists of the meander belt or fluvial erosion hazard area, which is defined as the lateral width of a stream corridor that may be subject to fluvial erosion from stream channel lateral migration as well as a 50-foot riparian buffer outside of this meander belt (ANR 2017b). The meander belt is typically determined by geomorphic assessments of channel bankfull width, meander centerline, confining lateral topography, channel type, and current channel adjustments, which is then translated into the channel-width-to-belt-width ratio, dependent on stream sensitivity type and adjacent landform. For field-delineated perennial stream features without a state-mapped River Corridor, a 50-foot-wide River Corridor is assigned by VHB and measured from the limits of top-of-bank or top-of-slope.

To assess the presence/absence of FHA and RC and to evaluate impacts to both, VHB conducted desktop and field verifications. VHB relied on FEMA-mapped flood information, which required digitization to effectively evaluate Project impacts, as well as VHB-generated baseflood elevation modeling for several FHAs crossing the Assessment Area. VHB also reviewed state-mapped RC and relied on field-mapped stream features to assign a 50-foot RC to perennial streams where required. From this review, VHB found the Assessment Area to cross 10 occurrences of FHA, some of which are associated with the same watercourse, and 14 occurrences of RC, as shown on the Natural Resources Map (Appendix A).

In accordance with FHARC Procedure, VELCO is siting replacement structures to minimize or avoid FHA and RC wherever practicable. Where structures must remain within FHA and RC, structures are moved farther away from the watercourse than the existing structure, with the exception of Structure 264 where siting is limited based on design constraints associated with angle structures. Impact avoidance and minimization associated with this structure will be addressed through the FHARC Permit. Project access will cross FHA and RC utilizing existing, permanent structures, or by placing timber mats for the construction phase of the Project. Matted stream crossings associated with FHA or RC occur in five locations and will be included in FHARC permit applications as temporary structures (timber at bridge), which may be left in place for greater than 180 days.

VHB understands that VELCO proposes a cut/fill access road in FHARC associated with Stevens Brook between structures 334 and 335, and a cut fill road and crane pad at Structure 414 near the Missisquoi River. The slope of the bank prohibits the use of matting to provide access and cut/fill to engineer the access is necessary to allow for safe equipment travel and work areas. Cut/fill roads and pads will be constructed by box-cutting and backfilling with imported material, or by re-working native material, so as not to change the existing elevation, flood storage capacity, or lateral mobility of the watercourse. Through design, avoidance, and minimization, the Project will obtain permit approval under the FHARC Rule, and as such, will not restrict or divert the flow of floodwaters and will not significantly increase the peak discharge of the watercourse.

Streams (10 V.S.A § 6086(a)(1)(E))

This Act 250 criterion requires that projects will, when feasible, maintain natural stream channel condition, and will not endanger the health safety, or welfare of the public or adjoining landowners (10 V.S.A. § 6086(a)(1)(E)).

When applicable, VHB's stream delineation flagging is conducted pursuant to ANR Riparian Buffer Guidance (ANR 2005). Stream Top of Bank ("TOB") and Top of Slope ("TOS") are flagged in the field according to ANR Riparian Buffer Guidance. Stream TOB and TOS are flagged on larger channels and stream center-line ("SC") is flagged for smaller channels; all flagging is labeled with the stream ID and flag number. Stream determinations and Ordinary High Water ("OHW") width measurements follow guidance provided in the United States Army Corps of Engineers ("USACE") Regulatory Guidance Letter No. 05-05: Subject - Ordinary High-Water Identification (USACE 2005). OHW limits are flagged when applicable, typically on larger stream features. Stream flow regimes are preliminarily classified as ephemeral, intermittent, or perennial, and are determined based on qualitative observations of instream hydrology indicators at the time of observation, as well as geomorphic characteristics, and are subject to professional judgment.

During 2022 and 2023 fieldwork, VHB delineated or confirmed the presence of 37 water features (*i.e.* streams) consisting of 14 perennial water features, 6 intermittent water features, one intermittent/ephemeral feature, one ephemeral water feature, and 15 ditches within the Assessment Area. Of note feature S-HI-3 is displayed as both an intermittent and perennial feature as the upper reach near structure 409 is characterized by intermittent flow. The stream exits the Assessment Area where it joins another feature before re-entering the

Assessment Area as perennial near structure 410. VELCO is proposing a new culvert within the intermittent portion of this stream. Ditches are mapped and assigned a flow regime in order to determine jurisdiction for upstream or downstream features. Representative site photos are provided in Appendix C, and additional information for each stream is provided in the Wetland and Waters Summary Table (Appendix D).

There are several named streams or brooks delineated within the Assessment Area, in addition to the Missisquoi River, including:

- › Stone Bridge Brook
- › Mill River
- › Stevens Brook
- › Hungerford Brook

Unnamed streams generally consist of tributaries to the larger, named streams, Missisquoi River, or Lake Champlain. For design planning, 50-foot riparian buffers are shown on the plans and extend outward from centerline, or TOB/TOS, of intermittent and perennial streams. A 100-foot riparian buffer is assigned to the Missisquoi River. During Project design, efforts were made to site replacement structures outside of riparian buffers, where feasible, or at least farther from the watercourse than the existing structure, as described in the Floodway section above. Examples of this occur at Structures 232, 340, 404, and 414. Tree clearing will be limited to typical ROW maintenance, including the removal of danger trees and will not change the function or value of existing riparian buffer. As such, stream crossings and their associated riparian buffers will remain largely unchanged from current condition and will not have an undue adverse impact.

Temporary access across delineated streams required for the construction phase of the Project will be accomplished through the placement of timber construction mats, as described in the VEGM. Mats will span bankfull width to protect stream banks and to provide adequate volume for water flow.

Construction activities are proposed within four delineated stream channels, consisting of three new culverts and one replacement culvert, all of which occur in intermittent features. Culvert design and installation will follow guidance outlined in *Guidelines for the Design of Stream/Road Crossings for Passage of Aquatic Organisms in Vermont* (FWD 2009) and will seek federal approval under Section 404 of the Clean Water Act. As no in-stream work is proposed within perennial watercourses, the Project does not require a Vermont Stream Alteration Permit. In addition, the Project will meet the Vermont Water Quality Standards and will receive approval under a Vermont Section 401 Water Quality Certification.

Based on proposed work practices, project design, and approval under applicable permits (if required), the Project will, whenever feasible, maintain the natural condition of the stream, and will not endanger health, safety, or welfare of the public or of adjoining landowners.

Shorelines (10 V.S.A § 6086(a)(1)(F))

Shorelines are defined under Act 250 as the land adjacent to the waters of lakes, ponds, reservoirs, and rivers. Shorelines include the land between the mean high-water mark and

the low-water mark of such waters (Argentine 2008). For projects that are within shoreline areas, the following shoreline management criteria are required to be met:

- (i) retain the shoreline and the waters in their natural condition;
- (ii) allow continued access to the waters and the recreational opportunities provided by the waters;
- (iii) retain or provide vegetation which will screen the development or subdivision from the waters, and;
- (iv) stabilize the bank from erosion as necessary with vegetation cover.

The Project crosses one river and no lakes, ponds or reservoirs. The shoreline associated with the Missisquoi River will remain in its current condition as the Project will use an existing and maintained ROW. The shoreline and waters will maintain existing conditions, and no changes in access will result from the Project, with the exception of access restrictions during structure setting and wire pulling required to establish a safe work zone for construction crews and the general public. Vegetative cover will remain the same and the banks will remain stabilized through implementation of VELCO's vegetation management cycle, which trims compatible species but does not result in soil disturbance. As the Missisquoi River is also a navigable water, the Project will obtain federal approval under Section 10 of the Rivers and Harbors Act for a new aerial crossing, which will ensure continued recreational and commercial use of the river.

As no work is proposed between the land between mean high water and mean low water, and the management criteria associated with lands adjacent will be met, the Project will "preserve the shorelines of Vermont's lakes and ponds and rivers and stream."

Wetlands (10 V.S.A § 6086(a)(1)(G))

The wetlands criterion under Act 250, as reviewed under Section 248, requires that the proposed Project comply with the Vermont Wetland Rules ("VWR") (ANR 2020). The VWR regulate significant wetlands (Class I and Class II wetlands) and their buffers. Impacts to Class III wetlands are not part of criterion 1(G) but are generally reviewed under section 248(b)(5) (no undue adverse impacts on the natural environment), and other criteria. In addition, proposed impacts to Class III wetlands are regulated by the USACE Section 404 permit program as well as the related DEC Section 401 Water Quality Certification review process.

The entirety of the Assessment Area was field-reviewed for wetlands during the 2022 and 2023 growing season. Leveraging wetland delineation data from 2012, VHB confirmed existing boundaries, modified boundaries based on changes to site conditions, and/or delineated new features that were not identified during previous work. Wetland delineations were made pursuant to the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Routine Determination Method (USACE 2012). Attributes were noted to record information relative to wetland classifications under the VWR, general characteristics, potential functions and values of the wetland, and any unique characteristics observed during the site assessment, along with other considerations relevant to support site findings. Wetlands were classified in accordance with

the Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979). Wetland functions criteria were qualitatively evaluated based on the field notes and observations according to the VWR Section 5 (ANR 2020). Wetland features were mapped in the field using sub-meter capable mobile data collection technology, which also allowed delineators to capture qualitative data including wetland type, functions and values, and notes related to unique aspects of features.

During the 2022 and 2023 growing season, VHB confirmed, modified, or mapped 86 wetland features within the Assessment Area, totaling approximately 50 acres. 56 wetlands are considered Class II and subject to DEC and USACE jurisdiction, and 30 are considered Class III and only subject to USACE jurisdiction. Features are depicted in the Natural Resources Map (Appendix A). Wetland boundaries and classifications were reviewed by DEC and USACE on October 17, 2021, who confirmed boundaries and classifications following minor modifications to a subset of wetland features. The delineated wetlands vary in size, vegetative cover types, and functions and values, though the majority consist of smaller features characterized as palustrine emergent or palustrine scrub-shrub. This cover type is largely attributed to VELCO's vegetation management cycle within the ROW. Further details on wetlands, including the functions and values provided, are included in the Summary of Delineated Wetlands Table (Appendix D). Delineated wetlands are also depicted in the spatial data provided to VELCO following fieldwork. USACE Wetland Determination Data Forms were completed for a subset of representative features (and approximately every mile) within the Assessment Area (Appendix E). Representative photographs are provided in Appendix C.

Impacts to Class II wetlands or their associated 50-foot buffer zones for uses other than those allowed under the VWR, require a Vermont Wetland Permit from DEC. It is VHB's understanding that certain Project activities in Class II wetland and buffer proposed will not require a Vermont Wetland Permit as they meet the criteria for an Allowed Use under Section 6.08 of the VWR. Temporary proposed access and line replacement activities which will occur within the Class II wetlands and buffer zones, including placement of construction mats in order to access the existing poles or necessary brush clearing to facilitate access and pole removal and installation of new structures are considered Allowed Uses under Section 6.08 of the VWR as routine repair and maintenance of utility corridors.

While VELCO will use existing access routes and matting to the greatest extent practicable to achieve access through wetlands and wetland buffers, new access roads are proposed where existing access is unsafe for equipment, inaccessible due to lack of existing roads, in areas of high traffic, or considered critical crossings should an emergency response be required to address an outage. These locations were selected to create the crossing with the least impact, such as selecting an area of existing disturbance or working within existing terrain, and design incorporates these avoidance and minimization principles. The Project proposes approximately 0.98 acres of permanent impact to Class II wetlands, and 3.4 acres of permanent impacts to Class II wetlands buffers. Total permanent impacts to Waters of the U.S. are approximately 1.12 acres. These impacts will require a Vermont Individual Wetland Permit, as well as a USACE Section 404 Individual Permit and associated mitigation package.

While the Project will result in impacts to wetlands and wetland buffer, avoidance and minimization is incorporated into Project design. By obtaining a Vermont Individual Wetland Permit, the Project will not violate the rules of ANR relating to significant wetlands.

Vernal Pools

While conducting 2022 field assessments for wetlands and waters, VHB identified potential vernal pools ("PVP"). As the 2022 fieldwork occurred outside of the vernal pool season, VHB identified, photographed, and mapped the extent of PVPs, primarily based on physical characteristics using a combination of definitions from USACE, FWD, and *Wetland, Woodland, Wildland: A Guide to the Natural Communities of Vermont* (Sorenson et. al. 2019). VHB identified four locations within the Assessment Area during 2022 fieldwork, which were subsequently reviewed during the 2023 vernal pool season. On April 18 and May 5, 2023, VHB ecologists identified breeding amphibians within the four previously identified PVPs, however, three of the depressions do not meet the physical definition as they are not "ephemeral pools that occur in natural basins within upland forests" (FWD). These occurrences are assumed to provide breeding habitat for amphibians and incorporated into wetland function and value review.

VHB identified one vernal pool, identified as VP-2023-1/2022-HI-1000, located adjacent to Structure 400 in Highgate, Vermont. 2023 spring surveys identified *Ambystoma maculatum* egg masses. In addition, and based on information provided by FWD, VHB identifies a vernal pool on the Natural Resource Maps (Appendix A) located outside of the Assessment Area west of the ROW near Structure 277 in St. Albans, Vermont. VHB Ecologists were not able to field-review the location provided by FWD based on access permissions but are assuming the depression is a viable vernal pool. A 100-foot vernal pool buffer is assigned to the edge of the two pools. The Project will avoid direct impacts to the depression though some extent of tree removal associated with normal vegetation management and danger tree removal practices is expected within the 100-foot vernal pool buffer. To avoid impacts to breeding amphibians during the construction period, the Project will:

- › Conduct all vegetation and tree work by hand during the amphibian migration and breeding season, assumed to be between mid-April and late-May;
- › Leave a portion of cut vegetation in place to create micro-habitat for migrating amphibians. Excessive amounts of slash will not be left behind.
- › Not blast for rock removal within the 100-foot vernal pool buffer;
- › Install an exclusionary barrier around on-going construction activities within the 100-foot vernal pool buffer during the migration and breeding season;
- › A trained environmental inspector will conduct daily amphibian sweeps prior to construction crews entering the vernal pool buffer during the migration and breeding season.

By implementing the BMPs and conservation measures described above, the Project will not result in undue adverse impacts to vernal pools or significantly imperil necessary wildlife habitat.

Water Supply (§ 6086(a)(2) and (3))

In order to satisfy the Act 250 criterion for Water Supply, a project must have sufficient water available and not place unreasonable burden on existing water supplies. The Project design

does not involve expansion or development of any additional water supplies, though as previously described, minimal amounts of water may be used during construction for dust control and vegetative restoration. Water necessary for these purposes will be acquired in accordance with state and federal regulations and VELCO will work with appropriate officials to withdraw water from municipal or natural sources during construction. As such, there will be no undue adverse impacts to water supplies as a result of the Project.

Soil Erosion (10 V.S.A § 6086(a)(4))

In order to satisfy this Act 250 criterion, a project must not cause unreasonable soil erosion or significant drainage or runoff problems (Argentine 2008). Determination of compliance with this criterion involves two components: (1) preventing soil erosion, and (2) preventing a reduction in the land's capacity to hold water.

According to available Vermont Center for Geographic Information ("VCGI") data and soil descriptions from the Natural Resource Conservation Service ("NRCS"), the Assessment Area is dominated by the following soils:

- › Farmington-Rock outcrop complex, 6 to 15 percent slopes;
- › Farmington-Rock outcrop complex, 15 to 60 percent slopes;
- › Scantic silt loam, 0 to 3 percent slopes; and
- › Windsor loamy fine sand, 3 to 8 percent slopes.

In addition, soils within the Assessment Area range from a slope rating of 0 to 60 percent, and an erodibility ranking of not highly erodible to highly erodible.

While a percentage of the Assessment Area is characterized by steep slopes and/or highly erodible soils, the Project will develop a site-specific Erosion Prevention and Sediment Control Plan which will include mechanisms for temporary and permanent stabilization, as well as post-construction restoration. This plan will be used in conjunction with the VEGM to prevent the risk of soil erosion and runoff from the Project site.

Based on preliminary design, VHB understands construction-phase disturbance will total more than one acre, thus requiring stormwater discharge permitting. Proposed construction practices and Project phasing suggests authorization under an Individual Construction Stormwater Discharge Permit will be required.

Proposed permanent access roads consisting of cut/fill material or the placement of stone-on-fabric will be scarified, seeded, and mulched as part of Project restoration. This restoration approach results in a vegetated pervious surface that provides on-going access for equipment required for maintenance and emergency needs. One new impervious access road, approximately 0.4 acres, is proposed at the St. Albans Tap to allow safer access to the Tap separate from private driveways. However, the Project will not result in more than 0.5 acres of new impervious surfaces, and an operational stormwater permit or stormwater management plan will not be required.

Compliance with applicable stormwater permits, the site-specific EPSC Plan, and the VEGM will prevent any undue soil erosion from the areas of earth disturbance. There will also be no

significant or measurable reduction of the land's capacity to hold water and the nature of this Project will not result in an appreciable change in landform or cover over existing and managed conditions. As such, there will be no dangerous or unhealthy conditions associated with soil erosion as a result of the Project, and there will be no undue adverse effect from soil erosion.

Rare and Irreplaceable Natural Areas (RINA) (10 V.S.A § 6086(a)(8)), and Necessary Wildlife Habitat and Endangered Species (10 V.S.A § 6086(a)(8)(A))

To satisfy these criteria, a project must be shown to have no undue adverse effect on Rare and Irreplaceable Natural Areas ("RINA") (10 V.S.A. § 6086(a)(8)). Additionally, a project must not destroy or significantly imperil Necessary Wildlife Habitat ("NWH") or any Endangered Species (10 V.S.A. § 6086(a)(8)(A)).

Rare and Irreplaceable Natural Areas ("RINA")

Significant natural communities can be deemed RINA as part of the four-part test required by the Act 250 Criterion. Determinations of "Significance" are ultimately made after utilizing a combination of community ranking, current condition (age, degree of disturbance), and landscape context (size, degree of fragmentation) in order to determine an "Element (or Community) Occurrence Ranking." Rare (S1 and S2) natural communities can be considered significant when quality-ranked A, B, or C. Uncommon (S3) and common (S4) types require a quality rank of A or B to be considered significant. Very common (S5) types require an A-rank (ANR 2016). Significant natural communities can be deemed RINA under Criterion 8, based on the combination of the natural community rarity and quality ranking. Additional considerations for RINA include the presence of RTE species in these communities, as well as overall natural community associations.

As an initial step to screen the Project area for the potential presence of state-significant natural communities that could be considered RINA, VHB queried the Vermont NHI database to locate all mapped state-significant natural community occurrences within a specified radius of each Project component and found the following to occur within 1-mile of the Project:

- › Deep Bulrush Marsh (S4);
- › Deep Broadleaf Marsh (S4);
- › Limestone Bluff Cedar-Pine Forest (S2);
- › Lakeside Floodplain Forest (S3);
- › Red Maple-Northern White Cedar Swamp (S4); and
- › Silver Maple-Ostrich Fern Floodplain Forest (S5).

VHB used this list of natural communities to prepare targeted natural community field surveys under the assumption that the prevailing landscape conditions could produce similar

natural community types within the Project area. Additionally, VHB used this list of natural community types to identify potential target RTE species known to occur within these natural communities (per Thompson, et. al. 2020). Additional details are provided in the *Vermont Potential Rare, Threatened, and Endangered Species and Natural Communities in the Project Region and Onsite Habitats Summary* (Appendix F).

While none of the occurrences identified through the EO review were observed within the Study Area, an occurrence of riverside outcrop (S3) was observed within the Assessment Area and mapped along the Missisquoi River. VHB observed forested areas adjacent to the Assessment Area to generally consist of northern hardwood forest (S5), rich northern hardwood forest (S4), and hemlock-northern hardwood forest (S5), with limited occurrences of dry oak-maple limestone forest (S3), mesic clay plain forest (S2), and riverside outcrop (S3). The Project will avoid direct and indirect impacts to the riverside outcrop community by siting structures outside of its limits and precluding equipment access during construction. Further, impacts to adjacent communities will be avoided as new tree clearing outside the ROW is not proposed with the exception of danger tree removal which is consistent with historic and future vegetation management for the operation of the overhead electric lines within the established ROW.

VHB also conducted baseline surveys identifying non-native invasive species ("NNIS") within the Assessment Area. NNIS are assumed to be those plant species on the "Quarantine #3 – Noxious Weeds" ("Quarantine List") and the Invasive Species Watch List for Vermont ("Watch List"). Information gathered through the baseline survey will inform monitoring efforts within and adjacent to natural resources, including mapped Natural Communities.

To prevent additional spread of NNIS within the ROW or to adjacent natural communities, VELCO will require all construction personnel to follow their *Non-Native Invasive Species Monitoring and Control Plan for the FCLU Project* (VELCO 2023). The plan generally includes contractor training in identification of NNIS; requirements to clean equipment before arriving and departing a work area; ensuring topsoil, seed mixes and mulch are weed-free; and conducting post monitoring inspections. By implementing these practices, VELCO will minimize the chance of introducing new NNIS or spreading existing NNIS within the ROW and/or to adjacent natural communities.

The ROW will continue to be managed in the same manner, resulting in no material change to the current community type within the ROW. By using avoidance measures combined with signage, training, and delineation on Project mapping as outlined above, the Project will not have an undue adverse effect on rare or irreplaceable natural areas.

Necessary Wildlife Habitat ("NWH")

NWH is generally defined as deer wintering habitat, black bear forage habitat (beech mast or wetlands), black bear travel corridors, moose overwintering area, or grassland bird habitat. There is no identified black bear forage habitat, black bear travel corridors, or moose overwintering area within the Assessment Area. There are two ANR-mapped Deer Wintering Areas ("DWAs") along the Project corridor occurring in Georgia, Swanton and Highgate, which were confirmed through pre-fieldwork coordination with FWD and field-reviewed by VHB during the 2022 field season. VHB refined ANR mapping to reflect current conditions

(Appendix A). The proposed project will have no direct impacts on DWA, as work will be focused within the cleared transmission ROW with tree cutting associated with danger tree removal and standard vegetation management. Danger tree removals within mapped DWA total less than one percent (approximately 0.6 percent) of the surrounding state-mapped area and are limited to edge habitat associated with the existing ROW. Work will occur within 300 feet of DWA, however, work in a given area will be temporal with disturbance limited to noise associated with construction equipment. Linear construction projects occur in sequential phases and will limit the amount of time spent in a given section of the transmission line resulting in any potential indirect impact occurring for a relatively short time frame. Further, VHB anticipates deer will relocate to other portions of mapped DWA with suitable forested cover during intermittent times of noise-producing construction.

VHB understands that FWD now considers grassland bird habitat NWH. Suitable habitat, as defined in FWD's *Guidance for the Review and Mitigation of Impacts to Grassland Bird Habitat in Connection with Regulated Projects in Vermont* (2021), is present within the Assessment Area. To determine suitable habitat, VHB reviewed fields that crossed the Assessment Area to determine if they are greater than 20 acres and identified seven fields meeting the minimum size that overlap the Assessment Area. Aerial photographs and field-collected photographs were reviewed to determine fields that were not maintained as row crops, resulting in one field between Structure 224 and 230 that met the physical criteria for grassland bird habitat. VHB conducted surveys on June 16 and June 30, 2023, in accordance with *VFWD Guidelines for Grassland Bird Surveys in Regulated Projects* (FWD 2022) and identified use by grassland species including *Falco sparverius* (American kestrel), *Dolichonyx oryzivorus* (bobolink), and *Passerculus sandwichensis* (Savannah sparrow) within the Assessment Area. During the June surveys, *Sturnella magna* (Eastern meadowlark) (S2B, State-Threatened) was also observed flying and resting outside of the Assessment Area. This occurrence is further described in the endangered species section below.

As the proposed Project does not change the underlying land use and will result in similar overhead infrastructure within the existing cleared ROW, impacts will be temporary in nature, and will be mitigated through payment into the Bobolink Fund for the duration of Project construction for work occurring between Structures 224 and 230.

Through avoidance of direct impacts to NWH and mitigation for temporary impacts to grassland bird habitat the Project will not destroy or significantly imperil NWH.

Endangered Species

Endangered Species include those that are defined as "threatened" or "endangered" on the Vermont state endangered and threatened species list and are thus protected under the Vermont Endangered Species Rule (10 V.S.A. Chapter 123). Species protected under the federal Endangered Species Act (16 U.S.C. §1531 et seq. 1973) are included as well.

Rare, Threatened and Endangered Plants

Target Species and Habitats for Field Surveys

VHB conducted an initial endangered species review by querying the Vermont NHI database for EO's of threatened and endangered species within a one-mile radius of the Project. VHB Ecologists evaluated on-site habitats for each project component and determined whether there was potential habitat for any of the RTE species identified in the NHI query. In making determinations about the potential for the Project Assessment Area to provide habitat for an RTE species, VHB relied on a) published accounts of species distributions and habitat preferences; b) Geographic Information Systems ("GIS") mapping of soils, bedrock, and surficial deposits; c) habitat descriptions included in Element Occurrence reports; and d) institutional knowledge (VELCO, VHB and FWD) of the Project region. RTE species with potential habitat within the Project Assessment Area were considered "target species" for VHB Botanists and Ecologists conducting field work.

VHB also conducted an initial review for species protected under federal endangered species law using the U.S. Fish and Wildlife Service Information for Planning and Consultation ("IPaC") database portal (see Appendix G).

Based on the methods described above, VHB, VELCO and FWD developed a comprehensive list of target species, to survey for plants protected under the endangered species law. In addition to targeting species, VHB conducted a general survey within the Project Assessment Area focusing on naturalized areas. As such, maintained agricultural fields, lawns, roadways, and developed (*i.e.* paved) areas were excluded. Surveys for RTE animal species were excluded from field work with the exception of grassland bird breeding surveys, as VHB assumes Project components can avoid impacts to desktop-identified species by avoiding habitat (such as aquatic), conducting sweeps to remove individuals ahead of construction (such as vernal pool protections listed within that section), or by mitigating construction-phase impacts.

Field Surveys and Results

VHB botanists conducted field surveys in accordance with ANR's *Guidance for Conducting Rare, Threatened, and Endangered Plant Inventories in Connection with Section 248 Projects* (ANR 2016a) between July 1 and September 30, 2022, and July and August 2023. A list of identified species is provided as Appendix H. During those surveys, VHB identified or confirmed the presence and extent of previously mapped populations of the following occurrences of RTE plant species within the Assessment Area:

ROW and Substations

- *Calystegia spithamea* (S2, State-Threatened) – Near proposed structure 418
- *Carex merritt-fernaldii* (S1, State-Rare) – East of the VELCO Georgia Substation
- *Cyperus houghtonii* (S2, State-Threatened) – Near proposed Structure 210Y
- *Desmodium perplexum* (S2, State-Rare) – Adjacent to the VELCO Highgate Substation
- *Gentiana andrewsii* (S2, State-Threatened) – Proposed Structures 231-232; 314-315

With the exception of *Cyperus houghtonii* ("CYHO"), the Project will avoid impacts to RTE plant species through avoidance of mapped populations. Access roads, work pads, and staging areas are sited to avoid direct impacts to RTE. Specifically, the following avoidance measures will be implemented for each protected plant:

- › Population boundaries will be depicted on Project compliance plans for use during construction activities. Additionally, high visibility boundary flagging and signage will be installed around each population to ensure avoidance during construction activities.
- › To enhance the effectiveness of these protective measures, VELCO will resurvey the boundaries of these previously documented populations prior to the start of construction activities.
- › Project-specific training will be provided to all VELCO employees and contractors working on the Project that will include information on how to identify plants in the field, identify locations on Project plans, and to identify flagging, signage, and barriers intended to preclude access to known occurrences.

Where work is required within 25 feet of documented RTE populations, five years of post-construction NNIS monitoring of the adjacent work areas will be completed, with annual reporting to the VT ANR, as outlined in the FCLU NNIS Monitoring and Control Plan. If no NNIS plants are present where work occurs within 25 feet of these RTE occurrences after three years of post-construction monitoring, monitoring and reporting may be discontinued in consultation with ANR. As proposed impacts to *Cyperus houghtonii* are unavoidable based on engineering constraints and Project scheduling, the Project will obtain a species-specific Takings Permit from Vermont Fish and Wildlife Department, and will follow all conditions associated with it, including the mitigation plan.

Though RTE plants are present within the Assessment Area, the Project will not destroy or significantly imperil endangered species as a result of the Project.

Rare, Threatened, and Endangered Animals

Based on the results of VHB's IPaC query, NHI database reviews, and coordination with the FWD, VHB identified RTE animals that occur within one-mile of the Study Area, in addition to potential summer range of northern long-eared bat (*Myotis septentrionalis* or "MYSE"), which is presumed to be the entire state of Vermont and further described below (see Appendix F).

Myotis septentrionalis (S1, State-Endangered, Federal-Endangered)

Although no critical habitat within or adjacent to the Project has been designated for this species by USFWS, the Project occurs within the potential summer range of the federally threatened and Vermont-endangered northern long-eared bat (*Myotis septentrionalis*) ("MYSE"). Potential summer range is considered to be the entirety of Vermont by FWD. As there are no known occurrences of MYSE (including hibernacula) within one mile of the Project area, the Study Area constitutes "Potential MYSE Summer Habitat" under FWD *Regulatory Review Guidance for Protecting Northern Long-eared Bats and Their Habitats* (ANR 2017a). As such, if the Project impacts less than one percent of suitable forested habitat within one mile, no additional conservation measures are required for MYSE. The

surrounding forested acreage within one mile of the Assessments Area is approximately 12,872 acres. This allows the Project to remove up to 128 acres of trees before exceeding the one-percent threshold. As tree clearing will be limited to danger tree removal, standard ROW vegetation management, and limited, selective cutting to accommodate off-ROW access, it will total approximately 0.5 acres and beneath the one-percent threshold outlined in the guidance. As such, no further coordination or conservation measures related to MYSE is required. In addition, a review against the USFWS *Rangewide Northern Long-eared Bat Determination Key* resulted in a "no effect" finding.

From desktop review, 13 Elemental Occurrences ("EO") for RTE animals intersect the Assessment Area include:

1. *Ammocrypta pellucida* (eastern sand darter)(S1, State-Threatened)
2. *Anodontoides ferussacianus* (cylindrical papershell)(S1S2, State-Endangered)
3. *Hybognathus hankinsoni* (brassy minnow)(S2S3, State-Rare)
4. *Ichthyomyzon unicuspis* (silver lamprey)(S2, State-Rare)
5. *Lampsilis ovata* (pocketbook)(S2, State-Endangered)
6. *Lasmigona costata* (flutedshell)(S2, State-Endangered)
7. *Lethenteron appendix* (American brook lamprey)(S1, State-Threatened)
8. *Ligumia recta* (black sandshell)(S1, State-Endangered)
9. *Moxostoma anisurum* (silver redhorse)(S2, State-Rare)
10. *Moxostoma macrolepidotum* (shorthead redhorse)(S2, State-Rare)
11. *Moxostoma valenciennesi* (greater redhorse)(S1, State-Rare)
12. *Noturus flavus* (stonecat)(S1, State-Endangered)
13. *Pyganodon grandis* (giant floater)(S2S3, State-Threatened)

The thirteen occurrences identified above are aquatic species and occur in the Missisquoi River, Hungerford Brook, and/or Stone Bridge Brook. In addition, there is a state-mapped occurrence of *Esox masquinongy* (Muskellunge)(S1, State-Rare) which is mapped outside of the Assessment Area and found in the Missisquoi River near the Swanton Dam. The Project is designed to avoid temporary or permanent access across these resources, thus avoiding direct impacts to the species identified above. Indirect impacts associated with shading will remain unchanged as the ROW will continue to be managed in accordance with VELCO's TVMP, and indirect impacts associated with sedimentation will be addressed through the Project's Construction Stormwater Permit and the VEGM.

During field surveys, one state-threatened bird species, *Sturnella magna*, was identified and is further described below:

Sturnella magna (S2B, State-Threatened)

During 2023 grassland bird surveys, VHB field-observed occurrences of eastern meadowlark in a field between Structures 223 and 230 in the town of Georgia. Two sightings were identified outside of the Assessment Area, consisting of one resting individual and one flying individual. Though the sightings occurred outside of the Assessments Area, VELCO will avoid take of this species by establishing access roads and crane pads outside of the nesting season, presumed to be May 1 to July 31. This area is proposed for overland travel, and if necessary, VELCO will maintain a mowed area commensurate to the access roads and crane pads to preclude birds from nesting within work areas. Once access roads and work pads are established, take is not anticipated.

Through the avoidance of RTE species habitat and the implementation of conservation measures including cutting less than one percent of the surrounding forested area within a one-mile radius, the Project will not destroy significantly imperil any threatened endangered species.

Primary Agricultural Soils (10 V.S.A § 6001(15))

Under 10 V.S.A. § 6001(15), Primary Agricultural Soils ("PAS") are defined as:

(A) An important farmland soils map unit that the Natural Resources Conservation Service of the U.S. Department of Agriculture ("NRCS") has identified and determined to have a rating of prime, statewide, or local importance, unless the (Act 250) District Commission determines that the soils within the unit have lost their agricultural potential. In determining that soils within an important farmland soils map unit have lost their agricultural potential, the Commission shall consider:

- (i) impacts to the soils relevant to the agricultural potential of the soil from previously constructed improvements;
- (ii) the presence on the soils of a Class I or Class II wetland under chapter 37 of this title;
- (iii) the existence of topographic or physical barriers that reduce the accessibility of the rated soils to cause their isolation and that cannot reasonably be overcome; and
- (iv) other factors relevant to the agricultural potential of the soils, on a site-specific basis, as found by the Commission after considering the recommendation, if any, of the Secretary of Agriculture, Food and Markets.

(B) Soils on the project tract that the District Commission finds to be of agricultural importance, due to their present or recent use for agricultural activities and that have not been identified by the NRCS as important farmland soil map units.

VHB's review is limited to the NRCS soil map unit designations where PAS soils are defined as those soils with a prime agricultural soil rating of 1 (most desirable) through 7 (least desirable) with some soils with a rating of 8 included. Soils of statewide importance have an agricultural value of 7 or less and soils of local importance consist of selected soil types with an agricultural value of 8 or less. VHB conducted a review of the NRCS soil map data to determine if PAS were present at the Project site. NRCS soil map units as well as soil

information, including PAS designations, are included on natural resources maps included in the appendices for the Project. PAS soils within the Assessment Area are shown in Appendix B.

The Assessment Area contains a number of soils map units that meet the definition of PAS or areas that are not prime soils that are actively farmed, as listed in the table included with Appendix B. Collectively, these PAS constitute approximately 122.9 acres, which excludes areas of steep slopes, Class II wetlands and buffers, existing development, and rock outcrops, as identified in Appendix B.

In response to guidance received by VELCO from AAFM (dated June 28, 2023), VHB identified and analyzed areas of physical disturbance which “includes construction, excavation, grading, placing items on the soil, cutting or clearing trees, and areas of vehicle usage or other soil compaction”, as identified by AAFM. For this Project, construction-phase physical disturbance includes the use of construction timber matting, overland routes of travel, staging areas, and other activities where no soil disturbance and no or minimal soil compaction is anticipated. Longer-term physical disturbance includes areas of cut and fill, grading, stone roads, and other activities where mitigation such as scarifying, subsoiling, and other techniques for decompaction may be necessary. Both categories of physical disturbance are considered temporary as earth disturbing activities will segregate and maintain topsoil within the mapped soil unit to allow for re-application for farming purposes. VELCO will ensure that soil horizons in PAS remain intact and there will be no permanent impact to PAS in these areas (see Appendix B). There is one area of permanent impact anticipated consisting of an off-ROW access road from Cline Road. If not considered *de minimis* based on overall acreage of impact and associated mitigation, impacts associated with the access from Cline Road will be mitigated through payment into the in-lieu fee program. Overall the Project proposes 31.2 acres of construction-phase physical disturbance, 14.5 acres of physical disturbance, and one acre of permanent loss.

Pole replacement is considered *de minimis*. The negligible soil disturbance from pole removal and replacement construction does not reduce the capacity of the land to support agriculture or silviculture beyond the existing ROW.

Where physical disturbance is proposed, VELCO will windrow topsoil to be used within the PAS soil unit for immediate restoration, or for restoration at the end of the Project’s lifespan. By maintaining PAS on-site and within the limits of the same soil unit, there will be no permanent loss of farming potential. In addition, VELCO and/or its contractors will remove all retired and unused equipment, including all scrap metal, in accordance with VELCO’s BMPs. This will protect against farm equipment entanglement and farm animal ingestion.

Based on avoidance, minimization and mitigation measures described above, it is VHB’s opinion that there will be no undue adverse effects to farming, farming potential, or PAS as a result of the Project based on temporary impacts, existing land use, and mitigation measures.

Summary

On behalf of VELCO, VHB conducted a natural resources assessment and documentation review of the Project Assessment Area, consisting of the K42 Line and associated off-ROW access roads and staging areas in Franklin County, Vermont. The assessment was performed in support of an anticipated application to the Vermont Public Utility Commission for a CPG. The assessment included the evaluation of potential impacts to resources identified in Section 248 criteria including Outstanding Resource Waters (10 V.S.A. § 1424a(d)), Headwaters (10 V.S.A. § 6086(a)(1)(A)), Water Conservation (10 V.S.A. § 6086(a)(1)(C)), Floodways (10 V.S.A. § 6086(a)(1)(D)), Streams (10 V.S.A. § 6086(a)(1)(E)), Shorelines (10 V.S.A. § 6086(a)(1)(F)), Wetlands (10 V.S.A. § 6086(a)(1)(G)), Water Supply (10 V.S.A. § 6086(a)(2) and (3)), Soil Erosion (10 V.S.A. § 6086(a)(4)), Rare and Irreplaceable Natural Areas (10 V.S.A. § 6086(a)(8)), Necessary Wildlife Habitat and Endangered Species (10 V.S.A. § 6086(a)(8)(A)), and Primary Agricultural Soils (10 V.S.A. § 6001). Based on VHB's review, the proposed Project activities if undertaken and constructed as indicated herein and in the Project Plans, will not result in any undue adverse impacts to the above natural resources criteria reviewed under Section 248.

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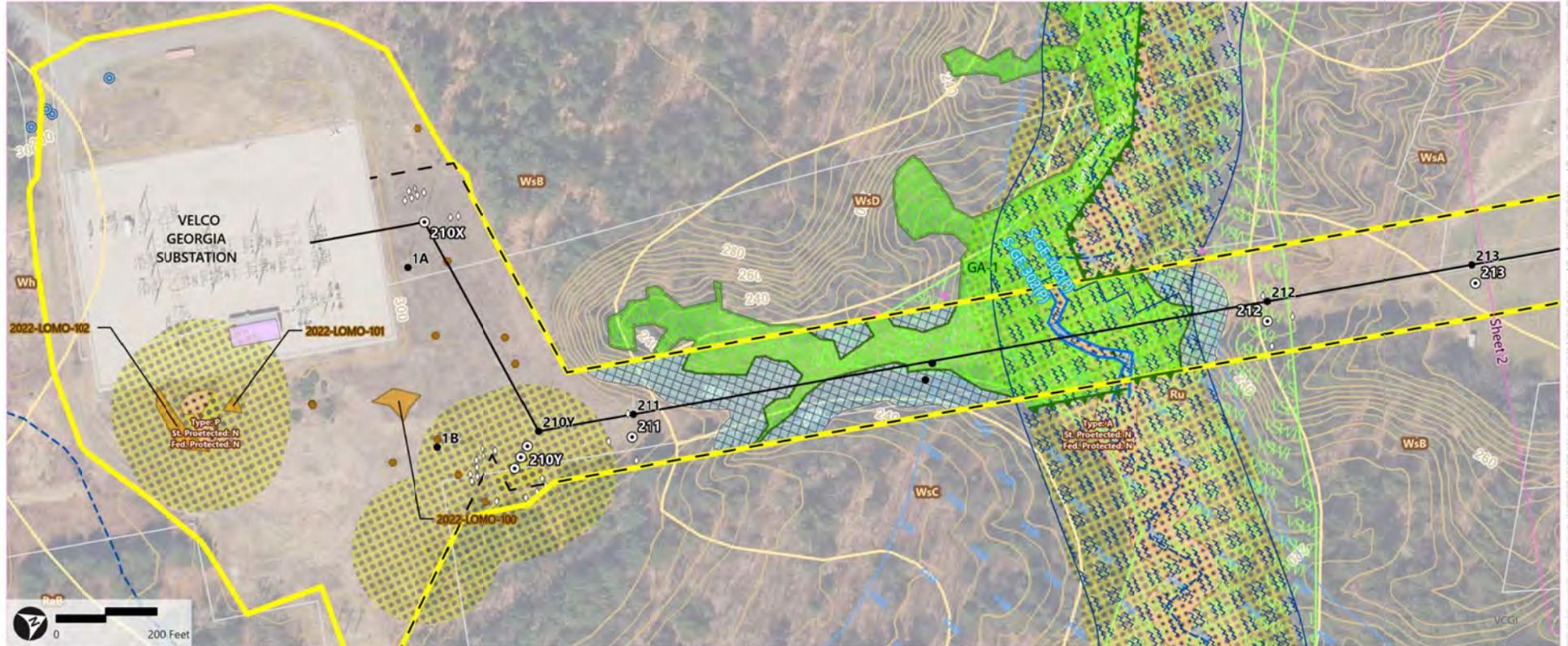
APPENDIX A

Natural Resources Map Series - Sheet 1 of 59

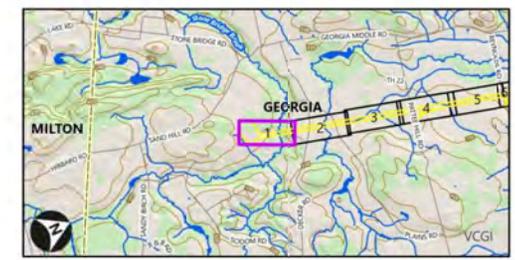
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|--|-----------------------------------|
| Study Area (VHB) | Found Culvert (VH-B) | Class II Wetland Buffer - 50 ft. (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Wetland Extends (VHB) | VNHI Element Occurrence (FWD) |
| Proposed Structures (VELCO) | Wetland Determination Data Point (VHB) | Perennial Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | NNIS - Point (VHB) | Riparian Stream Buffer (VHB) | Building Footprints (2016) (VCGI) |
| Existing Structure (VELCO) | RTE (VHB/VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | NNIS - Polygon (VHB) | River Corridor (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Delineated Wetland (VHB/VELCO) | FEMA Flood Zones (approx.) (NRPC) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

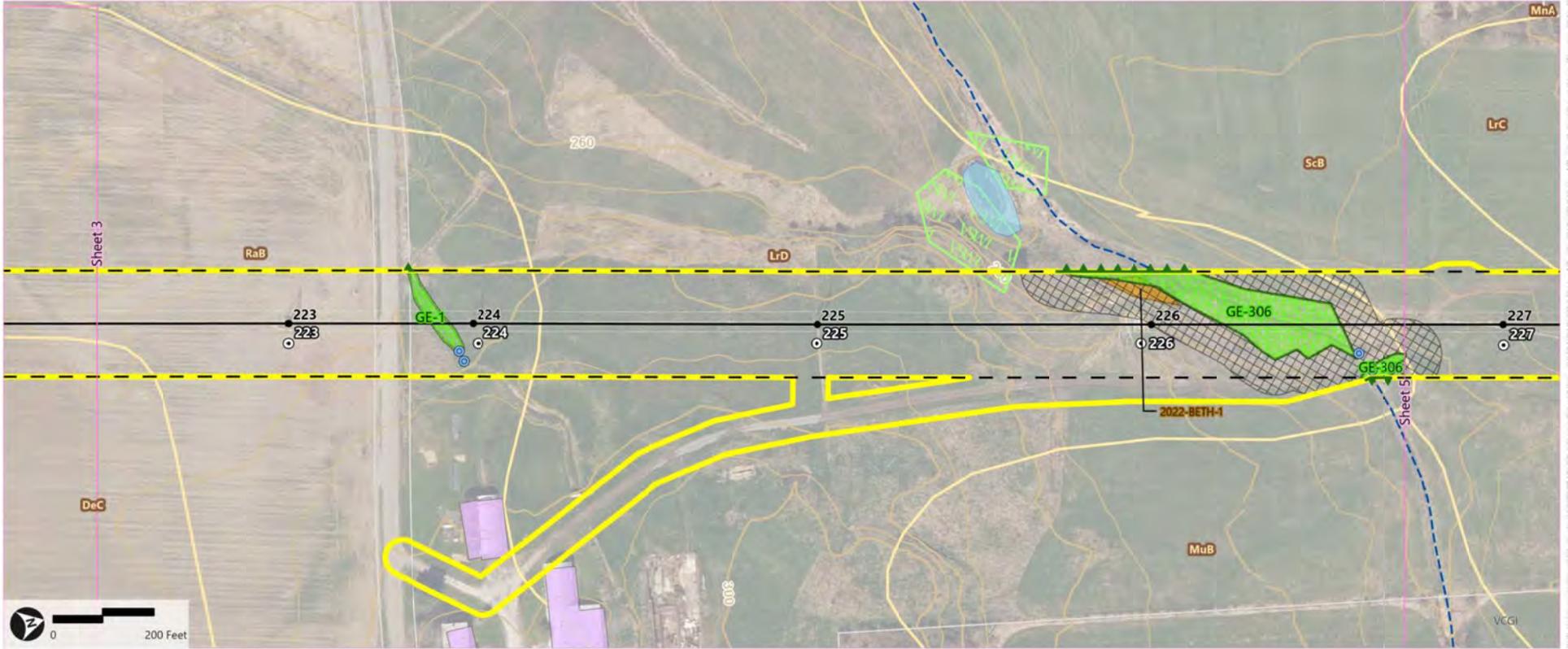
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Natural Resources Map Series - Sheet 4 of 59

