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Kathleen M. Shanley

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July 6, 2022

Melanie Bachman, Executive Director Connecticut Siting Council Ten Franklin Square New Britain, CT 06051

Re: Stevenson to Pootatuck Rebuild Project

Dear Ms. Bachman:

The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource") is requesting a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is required for the Stevenson to Pootatuck Rebuild Project ("Project"), which proposes modifications to the existing 1560, 1808 and 1580 Lines, in the Towns of Monroe and Shelton, Connecticut ("Petition").

Prior to submitting this Petition, Eversource representatives briefed municipal officials about the Project and provided written notice to all abutters of the proposed work and also of the filing of this Petition with the Council. Maps and line lists identifying the notified property owners are provided in the Petition as Attachment A: Stevenson to Pootatuck Rebuild Project – Aerial Maps.

A check in the amount of \$625 for the required filing fee is also attached.

Sincerely.

Kathleen M. Shanley

Attachments

cc: Kenneth M. Kellogg, First Selectman, Town of Monroe

Mark A. Lauretti, Mayor, City of Shelton

THE CONNECTICUT LIGHT AND POWER COMPANY

doing business as

EVERSOURCE ENERGY

PETITION TO THE CONNECTICUT SITING COUNCIL
FOR A DECLARATORY RULING OF
NO SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT
FOR THE PROPOSED MODIFICATIONS TO THE EXISTING
1560, 1808 AND 1580 LINES IN THE TOWN OF MONROE AND CITY OF SHELTON,
CONNECTICUT

1. Introduction

The Connecticut Light and Power Company doing business as Eversource Energy ("Eversource" or the "Company") hereby petitions the Connecticut Siting Council ("Council") for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need ("Certificate") is required pursuant to Section 16-50g et seq. of the Connecticut General Statutes for proposed modifications to the 1560, 1808 and 1580 Lines, 115-kilovolt ("kV") transmission lines located within an existing transmission right-of-way ("ROW") in the Town of Monroe and City of Shelton, Connecticut, as described herein (the "Project"). Eversource submits that a Certificate is not required because the proposed modifications would not have a substantial adverse environmental effect.

2. Purpose of the Project

The purpose of the Project is to replace structures and reconductor approximately 8 miles of the 1560, 1808 and 1580 115-kV lines entirely within existing Eversource ROWs that connect Eversource's Stevenson Substation, located at 1 Roosevelt Drive in Monroe, and United Illuminating's ("UI") Pootatuck Substation, located at 14 Old Stratford Road in Shelton.

The 1560/1808 Lines and the 1580 Line¹ are each supported on double-circuit transmission structures that share an existing ROW from Stevenson Substation to Pootatuck Substation. Eversource has determined that the existing structures require replacement due to agerelated degradation, insufficient conductor clearance per current code requirements and their inability to physically support the new conductor. The structures supporting the 1560, 1808 and 1580 Lines currently support obsolete wires that have exceeded their planned service life and are at risk of failure due to degradation. In addition, in several locations the existing structure configuration are staggered. As part of the scope of work, the Project, is proposing to realign the existing structure configuration to maintain consistent electrical clearances between replacement structures during maintenance operations and wind events.

At the time of the original installation, the National Electric Safety Code ("NESC") clearances did not require consideration for conductor sway due to wind ("blow out"). The replacement structure design will meet the current conductor blow-out clearance requirements set out in the 2017 NESC. In an effort to minimize impacts to abutters and avoid the need for acquisition of additional easements from these abutting private property owners to meet the clearance requirements, 21 new additional mid-span structures would be required to reduce the span widths and constrain the conductors to address blow out.

Figure 1 illustrates the general location of the proposed Project.

 $^{^{1}}$ The 1580 Line is supported on structures that also supported the 1590 transmission line conductor before it was decommissioned.

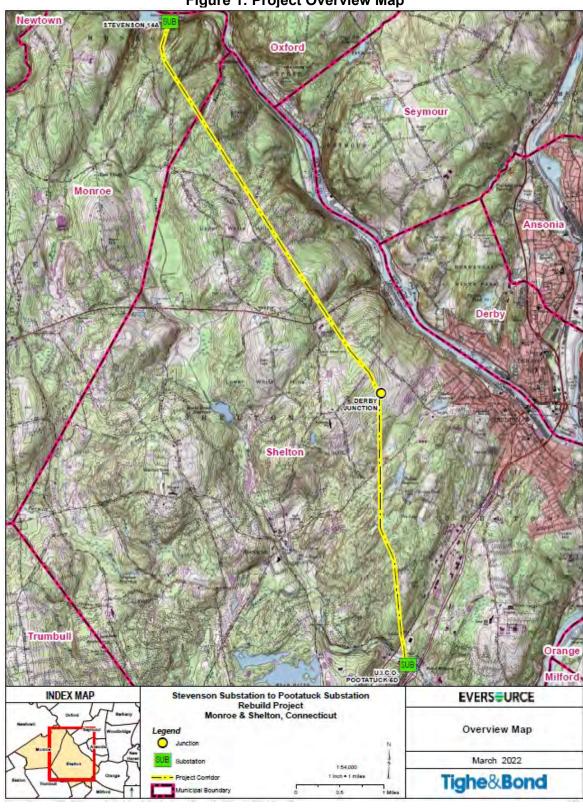


Figure 1: Project Overview Map

3. Existing Project Area

As shown on Attachment A, Stevenson to Pootatuck Rebuild Project – Aerial Map, the existing Project area is an approximately 8-mile portion of Eversource's ROW from Stevenson Substation ("Stevenson") to UI's Pootatuck Substation ("Pootatuck"). The transmission ROW corridor between Stevenson and Pootatuck contains the 1580 Line, which is supported by double-circuit structures, and share the ROW with 1560/1808 Lines, which are mostly on double-circuit structures. The 1580 Line was originally built in 1923, the 1808 Line and the 1560 Line were originally built in 1962. From Stevenson to Pootatuck, the 1580 and the 1560/1808 Lines are supported on a total of 117 structures.). The 1580 Line is supported on 58 structures (57 steel lattice towers and one wood H-frame structure). The 1560/1808 Lines are supported on 59 structures (55 steel lattice structures, one wood two-pole structure, one wood H-frame structure, and two steel single-circuit poles

The width of the existing ROW within the Project area varies from approximately 110 feet to 200 feet. No expansion of the existing ROW is proposed.

The Project ROW traverses residential properties, public recreational trails, agriculture lands and conservation lands, including the Shelton Lakes Greenway in Shelton and Webb Mountain Park in Monroe. The ROW also crosses the Housatonic Railroad, Route 110, Route 108, Route 714 and local roads.

4. Project Description

The Project scope consists of conductor, static wire and structure replacements on the 1560, 1808 and 1580 Lines for approximately 8 miles between Stevenson Substation and Pootatuck Substation. The Project requires the replacement of 112 lattice steel structures² and one two-pole steel structure with new weathering steel monopole structures, two wood H-frame structures with two weathering steel H-Frame structures, and 33 new weathering steel monopoles, for a total of 148 structures. Fifty-six structures would have direct-embed foundations and ninety-two structures would have drilled shaft foundations.

The proposed modifications will involve the following:

1560/1808 Lines

- Replacement of 43 existing double-circuit steel lattice structures with 43 new double-circuit weathering steel monopoles³.
- Replacement of 12 existing double-circuit steel lattice structures with 24 new singlecircuit weathering steel monopoles⁴.
- Replacement of one two-pole steel structure with one double-circuit weathering steel monopole.
- Replacement of one single-circuit wood H-Frame structure with one weathering singlecircuit steel H-frame structure.
- Installation of 4 new mid-span single-circuit weathering steel monopoles.