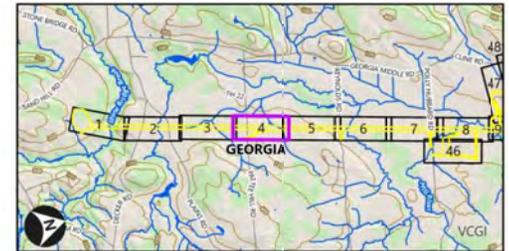
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | NNIS - Polygon (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Delineated Wetland (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Building Roofprints (2016) (VCGI) |
| Existing Structure (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Ephemeral Stream (VHB/VELCO) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | |
| Found Culvert (VHB) | Waterbody (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

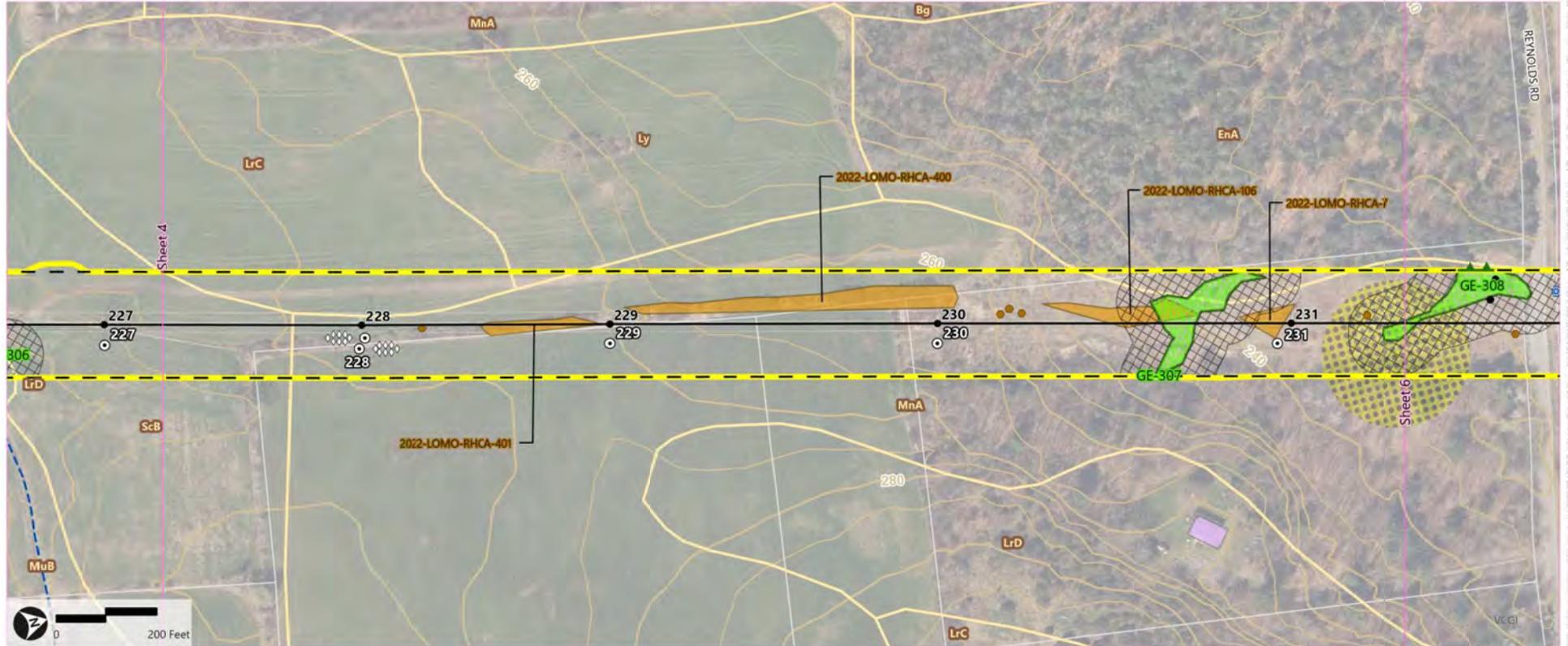
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Natural Resources Map Series - Sheet 5 of 59

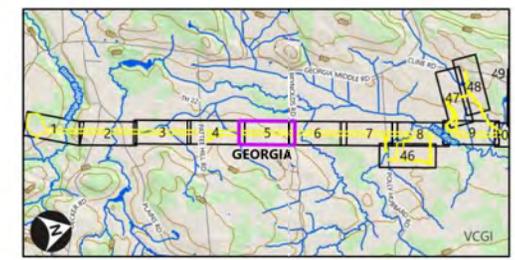
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Intermittent Stream (VHB/VELCO) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | Stream (ANR) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | RTE (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | |
| Found Culvert (VHB) | Wetland Extends (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Masies, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

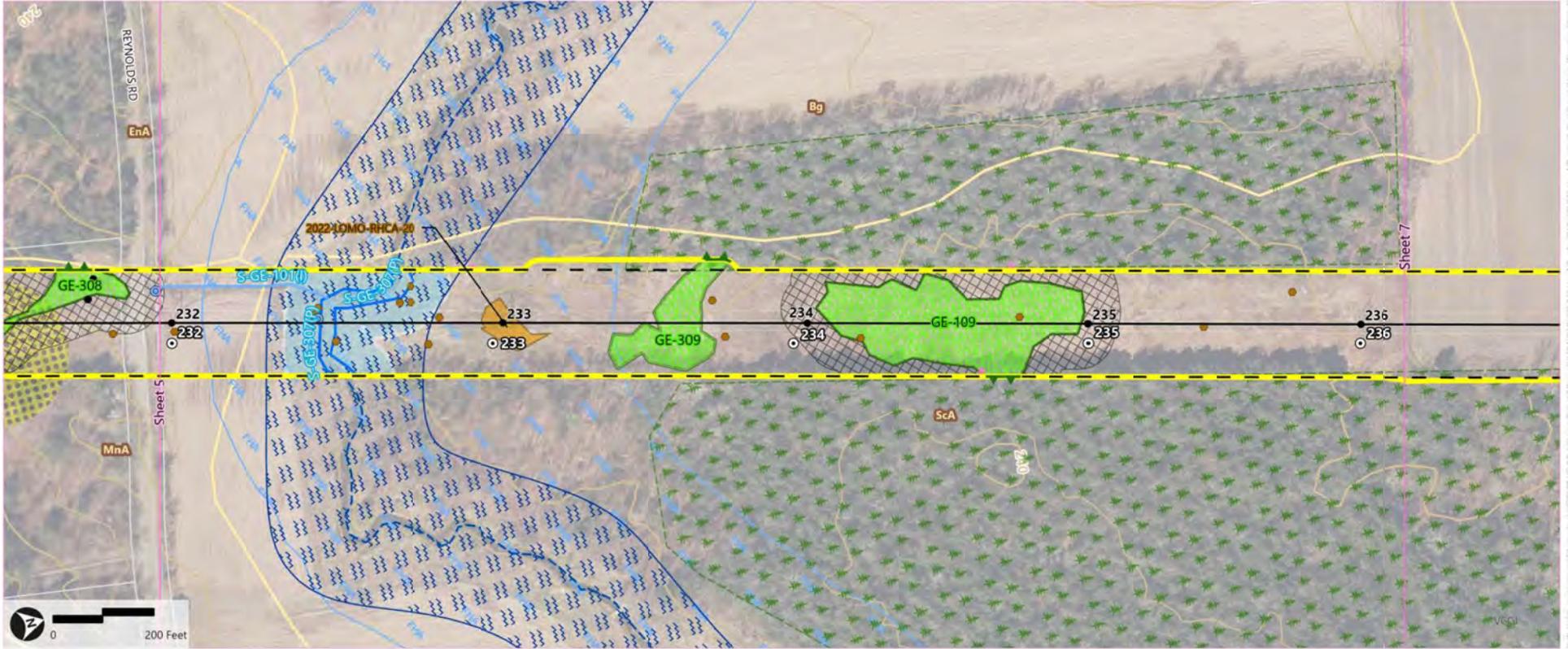
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Natural Resources Map Series - Sheet 6 of 59

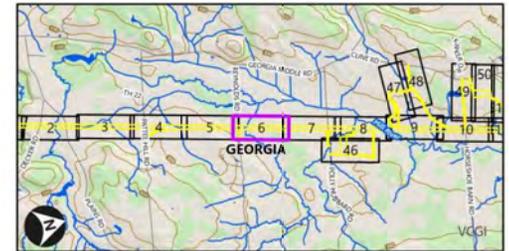
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|--|-----------------------------------|
| Study Area (VHB) | Found Culvert (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Stream (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Wetland Extends (VHB) | River Corridor (ANR) |
| Proposed Structures (VELCO) | Wetland Determination Data Point (VHB) | Perennial Stream (VHB/VELCO) | FEMA Flood Zones (approx.) (NRPC) |
| Existing Structure (VELCO) | NNIS - Point (VHB) | Intermittent Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | NNIS - Polygon (VHB) | Riparian Stream Buffer (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Delineated Wetland (VHB/VELCO) | ANR Deer Wintering Areas (ANR/VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Phipps, H. Jackson, P. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - 2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernon Hanger Brustin - 2022-2023).

Natural Resources Map Series - Sheet 7 of 59

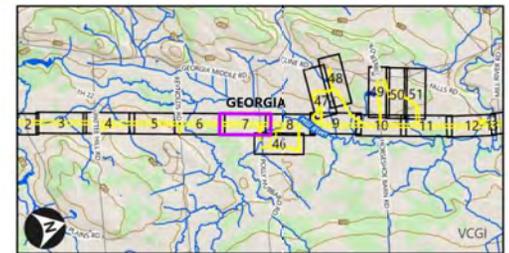
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Study Area (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Base Flood Elevation Extents (VHB) |
| Sheet Outline (VHB) | Riparian Stream Buffer (VHB) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | ANR Deer Wintering Areas (ANR/VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | River Corridor (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | FEMA Flood Zones (approx.) (NRPC) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

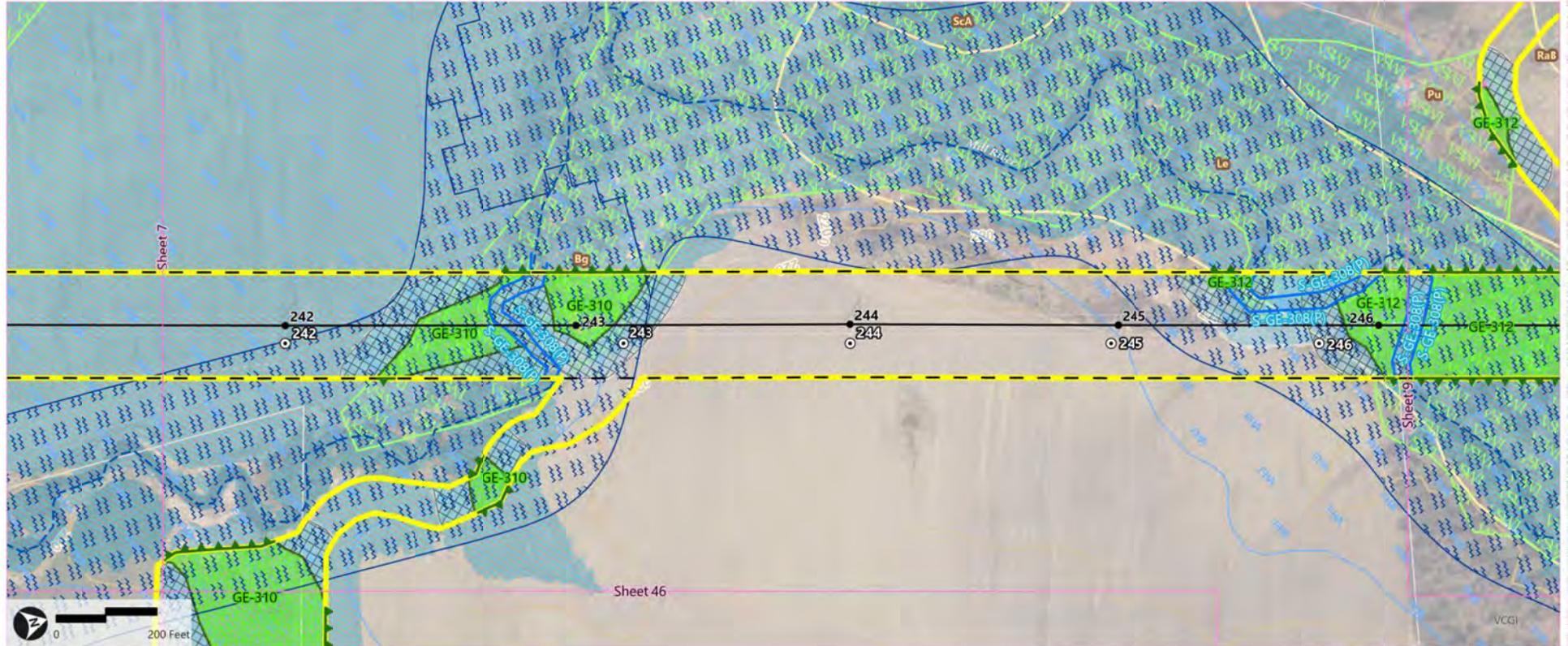
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Natural Resources Map Series - Sheet 8 of 59

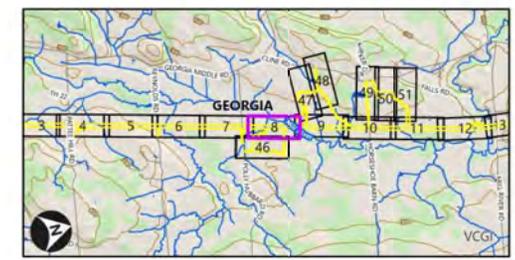
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|------------------------------------|
| Study Area (VHB) | Delineated Wetland (VHB/VELCO) | FEMA Flood Zones (approx.) (NRP) |
| Sheet Outline (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Base Flood Elevation Extents (VHB) |
| Proposed Structures (VELCO) | Wetland Extends (VHB) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | Perennial Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Riparian Stream Buffer (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Potential Roost Tree (VHB) | River Corridor (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Mines, M. Jackson, P. Vercel) during the months of May, June, July, August, October and December 2022.

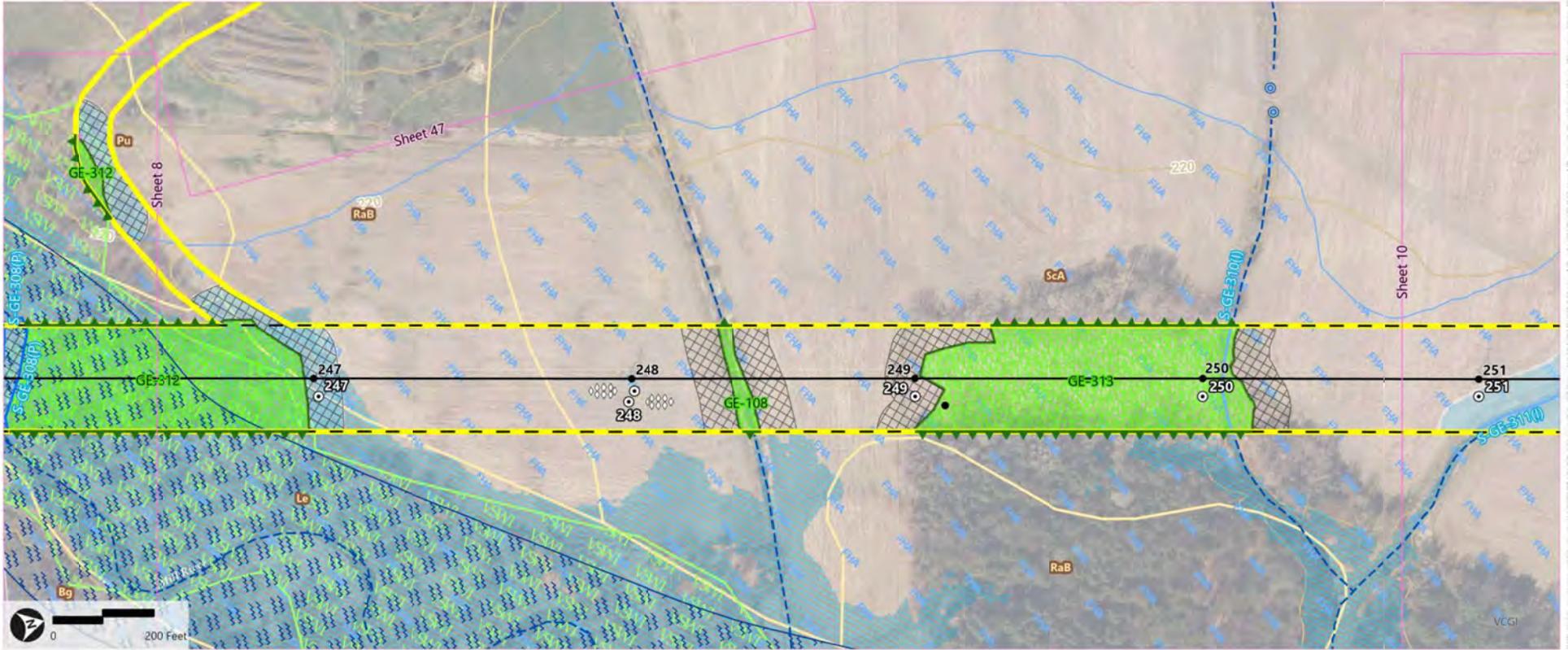
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Natural Resources Map Series - Sheet 9 of 59

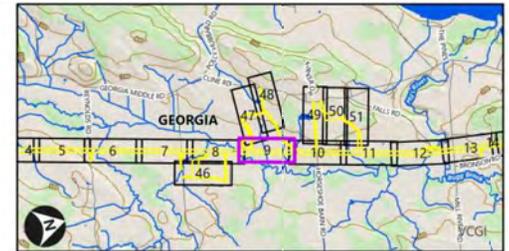
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|---------------------------------|------------------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Sheet Outline (VHB) | Found Culvert (VH-B) | Perennial Stream (VHB/VELCO) | Base Flood Elevation Extents (VHB) |
| Proposed Structures (VELCO) | Potential Roost Tree (VHB) | Intermittent Stream (VHB/VELCO) | VSWI Wetland (ANR) |
| Proposed Guy Anchors (VELCO) | Wetland Determination Data Point (VHB) | Riparian Stream Buffer (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | River Corridor (ANR) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend

All Data from Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Mines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources - Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - 2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 10 of 59

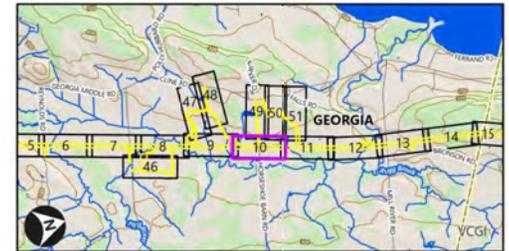
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|---------------------------------|------------------------------------|
| Study Area (VHB) | Found Culvert (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Sheet Outline (VHB) | NNIS - Point (VHB) | Base Flood Elevation Extents (VHB) |
| Proposed Structures (VELCO) | Intermittent Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Riparian Stream Buffer (VHB) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | River Corridor (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

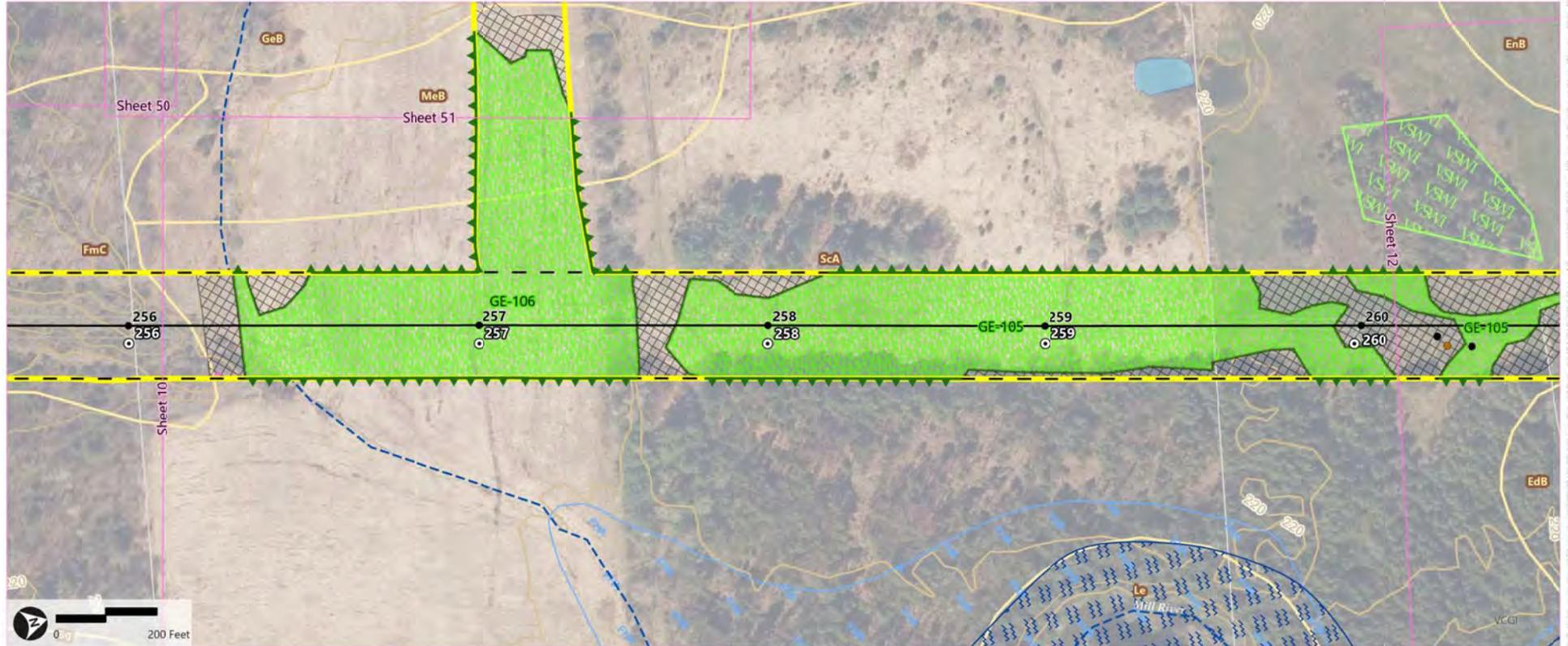
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Natural Resources Map Series - Sheet 11 of 59

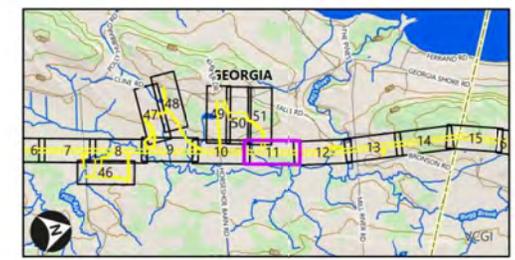
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Wetland Determination Data Point (VHB) | River Corridor (ANR) |
| Sheet Outline (VHB) | NNIS - Point (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Potential Roost Tree (VHB) | Waterbody (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

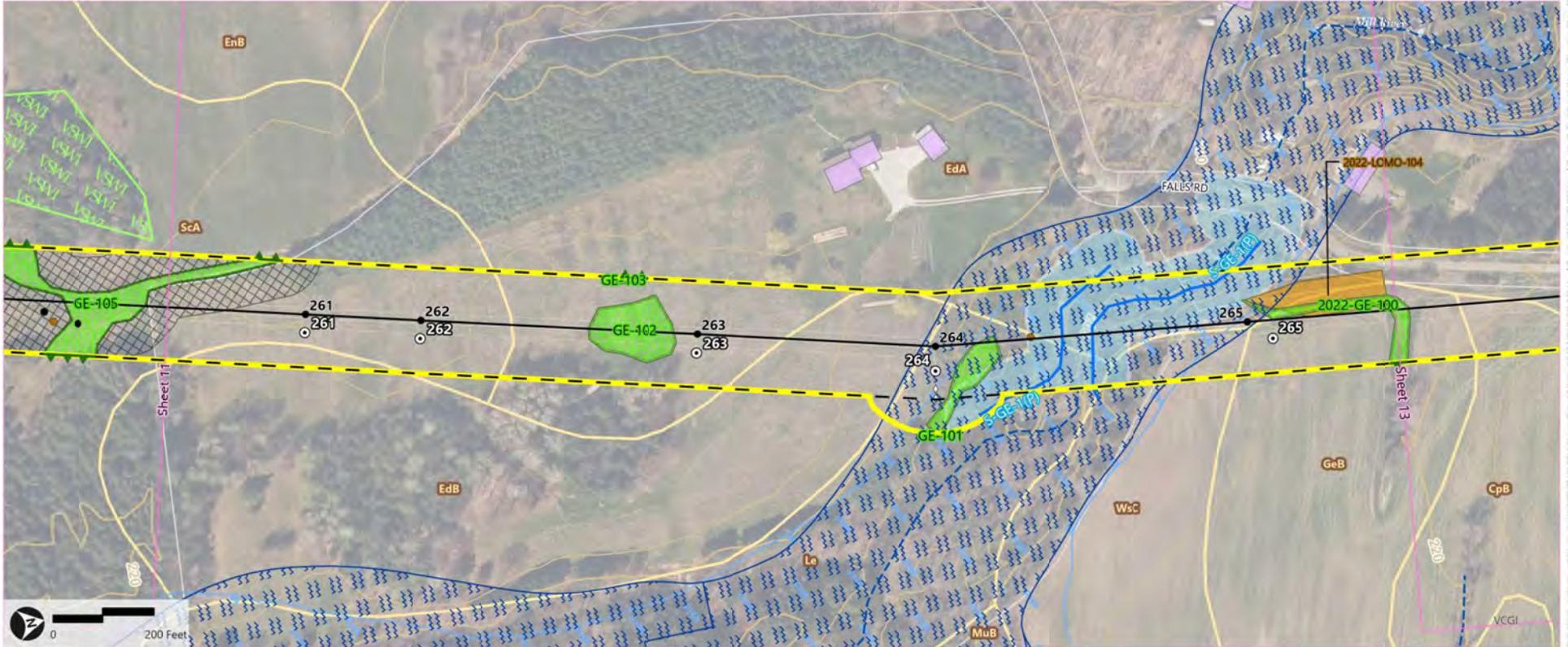
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Natural Resources Map Series - Sheet 12 of 59

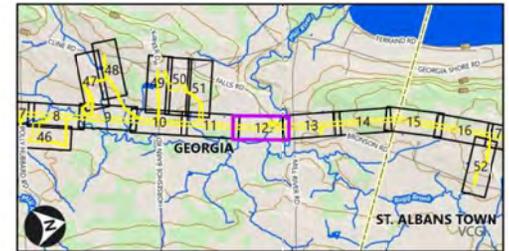
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|--|--|-----------------------------------|
| Study Area (VHB) | NNIS - Point (VHB) | River Corridor (ANR) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | VSWI Wetland (ANR) |
| Proposed Guy Anchors (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Wetland Extends (VHB) | Building Footprints (2016) (VCGI) |
| Existing Transmission Line (VELCO) | Perennial Stream (VHB/VELCO) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Riparian Stream Buffer (VHB) | Parcel Boundary (VCGI) |
| Wetland Determination Data Point (VHB) | Stream (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Masnes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

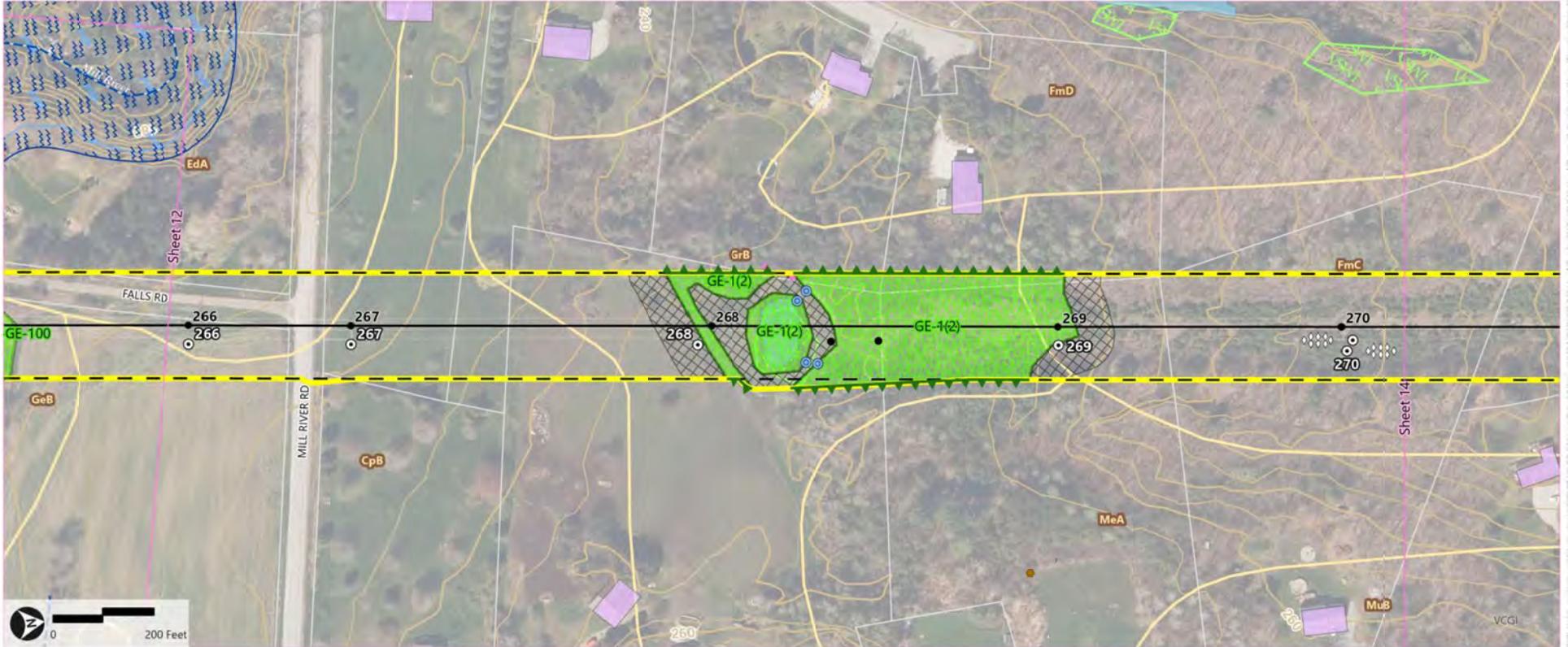
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Natural Resources Map Series - Sheet 13 of 59

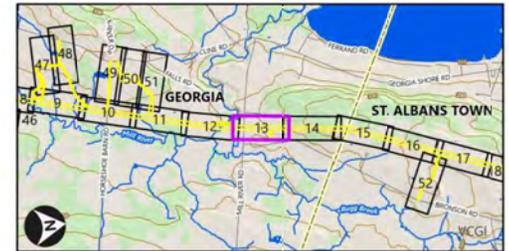
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | River Corridor (ANR) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | VSWI Wetland (ANR) |
| Proposed Guy Anchors (VELCO) | Delineated Wetland (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Building Footprints (2016) (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Found Culvert (VHB) | Waterbody (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Mosier, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

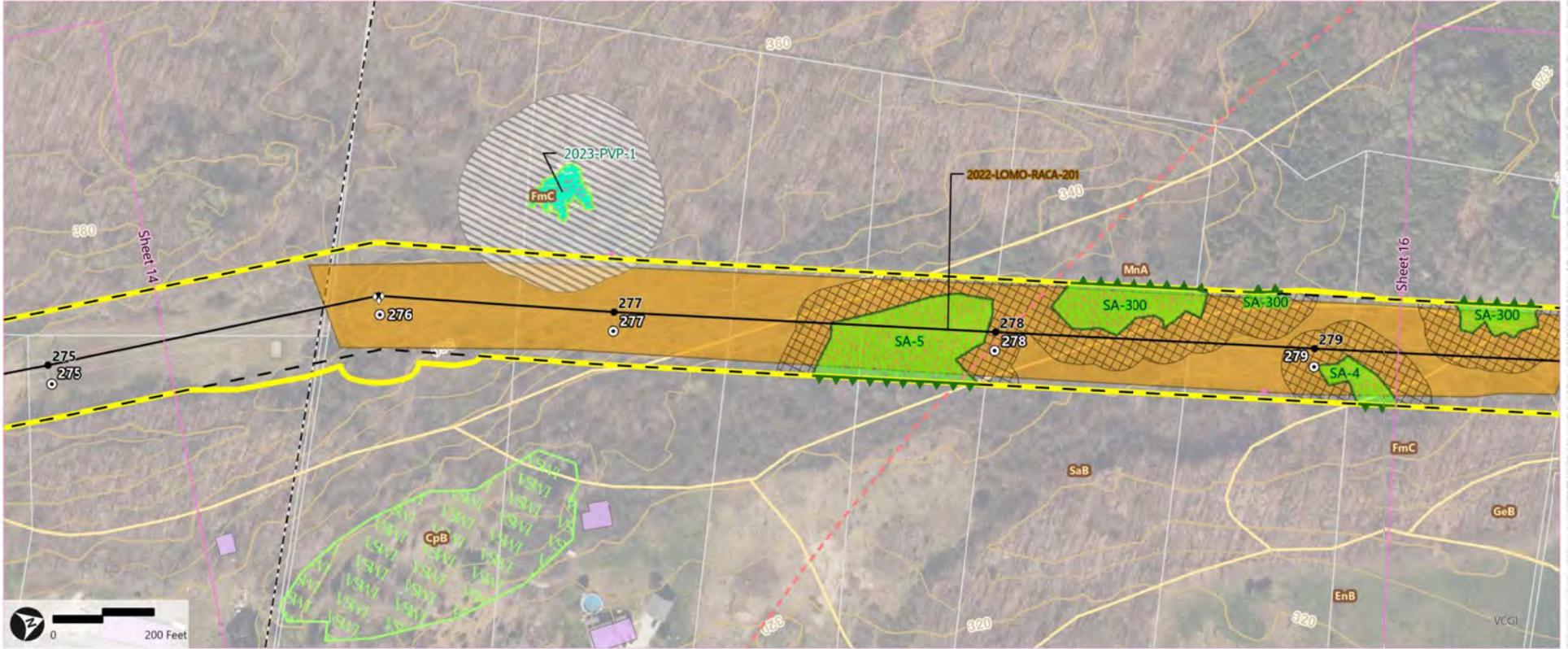
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannote Hengen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 15 of 59

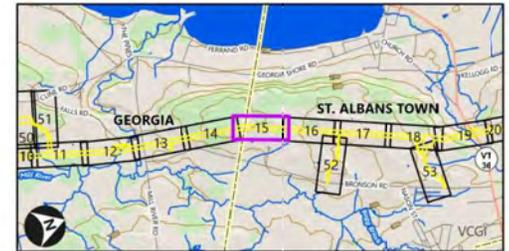
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|---|
| Study Area (VHB) | VAST Trail (VCGI) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | Potential Vernal Pool - Polygon (VHB) | Building Roofprints (2016) (VCGI) |
| Proposed Guy Anchors (VELCO) | NNIS - Polygon (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Potential Vernal Pool - 100 ft Buffer (VHB) |
| Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

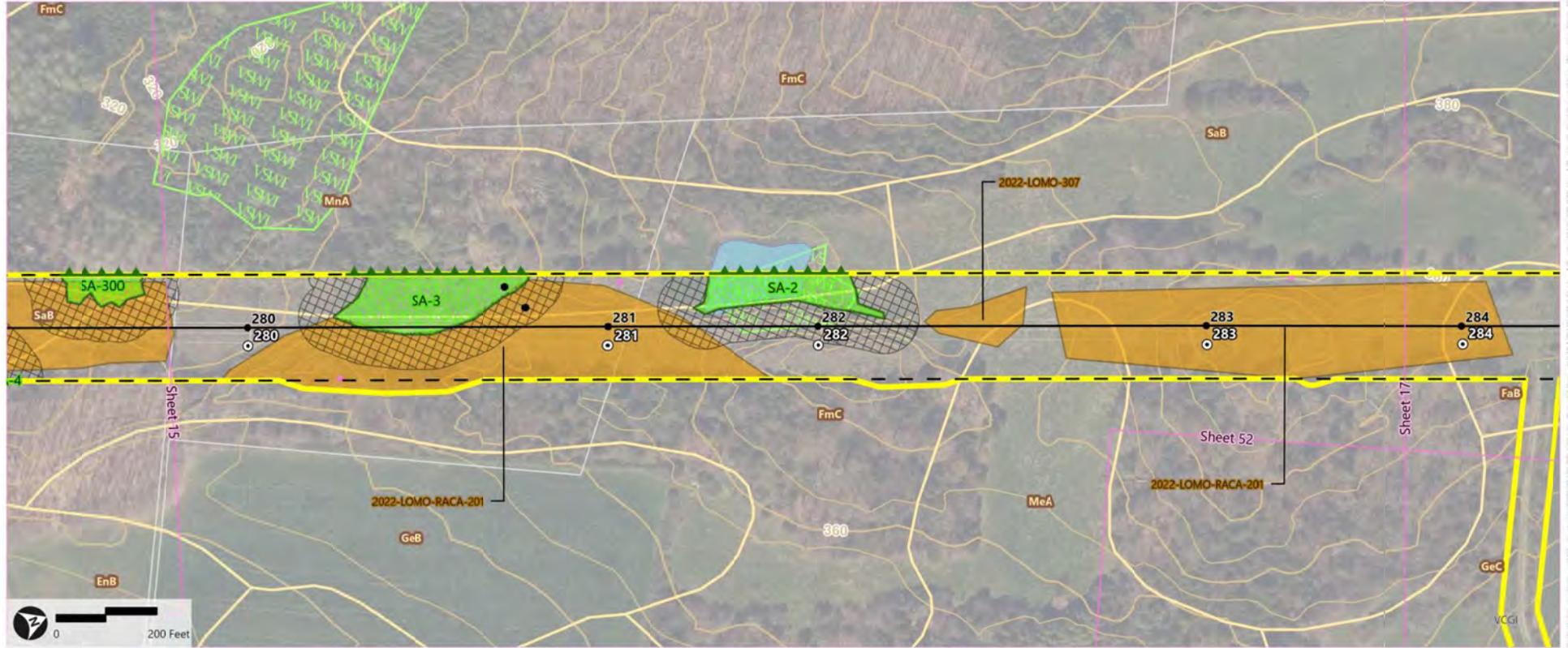
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 16 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|--|---------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Waterbody (ANR) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

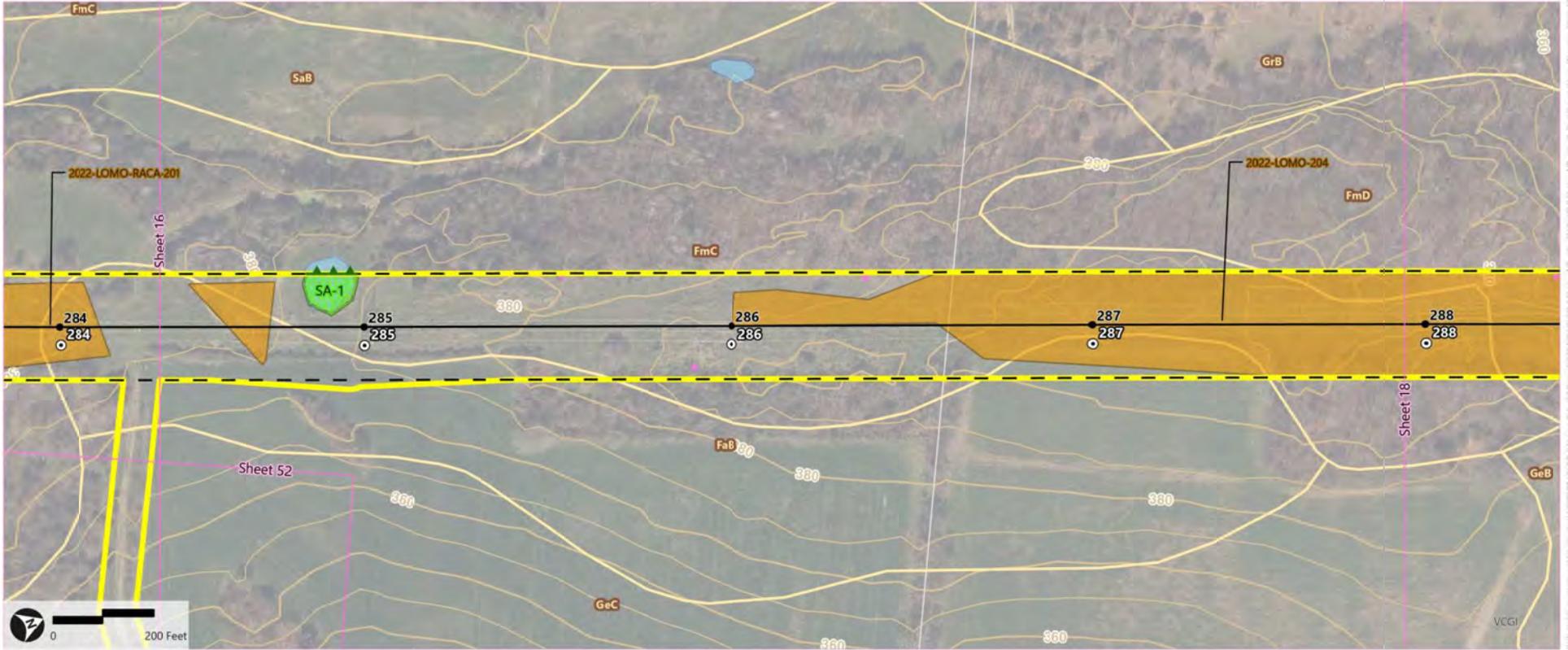
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Natural Resources Map Series - Sheet 17 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|--------------------------------|---------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Waterbody (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VH3/VELCO) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Masnie, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

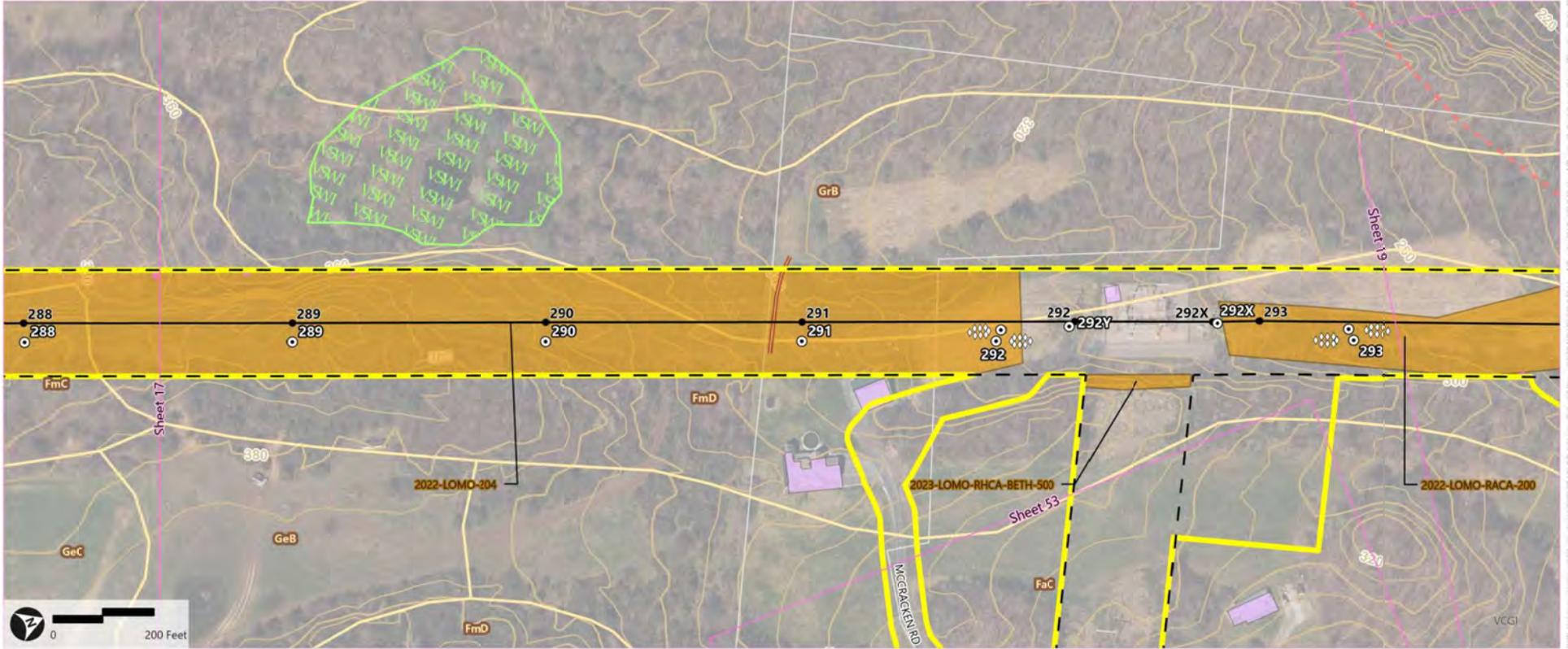
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernise Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 18 of 59

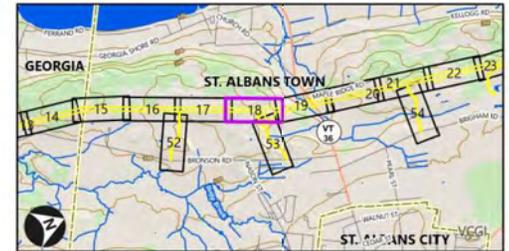
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- - - Study Area (VHB)
- Sheet Outline (VHB)
- Proposed Structures (VELCO)
- Proposed Guy Anchors (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- Edge of ROW (Approx.) (VELCO)
- Previously Identified Underground Infrastructure (VELCO)
- VAST Trail (VCGI)
- Potential Roost Tree (VHB)
- NNIS - Polygon (VHB)
- VSWI Wetland (ANR)
- NRCs Soil Boundary (VCGI)
- Building Roofprints (2016) (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

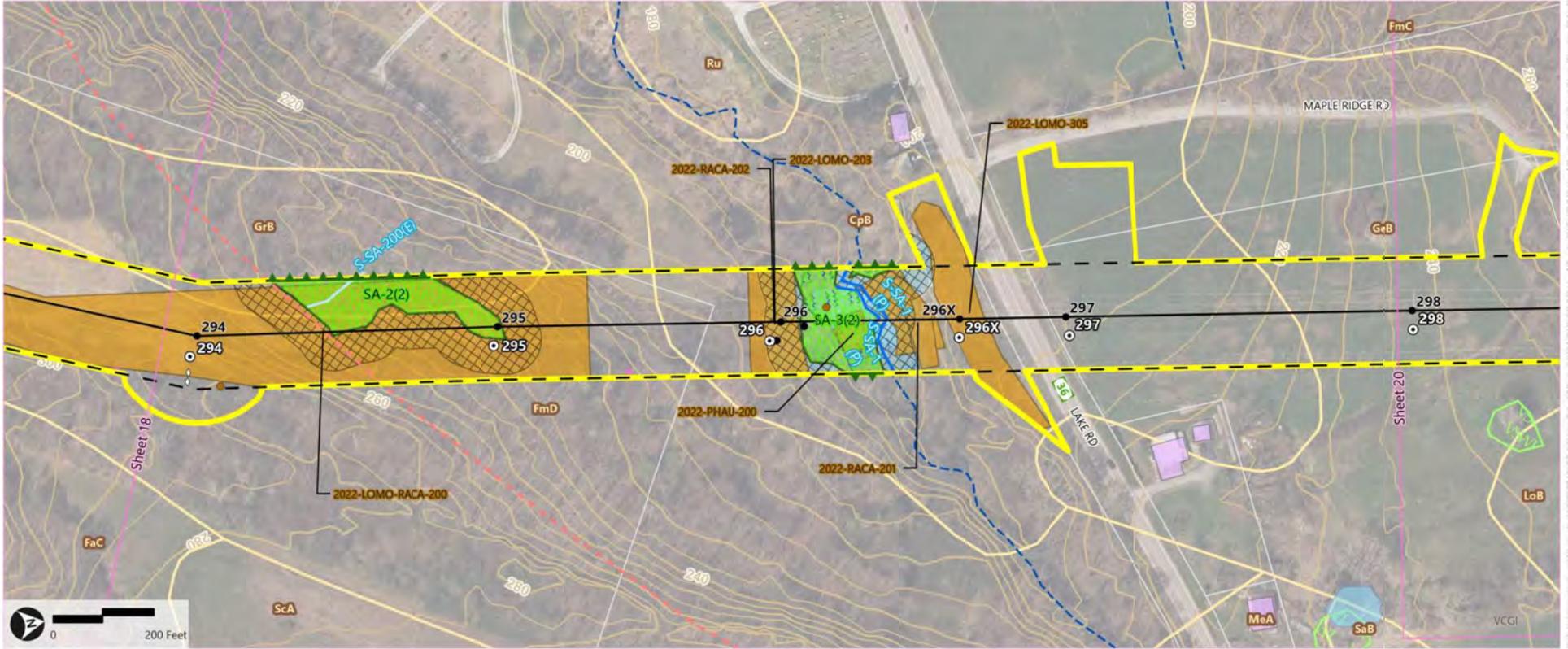
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 19 of 59

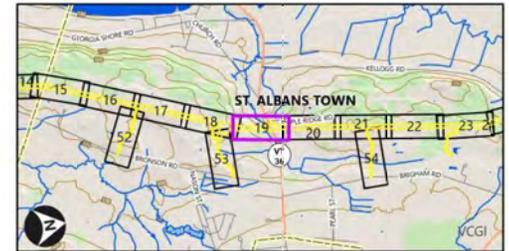
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|------------------------------|-----------------------------------|
| Study Area (VHB) | VAST Trail (VCGI) | Wetland Extends (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Perennial Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | Wetland Determination Data Point (VHB) | Ephemeral Stream (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Proposed Guy Anchors (VELCO) | NNIS - Point (VHB) | River Corridor (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | Riparian Stream Buffer (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | |
| Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Waterbody (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannote Hangeri Brattlin - 2022-2023).

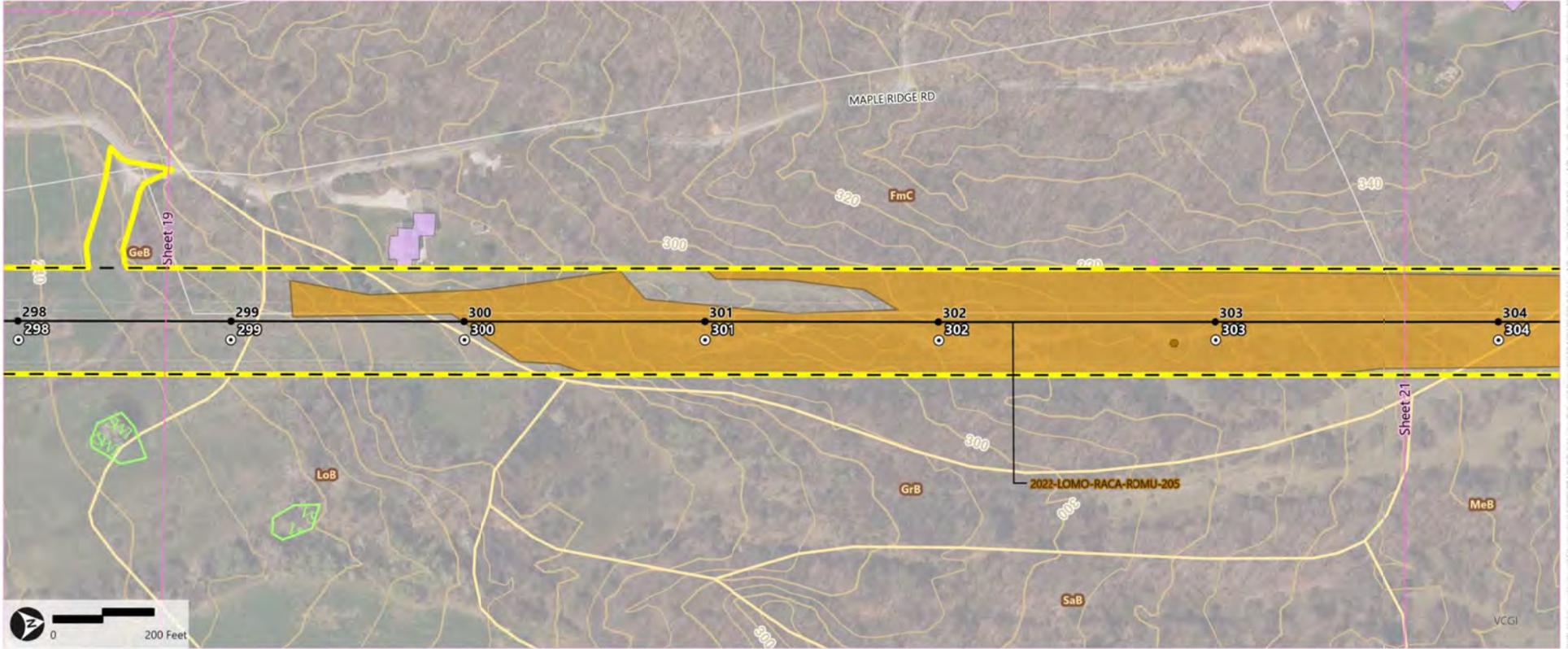
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Natural Resources Map Series - Sheet 20 of 59

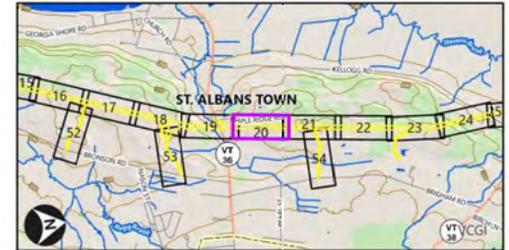
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|-------------------------------|-----------------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | NRCS Soil Boundary (VCGI) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Building Roofprints (2016) (VCGI) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | VSWI Wetland (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

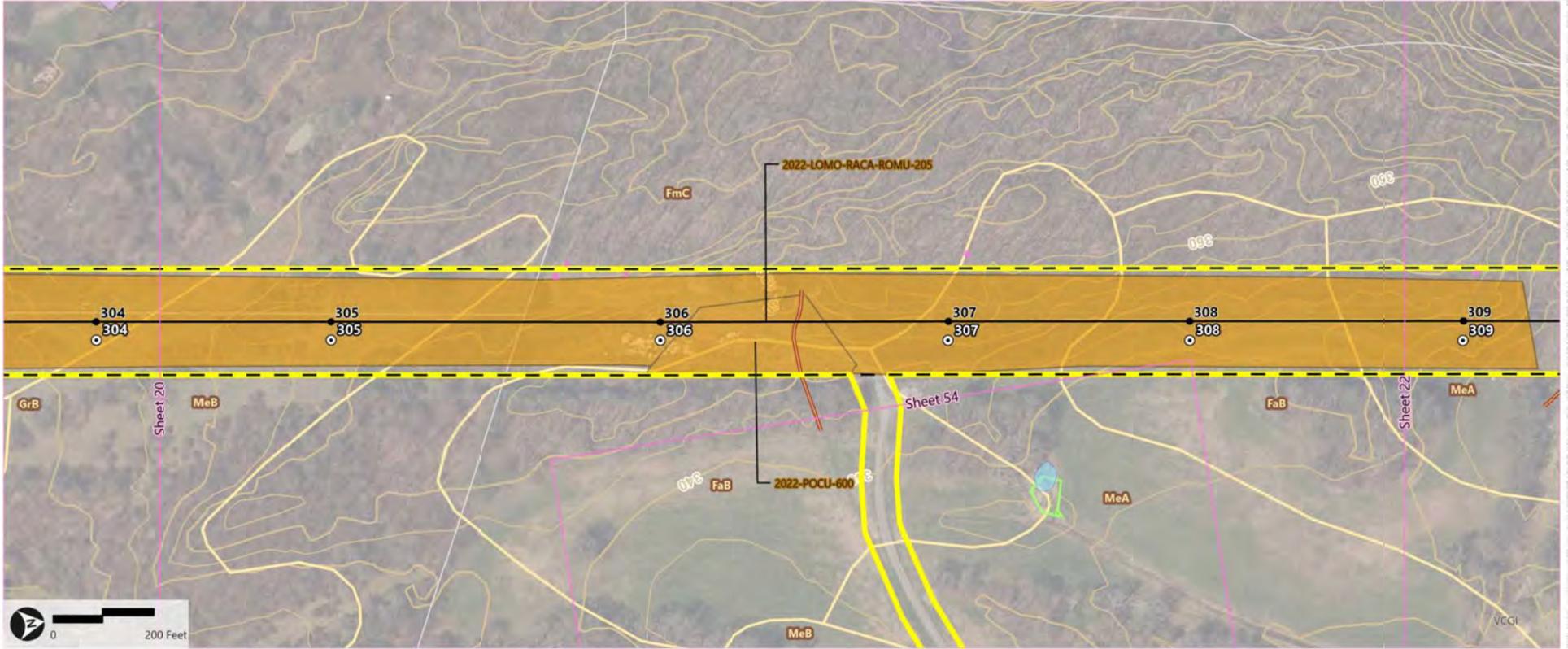
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 Date: 10/17/2023 10:58:11 AM
 User: jgalligan

Natural Resources Map Series - Sheet 21 of 59

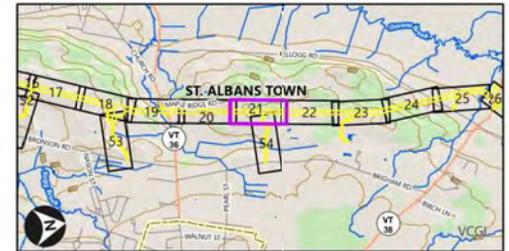
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|-----------------------------------|
| Study Area (VHB) | NNIS - Polygon (VHB) |
| Sheet Outline (VHB) | Waterbody (ANR) |
| Proposed Structures (VELCO) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Building Footprints (2016) (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Town Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Parcel Boundary (VCGI) |
| Potential Roost Tree (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

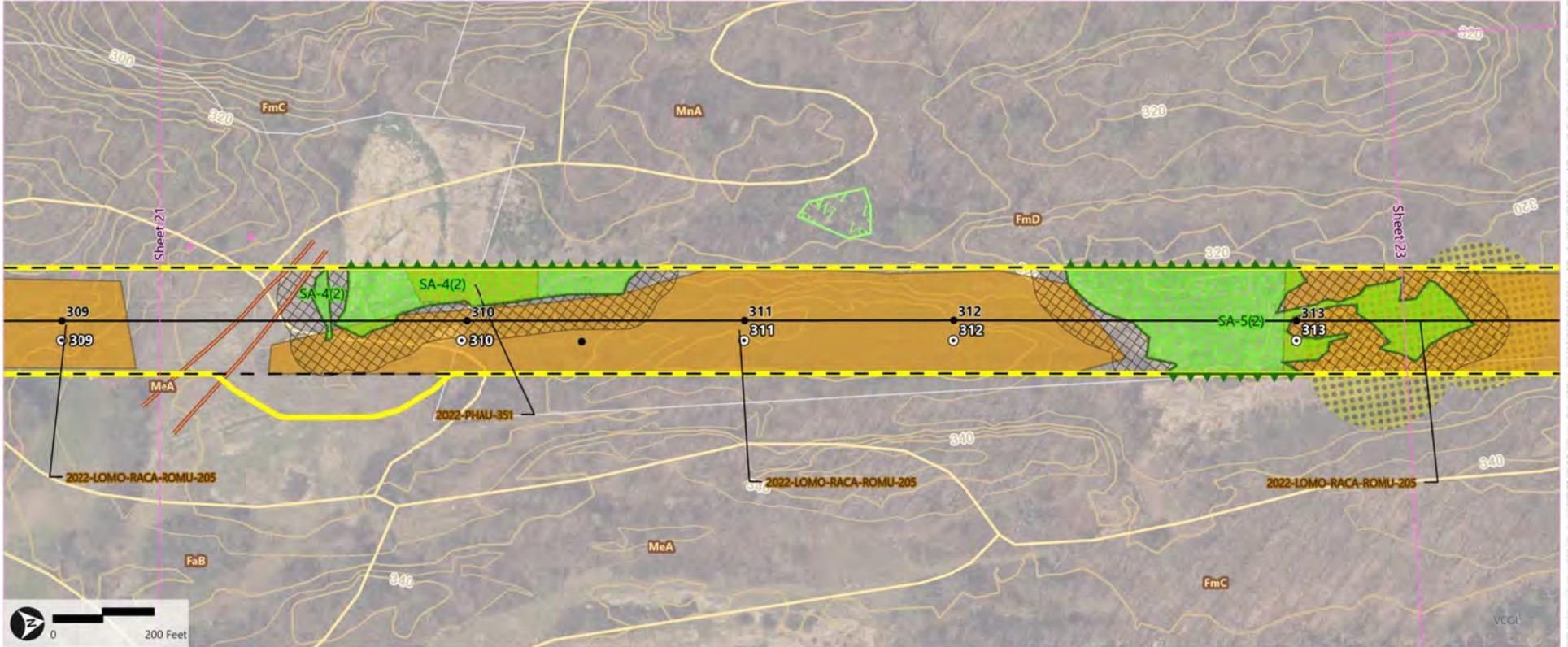
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTtrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 22 of 59

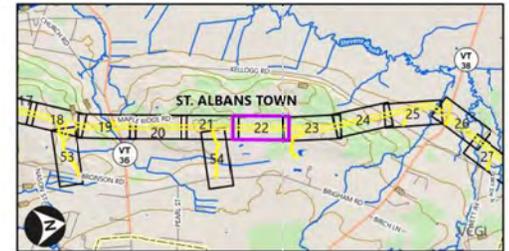
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|--|
| Study Area (VHB) | Previously Identified Underground Infrastructure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Wetland Extends (VHB) |
| Proposed Structures (VELCO) | Wetland Determination Data Point (VHB) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | RTE (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | NNIS - Polygon (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Delineated Wetland (VHB/VELCO) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

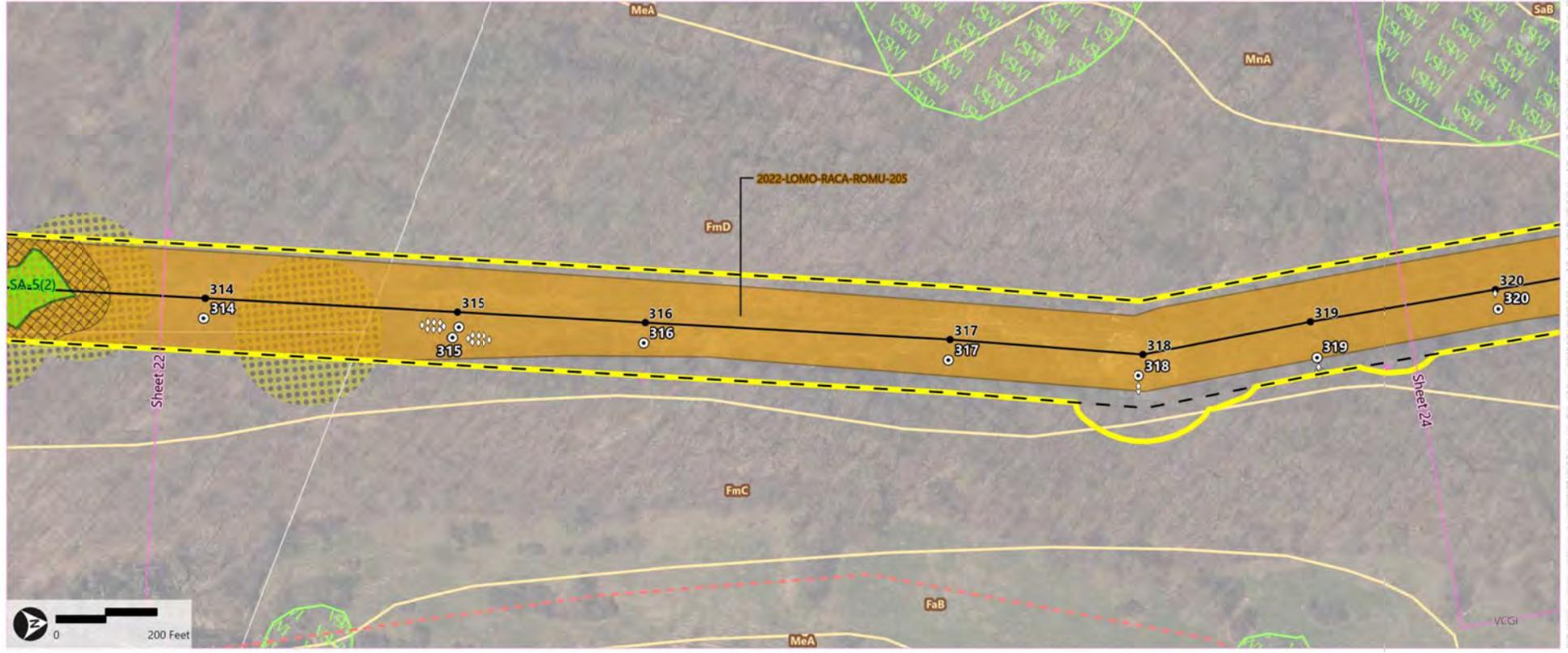
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannote Hangeri Brustin - 2022-2023).

Natural Resources Map Series - Sheet 23 of 59

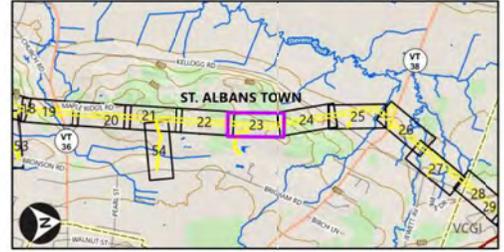
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--------------------------------|--|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) |
| Sheet Outline (VHB) | VAST Trail (VCGI) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | Potential Roost Tree (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | RTE (VHB/VELCO) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

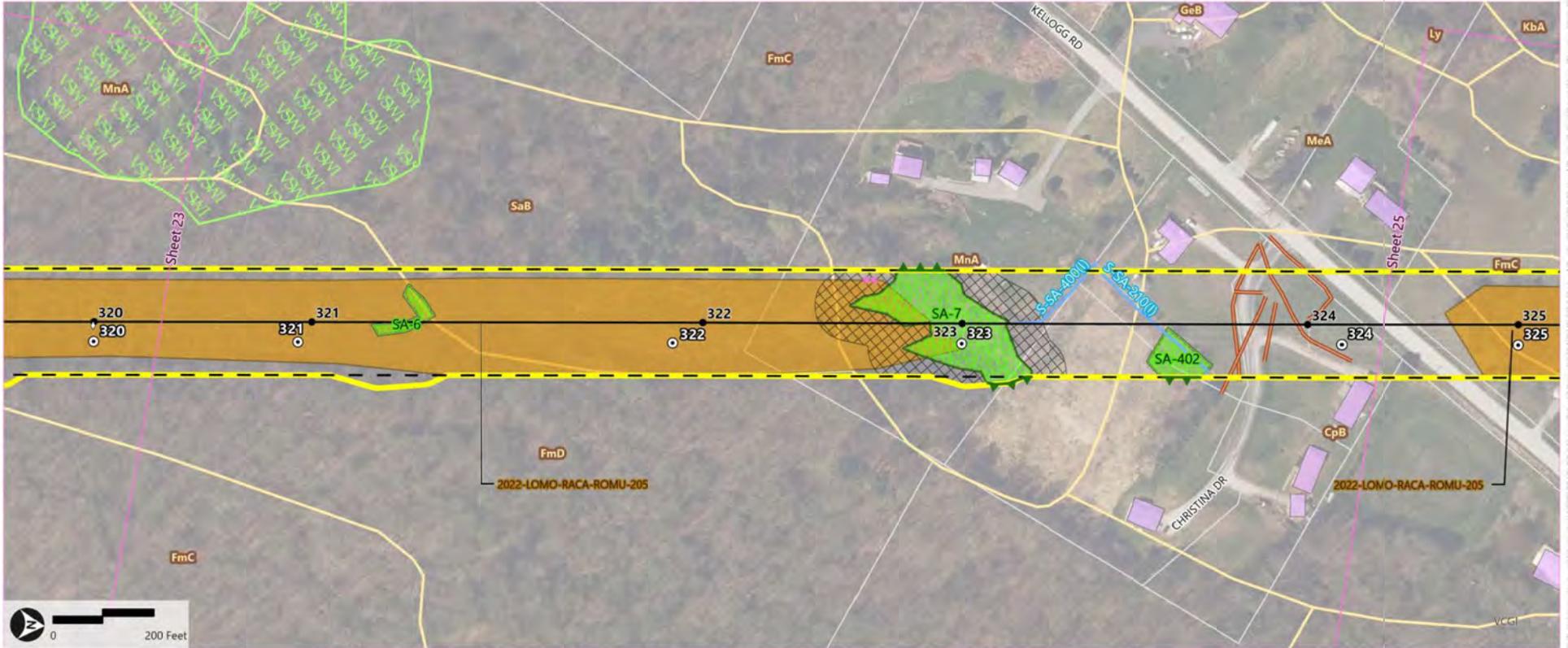
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 24 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Previously Identified Underground Infrastructure (VELCO) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | Building Roofprints (2016) (VCGI) |
| Proposed Guy Anchors (VELCO) | Delineated Wetland (VHB/VELCO) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | |
| Edge of ROW (Approx.) (VELCO) | Intermittent Stream (VHB/VELCO) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

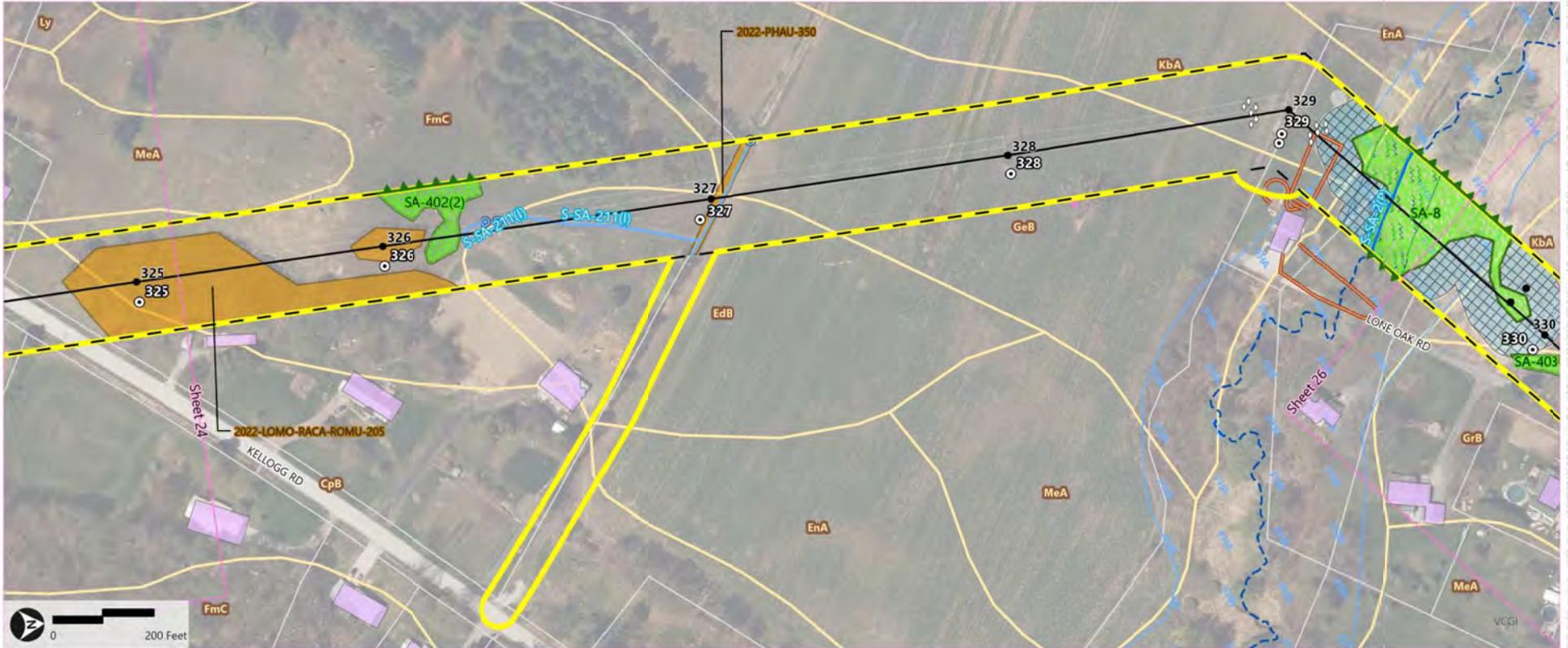
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Natural Resources Map Series - Sheet 25 of 59

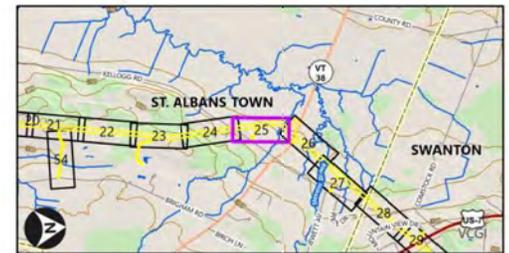
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|--|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | River Corridor (VHB) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | Riparian Stream Buffer (VHB) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | Stream (ANR) |
| Proposed Guy Anchors (VELCO) | NNIS - Polygon (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Building Footprints (2016) (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Perennial Stream (VHB/VELCO) | Parcel Boundary (VCGI) |
| Found Culvert (VHB) | Intermittent Stream (VHB/VELCO) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

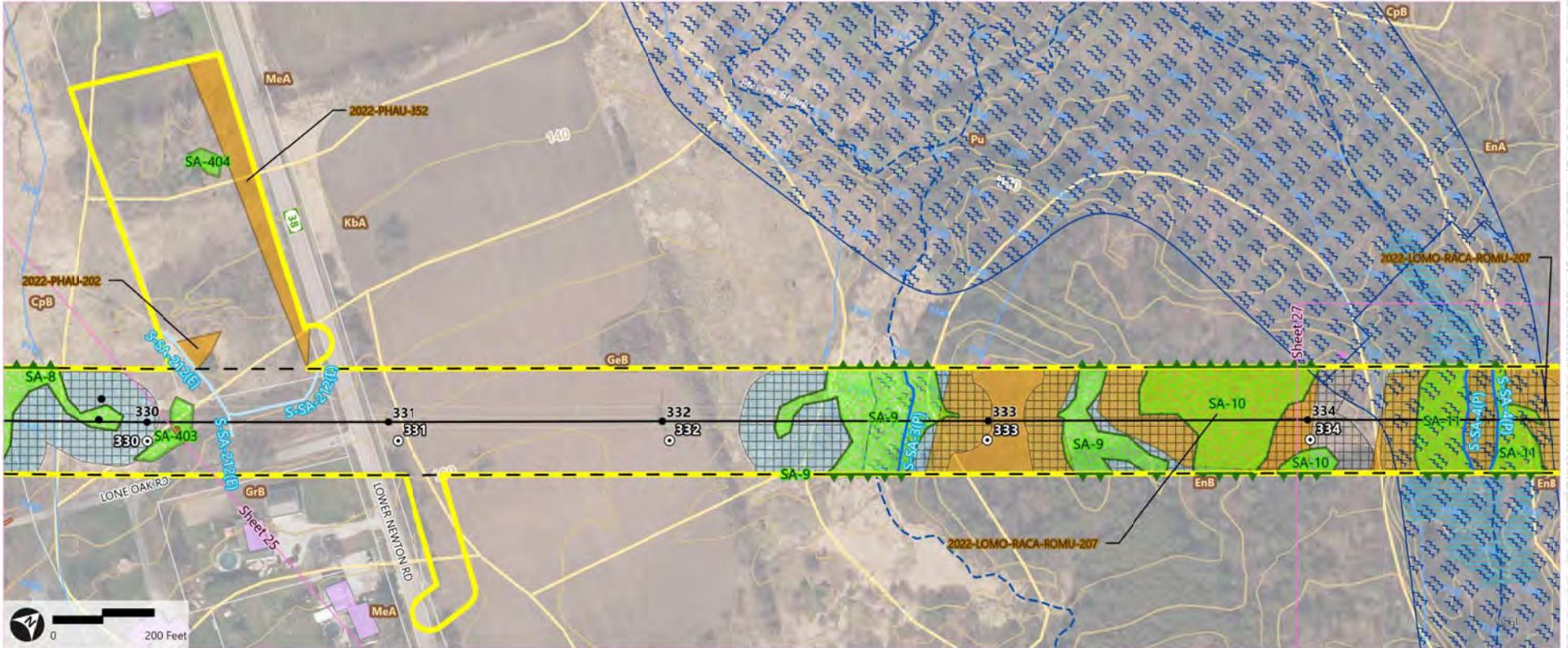
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northeast Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 26 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|--|------------------------------------|
| Study Area (VHB) | NNIS - Point (VHB) | Stream (ANR) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | River Corridor (ANR) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | FEMA Flood Zones (approx.) (NRPC) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Base Flood Elevation Extents (VHB) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | NRCS Soil Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Perennial Stream (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Ephemeral Stream (VHB/VELCO) | Town Boundary (VCGI) |
| Potential Roost Tree (VHB) | River Corridor (VHB) | Parcel Boundary (VCGI) |
| Wetland Determination Data Point (VHB) | Riparian Stream Buffer (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022

Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hydrogeology Consultants - 2022-2023)

Natural Resources Map Series - Sheet 27 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | | |
|------------------------------------|--|---------------------------------|------------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Wetland Extends (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | Perennial Stream (VHB/VELCO) | Base Flood Elevation Extends (VHB) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | Intermittent Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | Riparian Stream Buffer (VHB) | Building Roofprints (2016) (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | River Corridor (ANR) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

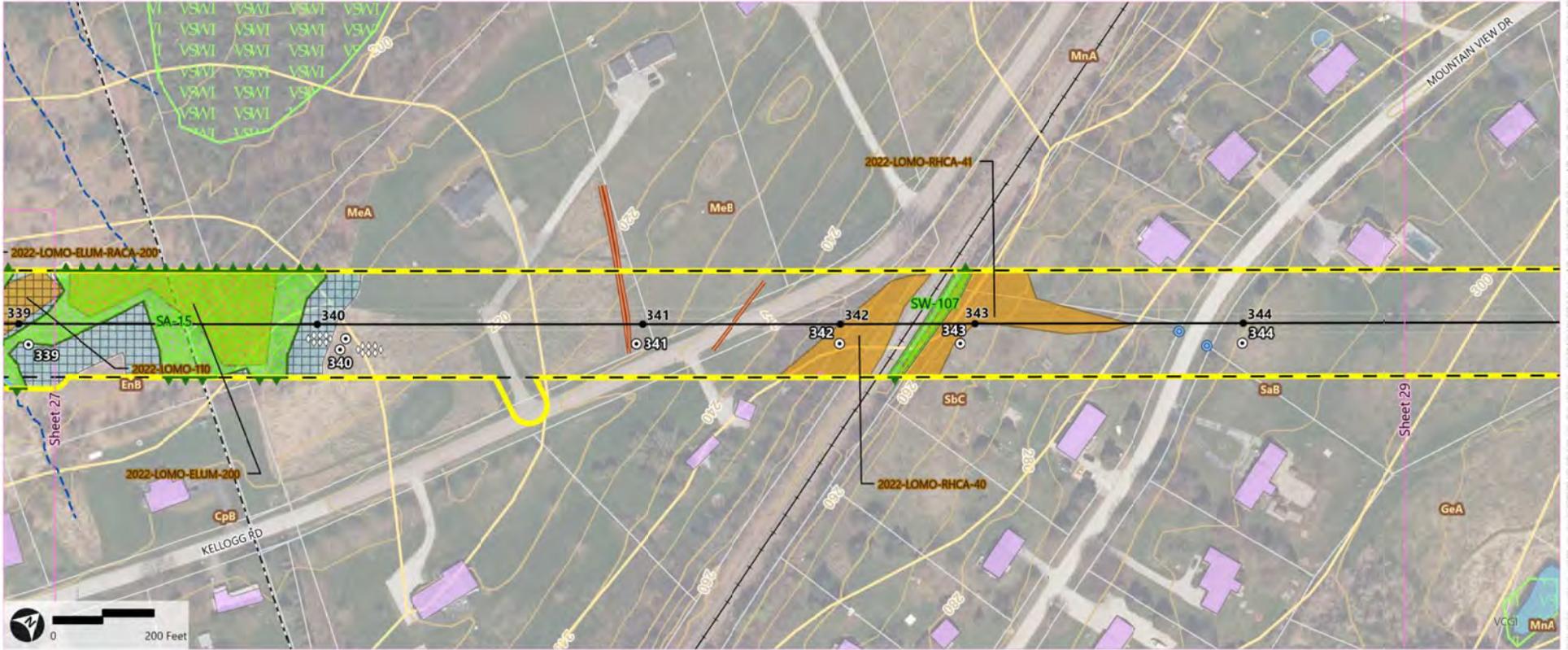
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannote Hengen Brustin - 2022-2023).

Natural Resources Map Series - Sheet 28 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|--|-----------------------------------|
| Study Area (VHB) | Found Culvert (VHB) | Stream (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Waterbody (ANR) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | VSWI Wetland (ANR) |
| Proposed Guy Anchors (VELCO) | Delineated Wetland (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Building Roofprints (2016) (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Intermittent Stream (VHB/VELCO) | Parcel Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Riparian Stream Buffer (VHB) | Railroad Lines (VTrans) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

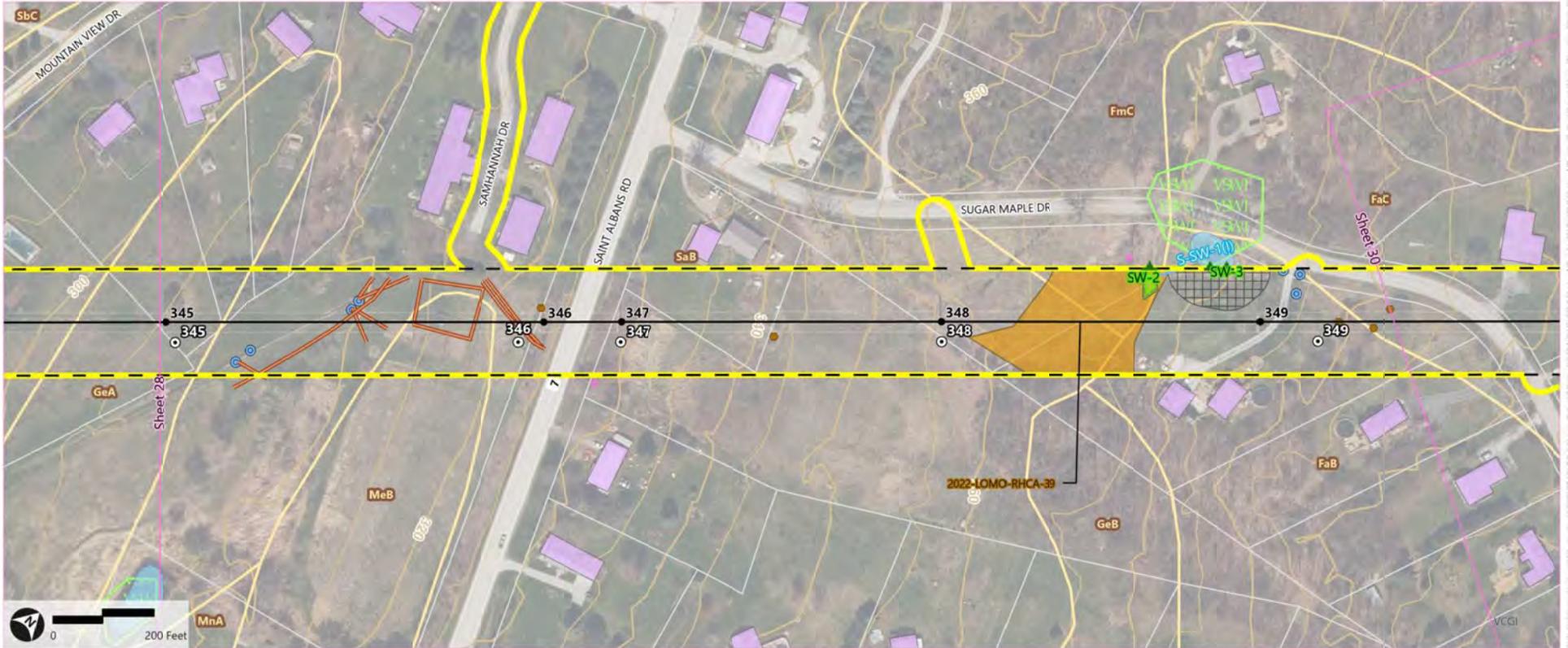
Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hydrogeology Consultants - 2022-2023).

Natural Resources Map Series - Sheet 29 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|--|--|-----------------------------------|
| Study Area (VHB) | Found Culvert (VHB) | Intermittent Stream (VHB/VELCO) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Waterbody (ANR) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Wetland Extends (VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

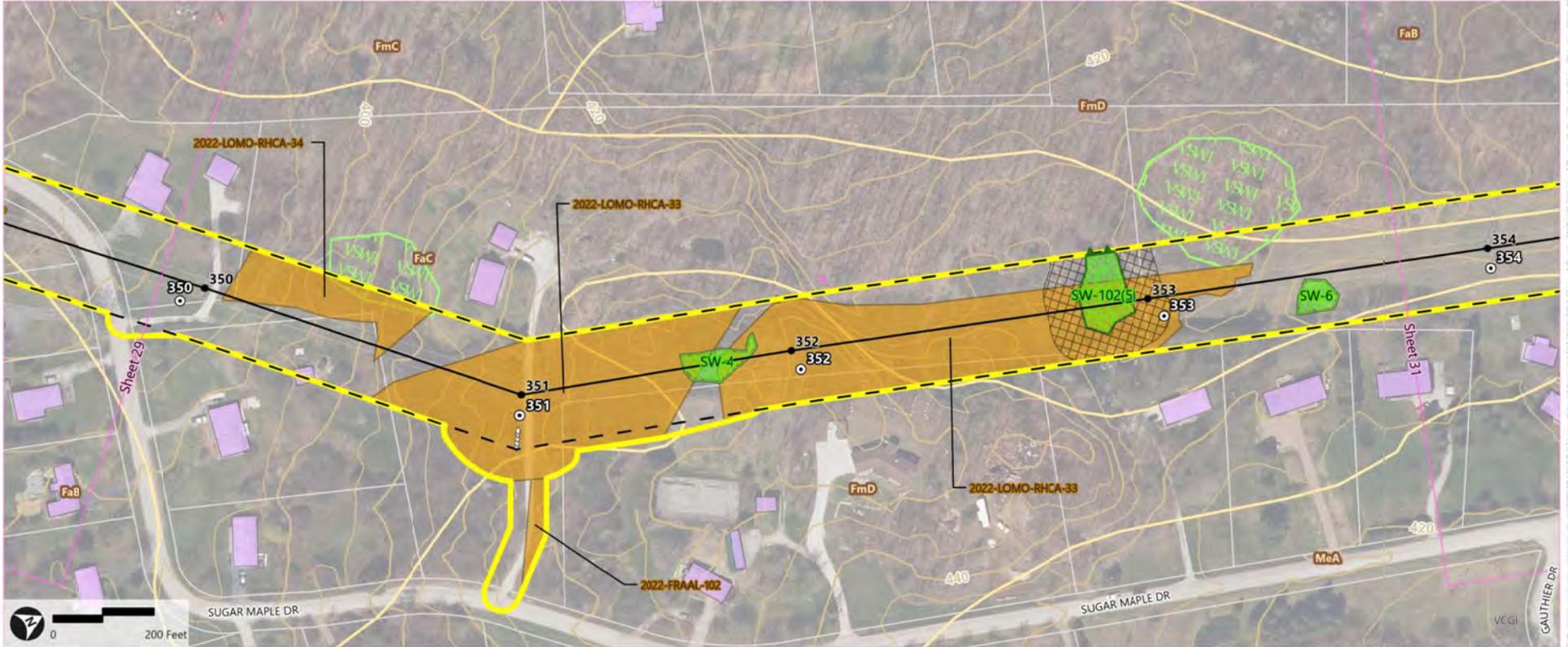
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hanger Brustin - 2022-2023).