² Structures 1342A and 1342B on the 1560/1808 lines will remain and not be replaced. These two structures are steel monopole structures and can support the new conductor.

³ Eversource no longer constructs steel lattice towers due to cost considerations and to minimize system failures, as well as, to meet the current NESC and Eversource design standards.

⁴ The double-circuit lattice structures each will be replaced with two single-circuit monopoles.

- Installation of 8 new mid-span double-circuit weathering steel monopoles.
- Replacement of existing 795 ACSR with 1590-kcmil aluminum conductor steelsupported ("ACSS") conductor.
- Replacement of the existing 3/8-inch copperweld shield wires with optical ground wire ("OPGW").

1580 Line

- Replacement of 57 existing double-circuit steel lattice structures with 57 new singlecircuit weathering steel monopoles⁵.
- Replacement of one single-circuit wood H-Frame structure with one weathering singlecircuit steel H-frame structure.
- Installation of 9 new mid-span single-circuit steel weathering steel monopoles.
- Replacement of existing 4/0 copper conductor with 1590-kcmilACSS conductor.
- Replacement of the existing 3/8-inch copperweld shield wires with OPGW on the 1580 structures.

In addition to the work described above, lightning arrestors would be installed on approximately every fifth structure ⁶ in addition to new hardware and insulators on all structures and counterpoise, as needed. All-dielectric self-supporting ("ADSS") fiber optic cable would be installed from the existing 1560 Line terminal structure to the control house at Stevenson Substation.

The height of the existing structures to be replaced ranges from 48 feet to 124 feet above ground level. The replacement structures would range in height from 48 feet to 160 feet above ground

⁵ The decommissioned 1590 Line will be removed and not replaced.

⁶ The existing lightning arrestors will be transferred to the new structures.

level. The proposed structure height increases of the replacement structures range from approximately 1 foot to 53 feet above the corresponding existing structures. Twelve structures will have height increases that are over 40 feet. These height increases are required to comply with current clearance requirements. Six replacement structures would have slightly reduced heights, as compared with the corresponding existing structures. The majority of the replacement structures would be positioned more than 15 feet from the existing structures to maintain ground clearance and blow-out requirements and avoid the need to obtain additional easements from property owners. The Project design also includes aligning the transmission structures of the three circuits (1560, 1808 and 1580) adjacent to each other, rather than maintaining the staggered configuration. Removing the staggered configuration is necessary to maintain electrical clearances between alignments during maintenance operations and wind events.

Attachment A depicts the locations of existing and proposed structures, as well as the approximate location and configuration of work pads and pull pads to be used for the Project, access roads, and other Project elements. The cross-section drawings provided in Attachment B: Stevenson to Pootatuck Rebuild Project Right of Way Cross Section depict typical views along the ROW of the existing and proposed structures. Attachment C: List of Structure Replacements provides more specific information on the heights of the existing and proposed structures.

5. Environmental Effects and Mitigation

The Project would be constructed entirely within the existing transmission ROW between Stevenson Substation to Pootatuck Substation. No physical expansion of the existing ROW is proposed for the Project. The Project would not have a substantial adverse environmental effect, for the reasons explained more fully below.

Land Use

Land uses adjacent to the Project Area consist of a mix of rural, residential, recreational, agricultural, commercial, transportation corridor (federal, state, and local roadways), hydroelectric power generation (Stevenson Dam), and undeveloped lands such as forest areas. Recreational uses within the ROW include the Connecticut Forest and Park Association ("CFPA") Paugussett Trail and municipal open space parcels. The ROW also crosses the Housatonic Railroad in Monroe. Though the Project would be traversing through some of these areas, it will not impact adjacent land uses.

Vegetation Removal

The existing maintained ROW ranges in width from 110 to 200 feet. While the Project would be located within the maintained ROW, mowing along access roads, selective removal of non-compatible tree species within the ROW, and pruning of side vegetation would be required. Vegetation work would be conducted mainly using tracked mowers and bucket trucks. Hand cutting of non-compatible vegetation in wetland areas may be necessary and climbing crews for tree trimming and danger tree removal or hazard tree removal⁷ would be necessary in inaccessible areas. Vegetation removal would be required where workspace or access road development is necessary for construction of the Project.

Hazard trees located in un-managed areas outside of the limits of Project clearing would be removed after identification; prior to the removal of any such trees located off-ROW, Eversource would obtain approval from the affected landowner.

Scenic, Recreational and Cultural Resources

The Project is not anticipated to have a substantial adverse impact to scenic, recreational, or cultural resources for the reasons explained below:

- No portion of the ROW traverses a locally or state designated scenic roadway⁸.
- Public open space and hiking trails that may be impacted during construction were identified through a desktop review of GIS data available from the Connecticut Department of Energy and Environmental Protection ("CT DEEP")⁹, Connecticut Forest and Park Association ("CFPA")¹⁰, the City of Shelton Conservation Commission website¹¹, and field reconnaissance. Recreational opportunities within and adjacent to the Project area include hiking, biking, boating, camping, and fishing as provided by the CFPA Paugussett Trail, located within Monroe and Shelton, Webb Mountain Park in Monroe, and Frenches Hill Greenway and Shelton Lakes Greenway in Shelton. Eversource has informed the managers of these public recreational areas of the Project and would develop and implement measures to maintain public safety during Project construction, while also avoiding or minimizing short-term impacts to recreational users. Fine processed gravel will be used for access road construction along trails rather than coarse aggregate to maintain trail safety, comfort, and accessibility. Restoration activities within open space areas would include revegetation of work pads with a CTDEEP approved native seed mix as well as

⁸ Connecticut Department of Transportation (CTDOT), October 1, 2018 Connecticut State Scenic Roads. Accessed June 13, 2020. Available URL: https://portal.ct.gov/DOT/Programs/Connecticut-Scenic-Roads.

Gonnecticut Department of Energy and Environmental Protection, GIS Data URL: https://portal.ct.gov/DEEP/GIS-and-Maps/Data/GIS-DATA

¹⁰ Connecticut Forest & Park Association URL: https://www.ctwoodlands.org/

¹¹ City of Shelton Conservation Commission URL: http://www.sheltonconservation.org/recreation/shelton trails.html

placement of natural materials, such as large rock fragments or boulders, to create wildlife cover and layered visual aspects as requested by open space managers. Eversource would continue to coordinate with the open space managers to further develop and implement mutually acceptable restoration measures that would maintain or enhance the recreational, scenic, and wildlife habitat value of these areas throughout the Project construction and restoration activities.

A Phase 1A cultural (archaeological and historical) resource assessment of the proposed Project was conducted by Heritage Consultants, LLC ("Heritage") in April 2021. This review consisted of an initial desktop archaeological and historical resource review and pedestrian survey ("Phase 1A Cultural Resource Assessment" or "Phase 1A").

The Phase 1A desktop evaluation determined that no documented National Register of Historic Places ("NRHP"), state or locally listed properties or historic districts are located within 500 feet of the Project ROW. Additionally, based upon the presence of qualifying criteria (i.e., identification of areas that are likely to contain and/or retain archaeological deposits), the Phase 1A identified 48 locations within the ROW as having a moderate to high potential for archaeological sensitivity, thus prompting further investigation via the execution of a Phase 1B survey.