Natural Resources Map Series - Sheet 30 of 59

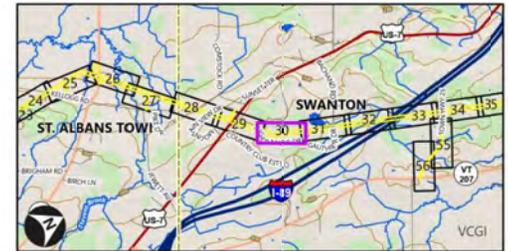
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | NRCs Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | NNIS - Polygon (VHB) | Building Roofprints (2016) (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Masnes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

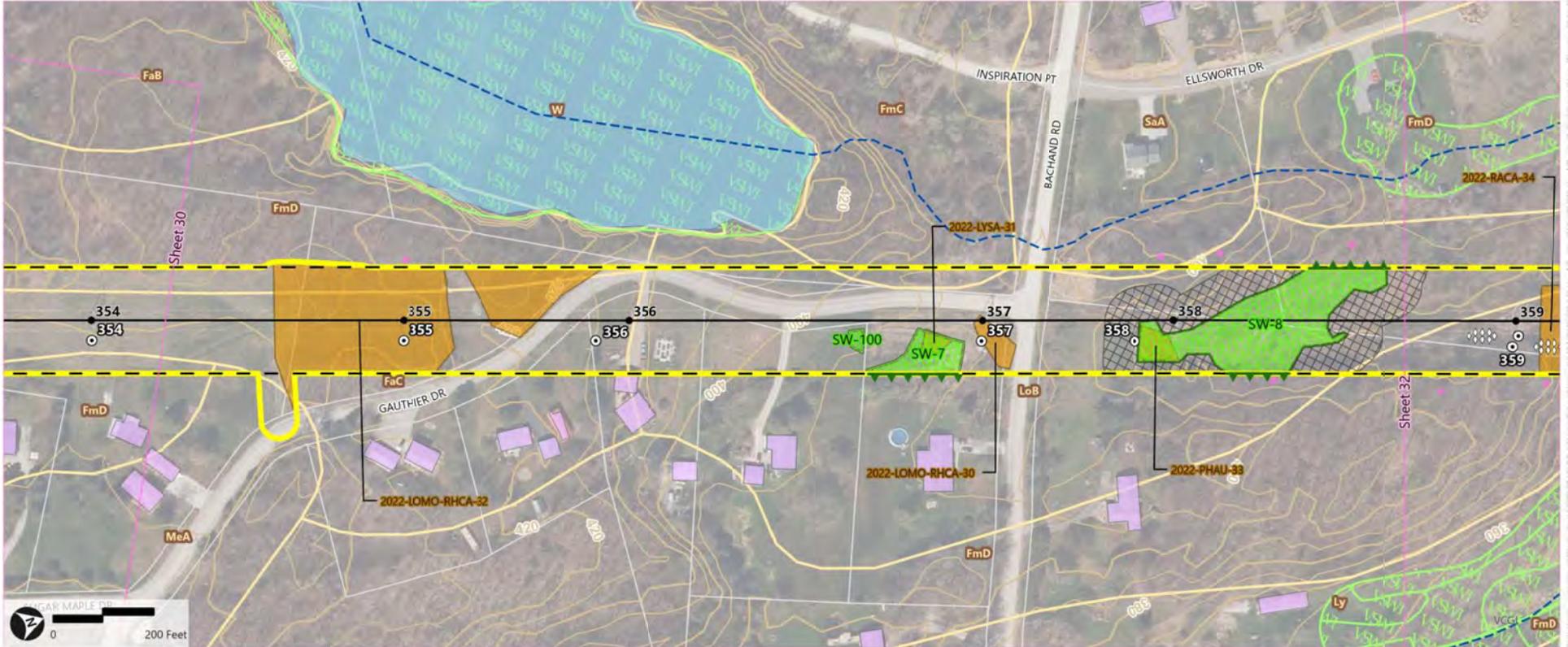
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 31 of 59

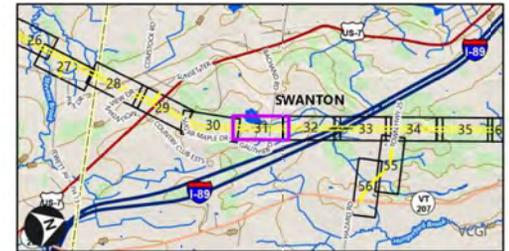
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Proposed Guy Anchors (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | Wetland Extends (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Stream (ANR) | |
| Edge of ROW (Approx.) (VELCO) | Waterbody (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Manies, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

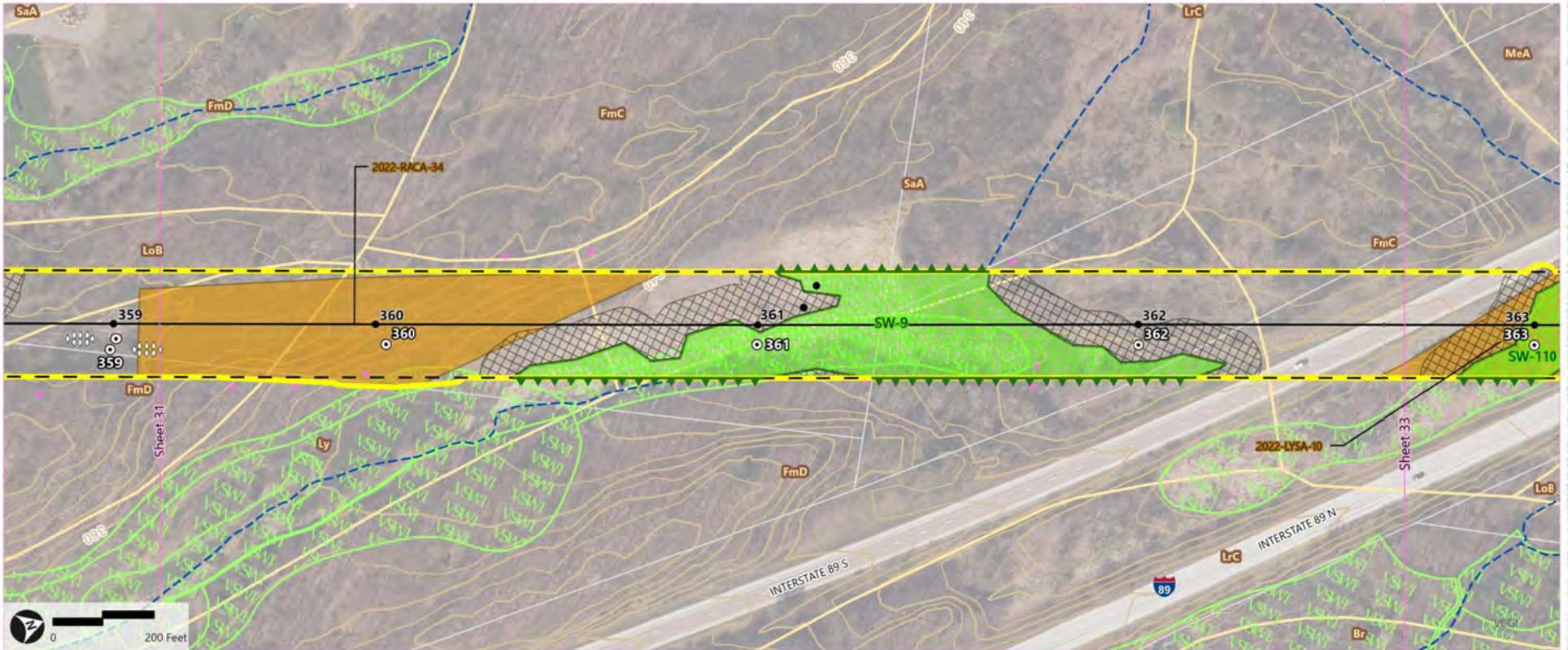
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannote Hengen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 32 of 59

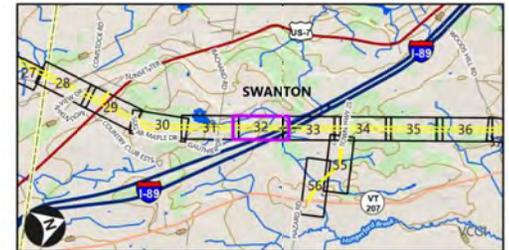
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|---------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Stream (ANR) |
| Proposed Structures (VELCO) | Wetland Determination Data Point (VHB) | VSWI Wetland (ANR) |
| Proposed Guy Anchors (VELCO) | NNIS - Polygon (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

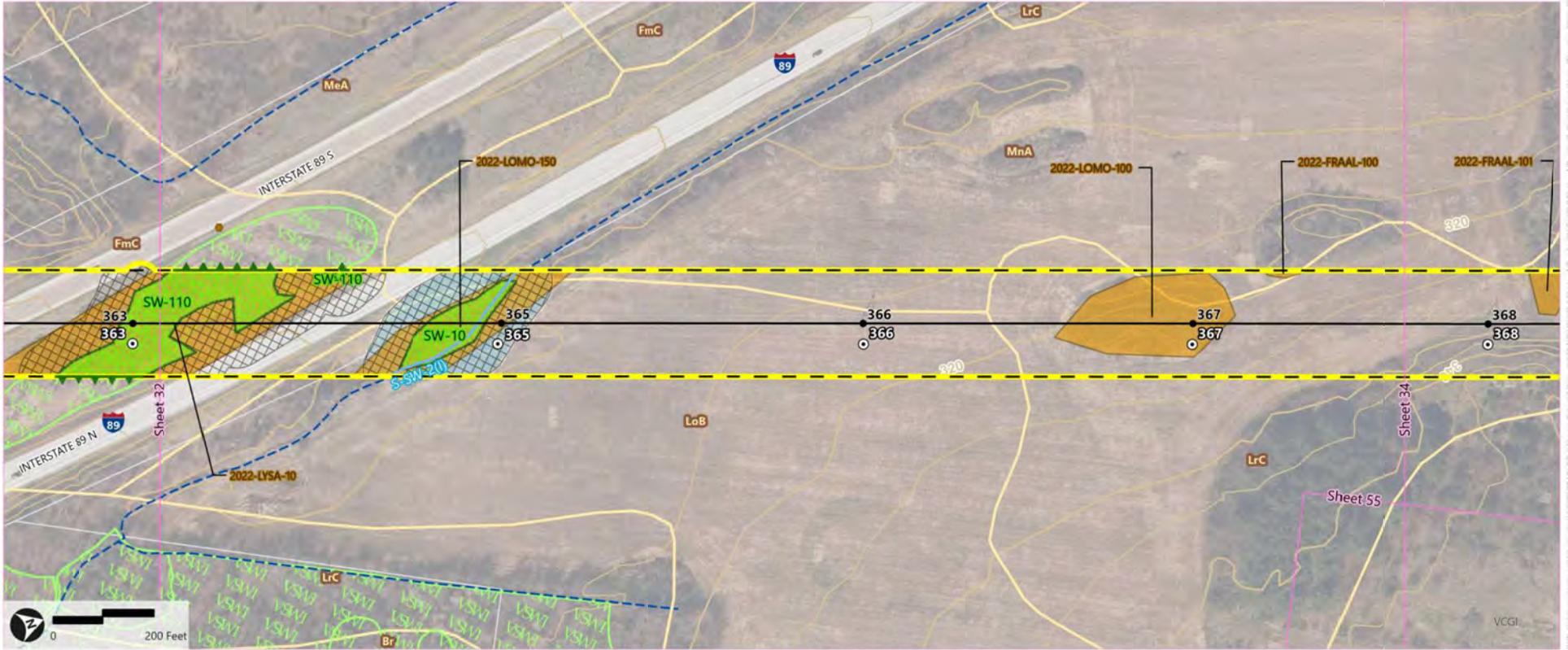
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 33 of 59

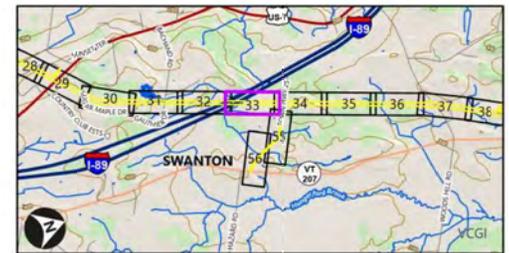
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|------------------------------|
| Study Area (VHB) | NNIS - Point (VHB) | Riparian Stream Buffer (VHB) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | Stream (ANR) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | Town Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Intermittent Stream (VHB/VELCO) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Manes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

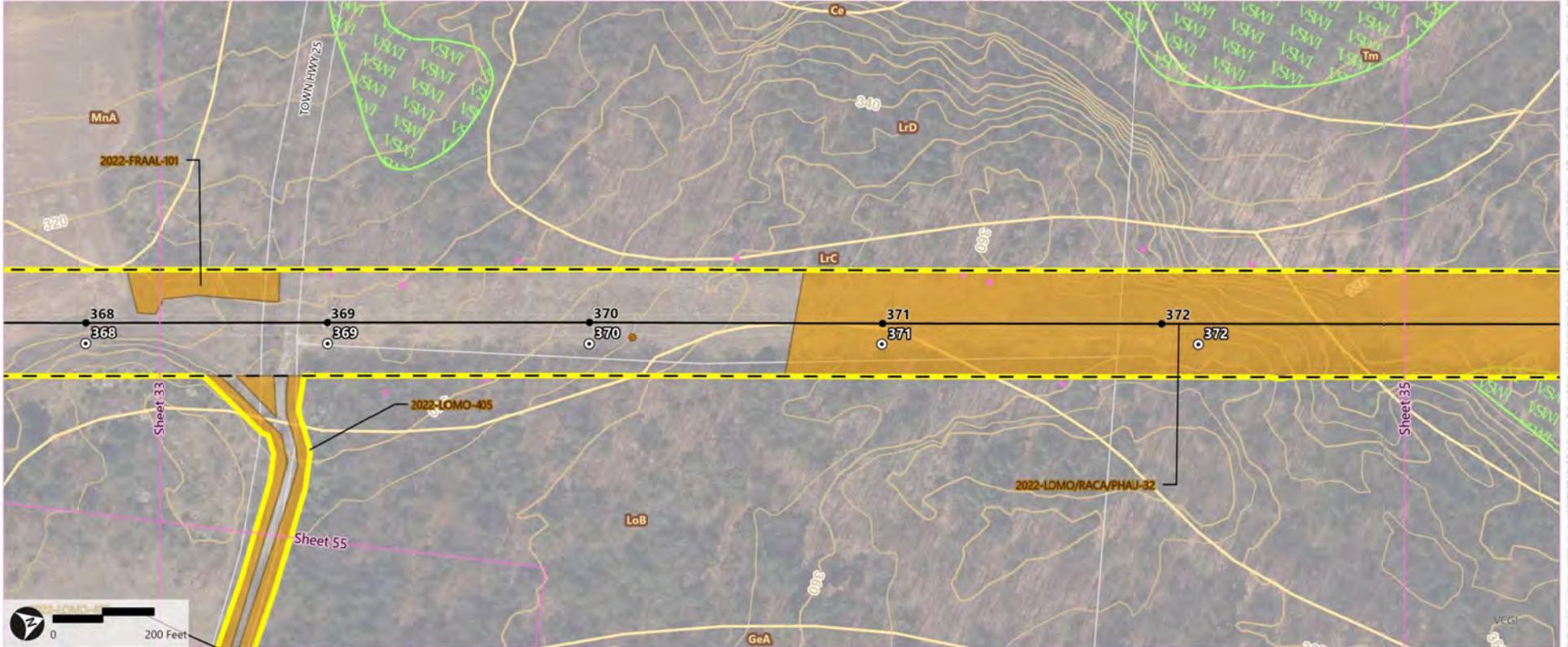
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 34 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|-------------------------------|---------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | NRCS Soil Boundary (VCGI) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Town Boundary (VCGI) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | Parcel Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | |
| Existing Transmission Line (VELCO) | VSWI Wetland (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

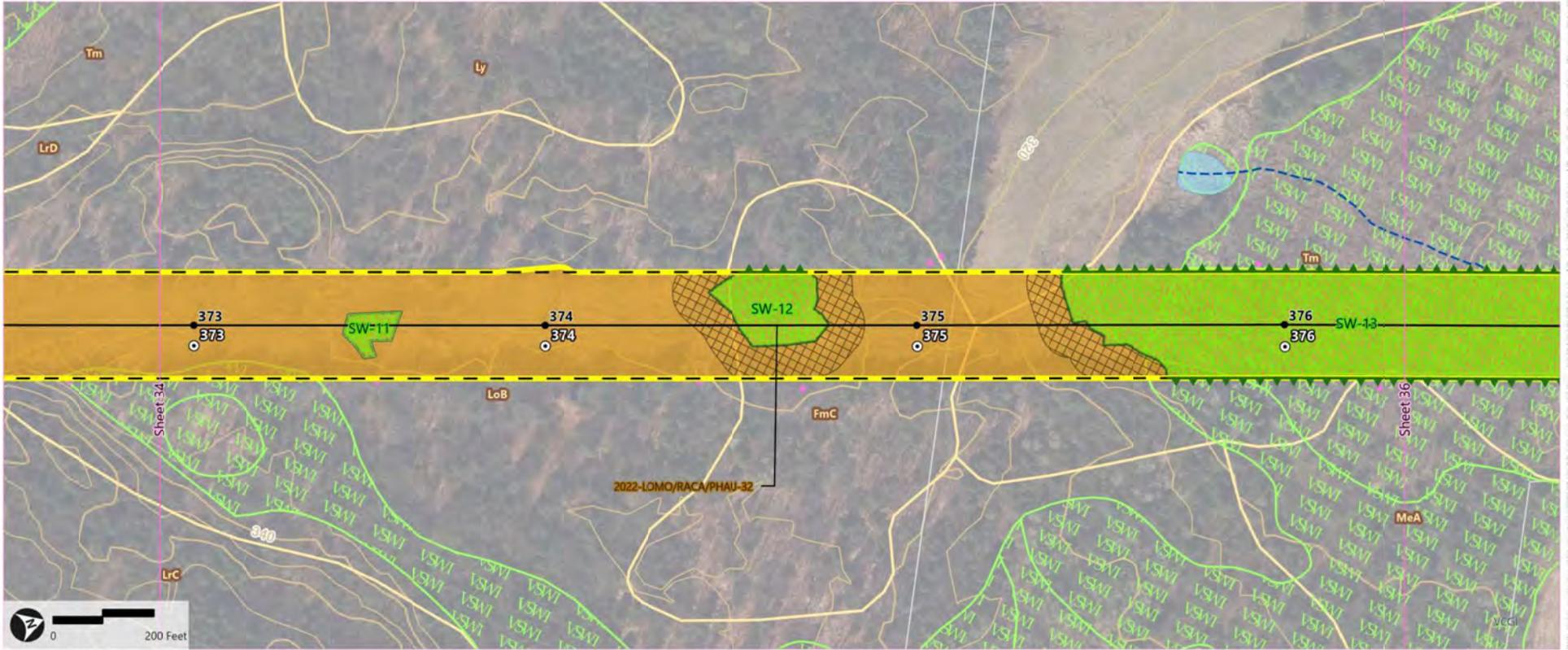
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 35 of 59

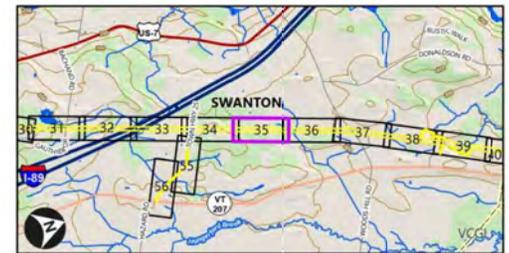
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|---------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Waterbody (ANR) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Manes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

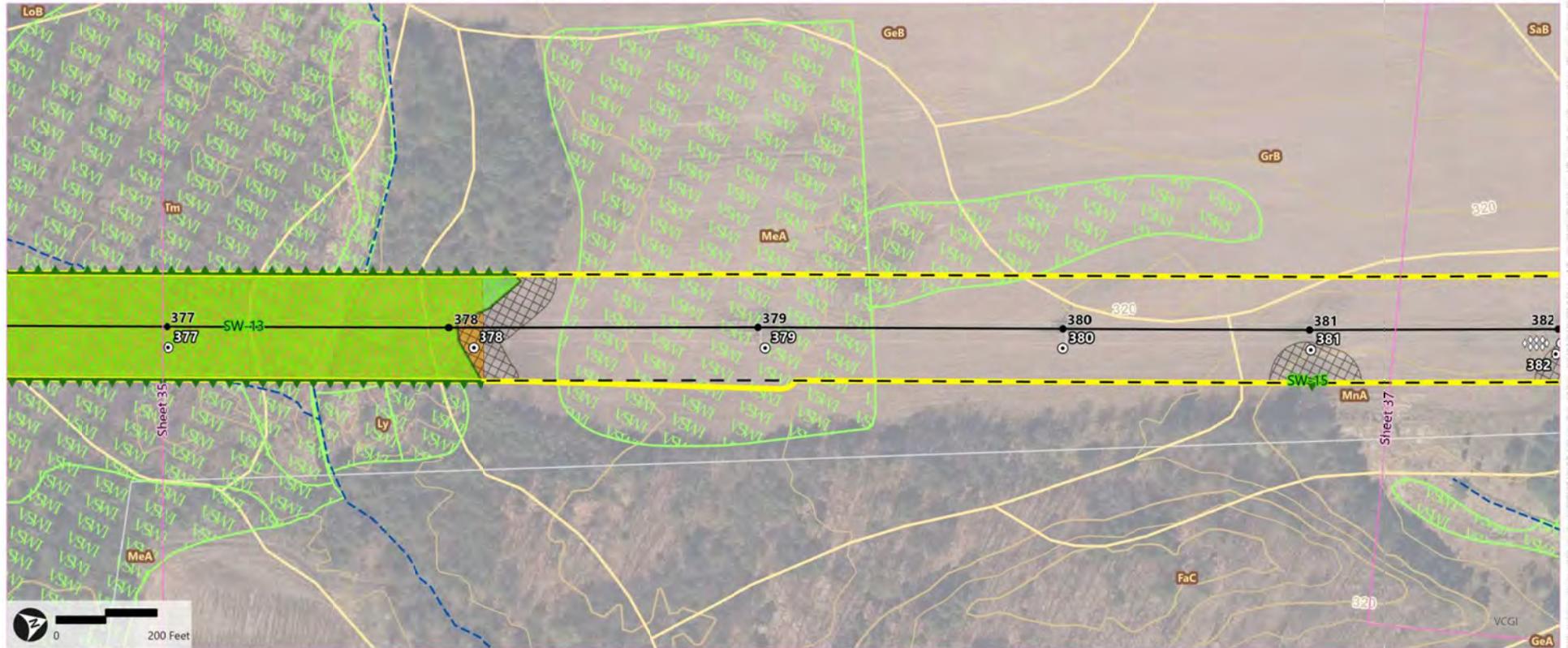
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 36 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- ▬ Study Area (VHB)
- ▭ Sheet Outline (VHB)
- Proposed Structures (VELCO)
- ◊ Proposed Guy Anchors (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- Edge of ROW (Approx.) (VELCO)
- NNIS - Polygon (VHB)
- Delineated Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Wetland Extends (VHB)
- Stream (ANR)
- VSWI Wetland (ANR)
- NRCS Soil Boundary (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Manes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

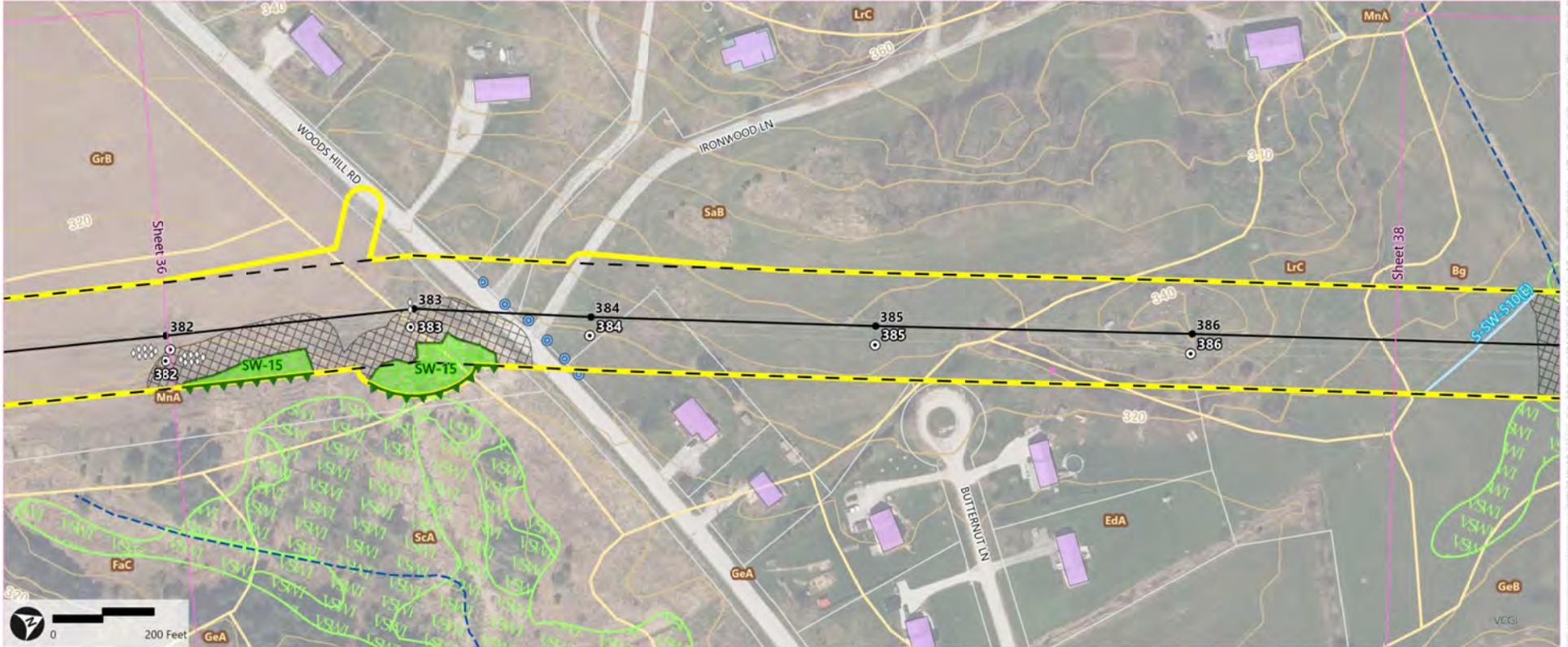
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTtrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 37 of 59

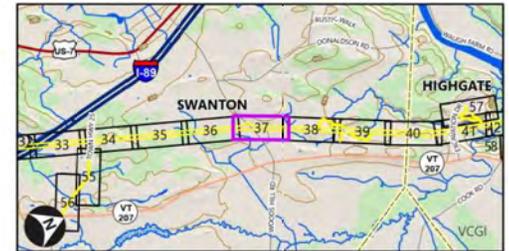
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|------------------------------------|--|-----------------------------------|
| Study Area (VHB) | Found Culvert (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Proposed Guy Anchors (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Existing Structure | Wetland Extends (VHB) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Ephemeral Stream (VHB/VELCO) | |
| Edge of ROW (Approx.) (VELCO) | Stream (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Manies, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

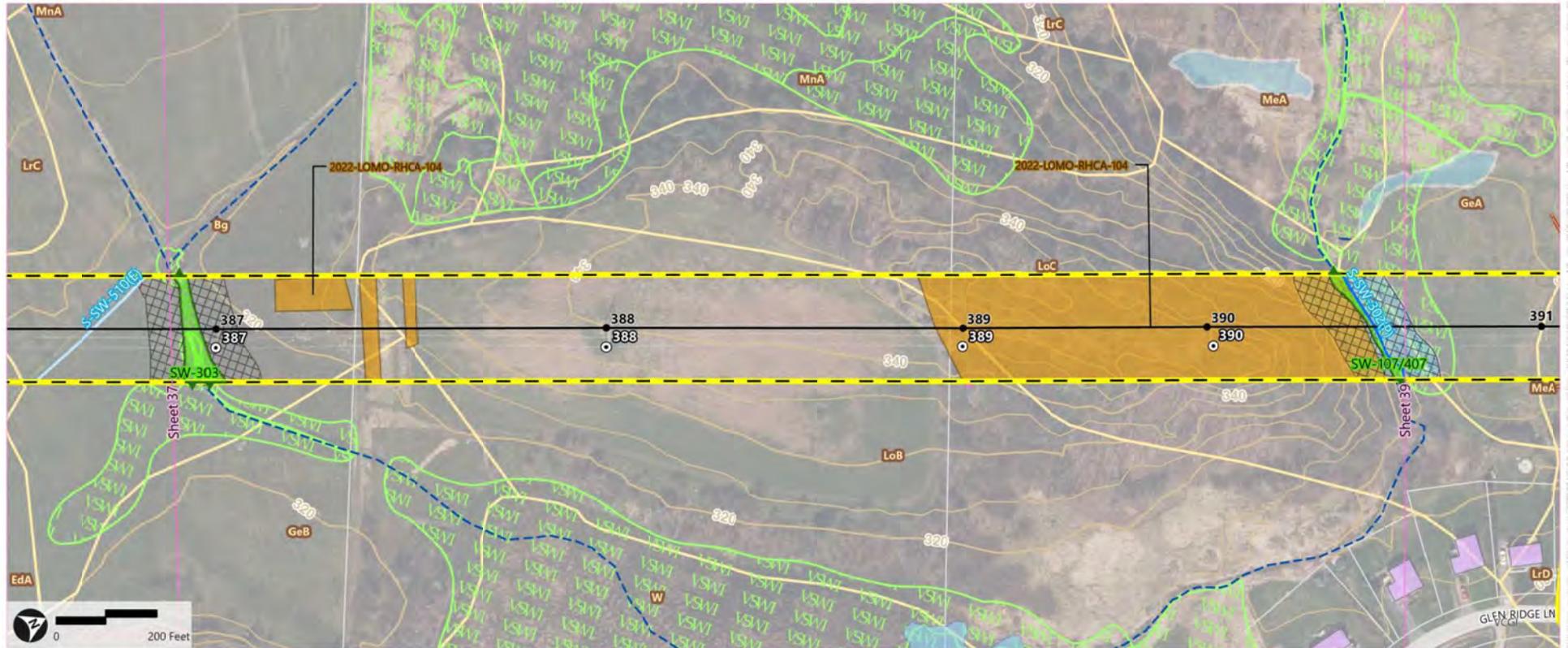
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 38 of 59

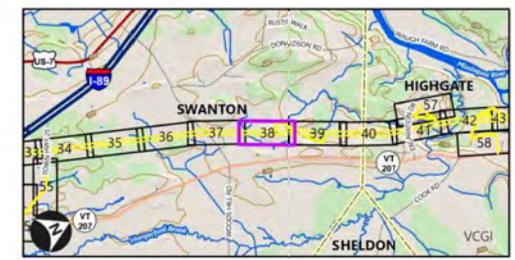
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|---------------------------------------|---------------------------------|
| Study Area (VHB) | NNIS - Polygon (VHB) | Stream (ANR) |
| Sheet Outline (VHB) | Delineated Wetland (VHB/VELCO) | Waterbody (ANR) |
| Proposed Structures (VELCO) | Cass II Wetland Buffer - 50 ft. (VHB) | VSWI Wetland (ANR) |
| Existing Structure (VELCO) | Wetland Extends (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Perennial Stream (VHB/VELCO) | Building Rooftops (2016) (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Ephemeral Stream (VHB/VELCO) | Town Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | River Corridor (VHB) | Parcel Boundary (VCGI) |
| Potential Roost Tree (VHB) | Riparian Stream Buffer (VHB) | |



Legend Note - Only layers visible in the current map display are displayed in the legend

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Heritage Bruntlin - 2022-2023).

Natural Resources Map Series - Sheet 39 of 59

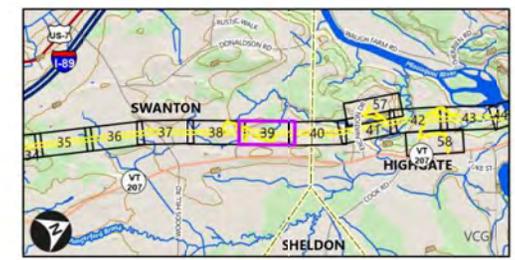
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|--|------------------------------------|
| Study Area (VHB) | Wetland Determination Data Point (VHB) | ANR Deer Wintering Areas (ANR/VHB) |
| Sheet Outline (VHB) | NNIS - Polygon (VHB) | Stream (ANR) |
| Proposed Structures (VELCO) | Delineated Wetland (VHB/VELCO) | Waterbody (ANR) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | VSWI Wetland (ANR) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | NRCS Soil Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Perennial Stream (VHB/VELCO) | Building Roofprints (2016) (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | River Corridor (VHB) | Town Boundary (VCGI) |
| Potential Roost Tree (VHB) | Riparian Stream Buffer (VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022

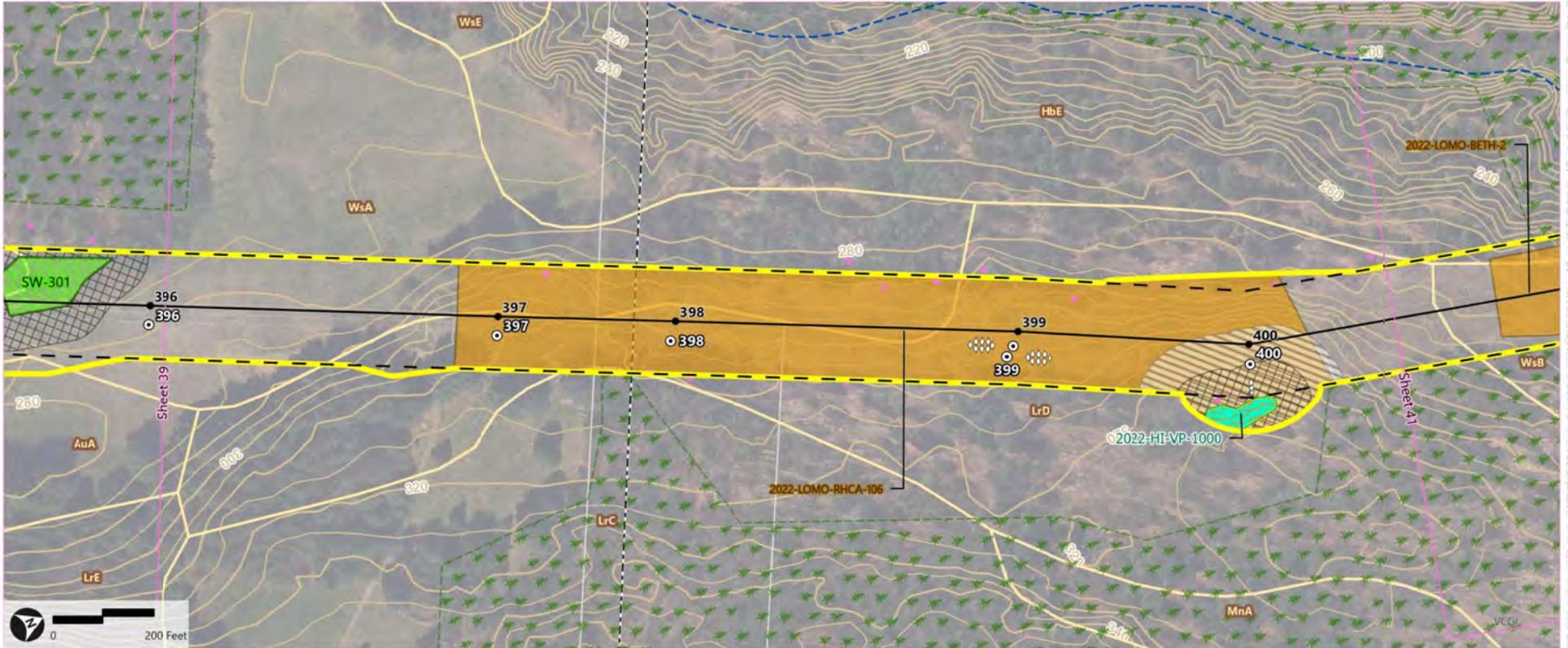
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northeast Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Heritage Bruntlin - 2022-2023)

Natural Resources Map Series - Sheet 40 of 59

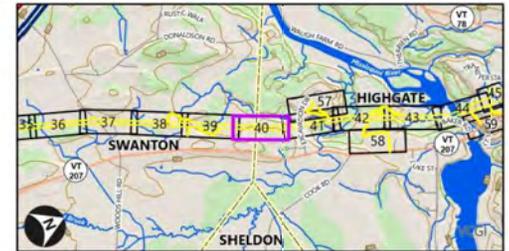
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------------|--|---|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | ANR Deer Wintering Areas (ANR/VHB) |
| Sheet Outline (VHB) | Potential Roost Tree (VHB) | Stream (ANR) |
| Proposed Structures (VELCO) | Potential Vernal Pool - Polygon (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | NNIS - Polygon (VHB) | Town Boundary (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Parcel Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Potential Vernal Pool - 100 ft Buffer (VHB) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Masnes, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

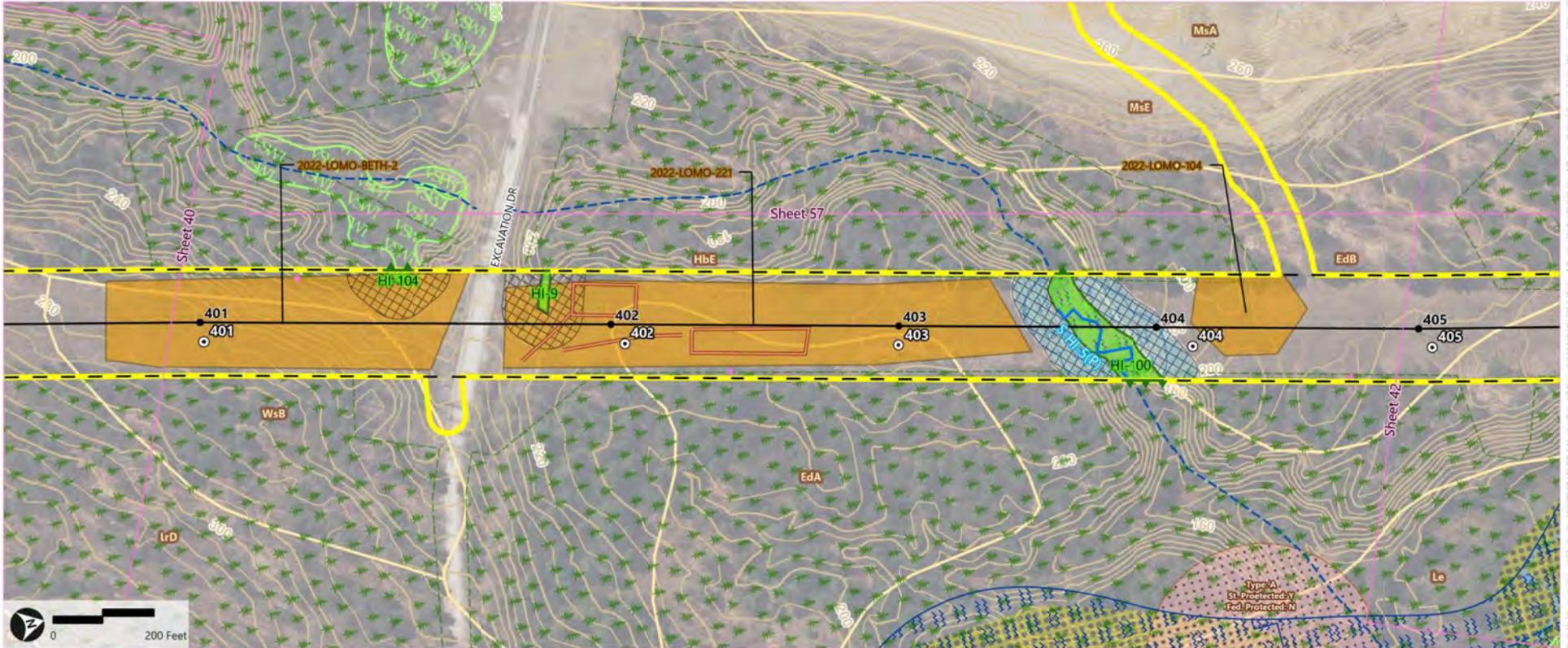
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 41 of 59

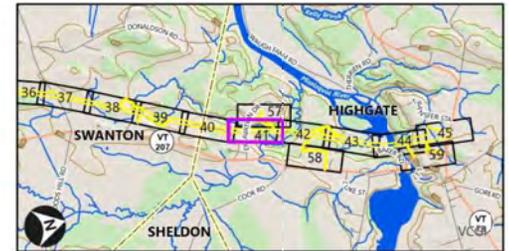
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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|--|--|-----------------------------------|
| Study Area (VHB) | NNIS - Polygon (VHB) | Stream (ANR) |
| Sheet Outline (VHB) | Delineated Wetland (VHB/VELCO) | River Corridor (ANR) |
| Proposed Structures (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Existing Structure (VELCO) | Wetland Extends (VHB) | VSWI Wetland (ANR) |
| Existing Transmission Line (VELCO) | Perennial Stream (VHB/VELCO) | VNHI Element Occurrence (FWD) |
| Edge of ROW (Approx.) (VELCO) | River Corridor (VHB) | NRCS Soil Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Riparian Stream Buffer (VHB) | Town Boundary (VCGI) |
| Potential Roost Tree (VHB) | ANR Deer Wintering Areas (ANR/VHB) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Moines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

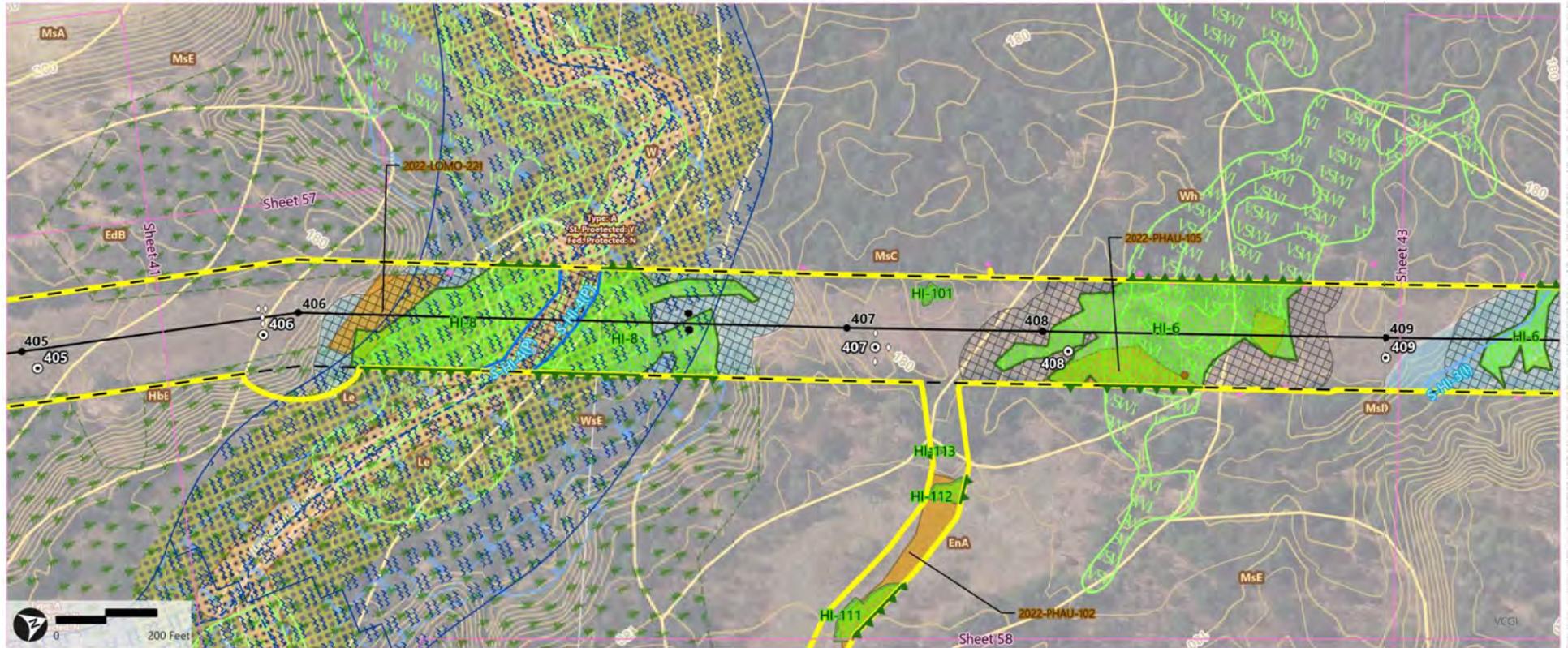
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hanger Brattin - 2022-2023).

Natural Resources Map Series - Sheet 42 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | | |
|------------------------------------|--|------------------------------------|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Wetland Extends (VHB) | FEMA Flood Zones (approx.) (NRPC) |
| Sheet Outline (VHB) | Wetland Determination Data Point (VHB) | Perennial Stream (VHB/VELCO) | VSWI Wetland (ANR) |
| Proposed Structures (VELCO) | NNIS - Point (VHB) | Intermittent Stream (VHB/VELCO) | VNHI Element Occurrence (FWD) |
| Proposed Guy Anchors (VELCO) | RTE (VHB/VELCO) | Riparian Stream Buffer (VHB) | NRCS Soil Boundary (VCGI) |
| Existing Structure (VELCO) | NNIS - Polygon (VHB) | ANR Deer Wintering Areas (ANR/VHB) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | River Corridor (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Phibbs, H. Jackson, P. Scott) during the months of May, June, July, August, October and December 2022.

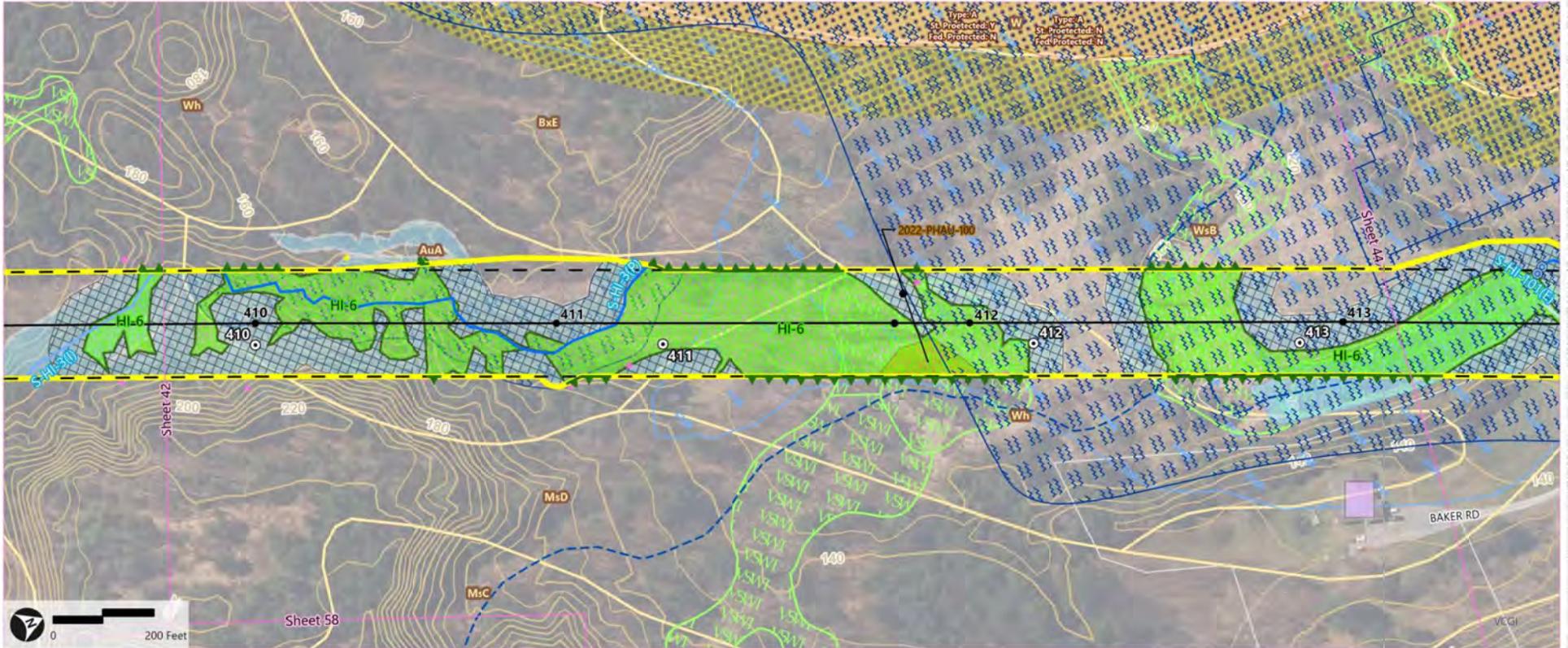
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission) - (SRIS); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hanger Brustin - 2022-2023).

Natural Resources Map Series - Sheet 43 of 59

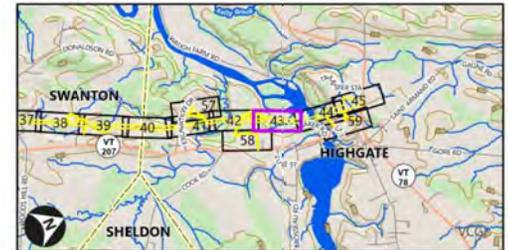
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | | |
|------------------------------------|--|-----------------------------------|-----------------------------------|
| Study Area (VHB) | Wetland Determination Data Point (VHB) | Ephemeral Stream (VHB/VELCO) | VNHI Element Occurrence (FWD) |
| Sheet Outline (VHB) | RTE (VHB/VELCO) | River Corridor (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | Riparian Stream Buffer (VHB) | Building Footprints (2016) (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Waterbody (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | River Corridor (ANR) | |
| Found Culvert (VHB) | Perennial Stream (VHB/VELCO) | FEMA Flood Zones (approx.) (NRPC) | |
| Potential Roost Tree (VHB) | Intermittent Stream (VHB/VELCO) | VSWI Wetland (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Mines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

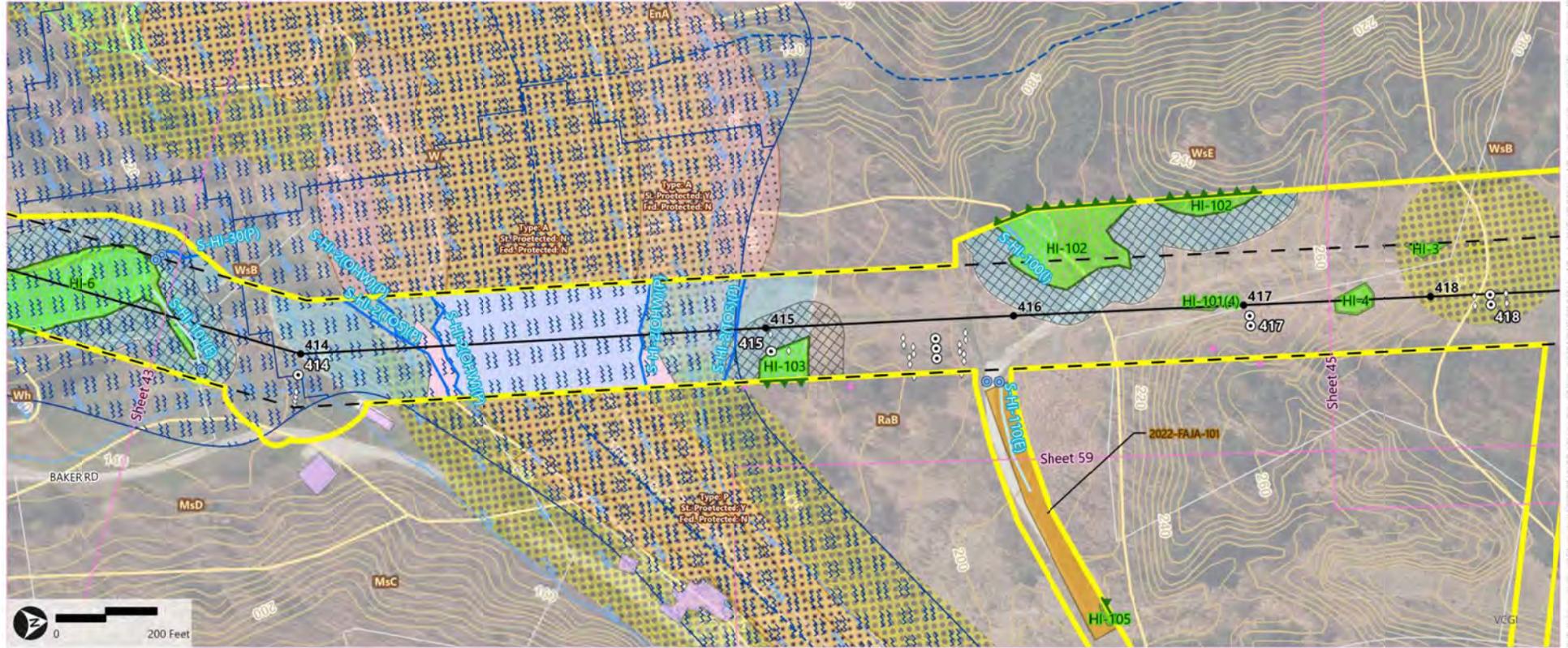
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT Trans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hangen Brattin - 2022-2023).

Natural Resources Map Series - Sheet 44 of 59

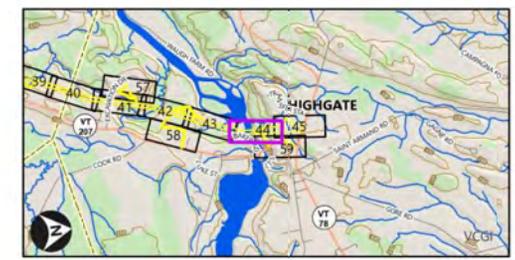
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | | |
|------------------------------------|--|----------------------------------|-----------------------------------|
| Study Area (VHB) | Potential Roost Tree (VHB) | Intermittent Stream (VHB/VELCO) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | RTE (VHB/VELCO) | Ephemeral Stream (VHB/VELCO) | VNHI Element Occurrence (FWD) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | Mapped Waterbody (VHB) | NRCS Soil Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | Natural Community (VHB) | Riparian Stream Buffer (VHB) | Building Footprints (2016) (VCGI) |
| Existing Structure (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Town Boundary (VCGI) |
| Existing Transmission Line (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Waterbody (ANR) | Parcel Boundary (VCGI) |
| Edge of ROW (Approx.) (VELCO) | Wetland Extends (VHB) | River Corridor (ANR) | |
| Found Culvert (VHB) | Perennial Stream (VHB/VELCO) | FEMA Flood Zones (approx.) (NRP) | |



Legend Note: Only areas visible in the current map display are displayed in the legend

All Data from Natural resource field investigations performed by VHB (B. Galligan, A. Viorio, K. Phipps, H. Jackson, P. Strick) during the months of May, June, July, August, October and November 2022.

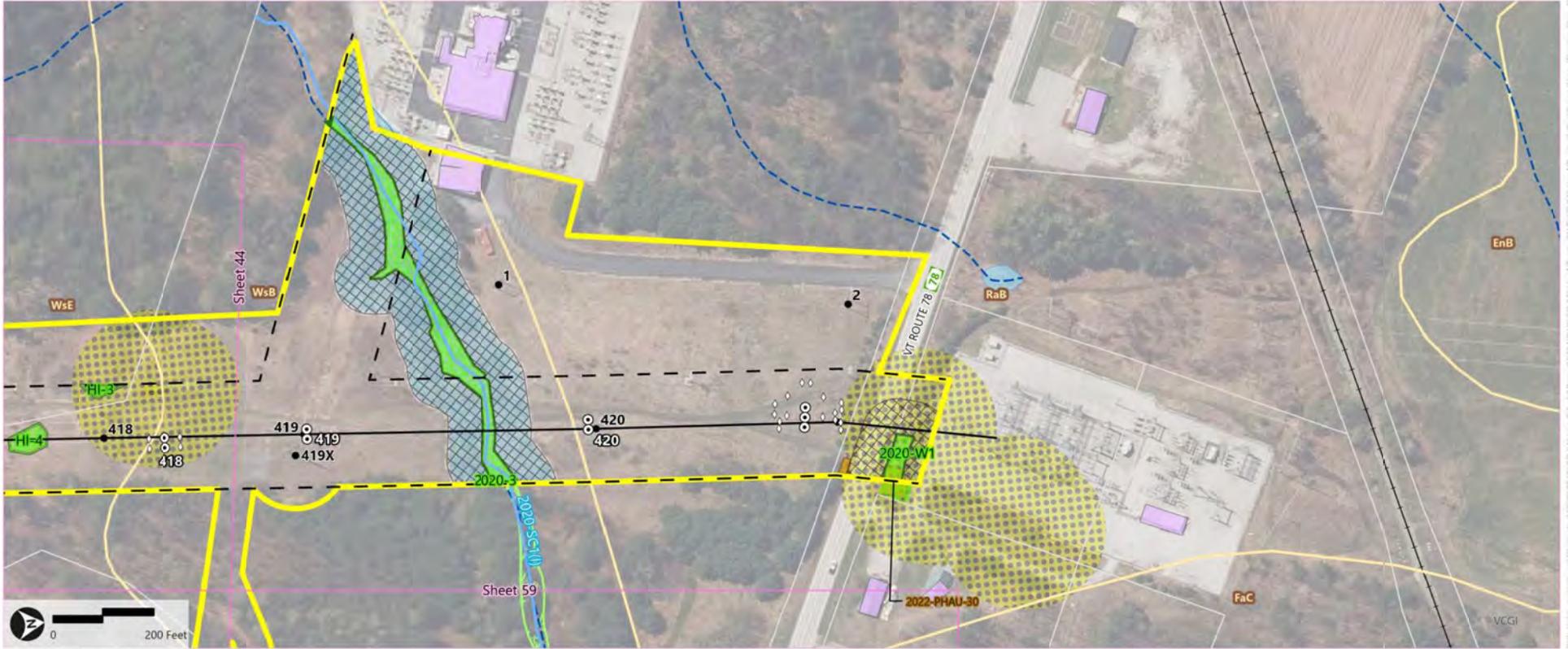
Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT (Vermont Agency of Transportation - Hosted Feature Service); NRP (Northwest Regional Planning Commission) - (2022); VELCO (Vermont Electric Power Company) - (Various Dates); VHB (Vermont Hydrogeology Consultants) - 2022-2023.

Natural Resources Map Series - Sheet 45 of 59

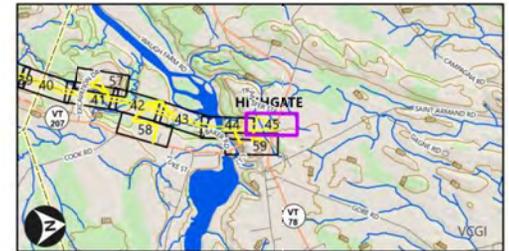
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | | |
|------------------------------------|--|---------------------------------|-----------------------------------|
| Study Area (VHB) | Edge of ROW (Approx.) (VELCO) | Intermittent Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) |
| Sheet Outline (VHB) | RTE (VHB/VELCO) | River Corridor (VHB) | Building Roofprints (2016) (VCGI) |
| Proposed Structures (VELCO) | NNIS - Polygon (VHB) | Riparian Stream Buffer (VHB) | Town Boundary (VCGI) |
| Proposed Guy Anchors (VELCO) | Delineated Wetland (VHB/VELCO) | Stream (ANR) | Parcel Boundary (VCGI) |
| Existing Structure (VELCO) | Class II Wetland Buffer - 50 ft. (VHB) | Waterbody (ANR) | Railroad Lines (VTrans) |
| Existing Transmission Line (VELCO) | Wetland Extends (VHB) | VSWI Wetland (ANR) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Misses, H. Aukerman, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Heritage Bruntin - 2022-2023).

Natural Resources Map Series - Sheet 47 of 59

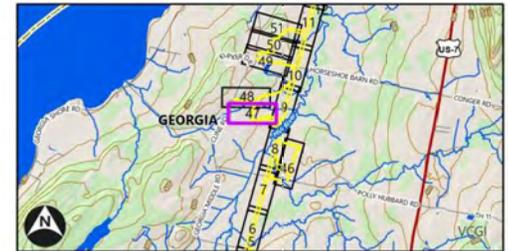
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Study Area (VHB)
- Sheet Outline (VHB)
- Stream (ANR)
- Waterbody (ANR)
- FEMA Flood Zones (approx.) (NRPCC)
- VSWI Wetland (ANR)
- NRCS Soil Boundary (VCGI)
- Building Footprints (2016) (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPCC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 48 of 59

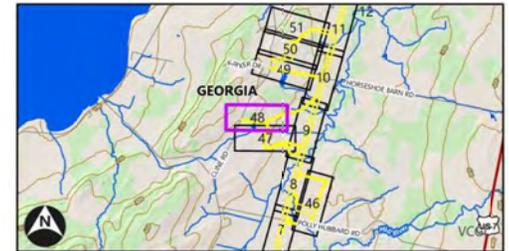
VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|--|-----------------------|-----------------------------------|
| Study Area (VHB) | Wetland Extends (VHB) | NRCS Soil Boundary (VCGI) |
| Sheet Outline (VHB) | Stream (ANR) | Building Footprints (2016) (VCGI) |
| Delineated Wetland (VHB/VELCO) | Waterbody (ANR) | Town Boundary (VCGI) |
| Class II Wetland Buffer - 50 ft. (VHB) | VSWI Wetland (ANR) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

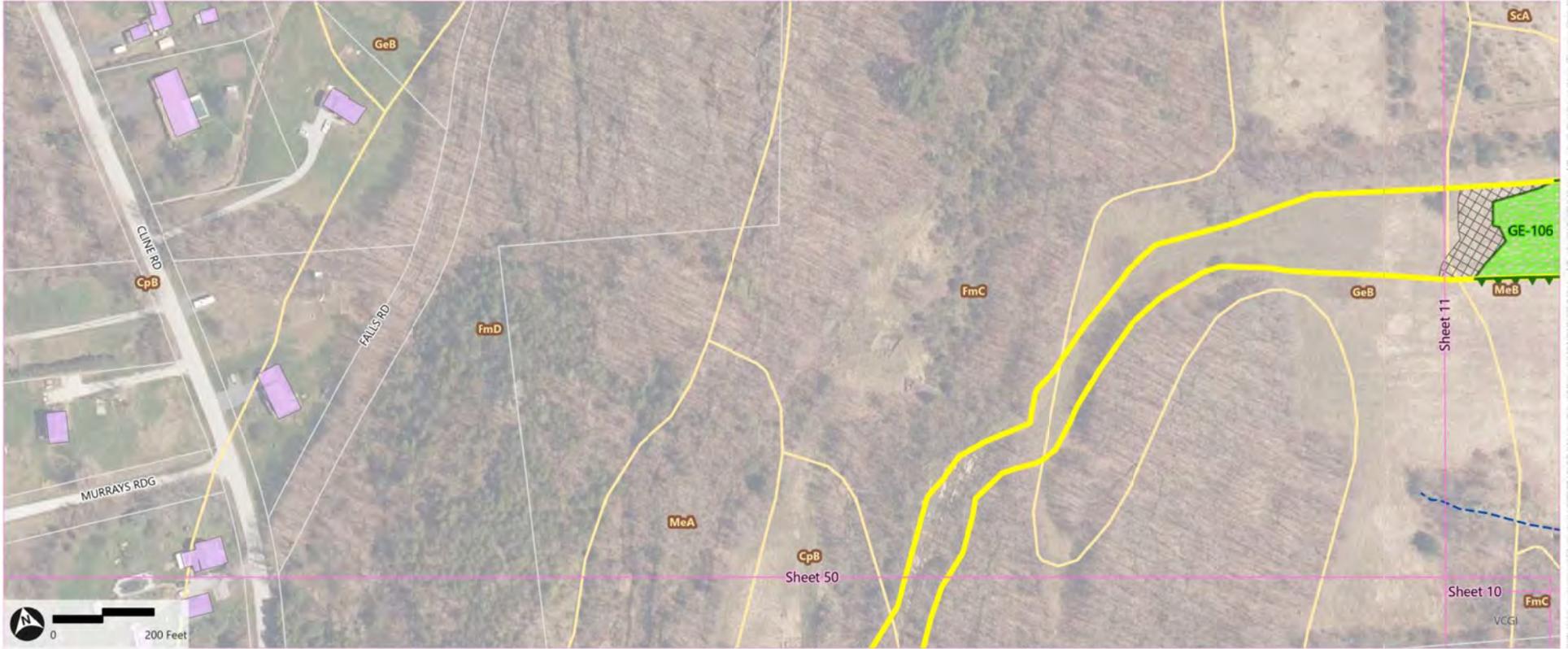
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 51 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Study Area (VHB)
- Sheet Outline (VHB)
- Delineated Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Building Roofprints (2016) (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Stream (ANR)
- NRCS Soil Boundary (VCGI)
- Building Roofprints (2016) (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

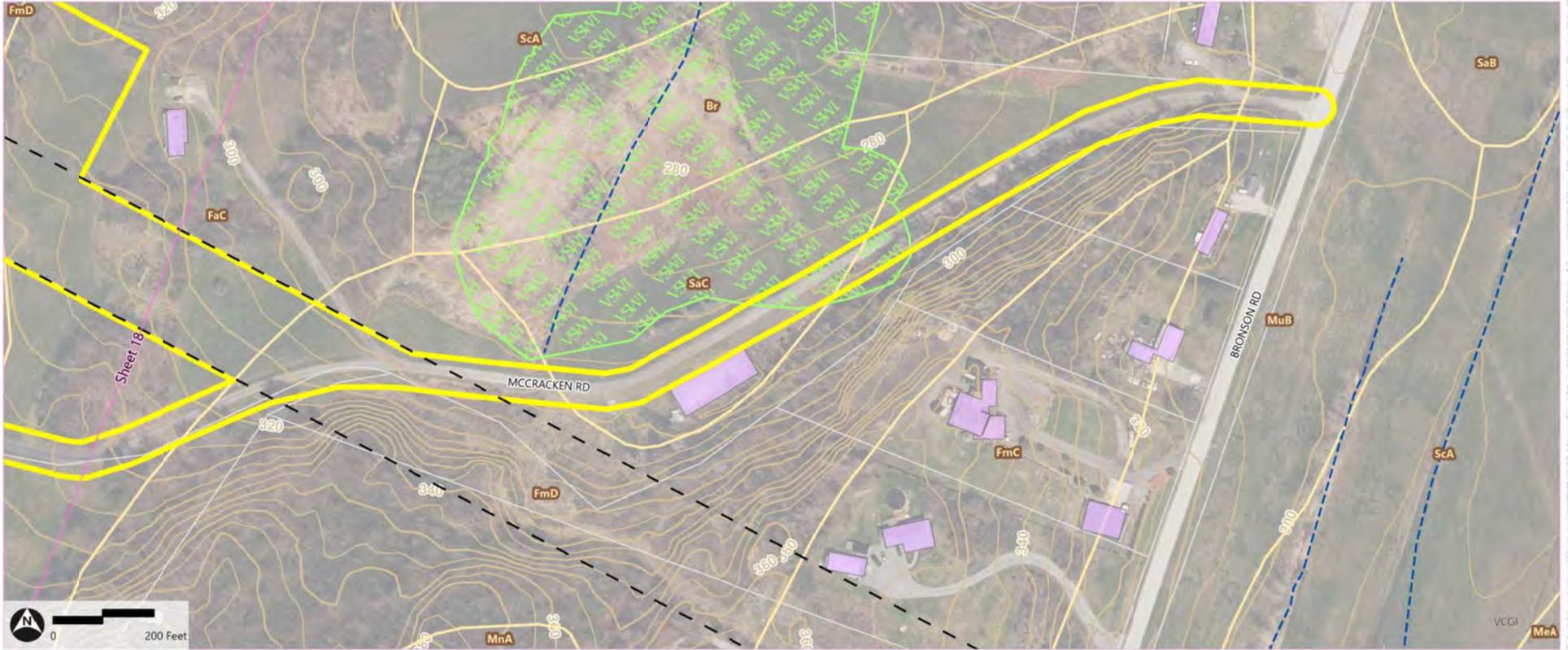
\\fs1\work\murray\proj\delaware\proj\delaware\VELCO\FCLU\K-42\115kV\Map\Map_Series\Map_Series_51.mxd (Thematic Color: 10/17/2023)

Natural Resources Map Series - Sheet 53 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Study Area (VHB)
- Sheet Outline (VHB)
- Edge of ROW (Approx.) (VELCO)
- Stream (ANR)
- VSWI Wetland (ANR)
- NRCS Soil Boundary (VCGI)
- Building Roofprints (2016) (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

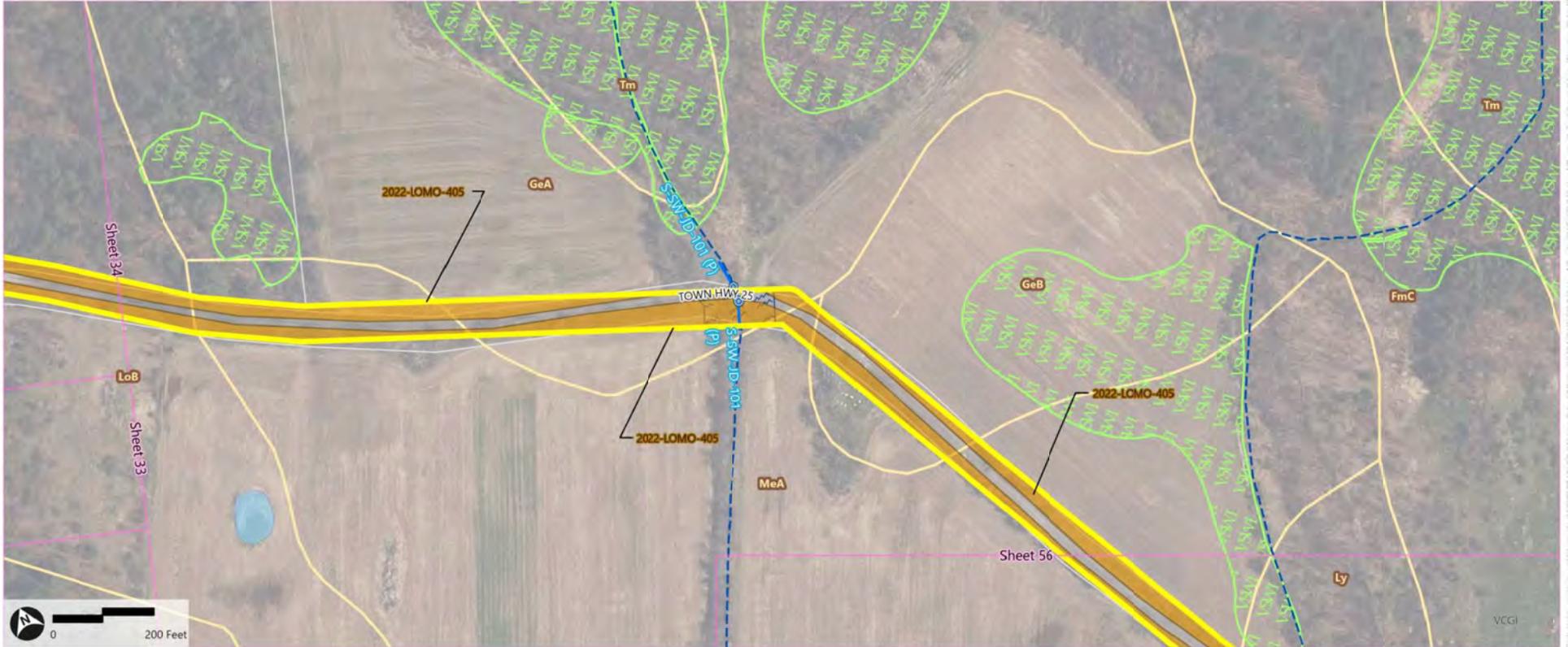
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernatec Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 55 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|----------------------|------------------------------|---------------------------|
| Study Area (VHB) | Perennial Stream (VHB/VELCO) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | River Corridor (VHB) | NRCS Soil Boundary (VCGI) |
| Found Culvert (VHB) | Stream (ANR) | Town Boundary (VCGI) |
| NNIS - Polygon (VHB) | Waterbody (ANR) | Parcel Boundary (VCGI) |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

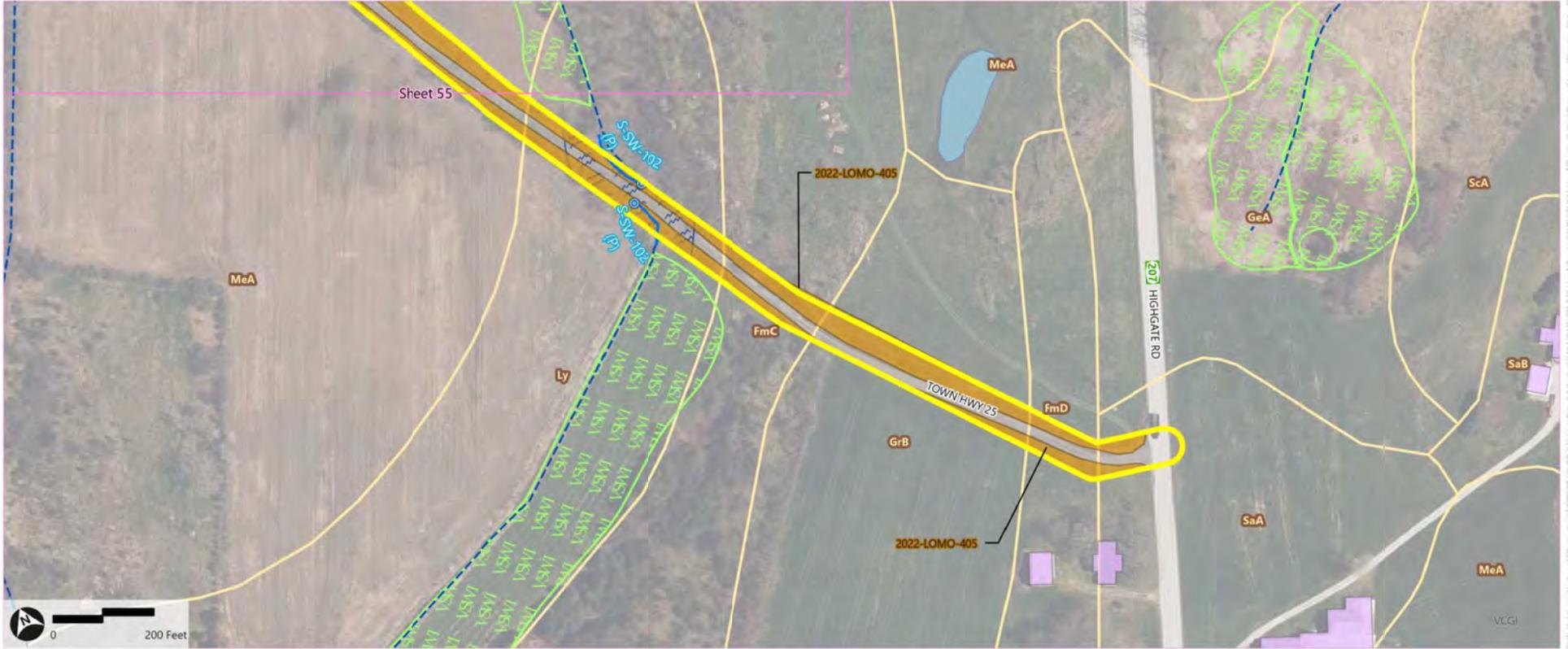
Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 56 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|------------------------------|---------------------------|-----------------------------------|
| Study Area (VHB) | River Corridor (VHB) | Building Roofprints (2016) (VCGI) |
| Sheet Outline (VHB) | Stream (ANR) | Town Boundary (VCGI) |
| Found Culvert (VHB) | Waterbody (ANR) | Parcel Boundary (VCGI) |
| NNIS - Polygon (VHB) | VSWI Wetland (ANR) | |
| Perennial Stream (VHB/VELCO) | NRCS Soil Boundary (VCGI) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

NR Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernise Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 57 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Study Area (VHB)
- Sheet Outline (VHB)
- ANR Deer Wintering Areas (ANR/VHB)
- Stream (ANR)
- River Corridor (ANR)
- FEMA Flood Zones (approx.) (NRPC)
- VSWI Wetland (ANR)
- NRCS Soil Boundary (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)



Legend Note - Only layers visible in the current map display are displayed in the legend.

NRI Data Note: Natural resource field investigations performed by VHB (B. Galligan, A. Pierce, K. Maines, M. Jackson, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernise Hangen Brustlin - 2022-2023).

Natural Resources Map Series - Sheet 59 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
|--|-----------------------------------|-----------------------------------|
| Study Area (VHB) | Wetland Extends (VHB) | VSWI Wetland (ANR) |
| Sheet Outline (VHB) | Intermittent Stream (VHB/VELCO) | VNIH Element Occurrence (FWD) |
| NNIS - Point (VHB) | Ephemeral Stream (VH3/VELCO) | NRCS Soil Boundary (VCGI) |
| RTE (VHB/VELCO) | Stream (ANR) | Building Roofprints (2016) (VCGI) |
| NNIS - Polygon (VHB) | Waterbody (ANR) | Town Boundary (VCGI) |
| Delineated Wetland (VHB/VELCO) | River Corridor (ANR) | Parcel Boundary (VCGI) |
| Class II Wetland Buffer - 50 ft. (VHB) | FEMA Flood Zones (approx.) (NRPC) | |



Legend Note - Only layers visible in the current map display are displayed in the legend.

All Data Note: Natural resource field investigations performed by VHB (B. Galsip, J. Varco, K. Phisau, H. Auerman, R. Scott) during the months of May, June, July, August, October and December 2022.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VT (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vanasse Hangen Brustlin - 2022-2023).

APPENDIX B

Prime Agricultural Soils (PAS) Map Series - Sheet 1 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

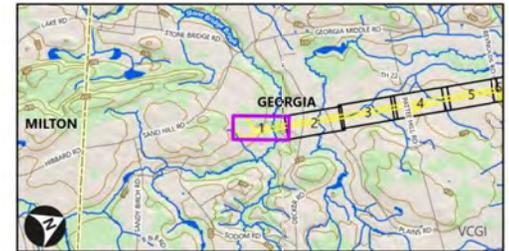


- | | | |
|--|--|--|
| ■ Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | ■ Class II Wetland (VHB/VELCO) | — Existing Transmission Line (VELCO) |
| ■ Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | - - - Edge of ROW (VELCO) |
| ■ Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| ■ NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| ■ Prime Agricultural Soils (PAS) (VCGI) | ◇ Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | ● Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

Legend Note - Only layers visible in the current map display are displayed in the legend.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernese Hogen Brustlin - 2022-2023)



PAS Map Notes:

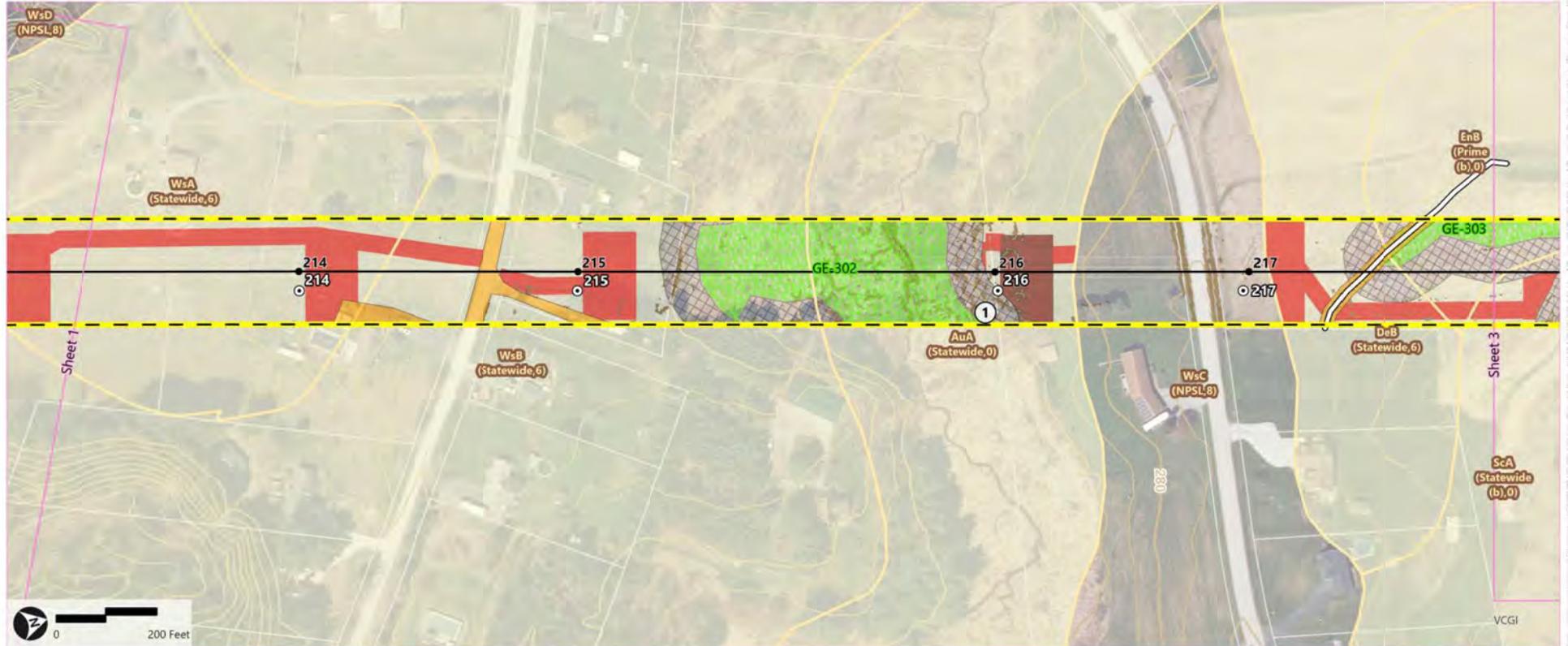
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 2 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

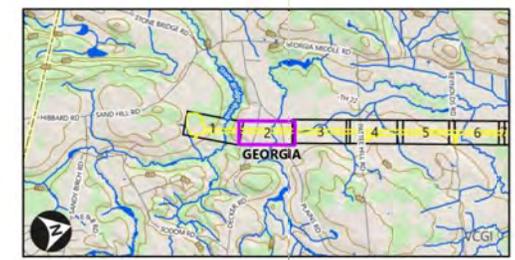


- | | | |
|--|--|--|
| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

Legend Note - Only layers visible in the current map display are displayed in the legend.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannest/Hoggen Brustlin - 2022-2023)



- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 3 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

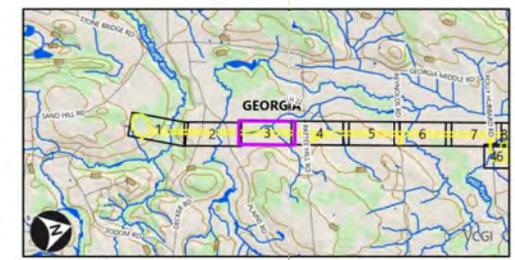


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Non Functional PAS (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

Legend Note - Only layers visible in the current map display are displayed in the legend.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannest/Hoggen Brustlin - 2022-2023)



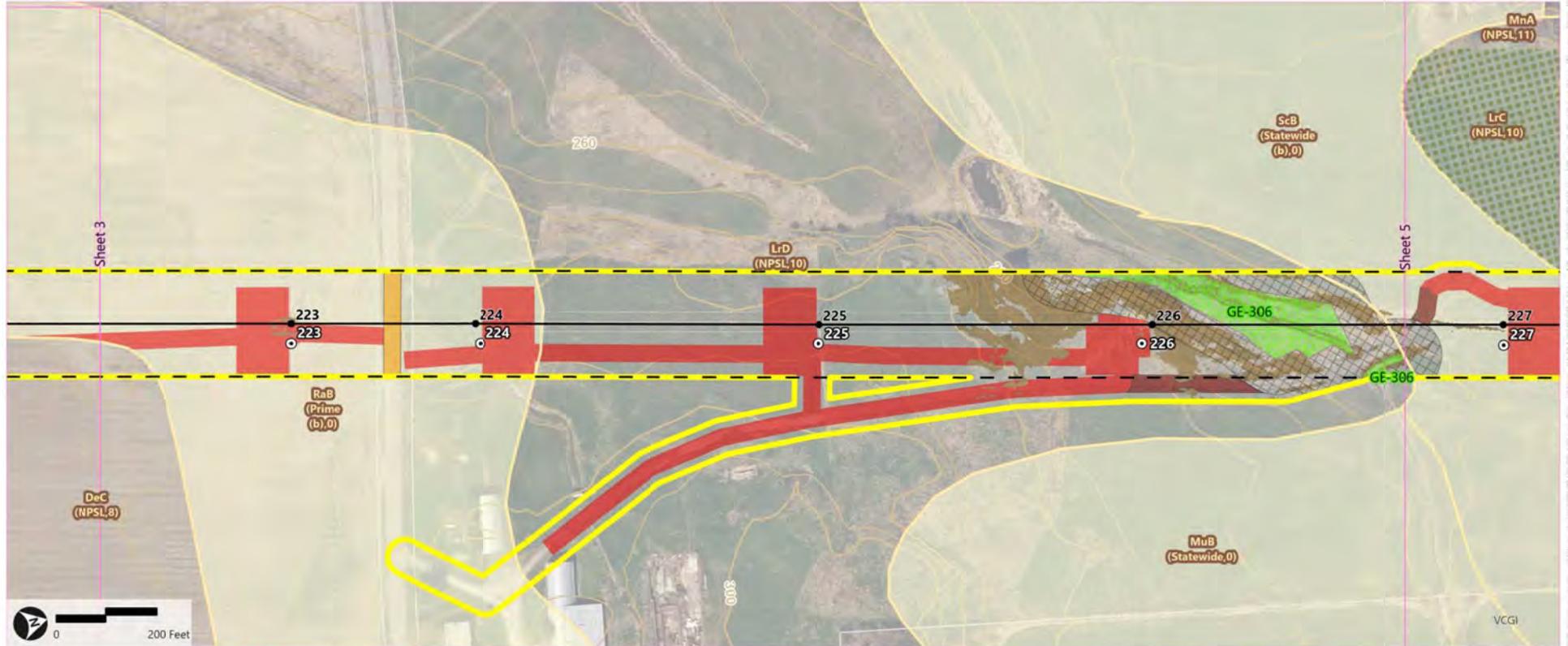
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 4 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

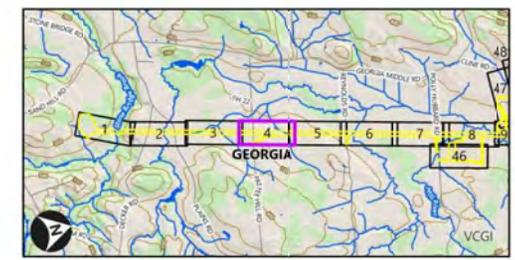


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Currently Farmed Non-PAS (VELCO/VCGI) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannest Haugen Brustlin - 2022-2023)



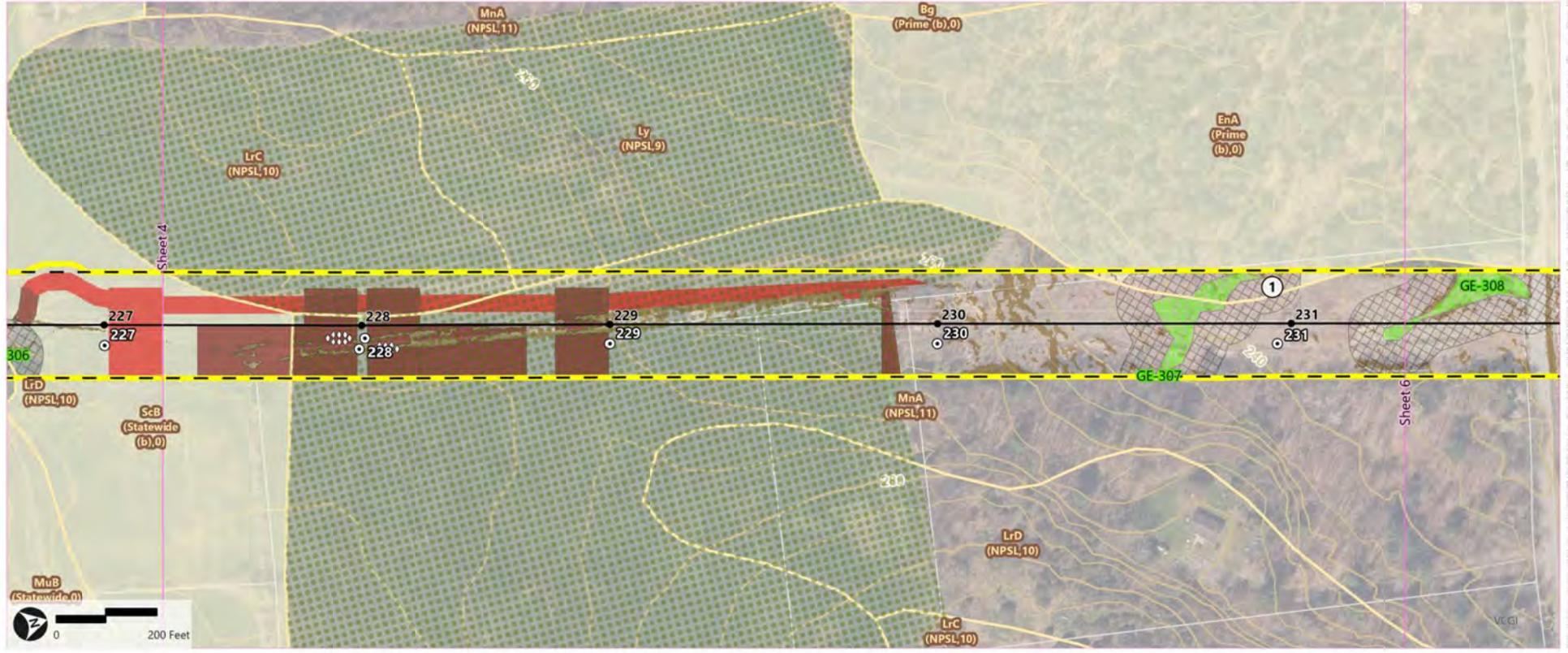
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 5 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

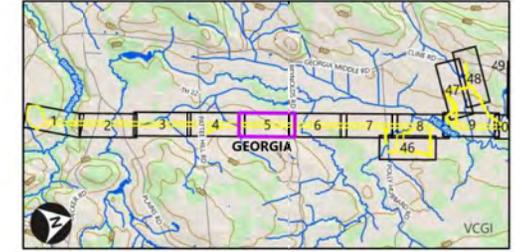


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Currently Farmed Non-PAS (VELCO/VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernese Hogen Brustlin - 2003-2023)