The Phase 1B survey consisted of shovel testing in select locations, which was completed in June 2021. The Phase 1B investigation resulted in reclassification of 47 of the 48 moderate/high sensitivity areas as having no/low sensitivity where no further archaeological investigation was recommended.

One location was recognized during the Phase IB survey as having prehistoric cultural material within intact subsoils contexts that may have research potential and historic qualities of significance. As such, Heritage conducted a Phase II NRHP test and evaluation of the site and found that it yielded low densities of prehistoric cultural material and was determined to lack research potential. Heritage concluded that the site is not eligible for listing on the NRHP and no further testing of the site is recommended as part of the proposed Project.

The results of the Phase 1B and Phase II surveys have been provided to the State Historic Preservation Office ("SHPO") and the Tribal Historic Preservation Offices ("THPO") of the Connecticut Tribe of Mohegan Indians and the Mashantucket Pequot Tribal Nation for their review and concurrence. Written replies received from SHPO or a THPO will be provided to the Council by Eversource upon receipt.

Water Resource Areas

Eversource conducted delineations of wetlands and water resources in the Project area in September and October 2020. Wetland boundaries were peer reviewed and modified as needed during additional field inspections conducted in March through July 2021 (see Attachment D: Wetland Delineation Report and Attachment E: Vernal Pool Survey and Recommended Protection Measures). Water resources within the Project area include inland wetlands, watercourses (perennial and intermittent streams), ponds, vernal pools, and Federal Emergency Management Agency ("FEMA") Flood Zones. All work within or near these areas would be conducted in accordance with the Eversource's 2022 Best Management Practices Manual for Massachusetts and Connecticut ("BMPs") and with the conditions of applicable regulatory permit conditions and approvals. Details on each of these resource areas are provided below.

Wetlands

Wetlands located within the Project area were identified and delineated in accordance with industry standard methodology. A total of 43 wetlands were identified and delineated within or proximate to the Project area.

The Project would include removal of six (6) entire lattice structures (225, 1375, 238, 248, 258, 1342) from wetlands and two (2) lattice structures (252, 1353) that are partially located in wetlands. The Project would also include installation of seven (7) monopoles (19223, 19220, 19612, 19206, 19601, 19601A, and 19200) within wetland areas. Permanent wetland effects from placement of the seven structures within wetlands would result in approximately 350 square feet (0.008 acre) of permanent wetland effects. A permanent wetland impact (approximately 35 square feet / 0.0008 acre) would also result from installation of a gravel access road within a previously disturbed (partially filled) wetland (W20), which is adjacent to a recently constructed residential driveway.

The Project will also result in approximately 3.4 acres of temporary effects to wetlands, which are associated with the temporary use of construction mats for access roads, pull pads and work pads and vegetation removal. All construction mats will be promptly removed upon Project completion and wetland areas will be restored in accordance with Eversource's BMPs.

Watercourses and Waterbodies

A total of 27 watercourses have been identified and delineated within or proximate to the Project area. These include six (6) perennial watercourses and 21 intermittent watercourses. Named perennial watercourses include the Housatonic River, Round Hill Brook, Upper White Hill Brook, Indian Hole Brook, Wells Brook and Farmill River.

Permanent effects would occur from installation of two hard-bottom (a.k.a. stone ford) crossings associated with intermittent watercourses. The crossings would result in a total of approximately 535 square feet (0.012 acre) of alteration to a narrow intermittent stream channel (S2) and to a narrow intermittent stream channel and adjacent wetland (S3/W2). The two permanent crossings are proposed to establish continuous stabilized access for future ROW inspections and maintenance and will be installed in such a way as to allow continuous flow over the road without resulting in upstream surface water impoundment. These proposed permanent crossings will function to limit road erosion and sediment deposition within downstream wetland and watercourse resources.

Existing culverted watercourse crossings will be used along access roads at various locations throughout the Project. No replacement of culverts is currently anticipated but may be required during road improvements. In addition, a total of seven (7) temporary watercourse crossings (indicated on the Project mapping as "Span Stream") will be required during construction. These 7 temporary crossings would be spanned using construction mats, which would be placed in such a way as to not impede the flow of water. Temporary construction mats will also be utilized to access areas for required vegetation removal. All construction mats will be promptly removed upon Project completion and wetland areas will be restored in accordance with Eversource's BMPs.

Table 2 provides a summary of Project effects to wetlands and watercourses.

Table 2: Summary of Project Effects to Wetlands and Watercourses

Wetland/	200	Wetland/Watercourse Effects (± square feet (sf)/acres			
Watercourse ID	Scale Map Sheet	Temporary (Matting)	Permanent (Activity)		
S2	1	0	160 sf / .004 ac (stream ford)		
W2/S3	2	0	375 sf / .009 ac (stream ford)		
W4/S4	2	1,550 sf / .04 ac	0		
W5	3	2,635 sf / .06 ac	0		
W7	3	1,442 sf / .03 ac	0		
W8	3	939 sf / .02 ac	0		
W9	4	750 sf / .02 ac	0		
W10/S8	4	2,422 sf / .06 ac	0		
W11/S9	4	2,562 sf / .06 ac	0		
W12/S10	5	6,597 sf / .15 ac	0		
W14	6	6,630 sf / .15 ac	0		
W16/S15	6	33,321 sf / .77ac	0		
W19	8	2,032 sf / .05 ac	0		
W20	8	0	34 sf (access)		
W21	9	22,648 sf / .52 ac	50 sf / .001 ac (structure)		
W23	10	8,792 sf / .20 ac	50 sf / .001 ac (structure)		
W27	11	1,449 sf / .03 ac	0		
W30	11/12	416 sf / .01 ac	0		
W31	12	17,597 sf / .40 ac	50 sf / .001 ac (structure)		
W32	12	9,907 sf / .23 ac	0		
W33	12	626 sf / .01 ac	0		
W34	12	1,394 sf / .03 ac	0		
W36	12/13	1,842 sf / .04 ac	0		
W37	13	6,825 sf / .16 ac 50 sf / .001 ac (structur			
W40	14	177 sf / .004 ac 0			
W42	14	16,765 sf / .38 ac	150 sf / .003 ac (structures)		
Totals		149,318 sf / 3.42 ac	919 sf / 0.021 ac		

Vernal Pools

The Project Area was surveyed for potential vernal pools on various dates in late 2020 and early 2021. Potential vernal pools were identified in late 2020 based primarily on the presence of suitable hydrology (i.e., evidence of seasonally to permanently flooded wetlands), with consideration for the presence of other indicators such as concave and unvegetated surfaces. Early 2020 survey methods included visual surveys to identify adults, larvae and egg masses, audial surveys of amphibian chorusing, and dip-net surveys to identify vernal pool species larvae.

A total of six (6) vernal pools were identified and delineated within the Project ROW. Vernal pools and vernal pool envelopes (areas within 100 feet of a vernal pool depression) are shown in Attachment A: Stevenson to Pootatuck Rebuild Project Aerial Maps. The vernal pool survey results and recommended protection measures are provided in Attachment E: Vernal Pool Survey.

There would be no temporary or permanent effects to vernal pools due to the Project. Proposed effects to 100-foot vernal pool envelopes would be minimized to the greatest extent practical through avoidance, minimization, and implementation of recommended protection measures, including the 2002 Connecticut Guidelines for Erosion and Sediment Control ("Connecticut Guidelines"), Eversource's BMPs, and the methods detailed in Attachment E – Vernal Pool Survey.