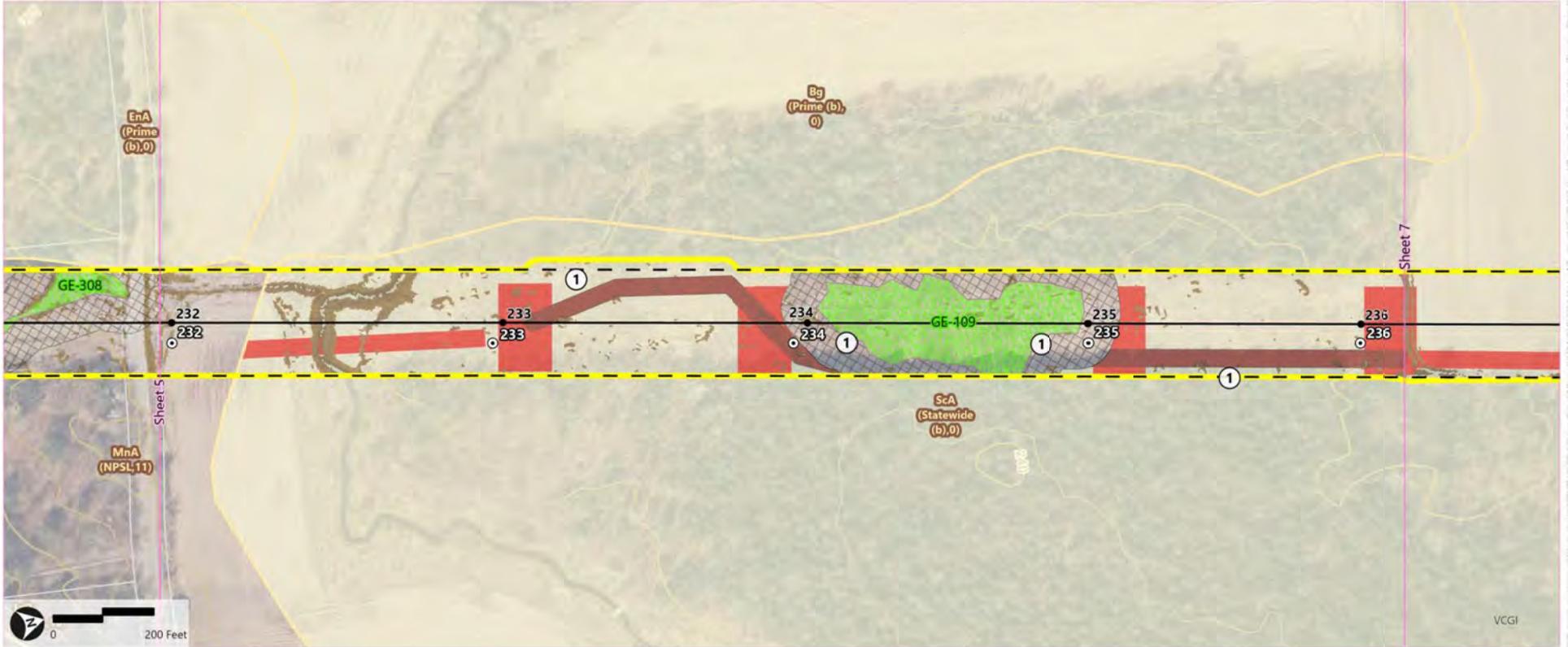
- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 6 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

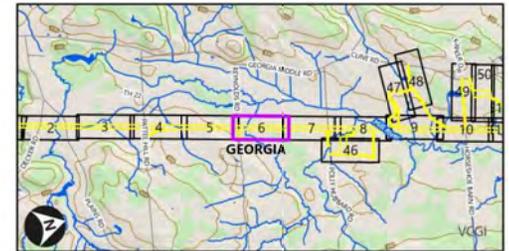


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannest/Hoggen Brustlin - 2022-2023)



PAS Map Notes:

- ① Prime agricultural soils (PAS) to be stockpiled/windowed in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 7 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

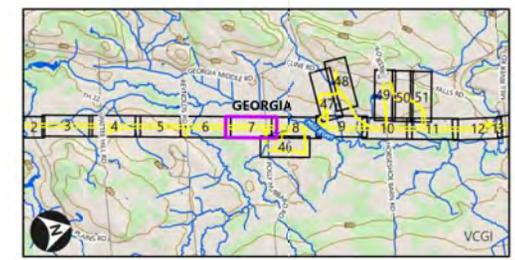


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Various Dates); NHPC (Northwest Regional Planning Commission - Various Dates); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hydrogen Business - 2022-2023)



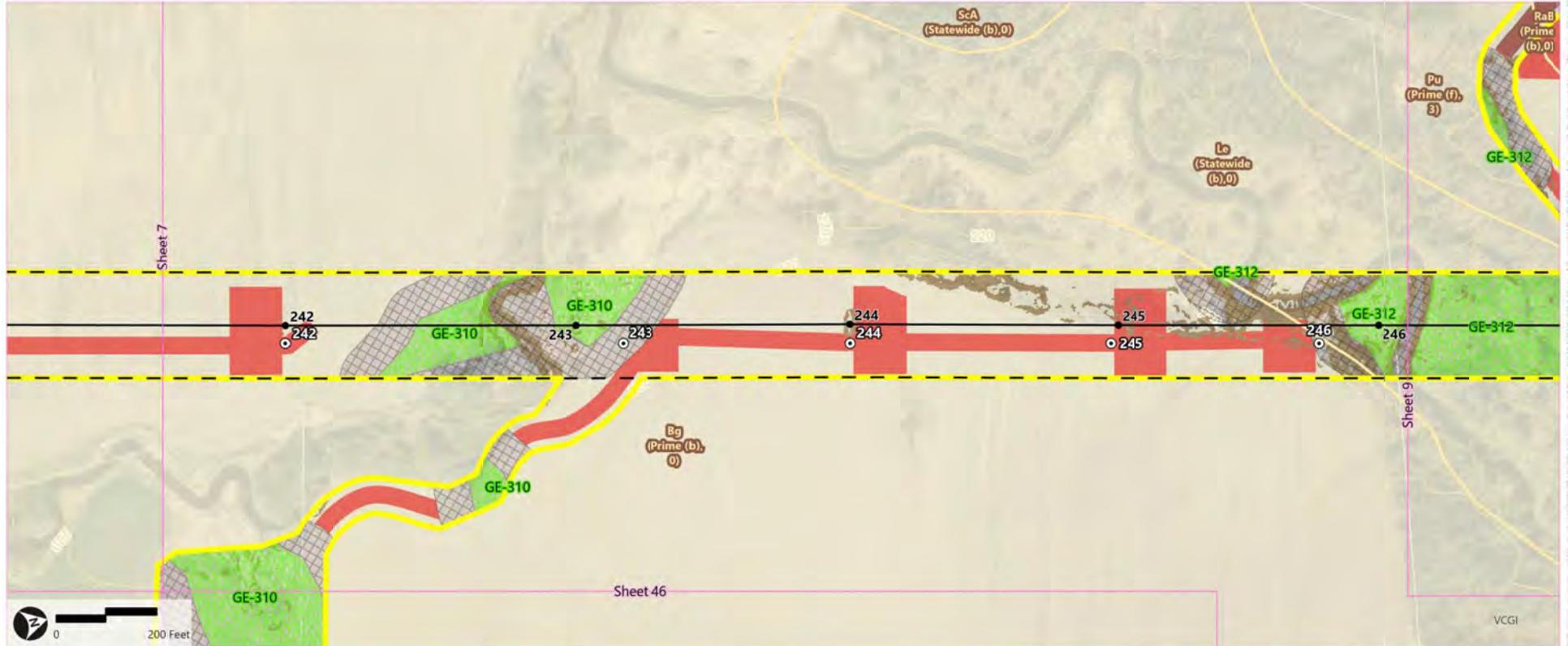
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 8 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

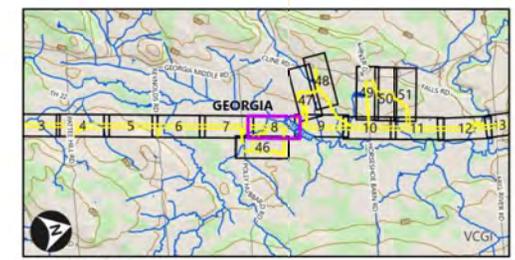


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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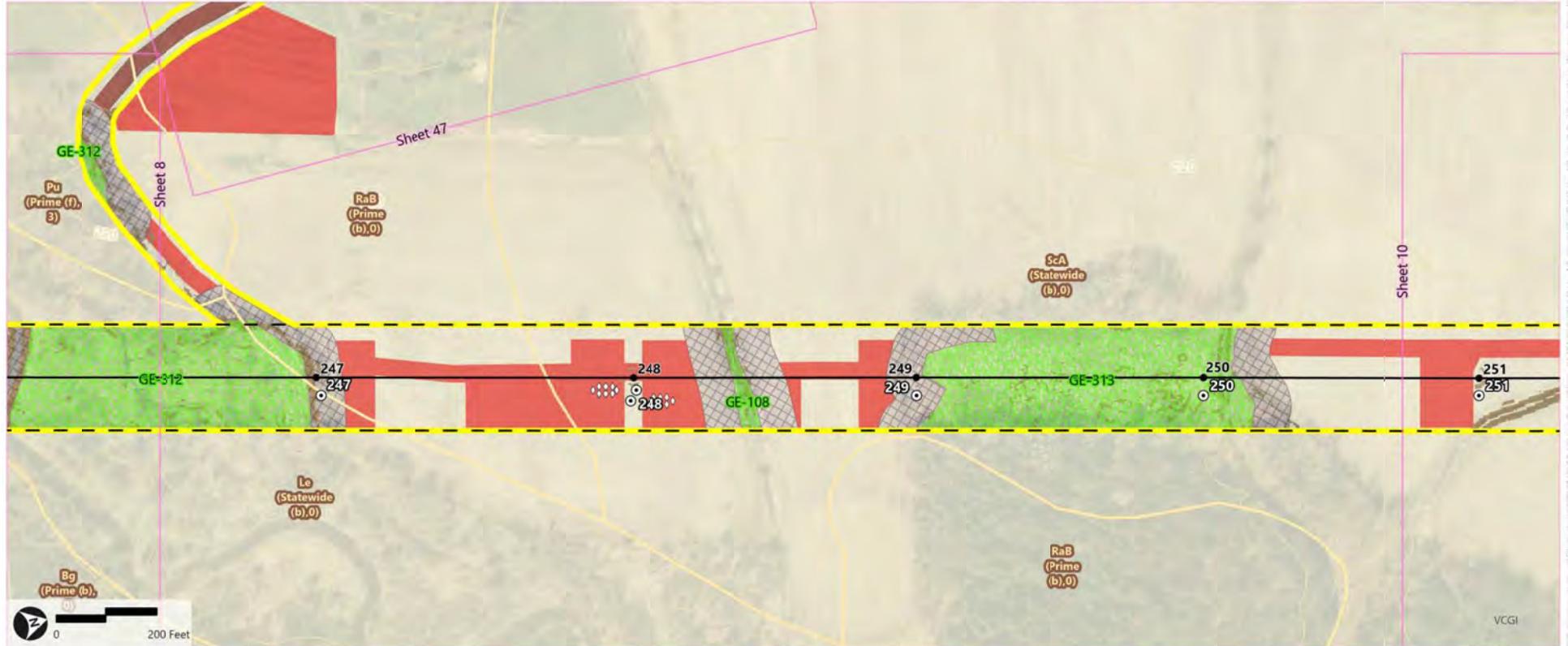
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 9 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

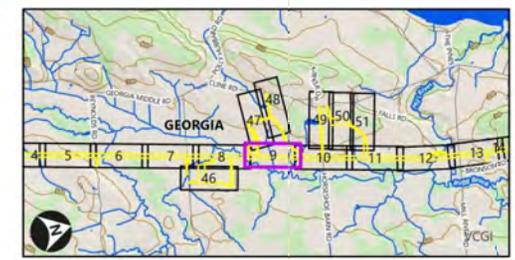


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |
| Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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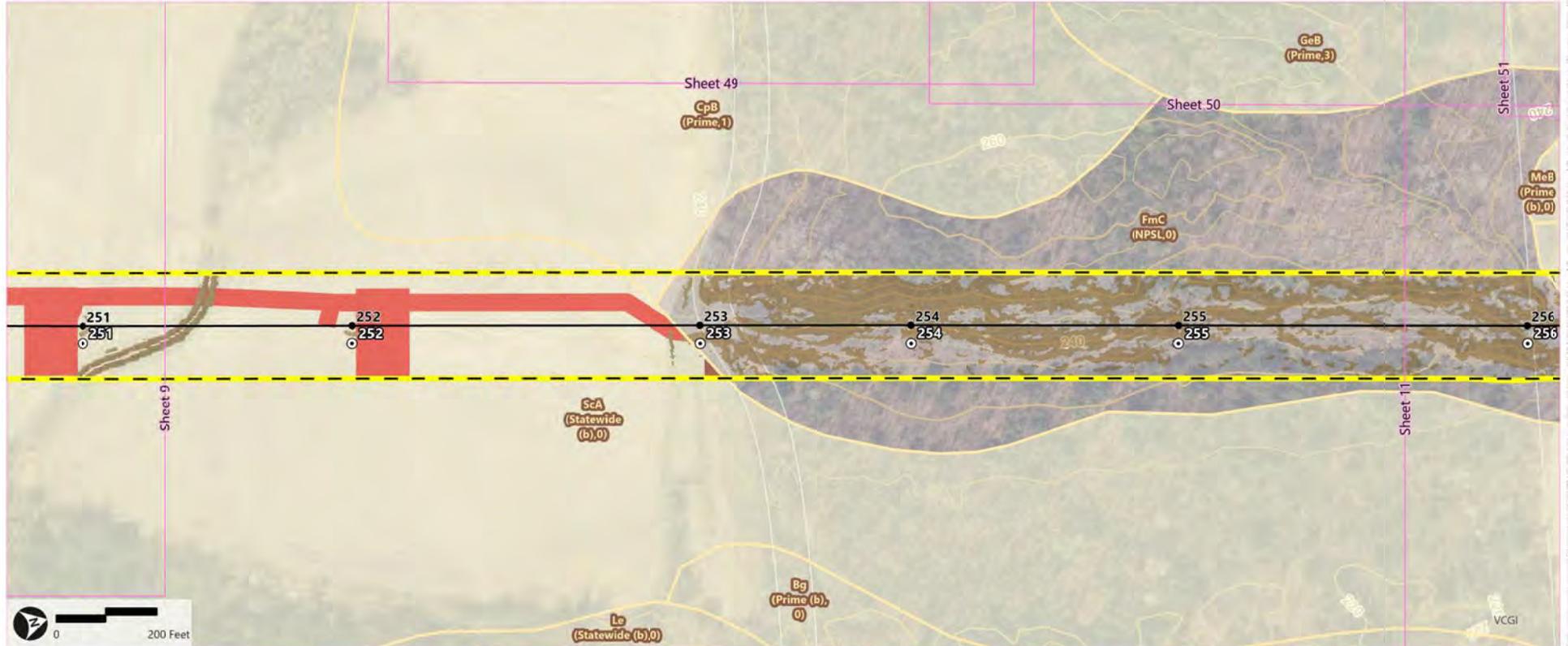
- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 10 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

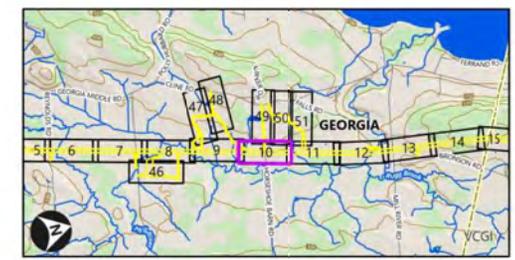


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- Prime Ag. Soil - Physical Disturbance (VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Proposed Structures (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- Edge of ROW (VELCO)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - Various Dates); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernisse Hagen Brustlin - 2022-2023)



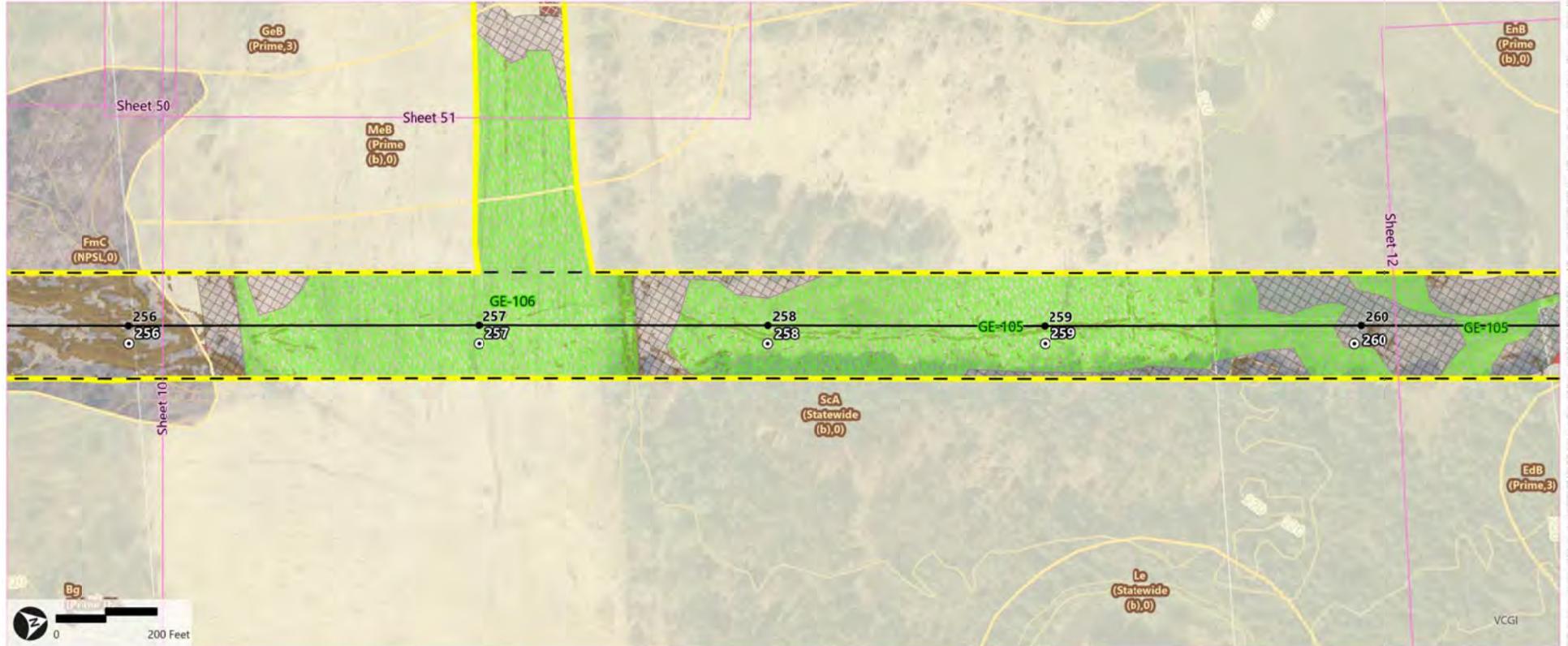
- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 11 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

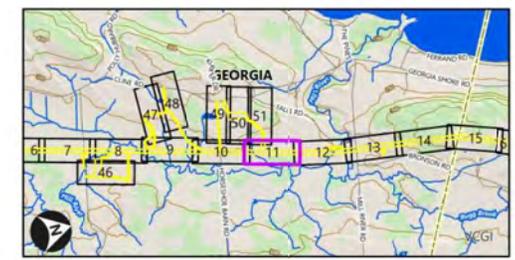


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Prime Ag. Soil - Permanent Disturbance (VHB) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | |
| Study Area (VHB) | Existing Transmission Line (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernisse/Hoogen Brustlin - 2022-2023)



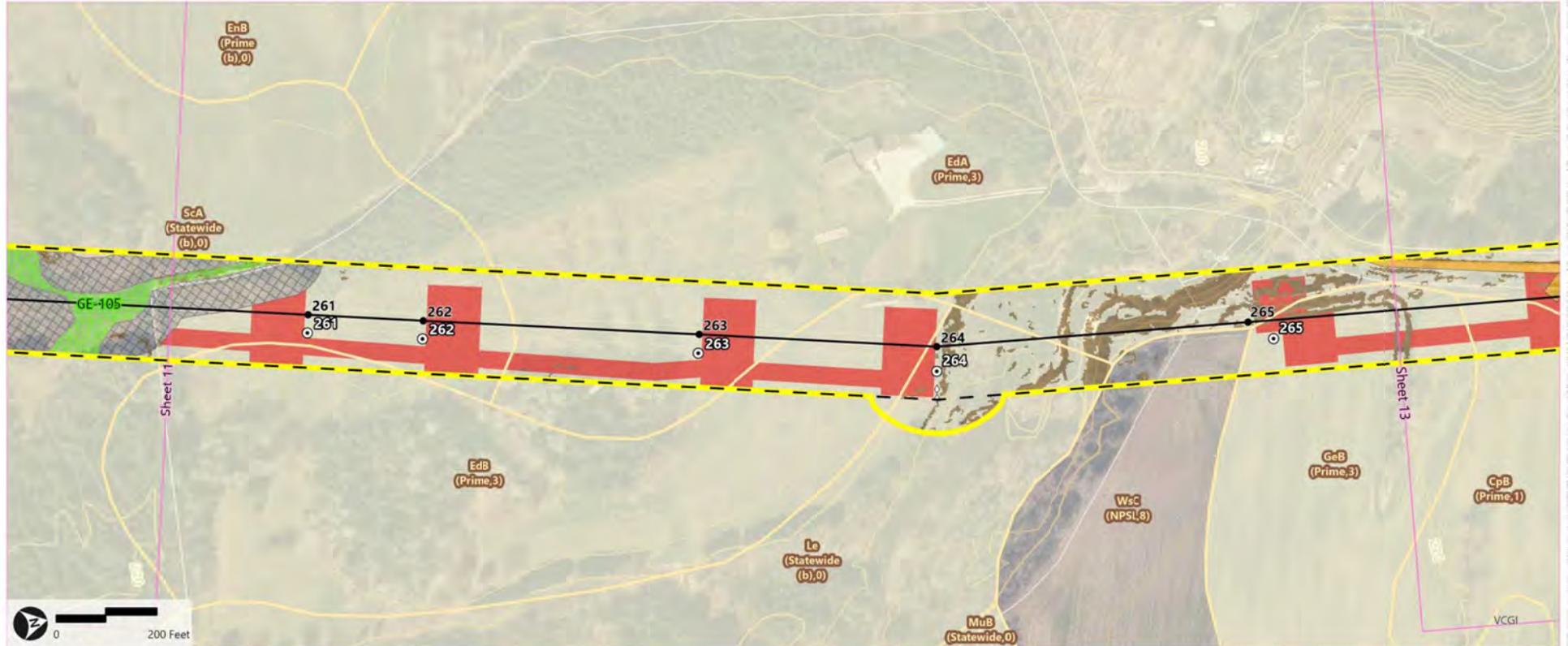
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 12 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

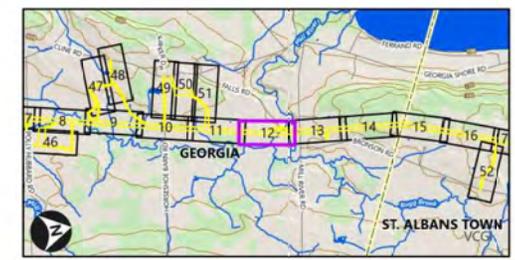


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Non Functional PAS (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 13 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

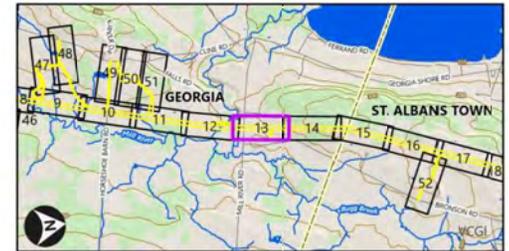


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Non Functional PAS (VELCO/VHB) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Structure (VELCO) | |

Note:
This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

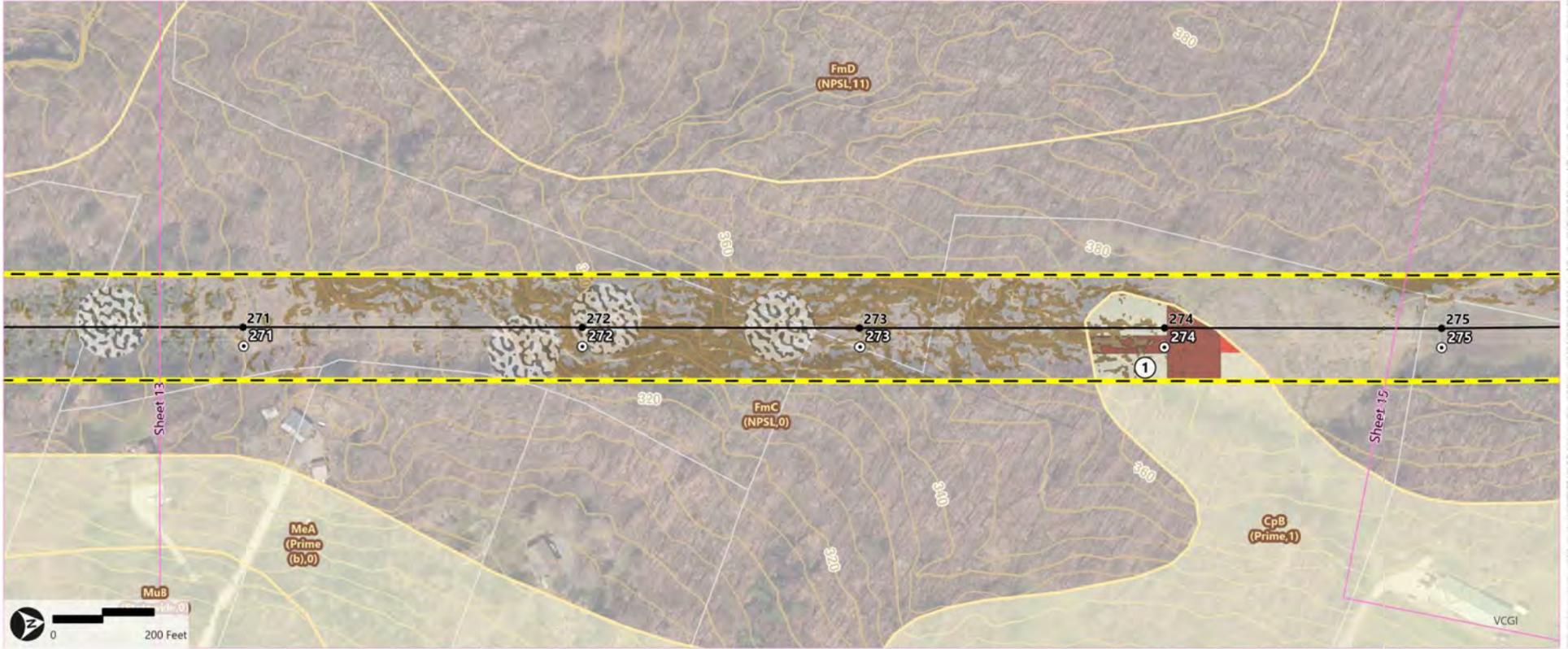
- ① Prime agricultural soils (PAS) to be stockpiled/windowed in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 14 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

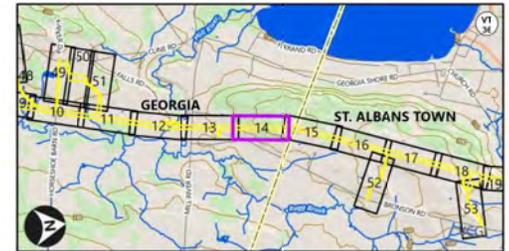


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Proposed Structures (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Existing Structure (VELCO) |
| NRCS Soil Boundary (VCGI) | Existing Transmission Line (VELCO) |
| Prime Agricultural Soils (PAS) (VCGI) | Edge of ROW (VELCO) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Town Boundary (VCGI) |
| Study Area (VHB) | Parcel Boundary (VCGI) |
| Sheet Outline (VHB) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

Legend Note - Only layers visible in the current map display are displayed in the legend.

Sources: Background Imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTRANS (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vermont Hanger Brustin - 2022-2023)



PAS Map Notes:

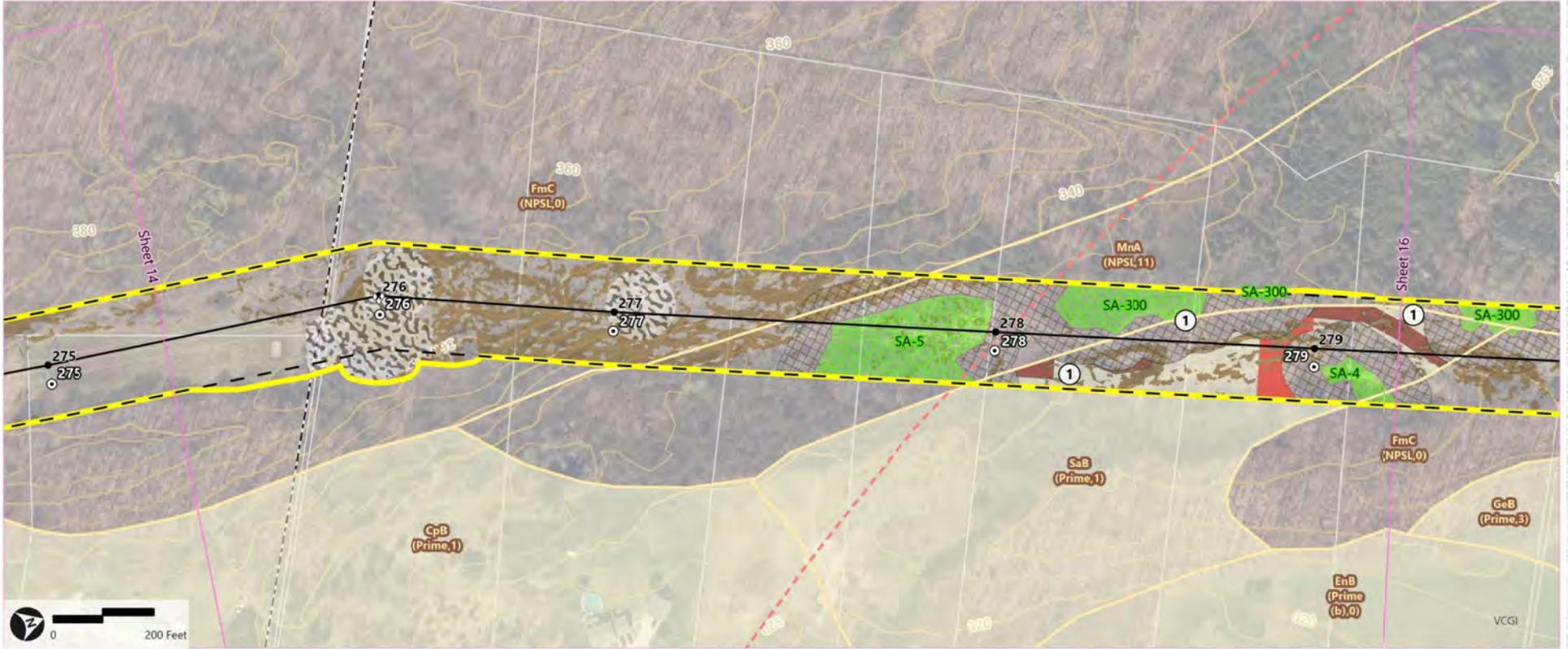
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 15 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

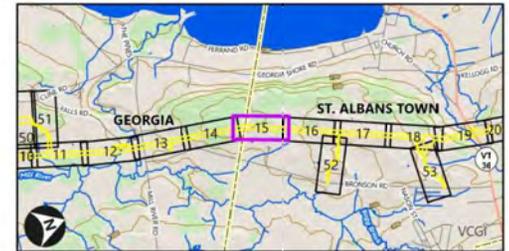


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | VAST Trail (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Town Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Guy Anchors (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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PAS Map Notes:

- ① Prime agricultural soils (PAS) to be stockpiled/windowed in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 16 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

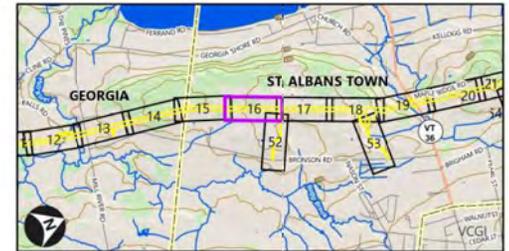


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| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Non Functional PAS (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

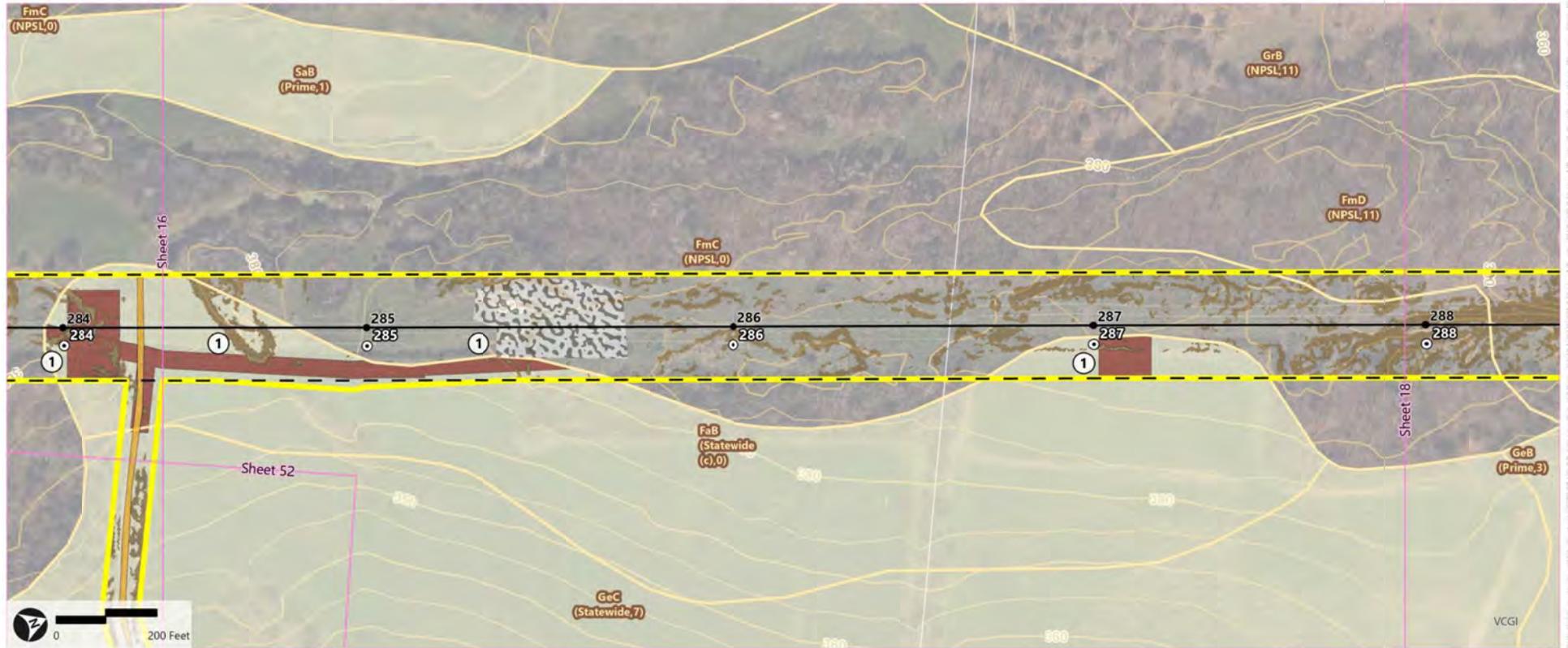
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Prime Agricultural Soils (PAS) Map Series - Sheet 17 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- | | | |
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| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Edge of ROW (VELCO) |
| Non Functional PAS (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Transmission Line (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

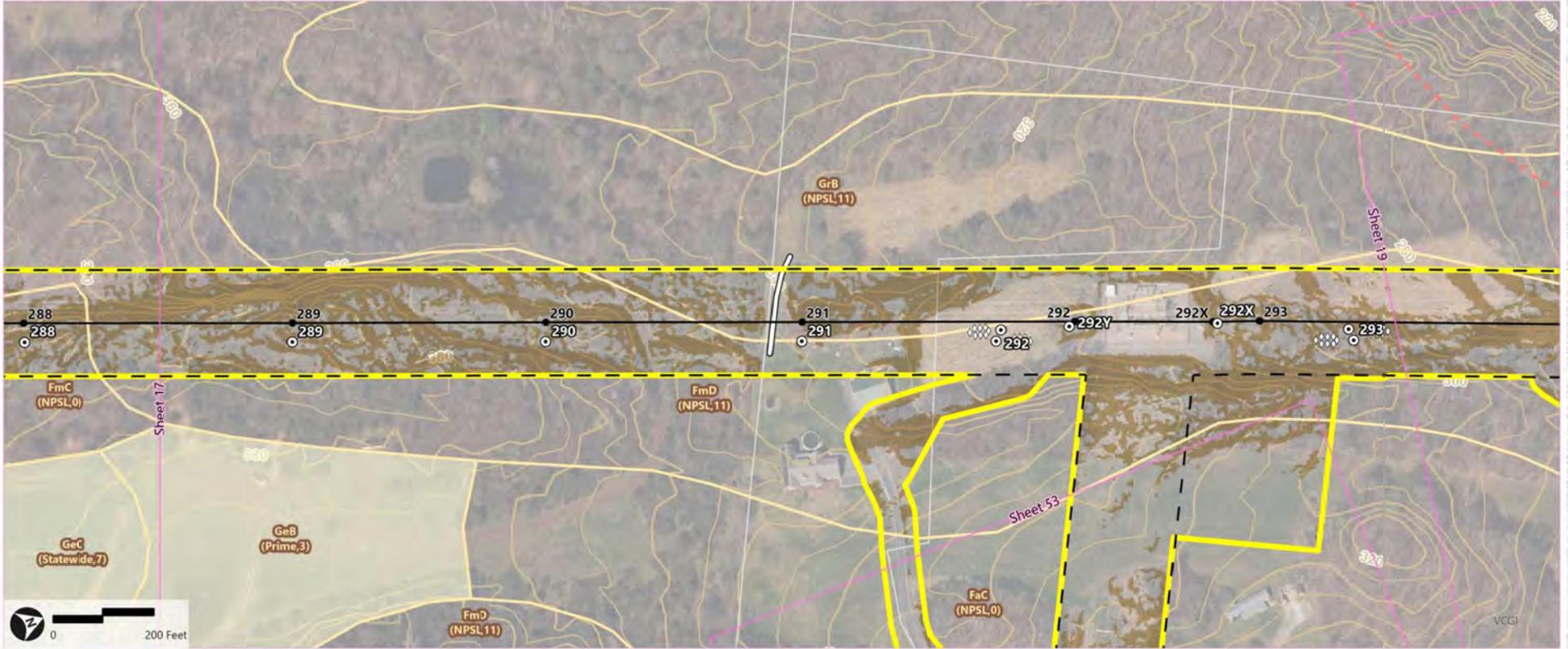
- ① Prime agricultural soils (PAS) to be stockpiled/windowed in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 18 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

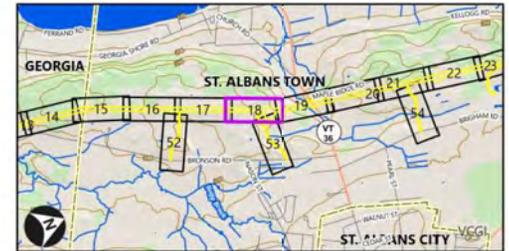


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| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | VAST Trail (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Town Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Transmission Line (VELCO) | Areas with 15% or greater slope (VCGI) |
| Sheet Outline (VHB) | Edge of ROW (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

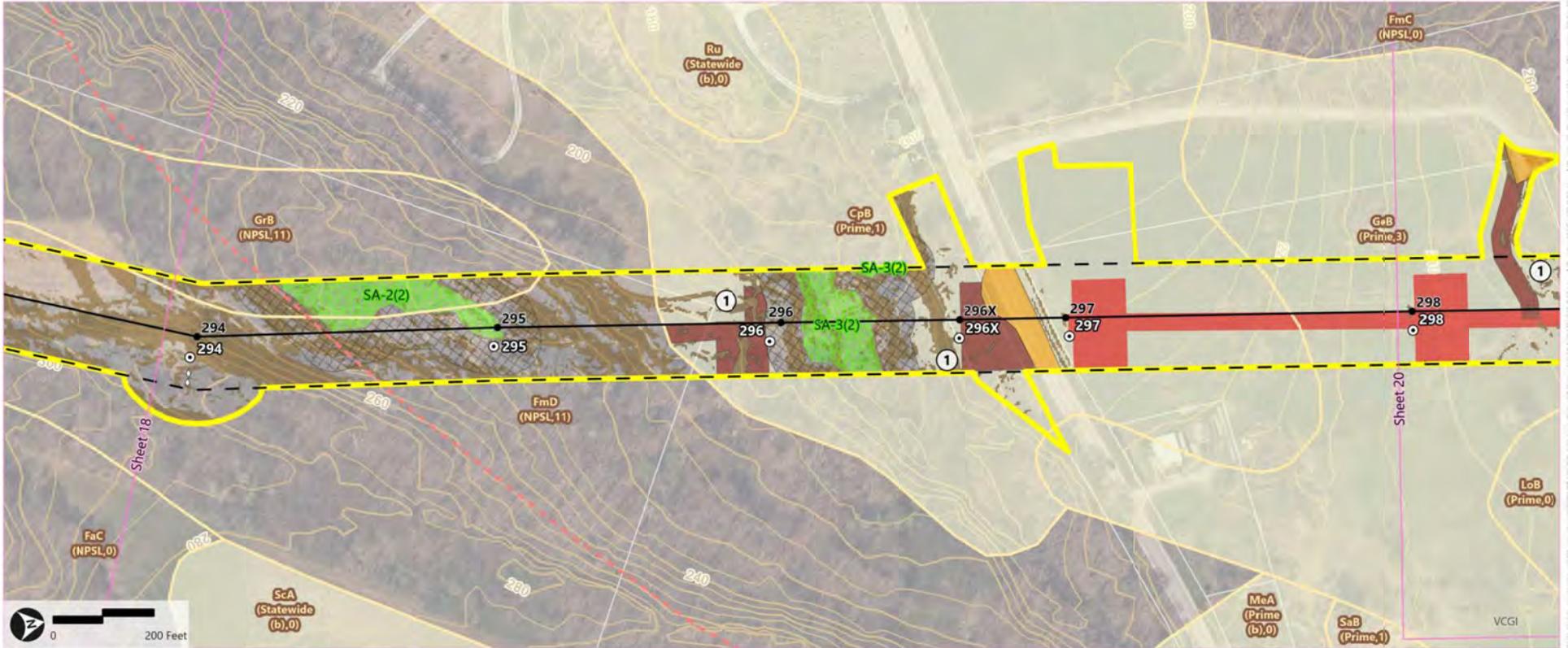
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Prime Agricultural Soils (PAS) Map Series - Sheet 19 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

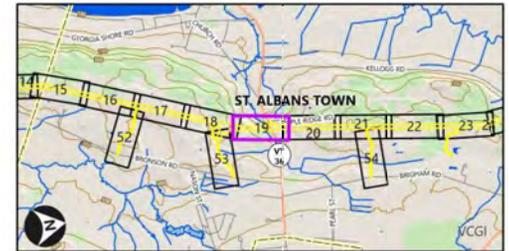


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | VAST Trail (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Parcel Boundary (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