FEMA Flood Zones

The Project area extends into FEMA-designated 100-year flood zones associated with the Housatonic River in Monroe and the floodway, 100-year and 500-year flood zones associated with the Farmill River in Shelton. No new transmission structures are proposed within FEMA flood zones. Proposed temporary fills within FEMA flood zones would be limited to work pads and a pull pad adjacent to the Farmill River. There would be no net permanent fill within the FEMA flood zone of the Farmill River. Temporary mats, construction materials and equipment would be properly secured where placed within the flood zone, and will be removed from the flood zone immediately upon completion of construction.

Water Supply

Based on Aquifer Protection Areas ("APA") mapping maintained by the CTDEEP; an APA extends into the ROW south of Soundview Avenue in Shelton. Activities within the APA are limited to improvement of approximately 260 linear feet of an existing access road for construction use. The Project area is not within a public water supply watershed and does not cross any public supply reservoirs or public water supply wells.

Wildlife and Habitat

The Project area extends through a variety of habitats that support vegetation and wildlife common in such areas. Habitats include upland and wetland shrubland and meadow, riparian corridors, active and fallow agricultural land, and unvegetated or sparsely vegetated ledge outcroppings.

Eversource reviewed the current CT DEEP Natural Diversity Database ("NDDB") mapping for known or potential occurrences of state-listed endangered, threatened, or special concern species in the vicinity of the Project area. In mid-February 2022, Eversource submitted a

NDDB State-listed Species Review request to the CT DEEP for the proposed activities within the NDDB-mapped habitat areas. Eversource received a response letter from CT DEEP on March 16, 2022 (NDDB Determination No.: 202201763) and will adhere to the recommendations and protection strategies detailed within the letter.

In addition to coordinating with the NDDB for the protection of state-listed species, Eversource consulted with the U.S. Fish & Wildlife Service's ("USFWS") Information, Planning, and Consultation ("IPaC") service regarding federal-listed species that may be present within the Project area. The IPaC report indicated one federally listed threatened species, Northern Long-eared Bat ("NLEB"), and one candidate species, monarch butterfly, may potentially be found in proximity to the Project area.

NLEB roosts in certain trees in the warmer months of the year and at other times hibernates in caves and mines (bat "hibernacula"). However, according to the NLEB Areas of Concern in Connecticut map (dated March 6, 2019), there are currently no known NLEB maternity roost trees in Connecticut and no known NLEB hibernacula in the towns of Shelton or Monroe. Therefore, no impacts to this species are anticipated.

While monarch butterfly is currently identified as a candidate species, it is not yet federally listed or proposed for listing. As detailed in the USFWS Environmental Conservation Online System ¹², Consultation with USFWS under section 7 of the Endangered Species Act is not required for candidate species. Utility corridors provide linear habitat for monarch butterflies and other pollinators. Further, gravel work pad restoration in sensitive areas (e.g., NDDB areas, etc.) will be seeded with a CT DEEP approved seed mix that includes pollinator-friendly native vegetation, such as milkweed. As such, no impacts to this species are anticipated.

¹² USFWS, Environmental Conservation Online System URL: https://ecos.fws.gov/ecp/species/9743

The Project ROW crosses a New England Cottontail ("NEC") Focus Area (see map sheets 1-3). Conservation focus areas help biologists and habitat managers concentrate efforts in areas where they will have the greatest effect. Almost all known NEC populations in Connecticut occur within designated NEC focus areas. In 2015, the USFWS announced that, due to ongoing conservation efforts, the NEC would no longer be listed as having threatened or endangered status. However, a critical factor in reaching this decision was that NEC conservation efforts would continue. Shrubland habitat, which is maintained by Eversource within transmission line ROWs, provides NEC habitat.

Eversource is proposing to restore constructed gravel work pads with native plant seed mix in NDDB areas following construction. Gravel work pads located in NEC focus areas will be reduced in size where feasible to minimize potential effects to NEC habitat in accordance with Eversource's 2020 New England Cottontail Best Management Practices.

Visual Effects

The 1560, 1808 and 1580 Lines share the ROW. Though the Project would result in changes to the visual character of the line, Eversource does not believe that these would result in a significant environmental effect. Replacement structures, especially those converting from a lattice to a monopole design, would be located within Eversource ROW with uniform weathering steel material and would present a more streamlined appearance.

<u>Noise</u>

The Project would result in short-term and localized noise from construction activities. The temporary increase in noise would likely temporarily raise localized ambient sound levels immediately surrounding the work areas due to the operation of standard types of construction equipment (e.g., backhoe, bulldozer, drill rig, excavator mounted rock hammer, crane, trucks,

etc.)¹³. Upon completion of construction and during operation, the proposed Project would not have any effect on ambient noise levels.

Air Quality

Short-term, localized effects on air quality may result, primarily from fugitive dust and equipment emissions, from the Project work. To minimize the amount of dust generated by construction activities, the extent of exposed/disturbed areas at any one time would be minimized. Vehicle emissions will be limited by requiring contractors to properly maintain construction equipment and vehicles, and by minimizing the idling time of equipment and vehicles, including diesel construction equipment, in accordance with Connecticut regulatory requirements. Temporary gravel tracking pads would be installed at points of construction vehicle ingress/egress to minimize the potential for equipment to track dirt onto local roads. To further minimize dust, water may be used to wet down disturbed soils or work areas with heavy tracking, as needed.

6. Transportation and Traffic Management

Construction-related vehicular and equipment movements would utilize public roads in the Project area to access the ROW. However, the Project-related traffic is generally expected to be temporary and highly localized in the vicinity of the ROW access points and at the staging area described in the following Construction Sequence section. Due to phasing of construction work, these Project-related traffic movements are not expected to significantly affect transportation patterns or levels of service on public roads.

¹³ Construction noise is exempted under the Connecticut regulations for the control of noise, RCSA §22a-69-1.8(g).

To safely move construction vehicles and equipment onto and off the ROW while minimizing disruptions to vehicular traffic along public roads, the construction contractor typically would be responsible for posting and maintaining construction warning signs along public roads near work sites and for coordinating the use of flaggers or police personnel to direct traffic, as required.

Construction vehicles and equipment associated with the work would include, but would not be limited to, pickup trucks, bucket trucks, flat-bed trucks, excavator, concrete trucks, drill rigs, front loaders, reel trailers, bulldozers, woodchippers, brush hogs/mower, forklifts, side booms, dump trucks and cranes. Pullers and tensioners would be used for the line work.

Construction Sequence

Project construction would include the following activities:

Establishing Staging Area/Laydown Yard

Eversource would select temporary staging areas from available parcels in the vicinity of the Project area that would also be used to store construction equipment and materials, (including tools, and supplies) conductor, insulators, hardware, poles and construction mats, for the Project. Office trailers may also be located at a staging area, and transmission line components removed during the work (structure steel, conductor, hardware and insulators) may be temporarily accumulated and stored at a staging area prior to removal off-site for salvage and/or disposal. The staging areas may also be used by construction crew members for parking personal vehicles as well as for construction vehicles, and for performing minor maintenance, when needed, on construction equipment. An environmental review of each potential staging area location would be completed, and Eversource would consult with the

local municipal officials and provide notice to the Council when the staging areas are identified.

Soil Erosion and Sediment Control Installation

Project construction would conform to best management practices for erosion and sedimentation ("E&S") control, including those provided in the Connecticut Guidelines and Eversource's BMPs. This includes development of a Project specific Stormwater Pollution Control Plan ("SWPCP") and registration under CTDEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("General Permit").

Typical E&S control measures include, but are not limited to, straw blankets, hay bales, silt fencing, rock construction entrances, soil and slope protection, water bars, check dams, berms, swales, and plunge pools. Silt fence would be installed as needed to intercept and retain sediment and/or construction materials from disturbed areas and minimize the potential for sedimentation outside of the Project and staging areas.

Temporary E&S control measures would be maintained and inspected for the duration of the Project to ensure their integrity and effectiveness and for compliance with the General Permit. SWPCP inspections would be performed in accordance with the General Permit requirements. Following the construction, seeding and/or mulching would be completed to permanently stabilize the areas disturbed by the construction activities. The temporary E&S control measures would remain in place until the Project work is complete and all disturbed areas are stabilized.

Access Roads and Work Pads

Access to each existing and proposed structure location would be required during Project construction. Some gravel access roads are already established and Eversource would utilize these existing access roads to the extent possible. However, many new access roads would

be required within Eversource ROW. Most of the proposed gravel access roads are within upland areas with three exceptions where permanent crossings are proposed.

Two of the proposed crossings are identified as stone fords on the Project map (see maps sheets 1 and 2). The third proposed crossing is located within a previously disturbed (i.e., filled by others) wetland (see map sheet 8, W20), where gravel access would extend to each side of a residential driveway and the driveway will be protected with steel plates. The two proposed stone fords would be in areas where surface water flows over and/or into existing unimproved (earthen) access roads. The stone fords will be installed in such a way as to allow continuous flow through the access road without impoundment of upstream surface water. The stone fords would provide continuous, stabilized access for future ROW inspections and maintenance and effectively limit road erosion and sediment deposition within downstream wetland and watercourse resources. The third proposed crossing, adjacent to the residential driveway, is in a location where no ponded or flowing water has been observed. No other permanent Project features are proposed within regulated wetland or watercourse resource areas.

Existing access roads may need to be improved (graded, widened, and/or reinforced) with additional stone material (gravel) in order to accommodate the safe passage of construction vehicles and equipment. Typically, the maximum travel surface of an access road is approximately 16 feet wide (additional width may be needed at turning or passing locations). Access roads would normally be graveled. E&S controls would be installed as necessary before the commencement of any improvements to or development of access roads.

At each transmission line structure location, a work pad is required to stage material for final on-site assembly and/or removal, and to provide a safe, level work base for the construction equipment. The work pads for the Project would range from approximately 110 feet by 135 feet to 150 feet by 150 feet and may be used for both installation of new structures and

removal of existing structures. However, due to the existing terrain, a few select pads would require larger footprints, the largest being approximately 150 feet by 255 feet. Pull pads would have dimensions of approximately 60 feet by 80 feet. Work pads would be graveled where practical. Temporary matting would be installed to protect sensitive areas (i.e., regulated wetlands and watercourses, lawn areas, agricultural lands, etc.). To facilitate future transmission line maintenance, gravel access roads, work pads and pull pads would be left in place, where feasible. Gravel work pads within NDDB areas and NEC Focus Areas would be revegetated with a CTDEEP approved native seed mixture. If an individual property owner requests restoration measures, the Project representatives will work with the property owner on mitigation options.

The approximate locations and configuration of the work pads, as determined based on the environmental field studies and constructability reviews, are shown on Attachment A.

Foundation and Direct-embed Installation

Structures will have either concrete or direct-embed foundations. The foundation installation work would require the use of equipment such as mechanical excavators (drill rigs), pneumatic hammers, augers, drill rigs, dump trucks, concrete trucks, grapple trucks and light duty trucks. If groundwater is encountered, pumping (vacuum) trucks or other suitable equipment would be used to pump water from the excavated areas. The water would then be discharged in accordance with applicable local, state and federal requirements.

Excavated soils that are generated during construction activities would be stored or spread in an upland area within the ROW, to the extent practicable, or disposed of in accordance with applicable regulations.

Structure Installation

Structure sections, structure components and hardware would be delivered to the individual structure locations using flat-bed trucks and assembled on-site using a crane, bucket trucks and excavator.

Depending on site-specific soil conductivity, supplemental grounding (counterpoise, in uplands only) would be installed. A quad "ditch-witch" plow-cable trencher, or equivalent/similar type of equipment, would be used to install the counterpoise after the proposed structures are constructed.

Conductor and OPGW Installation

The installation of the new conductors and OPGW would occur after the new structures have been erected. The equipment required for these activities would include conductor reels, compressors, conductor pulling and tensioning rigs, guard trucks or structures and bucket trucks. Helicopters may also be used to install the pulling lines for the conductors and OPGW. Conductor dead-ending and splicing will be accomplished with full tension compression hardware.

Structure, Conductor and Static Wire Removal

The existing structures, conductor and static wire will be removed in conjunction with the installation of the new weathering steel monopoles.

The removal of the existing conductor and shield wire would take place during the active installation of the new conductor and OPGW as the existing conductor and static wire would be used as pulling lines, where possible.

The existing structures would be removed after the existing conductor and static wire is removed.

Federal Aviation Administration (FAA)

Eversource filed a Notice of Proposed Construction or Alteration with the Federal Aviation Administration ("FAA") for the airports and heliport in the vicinity of the Project. Eversource has received a response from FAA stating "no hazard determination" for 113 structures and is waiting on a response on three structures as to whether marker balls or beacon lights will be required.

Restoration

After the t lines are re-energized and the existing structures are removed and, the remaining restoration of the ROW would begin and would include the removal of construction debris, signage, flagging, and temporary fencing, as well as the removal of construction mats, and pull pads and structure work pads that are designated for removal. Disturbed areas would be restored as practical and stabilized using revegetation or other measures before removing temporary E&S controls. Eversource has corresponded with the applicable property owners for the restoration of existing stone walls that would be impacted during construction.

Eversource would perform ROW restoration in accordance with the protocols specified in Eversource's BMPs and in consultation with affected property owners. Eversource is proposing to apply fine processed gravel and seed gravel work pads in NDDB areas following construction. Gravel work pads located in NEC focus areas will be reduced where feasible and restored using native seed mix to minimize potential effects to NEC habitat in accordance with Eversource's 2020 New England Cottontail Best Management Practices.

Waste Management

Waste materials, such as structure components (i.e., wood and steel from the removed structures, conductor, shield wire, associated hardware, etc.) and any other construction debris would be reclaimed through the Eversource investment recovery system and/or disposed of in accordance with Eversource's BMPs, applicable regulations or recycled consistent with applicable rules and regulations and Eversource policies. As described above, excess soils would be managed in accordance with applicable regulations and disposal facility policies. Dewatering during construction activities would be conducted in accordance with the *Connecticut Guidelines*, Eversource's BMPs and applicable regulations.

7. Construction Schedule and Work Hours

Construction work hours would typically be between 7:00 AM and 7:00 PM, six days per week (Monday through Saturday). Construction workers may arrive and leave the laydown area outside of these times. In addition, during winter, snow plowing and de-icing activities will typically commence, when necessary, prior to 7 AM to ensure a safe environment for construction personnel prior to the start of the workday.

On occasion, Sunday work hours are anticipated to be required from 9 AM to 6 PM. The Towns of Monroe, Shelton and abutters will be provided notice of the proposed Sunday work hours.