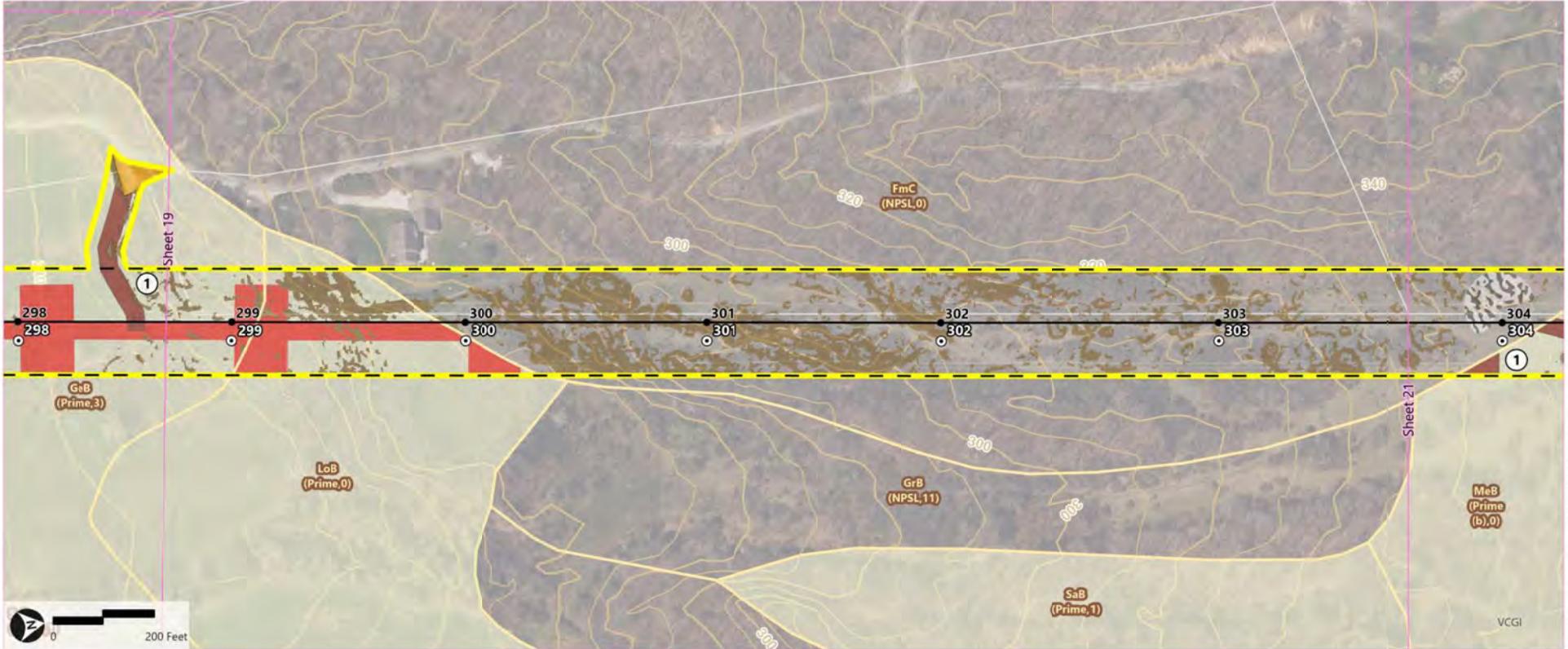
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
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Prime Agricultural Soils (PAS) Map Series - Sheet 20 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

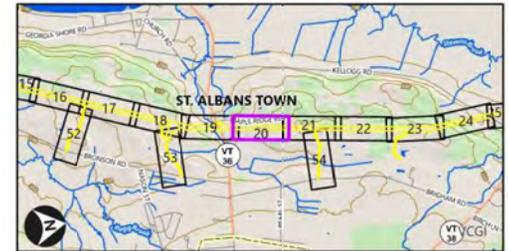


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

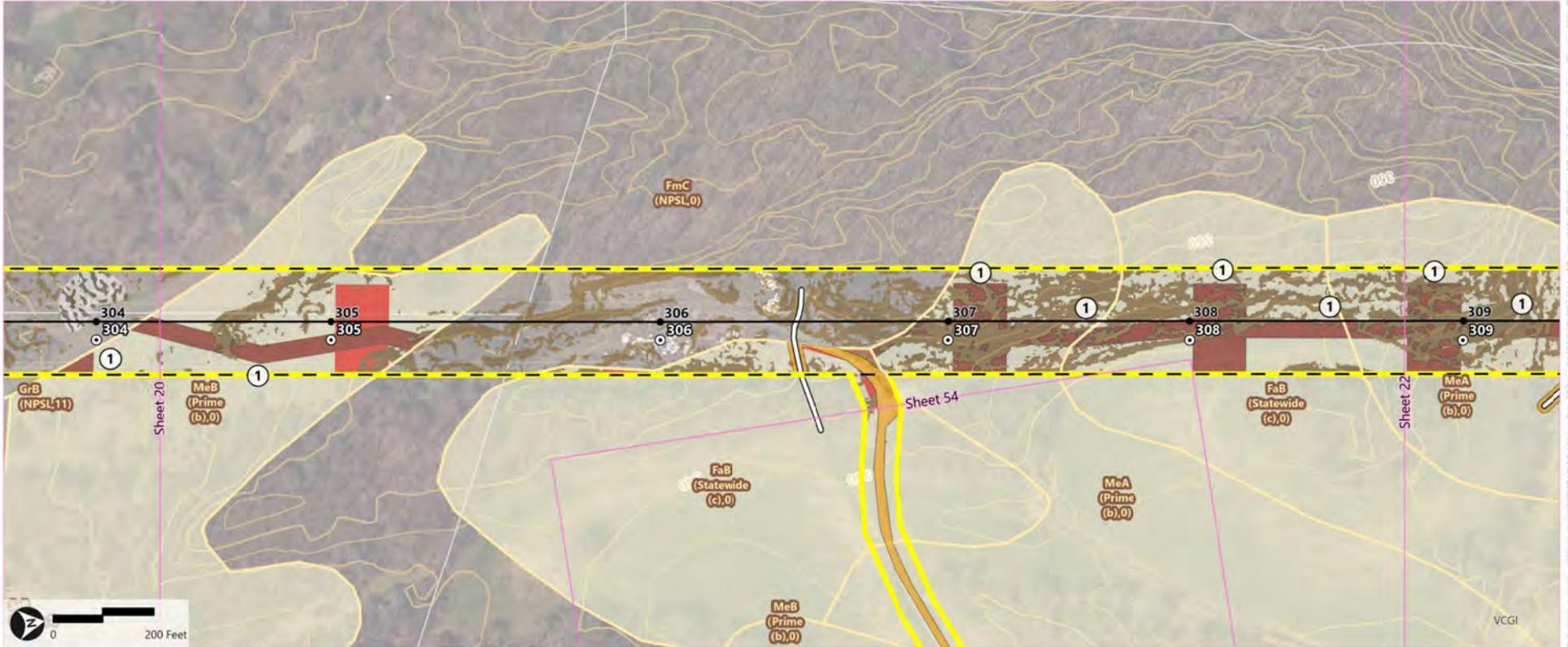
- ① Prime agricultural soils (PAS) to be stockpiled/windowed in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 21 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

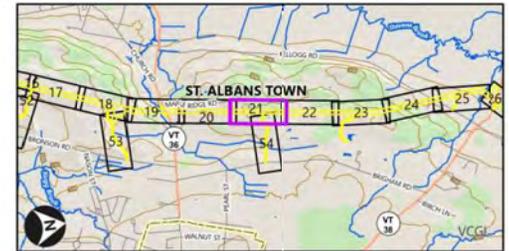


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Previously Identified Underground Infrastructure (VELCO) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Town Boundary (VCGI) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Transmission Line (VELCO) | |

Note:
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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 22 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

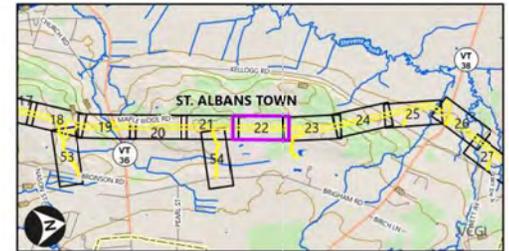


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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PAS Map Notes:

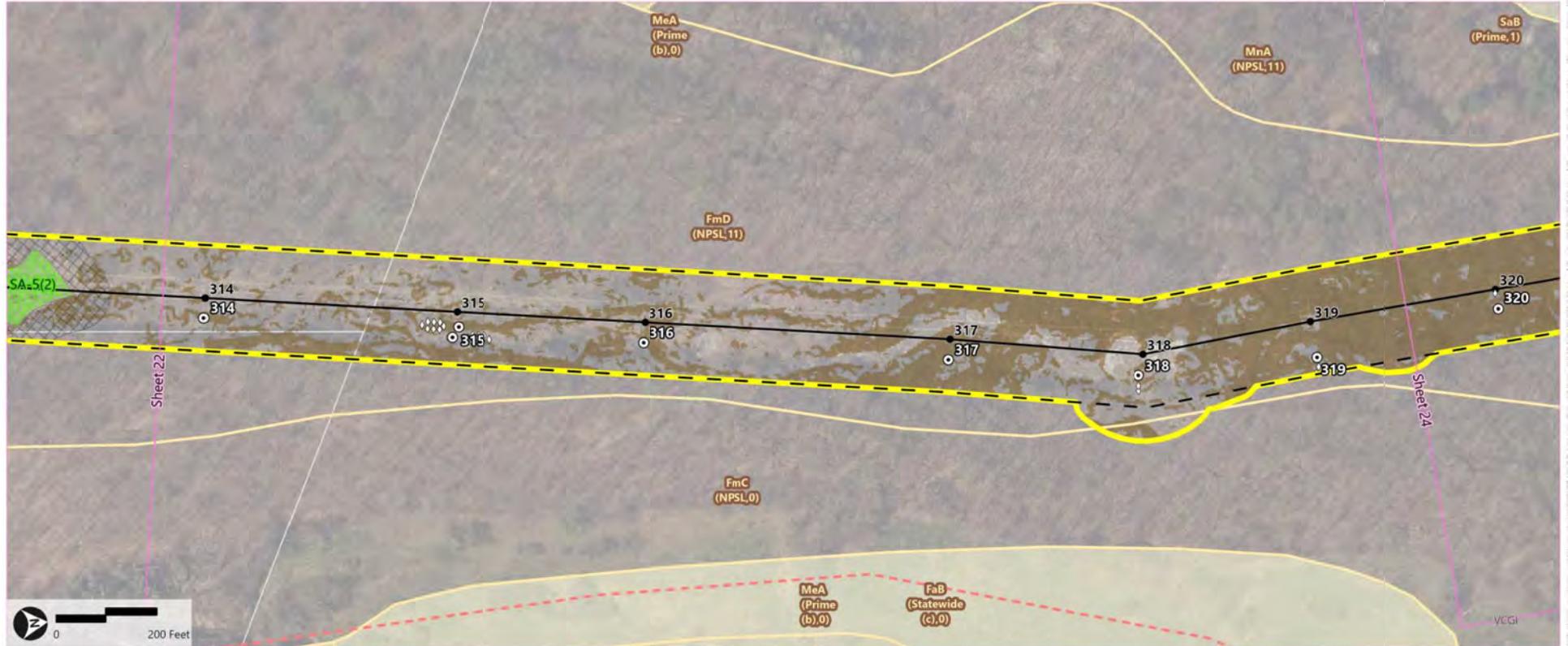
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Prime Agricultural Soils (PAS) Map Series - Sheet 23 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

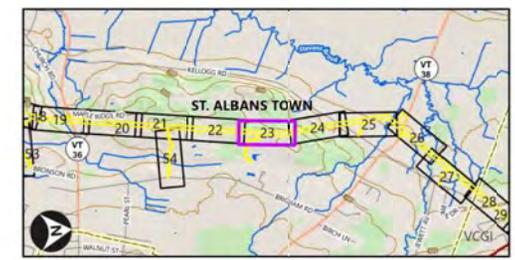


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| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Edge of ROW (VELCO) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | VAST Trail (VCGI) |
| Study Area (VHB) | Proposed Guy Anchors (VELCO) | Town Boundary (VCGI) |
| Class II Wetland (VHB/VELCO) | Existing Structure (VELCO) | Parcel Boundary (VCGI) |
| Class II Wetland Buffer - 50 ft. (VHB) | Existing Transmission Line (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 24 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

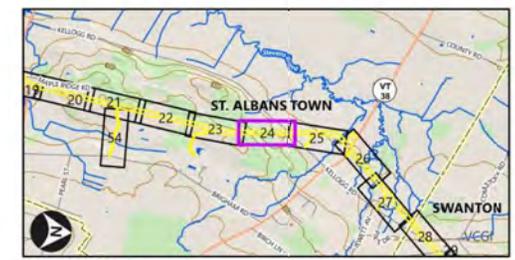


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- Prime Ag. Soil - Physical Disturbance (VHB)
- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Areas of Exposed Rock/Ledge (VELCO/VHB)
- Previously Identified Underground Infrastructure (VELCO)
- Study Area (VHB)
- Class II Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Proposed Structures (VELCO)
- Proposed Guy Anchors (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- Edge of ROW (VELCO)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

Note:
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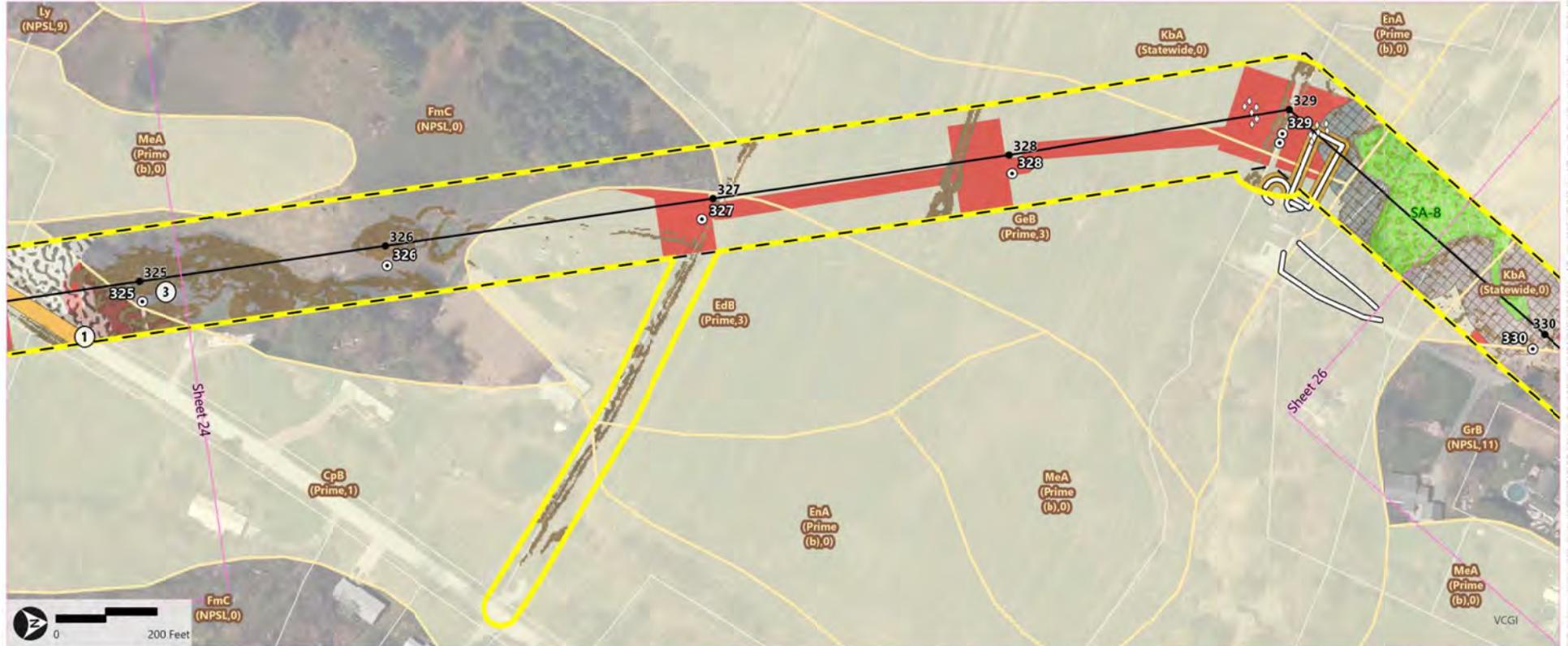
- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 25 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

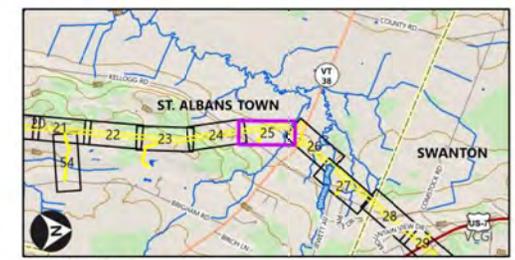


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Guy Anchors (VELCO) | |
| Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) | |

Note:
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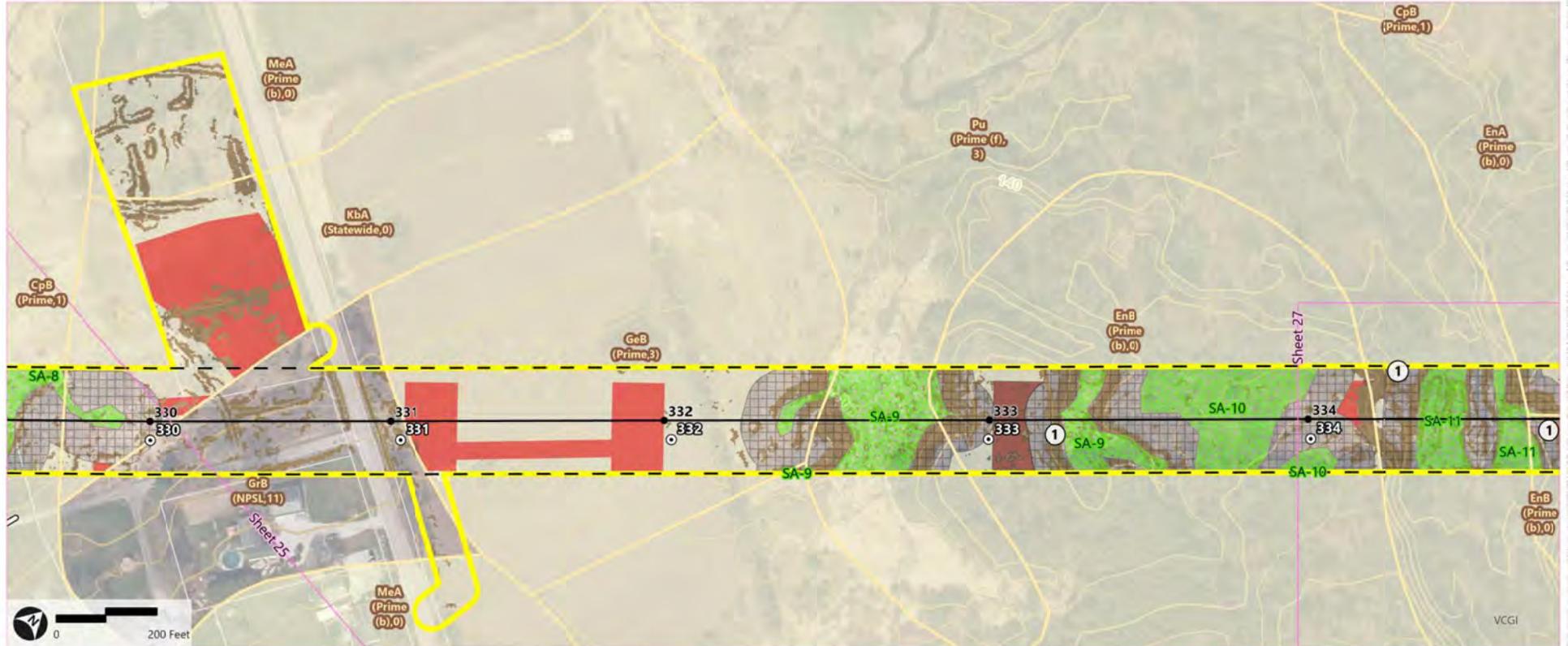
- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 26 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) | |
| Study Area (VHB) | Existing Transmission Line (VELCO) | |

Note:
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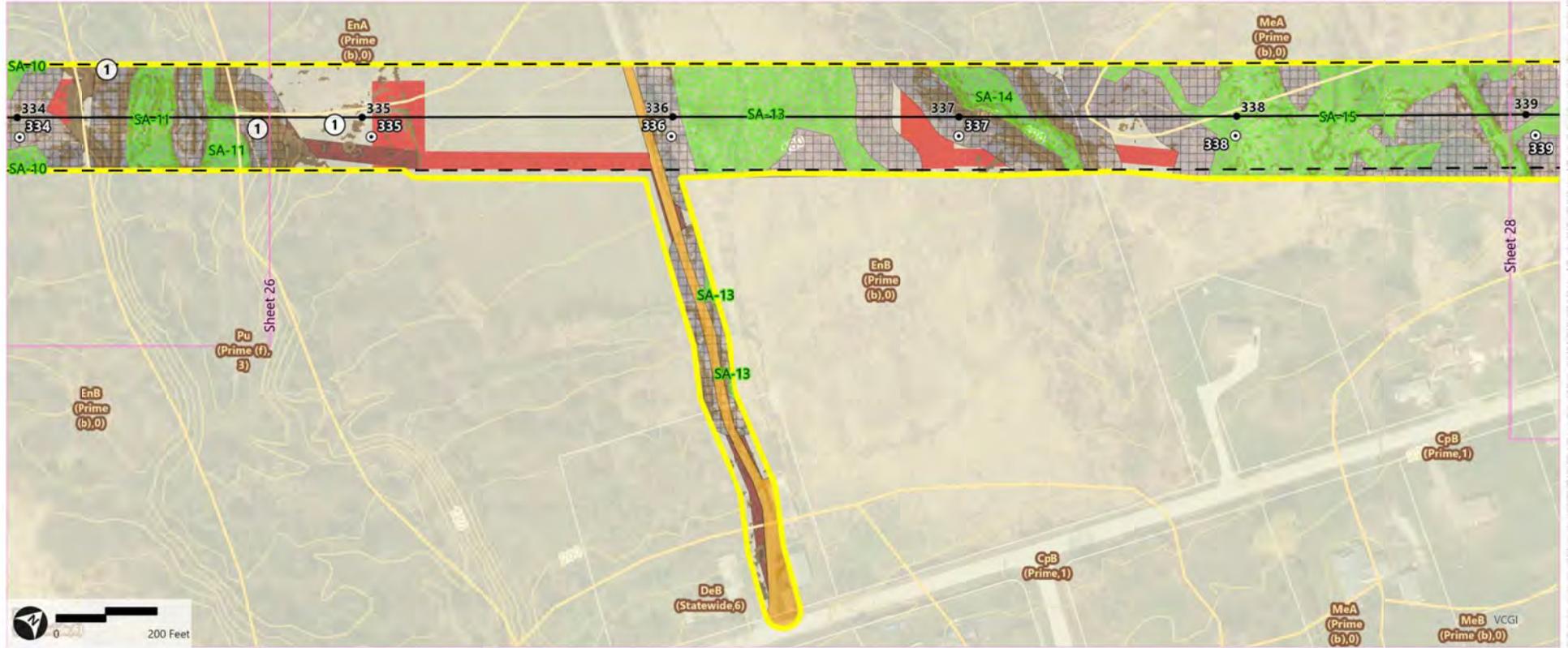
- PAS Map Notes:**
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 - ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 27 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

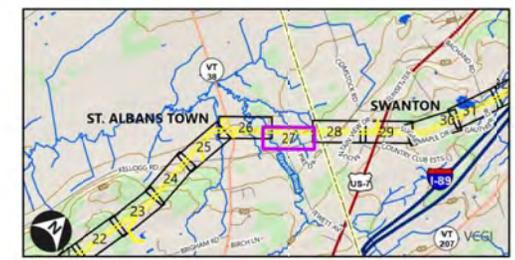


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- Prime Ag. Soil - Physical Disturbance (VHB)
- Prior PAS Impacts (VELCO/VHB)
- NRCs Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Class II Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Proposed Structures (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- - - Edge of ROW (VELCO)
- - - Town Boundary (VCGI)
- - - Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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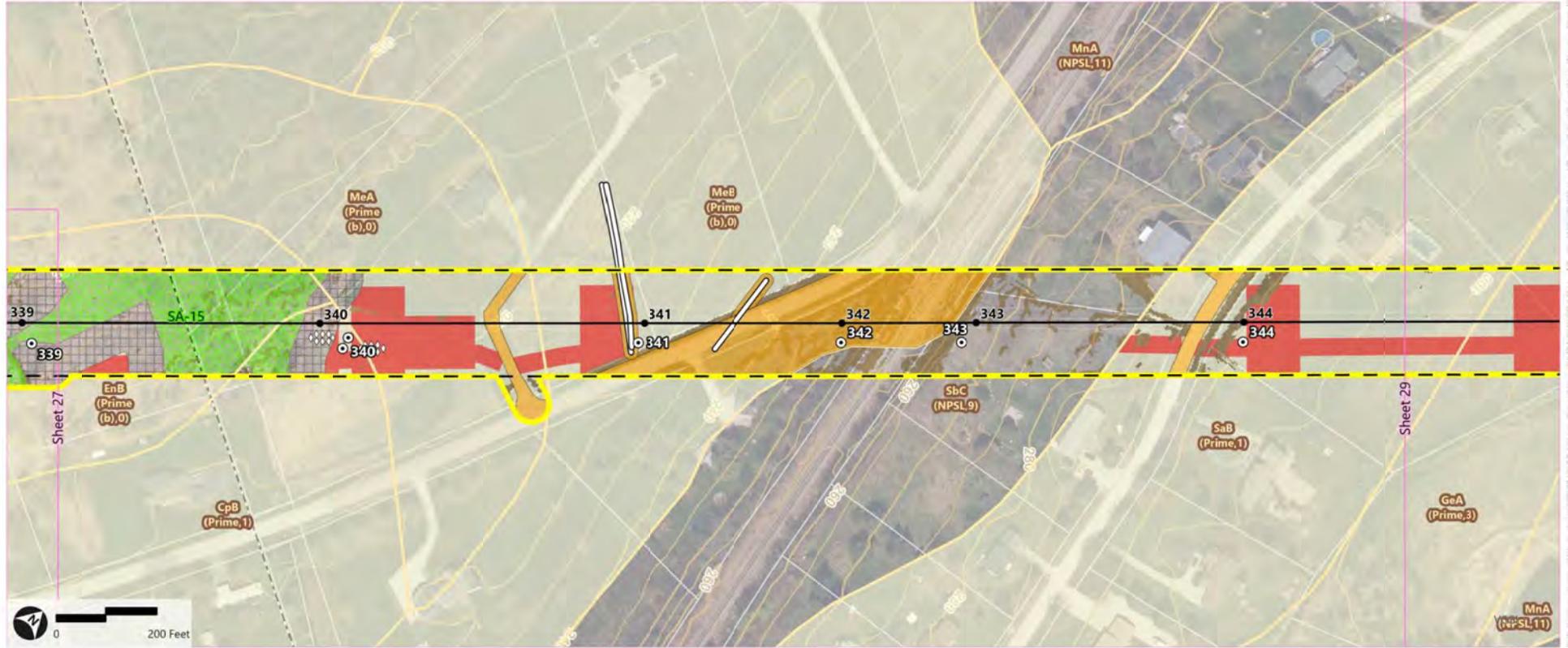
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Prime Agricultural Soils (PAS) Map Series - Sheet 28 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Structure (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Non Functional PAS (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Previously Identified Underground Infrastructure (VELCO) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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PAS Map Notes:

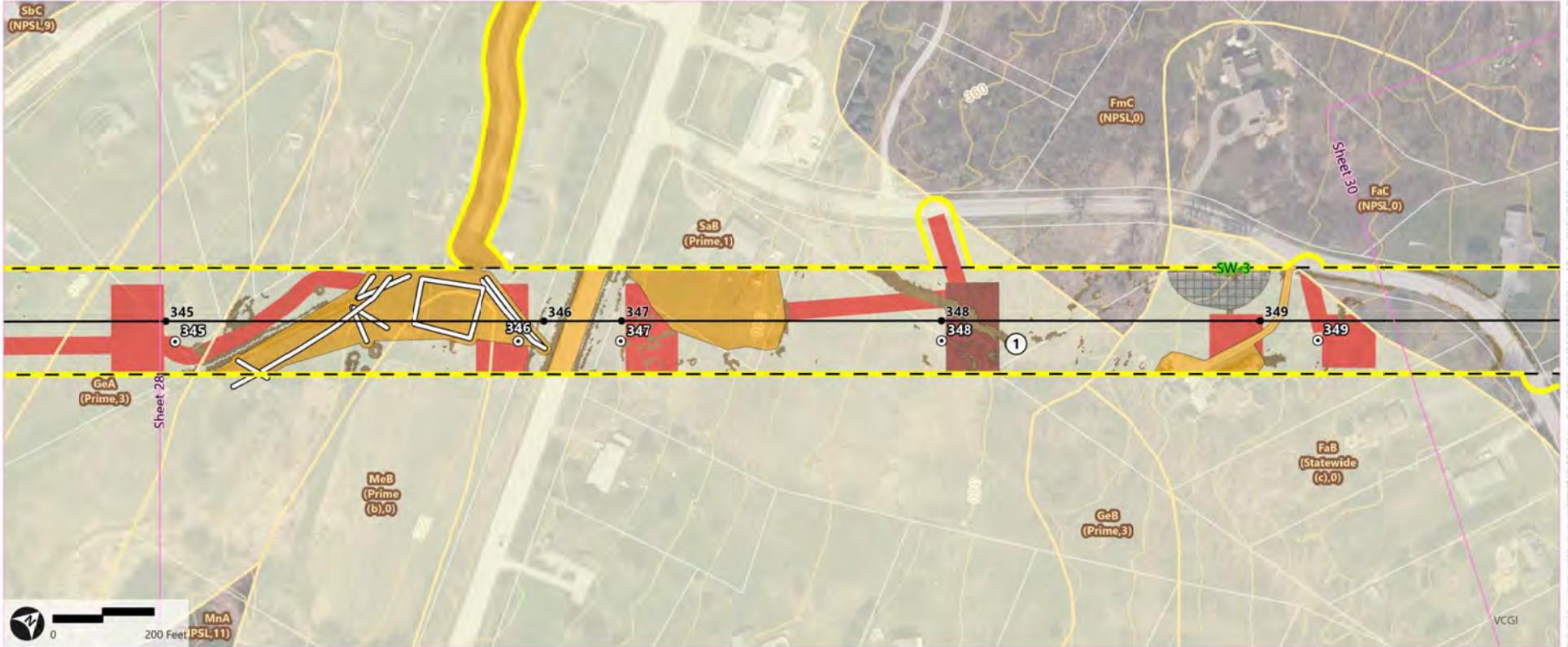
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Prime Agricultural Soils (PAS) Map Series - Sheet 29 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Non Functional PAS (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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PAS Map Notes:

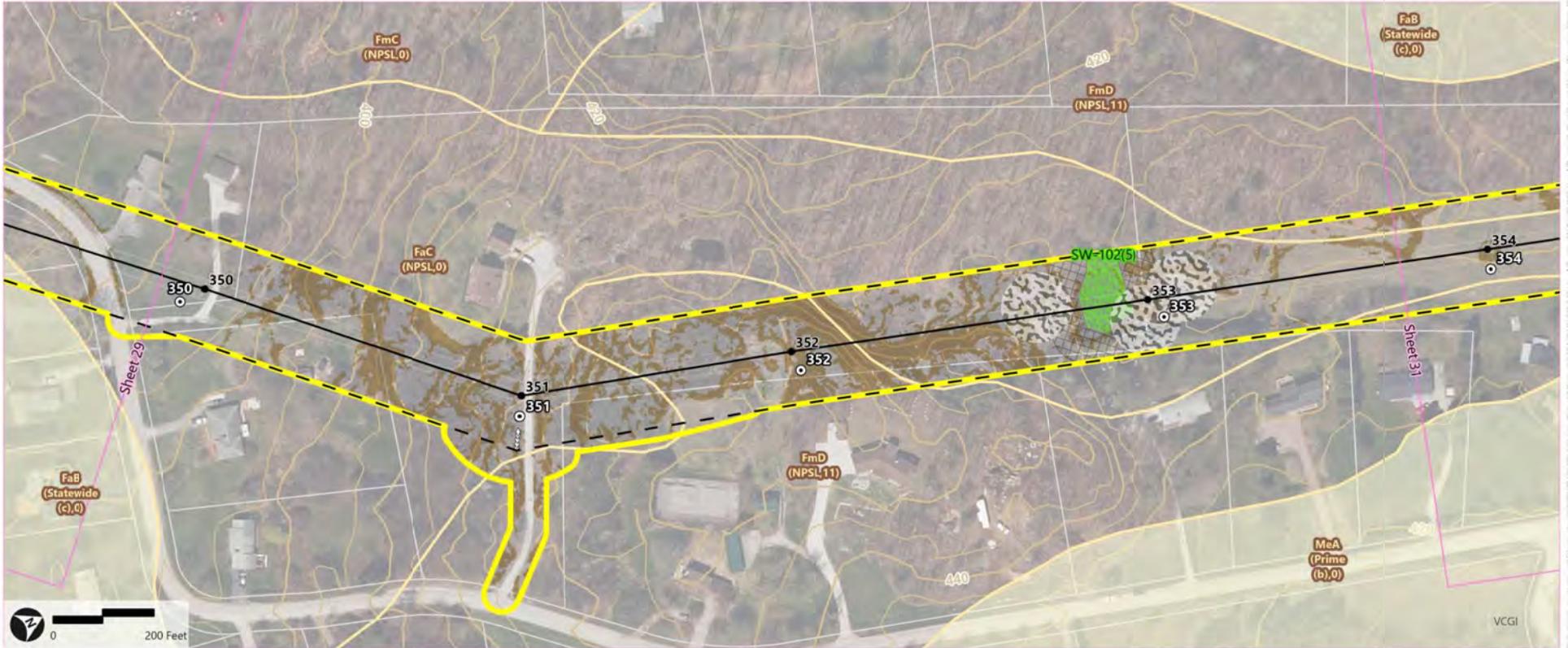
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Prime Agricultural Soils (PAS) Map Series - Sheet 30 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| NRCS Soil Boundary (VCGI) | Class II Wetland Buffer - 50 ft. (VHB) | Existing Transmission Line (VELCO) |
| Prime Agricultural Soils (PAS) (VCGI) | Sheet Outline (VHB) | Edge of ROW (VELCO) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Structures (VELCO) | Town Boundary (VCGI) |
| Study Area (VHB) | Proposed Guy Anchors (VELCO) | Parcel Boundary (VCGI) |
| Class II Wetland (VHB/VELCO) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

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Prime Agricultural Soils (PAS) Map Series - Sheet 31 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

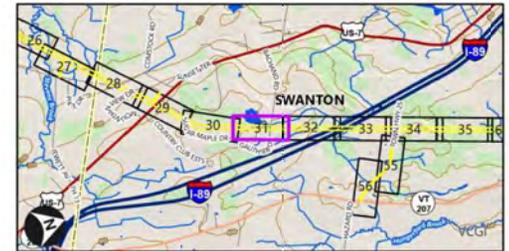


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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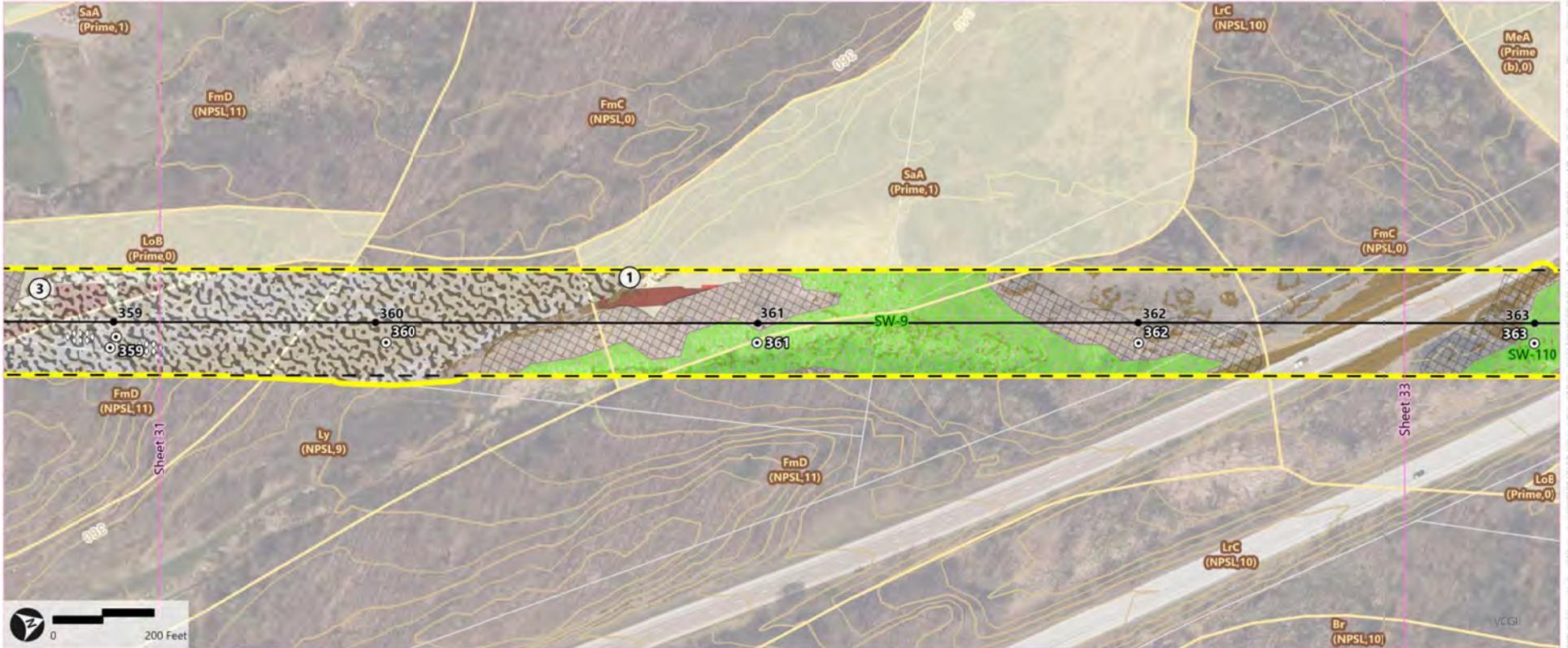
- PAS Map Notes:**
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Prime Agricultural Soils (PAS) Map Series - Sheet 32 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

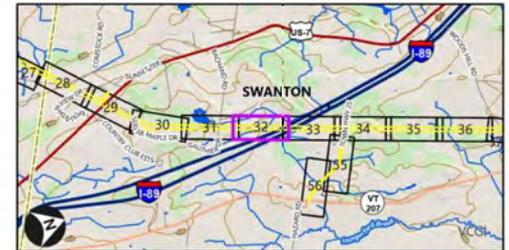


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |

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PAS Map Notes:

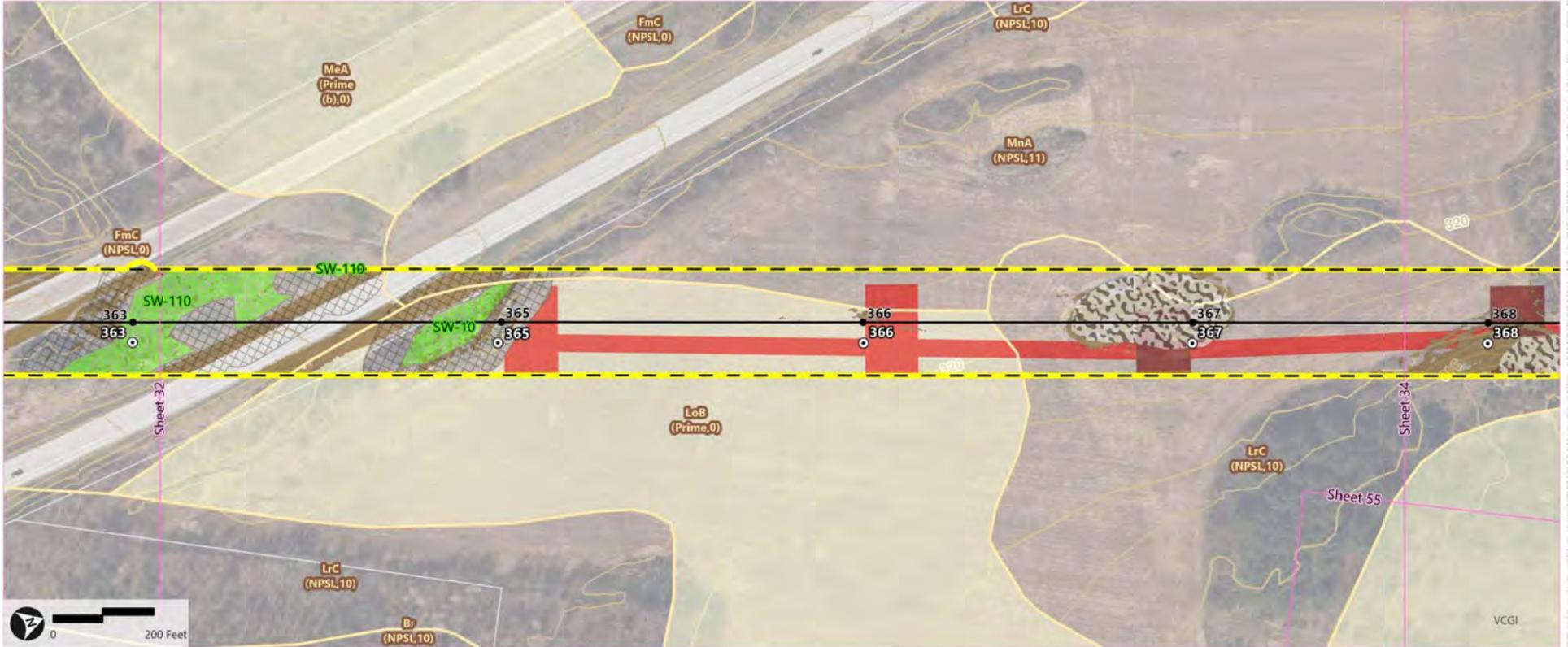
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Prime Agricultural Soils (PAS) Map Series - Sheet 33 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

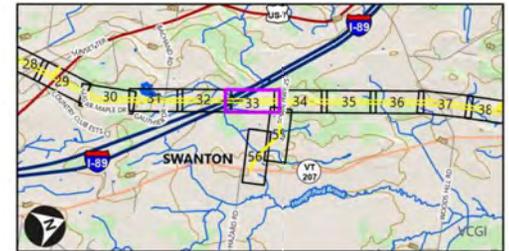


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Structure (VELCO) | |
| Study Area (VHB) | Existing Transmission Line (VELCO) | |

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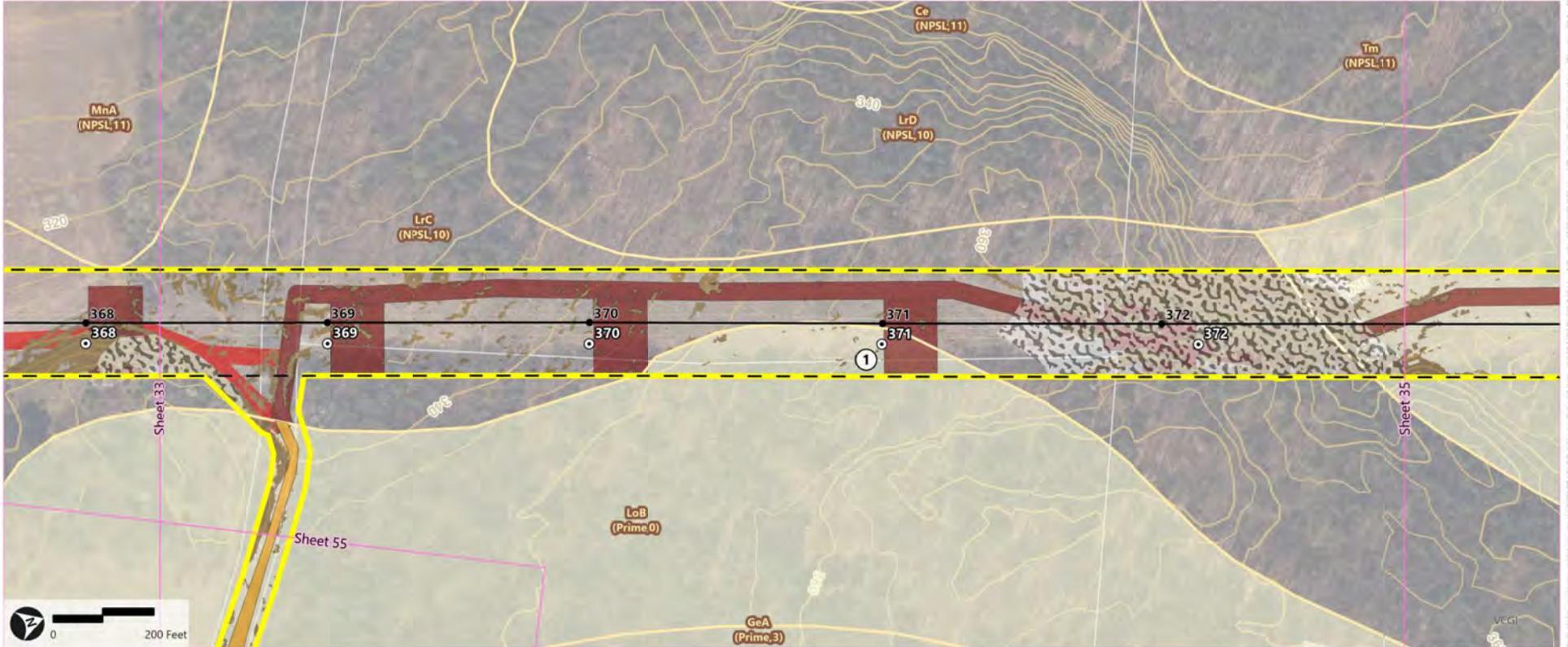
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Prime Agricultural Soils (PAS) Map Series - Sheet 34 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| ■ Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Areas of Exposed Rock/Ledge (VELCO/VHB) | Existing Transmission Line (VELCO) |
| ■ Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | Areas with 15% or greater slope (VCGI) |