8. Electric and Magnetic Fields

Eversource prepared calculations of the existing and post-Project Electric and Magnetic fields ("EMF"). The calculations were based on average annual loading conditions, as these are most representative of typical operating conditions. The calculations are made relative to the centerline of the proposed, modified transmission lines.

Tables 3 and 4 summarize the calculated electric and magnetic fields at the ROW edges before and after the modifications.

Table 3 – Summary of Calculated Magnetic Fields (with Average Annual Loads)

Calculated Magnetic Fields (Average Annual Loads)				
Section	Left Edge of ROW	Max in ROW	Right Edge of ROW	
Pootatuck S/S-	Existing	13.2	15.5	9.2
Derby Jct	Proposed	6.9	19.2	4.2
Derby Jct-	Existing	14.1	22.2	17.2
Stevenson S/S	Proposed	6.5	19.2	4.4

Table 4 – Summary of Calculated Electric Fields

Calculated Electric Fields				
Section		Left Edge of ROW	Max in ROW	Right Edge of ROW
Pootatuck S/S-	Existing	0.46	1.89	0.73
Stevenson S/S	Proposed	0.26	2.27	0.15

The results of the calculations show that the proposed modifications would not substantially increase, but will actually decrease, electric or magnetic fields at the edges of the corridor. See Attachment F: EMF Graphs.

Comparison of Calculated Fields to International Guidelines

The anticipated fields from the proposed transmission lines are well below the internationally establish exposure limits for 60-Hz electric and magnetic fields, specifically, the limits identified by the International Council on Electromagnetic Safety ("ICES") and the International Council on Non-Ionizing Radiation Protection ("ICNIRP"). These standards are summarized below in Table 5.

Table 5 - International Guidelines for EMF Exposure

	EF (kV/m)	MF(mG)
ICES	5	9,040
ICNIRP	4.2	2000

9. Municipal and Property Owner Outreach

Eversource consulted with the City of Shelton in December 2021 and with the Town of Monroe in February 2022 to provide an initial briefing of the proposed Project. In addition to providing a written notice of the Petition filing in May 2022, Eversource will continue to communicate with municipal officials throughout the project planning process.

Eversource consulted with the Connecticut Forest and Park Association (CFPA), Shelton Trails Committee, and Monroe Parks and Recreation Department to review the proposed Project where public recreation areas and trails cross the ROW. Eversource will provide preconstruction notifications to the trail stakeholders and continue to coordinate throughout construction and restoration of affected areas and assist with additional community outreach or posting of advisory signage where needed. In particular, the Shelton Trails Committee raised concerns with temporary and permanent Project impacts associated with the construction and improvement of access roads, work pads, and new structure locations along

public trail systems that cross the ROW. Eversource initially met with the Trails Committee in April 2022 to provide an overview of the proposed project and review preliminary project mapping. In May 2022, a follow up on-site meeting was held with the Trails Committee to review the proposed work areas of concern in the field and evaluate potential mitigation and restoration measures. Eversource will continue to communicate with the Trails Committee throughout the project planning, construction, and restoration phases of the project.

Eversource initiated outreach to property owners in early 2021. Beginning in Fall 2021, Eversource conducted door-to-door outreach to property owners located along the ROW. In conjunction with the submission of this Petition, all abutting property owners were notified of the filing and provided details on how to obtain additional information on the Project, as well as how to submit comments to the Council. Several abutting property owners expressed concerns with the location of replacement structures and new mid-span structures. Eversource will continue to work with affected property owners to address their concerns and provide reasonable mitigation options when feasible.

Eversource representatives will continue to be in contact with abutting property owners to provide advance notification of start of construction activities and will update property owners throughout the phases of construction and restoration.

10. Conclusion

Based on the foregoing, Eversource respectfully submits that the proposed modifications would not result in a substantial adverse effect on the environment, nor would they damage existing scenic, historical or recreational values. Accordingly, Eversource requests that the Council issue a declaratory ruling that the proposed modifications would have no substantial adverse environmental effect.

Communications regarding this Petition for a Declaratory Ruling should be directed to:

Kathleen M. Shanley Manager – Transmission Siting Eversource Energy

PO Box 270

Hartford, CT 06141-0270 Telephone: (860) 728-4527

By:

Kathleen M. Shanley

List of Attachments

Attachment A: Stevenson to Pootatuck Rebuild Project – Aerial Maps

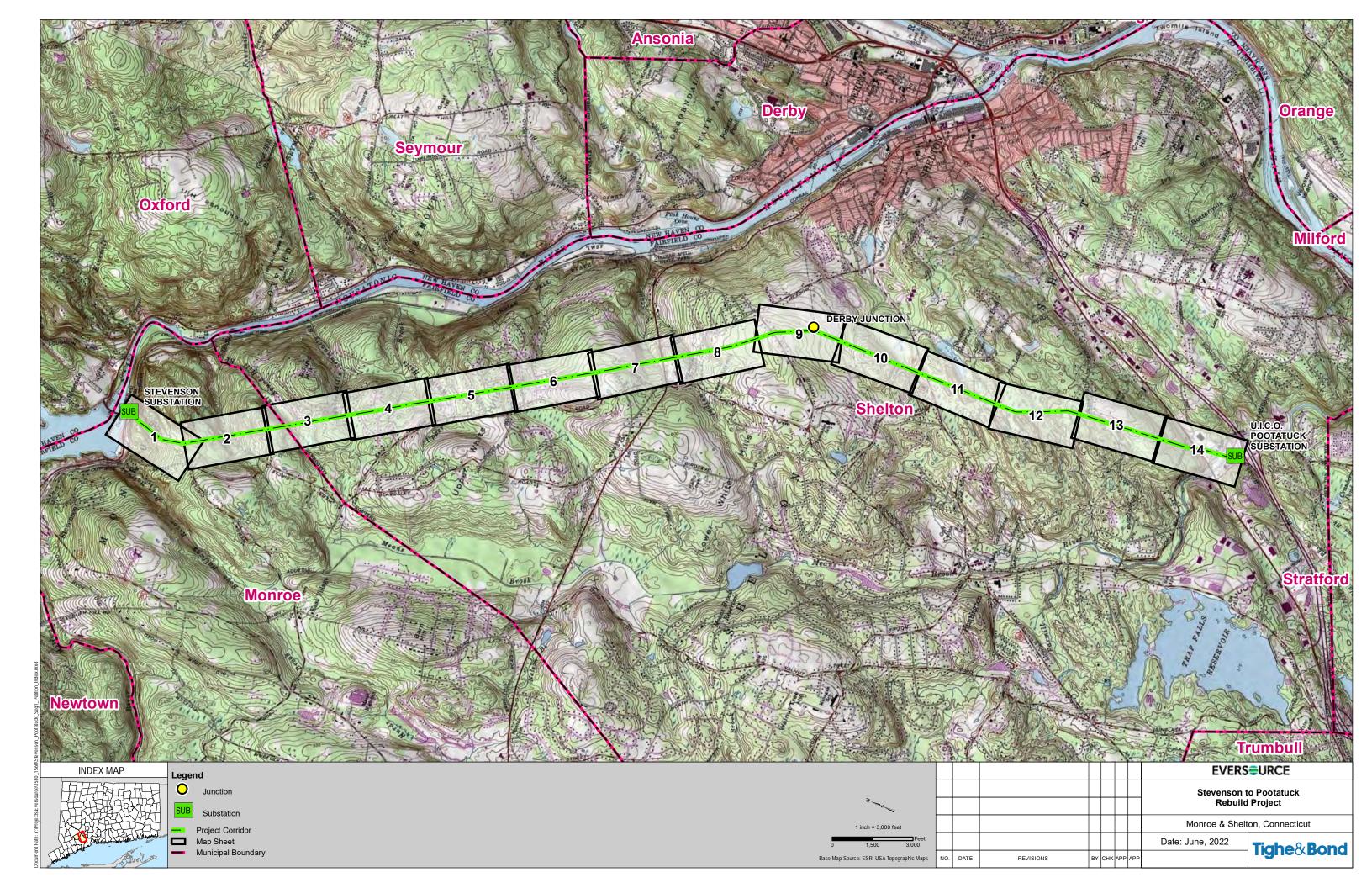
Attachment B: Stevenson to Pootatuck Rebuild Project – Right-of-Way Cross Section