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Prime Agricultural Soils (PAS) Map Series - Sheet 35 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

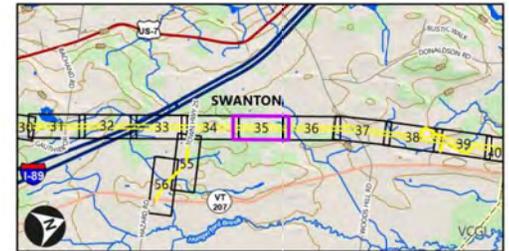


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| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| NRCS Soil Boundary (VCGI) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prime Agricultural Soils (PAS) (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
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PAS Map Notes:

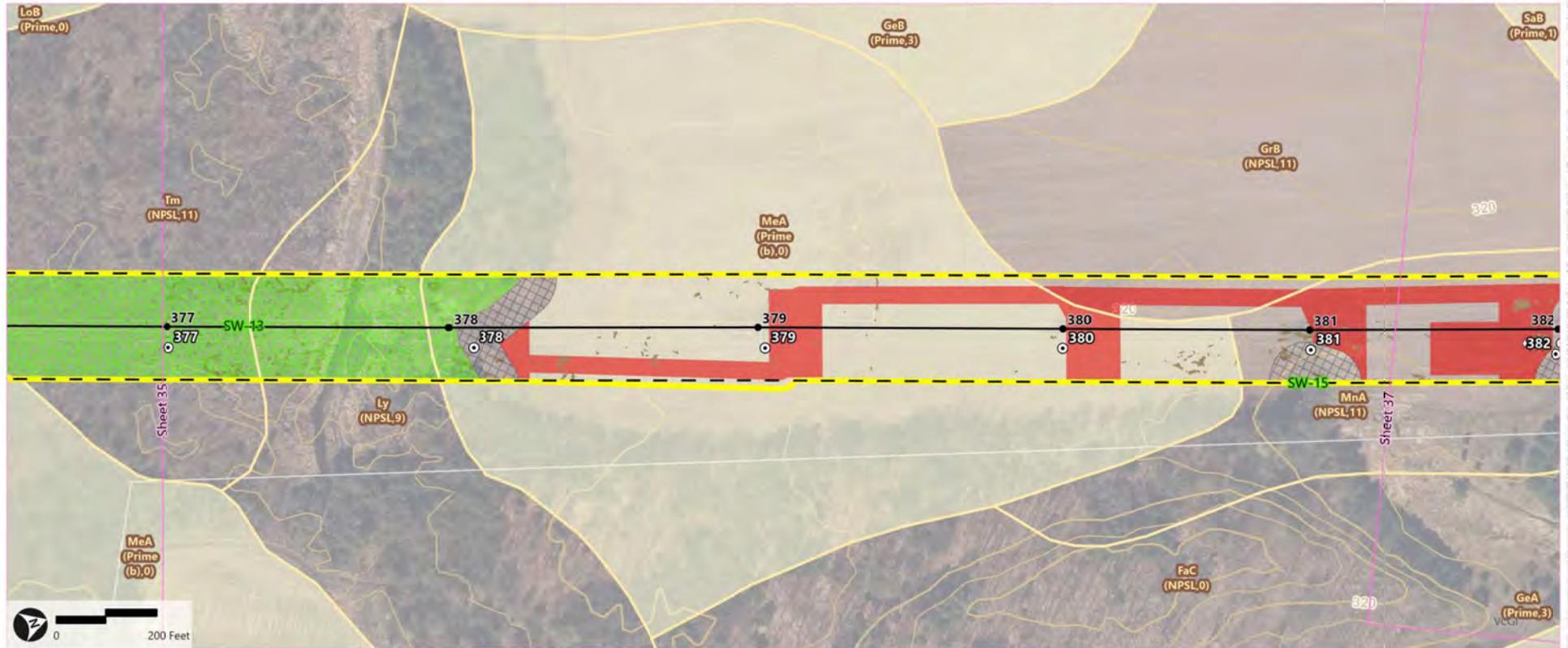
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Prime Agricultural Soils (PAS) Map Series - Sheet 36 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Existing Transmission Line (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Edge of ROW (VELCO) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Town Boundary (VCGI) |
| Study Area (VHB) | Proposed Guy Anchors (VELCO) | Parcel Boundary (VCGI) |
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PAS Map Notes:

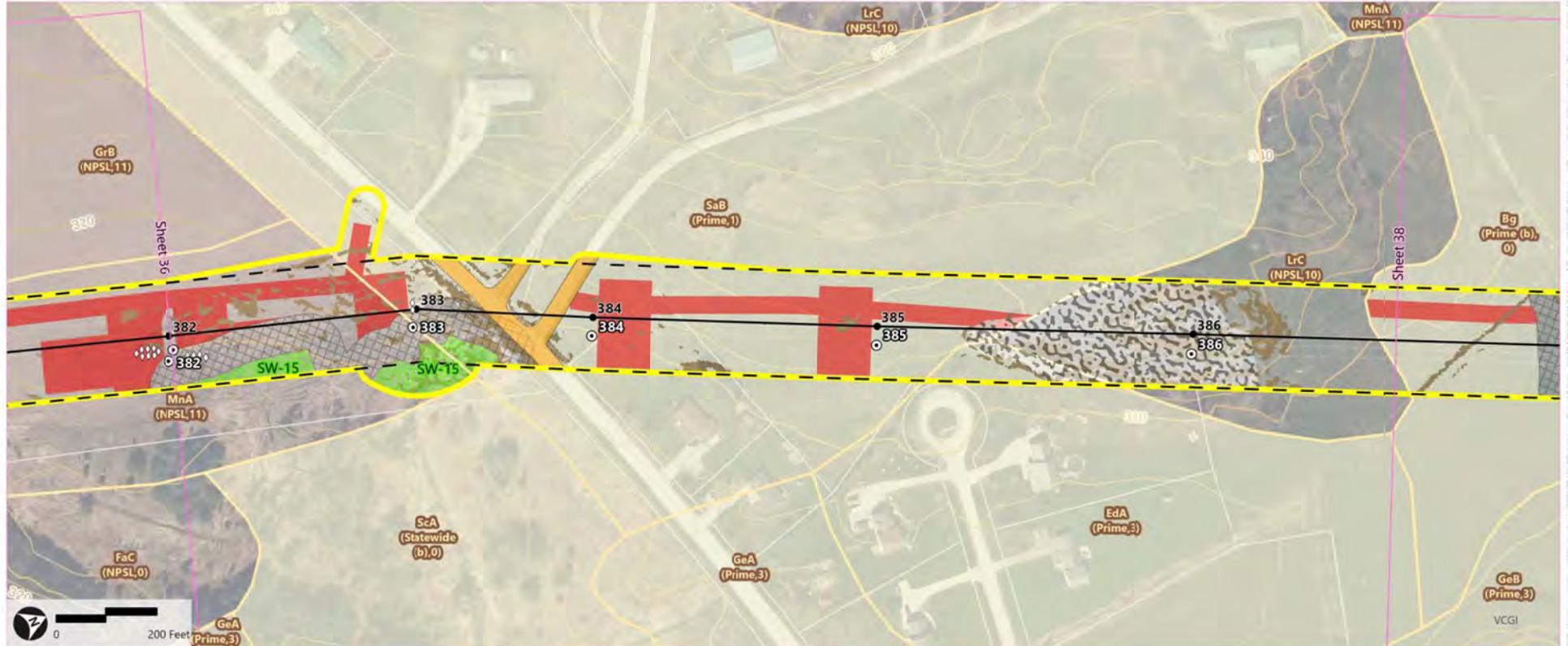
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 37 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

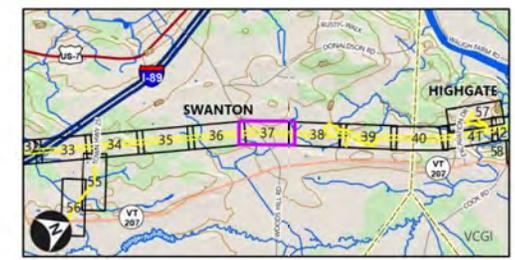


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vernis/Hoggen Brustlin - 2022-2023)



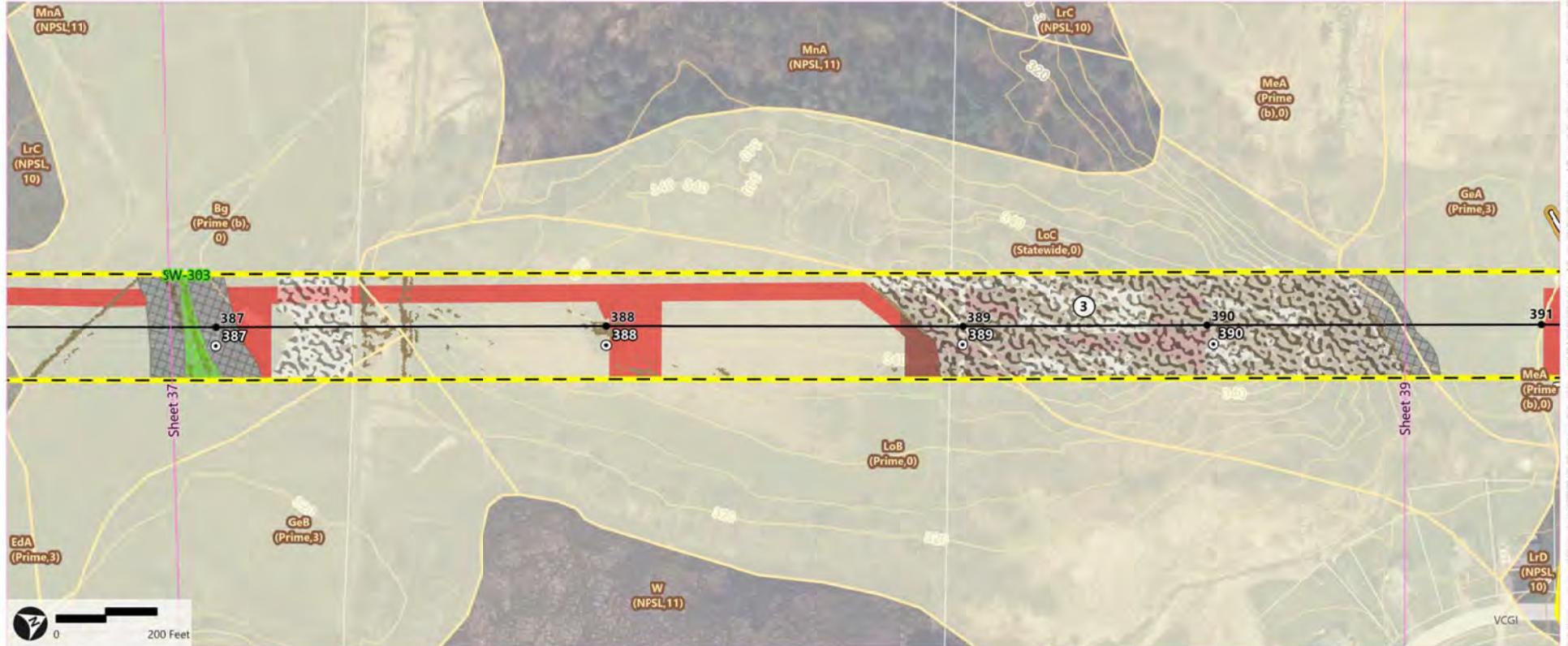
- PAS Map Notes:**
- 1 Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
 - 2 In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 38 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

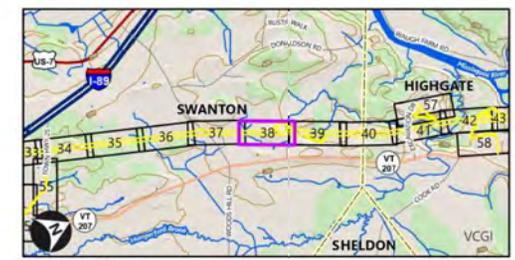


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
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- PAS Map Notes:**
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Prime Agricultural Soils (PAS) Map Series - Sheet 39 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

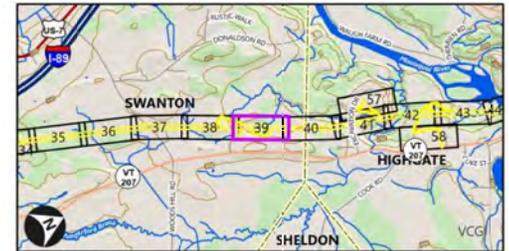


- | | | |
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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Previously Identified Underground Infrastructure (VELCO) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Study Area (VHB) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| NRCS Soil Boundary (VCGI) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| Areas of Exposed Rock/Ledge (VELCO/VHB) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

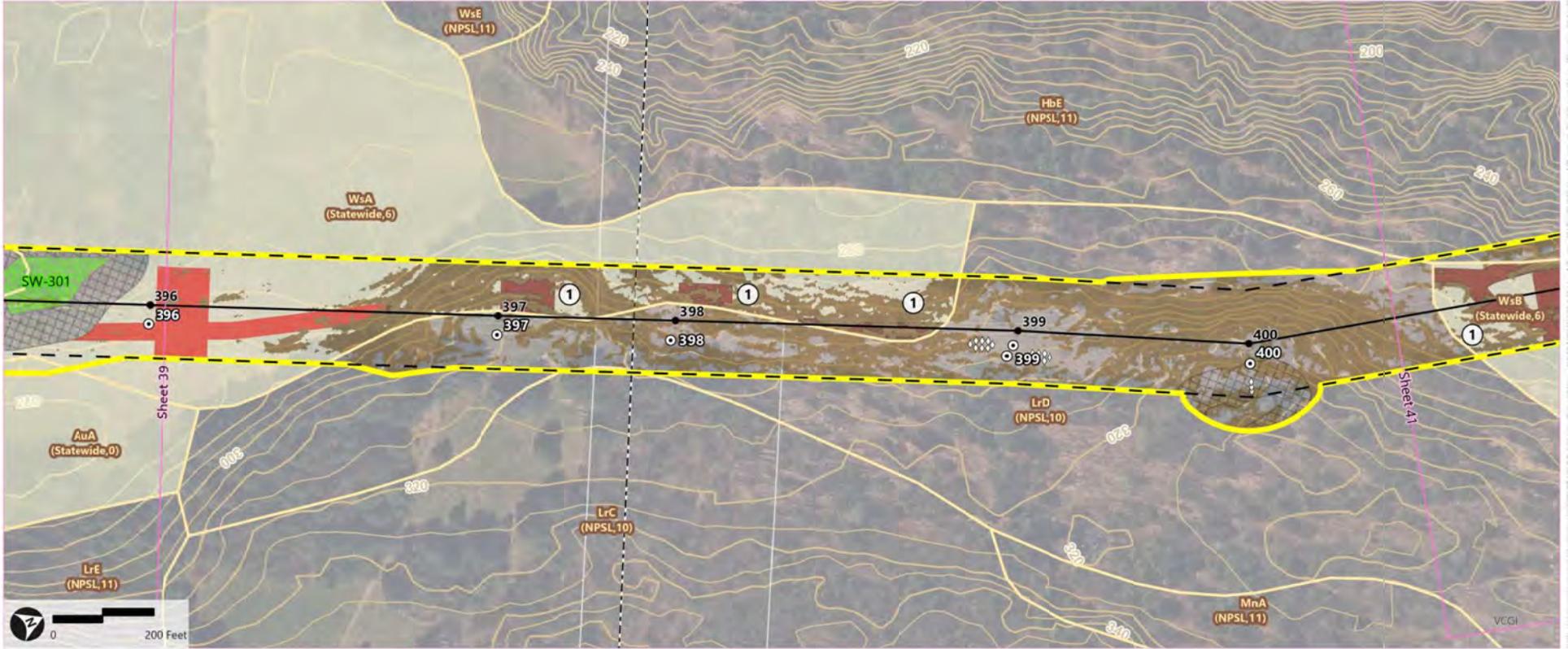
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Prime Agricultural Soils (PAS) Map Series - Sheet 40 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

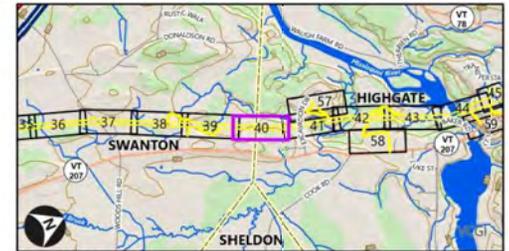


- | | | |
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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |
| Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) | |

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Prime Agricultural Soils (PAS) Map Series - Sheet 41 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

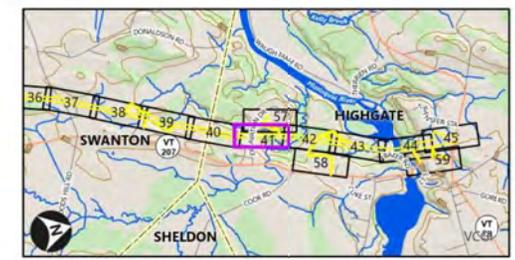


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- Prime Ag. Soil - Physical Disturbance (VHB)
- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Previously Identified Underground Infrastructure (VELCO)
- Study Area (VHB)
- Class II Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Proposed Structures (VELCO)
- Existing Structure (VELCO)
- Existing Transmission Line (VELCO)
- Edge of ROW (VELCO)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

Note:
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Prime Agricultural Soils (PAS) Map Series - Sheet 42 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |
| Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) | |

Note:
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Prime Agricultural Soils (PAS) Map Series - Sheet 43 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Edge of ROW (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Town Boundary (VCGI) |
| Non Functional PAS (VELCO/VHB) | Sheet Outline (VHB) | Parcel Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Areas with 15% or greater slope (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Existing Structure (VELCO) | |
| Study Area (VHB) | Existing Transmission Line (VELCO) | |

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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 44 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

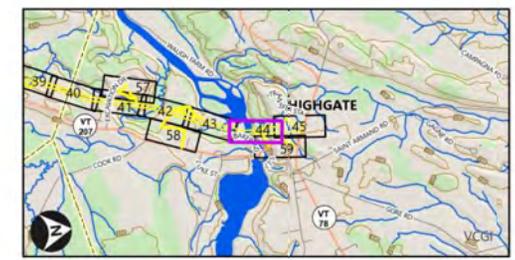


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| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Study Area (VHB) | Existing Structure (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Non Functional PAS (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |

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- PAS Map Notes:**
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Prime Agricultural Soils (PAS) Map Series - Sheet 45 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

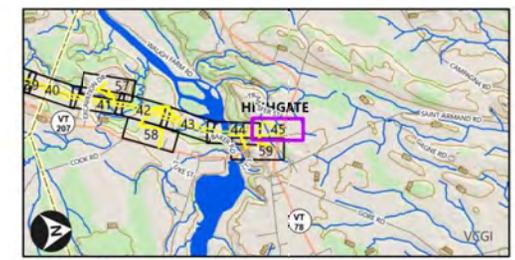


- | | | |
|---|---|---|
| Prime Ag. Soil - Construction Phase Physical Disturbance (VHB) | Class II Wetland (VHB/VELCO) | Existing Transmission Line (VELCO) |
| Prime Ag. Soil - Physical Disturbance (VHB) | Class II Wetland Buffer - 50 ft. (VHB) | Edge of ROW (VELCO) |
| Prior PAS Impacts (VELCO/VHB) | Sheet Outline (VHB) | Town Boundary (VCGI) |
| NRCS Soil Boundary (VCGI) | Proposed Structures (VELCO) | Parcel Boundary (VCGI) |
| Prime Agricultural Soils (PAS) (VCGI) | Proposed Guy Anchors (VELCO) | Areas with 15% or greater slope (VCGI) |
| Study Area (VHB) | Existing Structure (VELCO) | |

Note:
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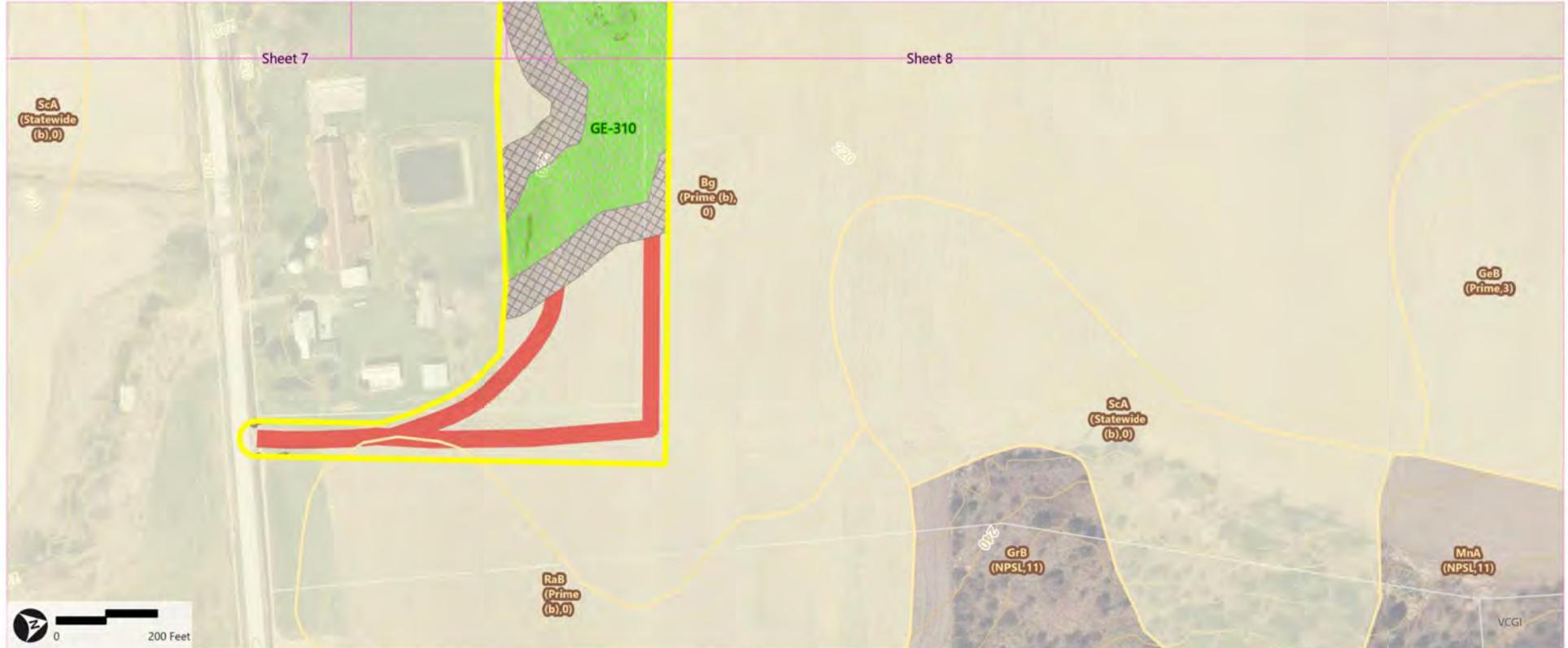
- PAS Map Notes:**
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Prime Agricultural Soils (PAS) Map Series - Sheet 46 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

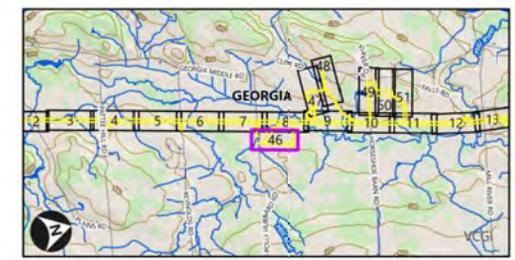


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Class II Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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- PAS Map Notes:**
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
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Prime Agricultural Soils (PAS) Map Series - Sheet 47 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

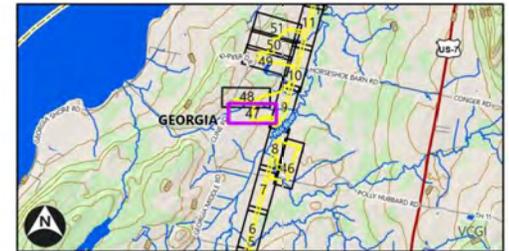


- Prime Ag. Soil - Construction Phase Physical Disturbance (VHB)
- Prime Ag. Soil - Physical Disturbance (VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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PAS Map Notes:

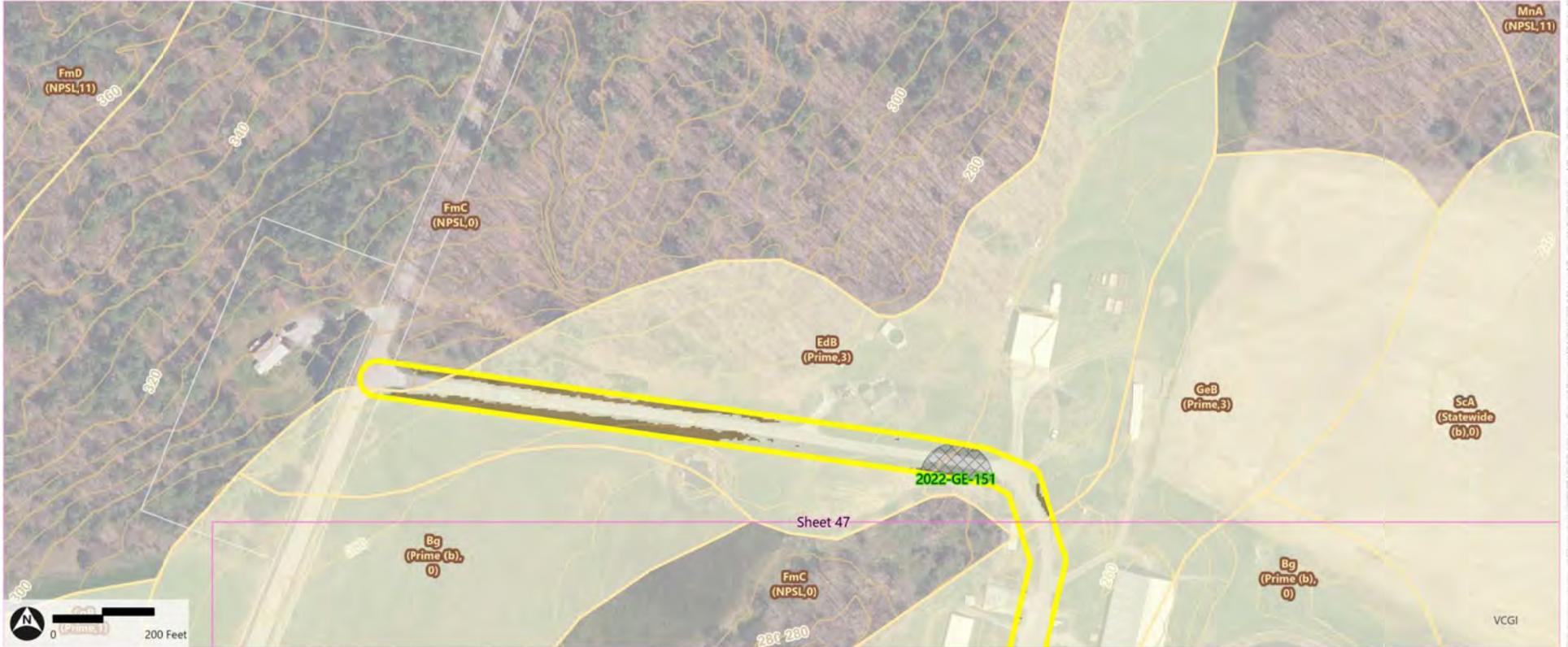
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Prime Agricultural Soils (PAS) Map Series - Sheet 48 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

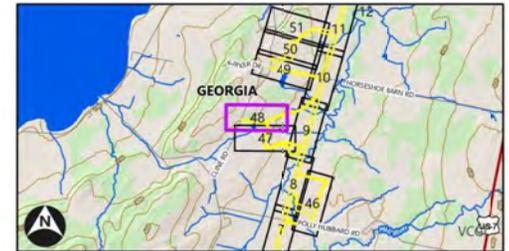


- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Class II Wetland (VHB/VELCO)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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Sources: Background imagery by VCGI (Collected in 2022); ANR (Vermont Agency of Natural Resources - Various Dates); VCGI (Vermont Center for Geographic Information - Various Dates); VTTrans (Vermont Agency of Transportation - Hosted Feature Service); NRPC (Northwest Regional Planning Commission - ~2005); VELCO (Vermont Electric Power Company - Various Dates); VHB (Vannese Hanger Brustlin - 2022-2023)



PAS Map Notes:

- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
- ② In certain previously developed locations where construction will take place (e.g. residential lawns), temporary stone will be placed on construction fabric as a temporary construction access method. No impacts to PAS are proposed in these locations.

Prime Agricultural Soils (PAS) Map Series - Sheet 49 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

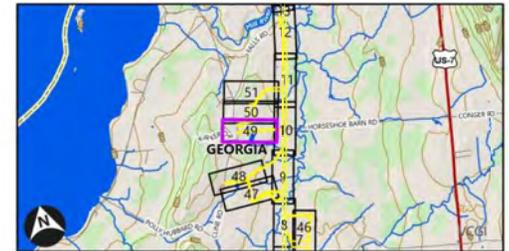


- Prime Ag. Soil - Permanent Disturbance (VHB)
- Class II Wetland Buffer - 50 ft. (VHB)
- NRCs Soil Boundary (VCGI)
- Sheet Outline (VHB)
- Prime Agricultural Soils (PAS) (VCGI)
- Town Boundary (VCGI)
- Study Area (VHB)
- Parcel Boundary (VCGI)
- Class II Wetland (VHB/VELCO)
- Areas with 15% or greater slope (VCGI)

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 50 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Prime Ag. Soil - Permanent Disturbance (VHB)
- Class II Wetland Buffer - 50 ft. (VHB)
- NRCS Soil Boundary (VCGI)
- Sheet Outline (VHB)
- Prime Agricultural Soils (PAS) (VCGI)
- Town Boundary (VCGI)
- Study Area (VHB)
- Parcel Boundary (VCGI)
- Class II Wetland (VHB/VELCO)
- Areas with 15% or greater slope (VCGI)

Note:
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PAS Map Notes:

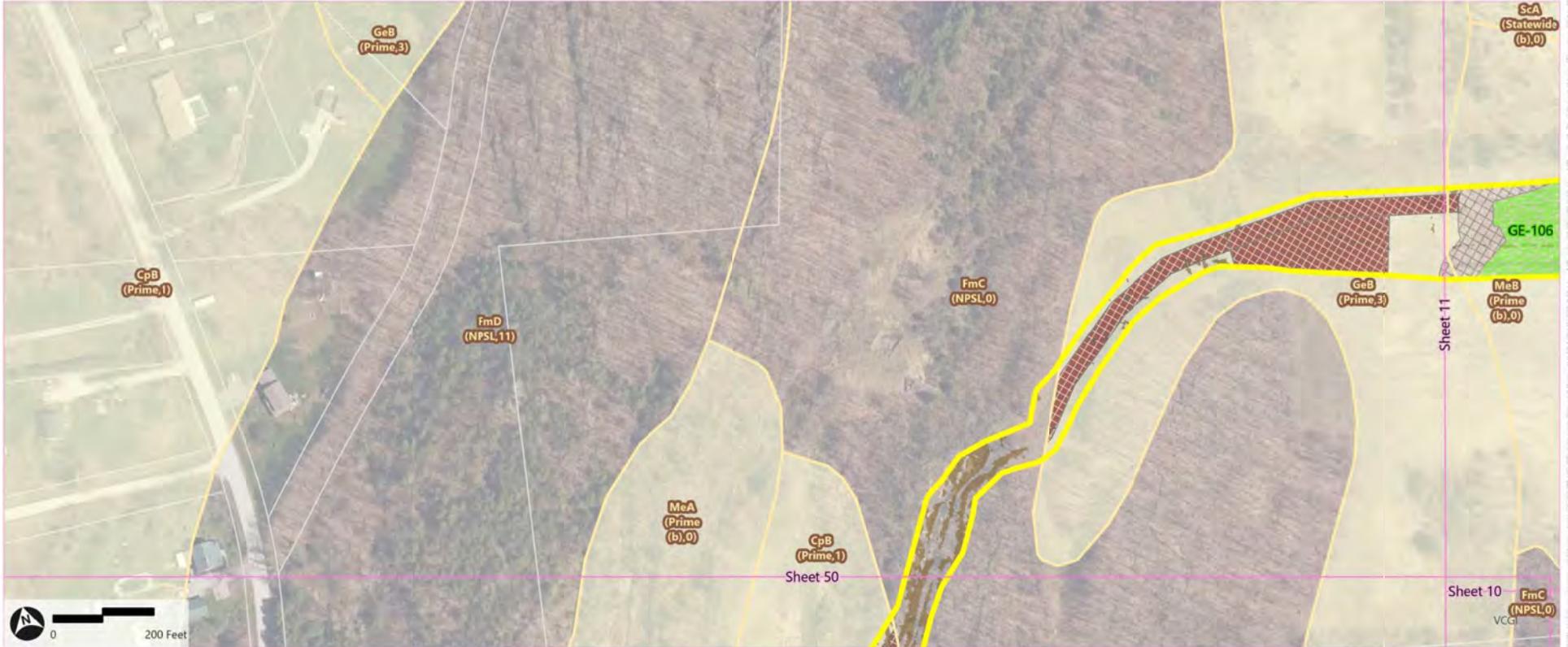
- ① Prime agricultural soils (PAS) to be stockpiled/windrow in this location, if needed.
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Prime Agricultural Soils (PAS) Map Series - Sheet 51 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

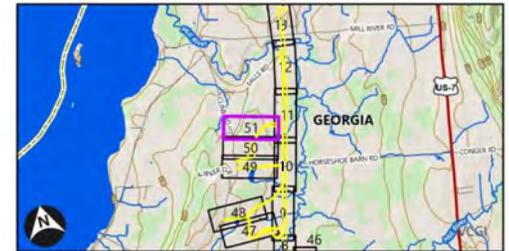


- Prime Ag. Soil - Permanent Disturbance (VHB)
- Class II Wetland Buffer - 50 ft. (VHB)
- NRCS Soil Boundary (VCGI)
- Sheet Outline (VHB)
- Prime Agricultural Soils (PAS) (VCGI)
- Town Boundary (VCGI)
- Study Area (VHB)
- Parcel Boundary (VCGI)
- Class II Wetland (VHB/VELCO)
- Areas with 15% or greater slope (VCGI)

Note:
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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 52 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Non Functional PAS (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

Note:
 This map shows areas of proposed access and work areas based on current design and for the purpose of enumerating physical disturbance within PAS. Minor modifications may occur based on field adjustments, work processes, and/or design amendments and will be limited to lands within the Study Area. Limited vehicular traffic, staging of materials and equipment, matting, and other project activities not likely to impact PAS will occur outside of the disturbance areas.

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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 53 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

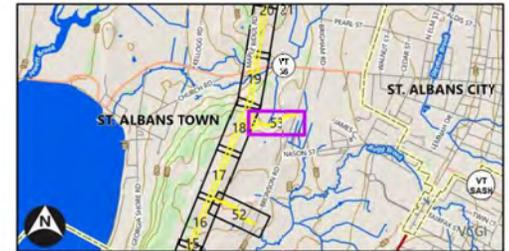


- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Edge of ROW (VELCO)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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PAS Map Notes:

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Prime Agricultural Soils (PAS) Map Series - Sheet 54 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

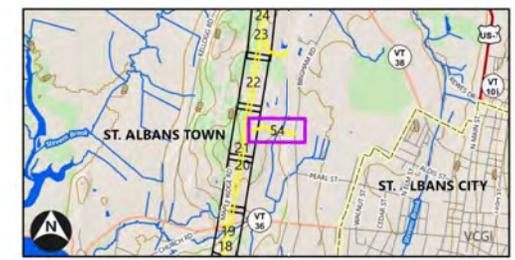


- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Previously Identified Underground Infrastructure (VELCO)
- Study Area (VHB)
- Sheet Outline (VHB)
- Edge of ROW (VELCO)
- VAST Trail (VCGI)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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Prime Agricultural Soils (PAS) Map Series - Sheet 55 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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Prime Agricultural Soils (PAS) Map Series - Sheet 56 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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Prime Agricultural Soils (PAS) Map Series - Sheet 57 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Prime Ag. Soil - Physical Disturbance (VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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Prime Agricultural Soils (PAS) Map Series - Sheet 58 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023



- Prime Ag. Soil - Physical Disturbance (VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Sheet Outline (VHB)
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Prime Agricultural Soils (PAS) Map Series - Sheet 59 of 59

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line | Towns of Georgia, St. Albans, Swanton and Highgate, Vermont



October 17, 2023

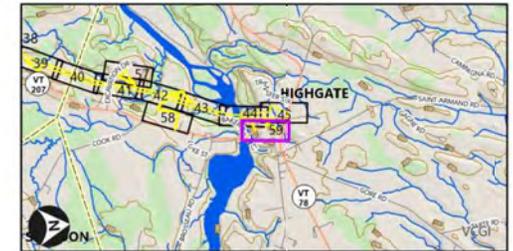


- Prime Ag. Soil - Physical Disturbance (VHB)
- Prior PAS Impacts (VELCO/VHB)
- NRCS Soil Boundary (VCGI)
- Prime Agricultural Soils (PAS) (VCGI)
- Study Area (VHB)
- Class II Wetland Buffer - 50 ft. (VHB)
- Sheet Outline (VHB)
- Town Boundary (VCGI)
- Parcel Boundary (VCGI)
- Areas with 15% or greater slope (VCGI)

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VERMONT IMPORTANT FARMLAND RATING	MAP SYMBOL (MUSYM)	SOIL DESCRIPTION	MAPPED AREA (ACRES)	EXCLUDED AREAS				ADJUSTED PAS (ACRES)	PROPOSED PAS IMPACTS (ACRES)		
				CLASS II WETLANDS AND BUFFERS (ACRES)	STEEP SLOPES (≥15%) (ACRES)	PRIOR IMPACTS & NON FUNCTIONAL PAS (ACRES)	CONSTRUCTION PHASE PHYSICAL DISTURBANCE		PHYSICAL DISTURBANCE	PERMANENT	
	AuA	Au Gres loamy fine sand, 0 to 6 percent slopes	6.14	1.90	0.14		4.10	0.49	0.24		
	Bg	Binghamville silt loam	15.57	13.09	0.64	0.11	1.73	3.16	0.05		
	CpB	Copake fine sandy loam, 2 to 8 percent slopes	11.52	9.55	0.94	0.70	0.33	0.94	0.80	0.31	
	DeB	Deerfield loamy fine sand, 0 to 8 percent slopes	0.83	0.66	0.04	0.07	0.06	0.27	0.01		
	EdA	Eldridge loamy fine sand, 0 to 3 percent slopes	4.32		0.79	0.64	2.89	0.46	0.29		
	EdB	Eldridge loamy fine sand, 3 to 8 percent slopes	5.24	5.12			0.12	0.67	0.40		
	EnA	Enosburg loamy fine sand, 0 to 3 percent slopes	1.48	1.19	0.11		0.18	0.04	0.33		
	EnB	Enosburg loamy fine sand, 3 to 8 percent slopes	15.98	5.57	0.45	0.57	9.39	1.29	0.26		
	FaB	Farmington loam, very rocky, 3 to 8 percent slopes	4.82	4.56		0.12	0.14	0.25	0.87		
	GeA	Georgia stony loam, 0 to 3 percent slopes	1.99	1.68	0.08	0.06	0.17	0.30			
	GeB	Georgia stony loam, 3 to 8 percent slopes	9.99	9.43		0.35	0.21	1.80	0.11	0.70	
	GeC	Georgia stony loam, 8 to 15 percent slopes	0.95		0.26		0.69				
	KbA	Kingsbury clay, 0 to 3 percent slopes	2.55	2.03	0.32	0.06	0.14	0.98			
	Le	Limerick silt loam	4.29	1.23	0.48		2.58	0.13			
	LoB	Lordstown loam, rocky, 3 to 8 percent slopes	15.25	12.88	1.50	0.60	0.27	1.72	1.31		
	LoC	Lordstown loam, rocky, 8 to 15 percent slopes	2.13	2.06			0.07		0.24		
	MeA	Massena stony loam, 0 to 3 percent slopes	13.16	11.98	0.88	0.25	0.05	1.95	0.57		
	MeB	Massena stony loam, 3 to 8 percent slopes	5.50	4.70	0.78	0.02	0.00	0.34	0.23	0.01	
	MsA	Missisquoi loamy sand, 0 to 3 percent slopes	1.99		1.89		0.10		0.32		
	MsB	Missisquoi loamy sand, 3 to 8 percent slopes	0.76		0.08		0.68				
	MsC	Missisquoi loamy sand, 8 to 15 percent slopes	11.53	10.78	0.67		0.08		0.36		
	MuB	Munson silt loam, 3 to 8 percent slopes	0.14		0.04		0.10				
	Pu	Podunk variant silt loam	1.81	0.29	0.05		1.47	0.12	0.04		
	RaB	Raynham silt loam, 3 to 8 percent slopes	13.06	11.98	0.65	0.22	0.21	3.40	1.76		
	Ru	Rumney variant silt loam	2.64	0.34	0.28		2.02				
	SaA	St. Albans slaty loam, 0 to 3 percent slopes	1.33	0.38	0.11		0.84		0.06		
	SaB	St. Albans slaty loam, 3 to 8 percent slopes	13.58	12.89	0.49	0.13	0.07	1.74	1.11		
	SaC	St. Albans slaty loam, 8 to 15 percent slopes	0.53		0.07		0.46				
	ScA	Scantic silt loam, 0 to 3 percent slopes	28.94	16.72	0.73		11.49	4.12	0.51		
	ScB	Scantic silt loam, 3 to 8 percent slopes	1.39	1.27	0.03		0.09	0.36	0.24		
	Wh	Wareham loamy fine sand	4.78	2.41	0.83	0.38	1.16	0.10	0.02		
	WsA	Windsor loamy fine sand, 0 to 3 percent slopes	5.72	4.89	0.82	0.01	0.00	1.10	0.10		
	WsB	Windsor loamy fine sand, 3 to 8 percent slopes	26.20	20.50	3.87	1.83	0.00	2.05	1.86		
		Sub-Total (Acres)	236.11	170.1	18.0	6.1	41.9	27.8	12.1	1.0	

VELCO Franklin County Line Upgrade Project (FCLU) K-42 115 kV Line
 Towns of Georgia, St. Albans, Swanton and Highgate, Vermont
 Prime Agricultural Soils (PAS) Impact Summary
 Prepared by: VHB
 September 15, 2023
 Revised: October 20, 2023



VERMONT FARMLAND RATING	MAP SYMBOL (MUSYM)	SOIL DESCRIPTION	MAPPED AREA (ACRES)	EXCLUDED AREAS			ADJUSTED PAS (ACRES)	PROPOSED PAS IMPACTS (ACRES)		
				CLASS II WETLANDS AND BUFFERS (ACRES)	STEEP SLOPES (≥15%) (ACRES)	PRIOR IMPACTS & NON FUNCTIONAL PAS (ACRES)		CONSTRUCTION PHASE PHYSICAL DISTURBANCE	PHYSICAL DISTURBANCE	PERMANENT
	DeC	Deerfield loamy fine sand, 8 to 15 percent slopes	0.35				0.35			
	BxE	Buxton silt loam, 25 to 45 percent slopes	0.00				0.00			
	Ce	Carlisle muck	0.75				0.75			
	FaC	Farmington loam, very rocky, 8 to 15 percent slopes	11.05				11.05			
	FmC*	Farmington-Rock outcrop complex, 6 to 15 percent slopes	41.76				41.76	0.21		
	FmD	Farmington-Rock outcrop complex, 15 to 60 percent slopes	30.90				30.90			
	GrB*	Georgia extremely stony loam, 0 to 8 percent slopes	6.08				6.08	0.19		
	HbE	Hinesburg loamy fine sand, 25 to 60 percent slopes	4.10				4.10			
	LrC*	Lordstown-Rock outcrop complex, 5 to 15 percent slopes	10.29				9.63	0.49	1.60	
	LrD*	Lordstown-Rock outcrop complex, 15 to 25 percent slopes	10.21	0.15	0.12		9.94	1.25	0.08	
	Ly	Lyons stony loam	2.74				2.74			
	MnA*	Massena extremely stony loam, 0 to 6 percent slopes	14.06	0.42	0.08		13.56	1.28	0.75	
	MsD	Missisquoi loamy sand, 15 to 25 percent slopes	1.90				1.90			
	MsE	Missisquoi loamy sand, 25 to 60 percent slopes	1.17				1.17			
	SbC	St. Albans very stony loam, 8 to 15 percent slopes	1.06				1.06			
	Tm	Terric Medisaprists	4.32				4.32			
	W	Water	0.93				0.93			
	WsC	Windsor loamy fine sand, 8 to 15 percent slopes	1.34				1.34			
	WsD	Windsor loamy fine sand, 15 to 25 percent slopes	10.88				10.88			
	WsE	Windsor loamy fine sand, 25 to 60 percent slopes	4.11				4.11			
		Totals (acres):	318.51	170.7	18.9	6.1	122.9	31.2	14.5	1.0

*These NPSL rated soils were noted to have active agricultural activities occurring on them in recent observations, and as such, are being included in the PAS impact totals