Attachment C: List of Structure Replacements Attachment D: Wetlands Delineation Report

Attachment E: Vernal Pool Survey Attachment F: EMF Graphs and Tables

Attachment G: Letter to the Abutters and Affidavit

Attachment A: Stevenson to Pootatuck Rebuild Project – Aerial Maps



Mapsheet 1 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 1397, 202A, 203, 204, 205, 206

1560 Line: 201

1560/1808 Line: 202, 1396, 1395, 1394, 1393

Town of Monroe, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Eversource-owned property
- NE Cottontail Focus Area
- Natural Diversity Database Area (December 2021)
- Hiking Trails Paugussett and Spur Trails
- Undeveloped, forest
- Maintained ROW
- Residential
- Open Space Webb Mountain Park (LL200A-330)
- 100-Year Flood Zone and Floodway
- Lake Zoar
- Housatonic River
- Housatonic Railroad

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Eversource-owned property
- NE Cottontail Focus Area
- Natural Diversity Database Area (December 2021)
- Hiking Tail Paugussett Trail
- Open Space Webb Mountain Park (LL200A-330)
- Open Water
- 100-Year Flood Zone and Floodway
- Housatonic River
- Maintained ROW
- Housatonic Railroad

Water Resources

- Wetland W1
- Wetland Cover Types Herbaceous, Forest
- Watercourses S1 (Housatonic River), S2
- Vernal Pools None

Wetland and Watercourse Crossings

• S2 – stone ford construction

Right-of-Way Vegetation

- Scrub-shrub
- Herbaceous

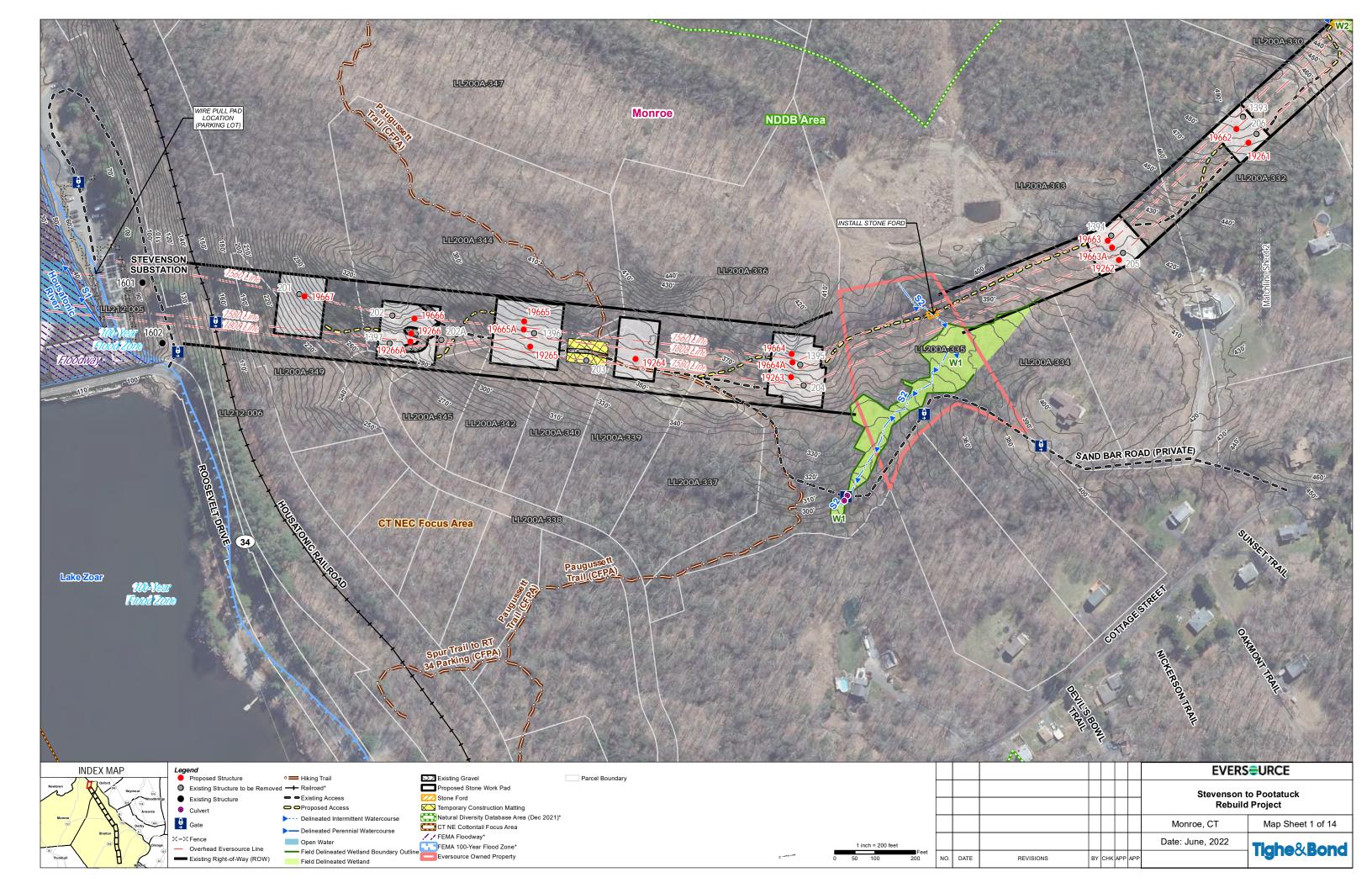
Access

• Structures 201, 202, 203, 1397, 202A, 1396, 1395, 204, 1394, 205, 1393, 206: access from Cottage Street/Sand Bar Road

Road Crossings

• None

	T	Ι .	ı	
<u>LLN</u>	Parcel Address	<u>City</u>	<u>State</u>	Owner Name
200A-330	246 WEBB CIR	MONROE	CT	MONROE TOWN OF (OPEN SPACE)
200A-332	248 WEBB CIR	MONROE	СТ	BRIAN COLIN CAMPBELL
200A-333	16 SAND BAR RD	MONROE	СТ	HUNDRED ACRE WOOD LLC
200A-334	22 SAND BAR RD	MONROE	СТ	JULIE DINH
200A-335	34 SAND BAR RD	MONROE	СТ	THE CONNECTICUT LIGHT and POWER COMPANY
200A-336	40 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-337	8 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-338	84 COTTAGE ST	MONROE	СТ	COTTAGE STREET LLC
200A-339	14 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-340	20 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-342	26 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-344	50 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-345	32 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-347	49 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
200A-349	41 MOUNTAIN LAUREL DR	MONROE	СТ	COTTAGE STREET LLC
212-005	1 ROOSEVELT DR	MONROE	СТ	FIRSTLIGHT CT HOUSATONIC LLC
212-006	00 SHELTON TO NEWTOWN T/L	MONROE	СТ	MAYBROOK RAILROAD CO INC



Mapsheet 2 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 206, 207, 208, 209

1560/1808 Line: 1393, 1392, 1391, 1390

Access to Proposed mid-span Structures: 19660 (1560), 19660A (1808), 19259 (1580)

Town of Monroe, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- NE Cottontail Focus Area
- Natural Diversity Database Area (December 2021)
- Hiking Trail Red Trail
- Undeveloped, forest
- Open Space Webb Mountain Park (LL200A-330, LL200A-328, LL200A-327, LL200A-326, LL200A-323)
- Residential

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- NE Cottontail Focus Area
- Natural Diversity Database Area (December 2021)
- Open Space Webb Mountain Park (LL200A-330, LL200A-328, LL200A-327, LL200A-326, LL200A-323)
- Maintained ROW
- Hiking Trail Red Trail

Water Resources

- Wetland W2, W3, W4, W5
- Wetland Cover Types Scrub-shrub, Herbaceous
- Watercourses S3, S4, S5
- Vernal Pools None

Wetland and Watercourse Crossings

- W2, S3 stone ford construction
- W4, S4 construction mats for access road
- W5 construction mats for access road

Right-of-Way Vegetation

- Scrub-shrub
- Herbaceous

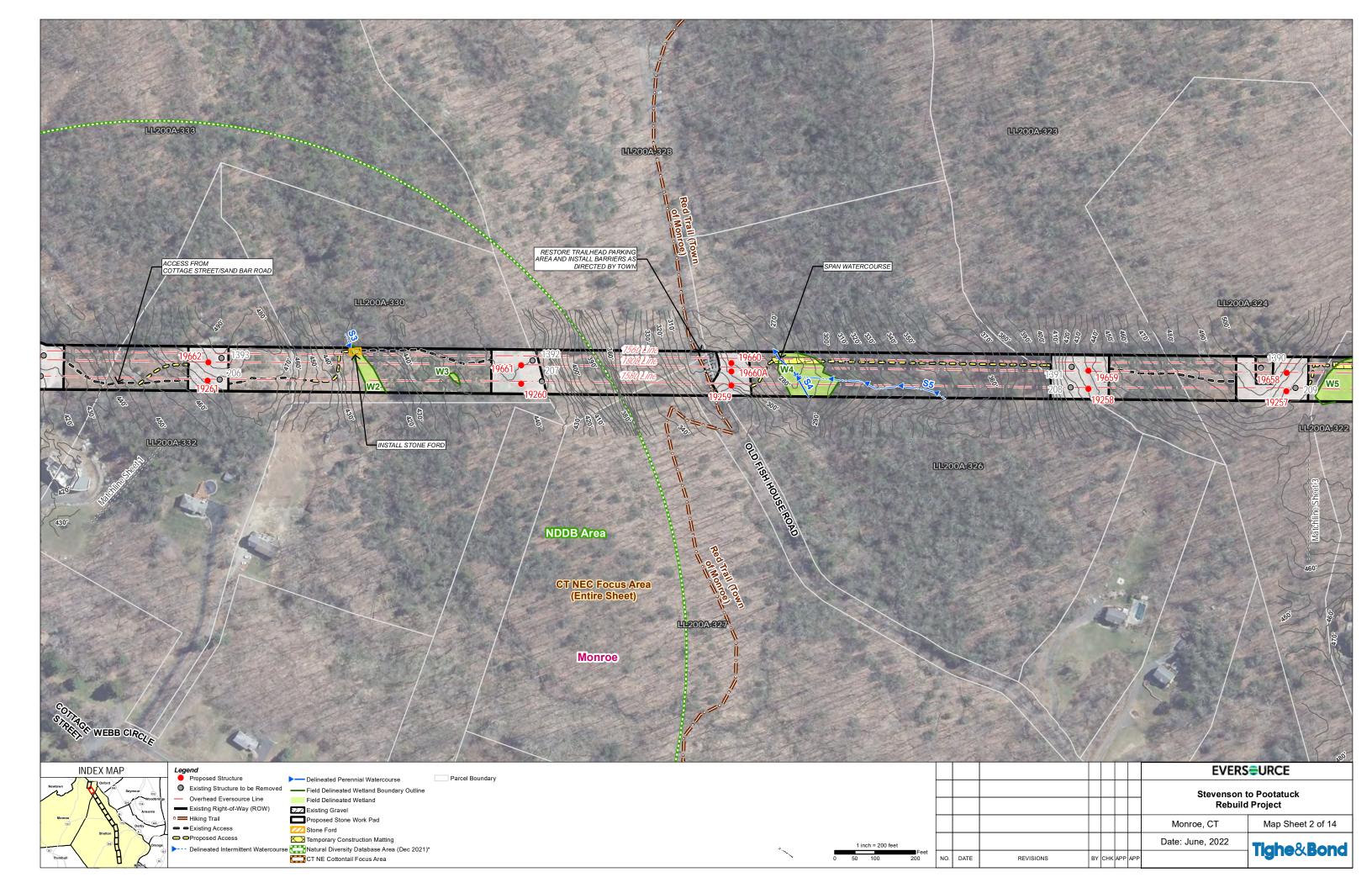
Access

- Structures 206, 1393, 1392, 207: access from Cottage Street/Sand Bar Road
- Structures 1391, 208, 1390, and 209: access from Old Fish House Road
- Proposed mid-span structures 19660, 19660A, 19259: access from Old Fish House Road

Road Crossings

• Old Fish House Road

LLN	Parcel Address	City	State	Owner Name
200A-322	116 WEBB CIR	MONROE	CT	KELLY L FITCH
200A-323	80 OLD FISH HOUSE RD	MONROE	СТ	MONROE TOWN OF (OPEN SPACE)
200A-324	120 WEBB CIR	MONROE	CT	FICHTEL BROTHERS DEVEL CO INC
200A-326	44 OLD FISH HOUSE RD	MONROE	CT	MONROE TOWN OF (OPEN SPACE)
200A-327	156 WEBB CIR	MONROE	CT	MONROE TOWN OF (OPEN SPACE)
200A-328	90 OLD FISH HOUSE RD	MONROE	CT	MONROE TOWN OF (WEBB MTN)
200A-330	246 WEBB CIR	MONROE	CT	MONROE TOWN OF (OPEN SPACE)
200A-332	248 WEBB CIR	MONROE	CT	BRIAN COLIN CAMPBELL
200A-333	16 SAND BAR RD	MONROE	СТ	HUNDRED ACRE WOOD LLC



Mapsheet 3 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 209, 210, 211, 212, 213

1560/1808 Line: 1389, 1388, 1387

Access to Proposed mid-span Structures: 19656, 19652 (1560/1808), 19655 (1560),

19655A (1808), 19255, 19254

Town of Monroe and City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Open Space, Webb Mountain Park (LL200A-323)
- Residential
- Undeveloped, forest
- NE Cottontail Focus Area
- Maintained ROW

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- NE Cottontail Focus Area
- Maintained ROW
- Open Space, Webb Mountain Park (LL200A-323)
- Residential

Water Resources

- Wetland W5, W6, W7, W8
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses S6, S7 (White Hills Community Brook)
- Vernal Pools None

Wetland and Watercourse Crossings

- W5 construction mats for access road
- W7 construction mats for access road
- W8 construction mats for work pad

Right-of-Way Vegetation

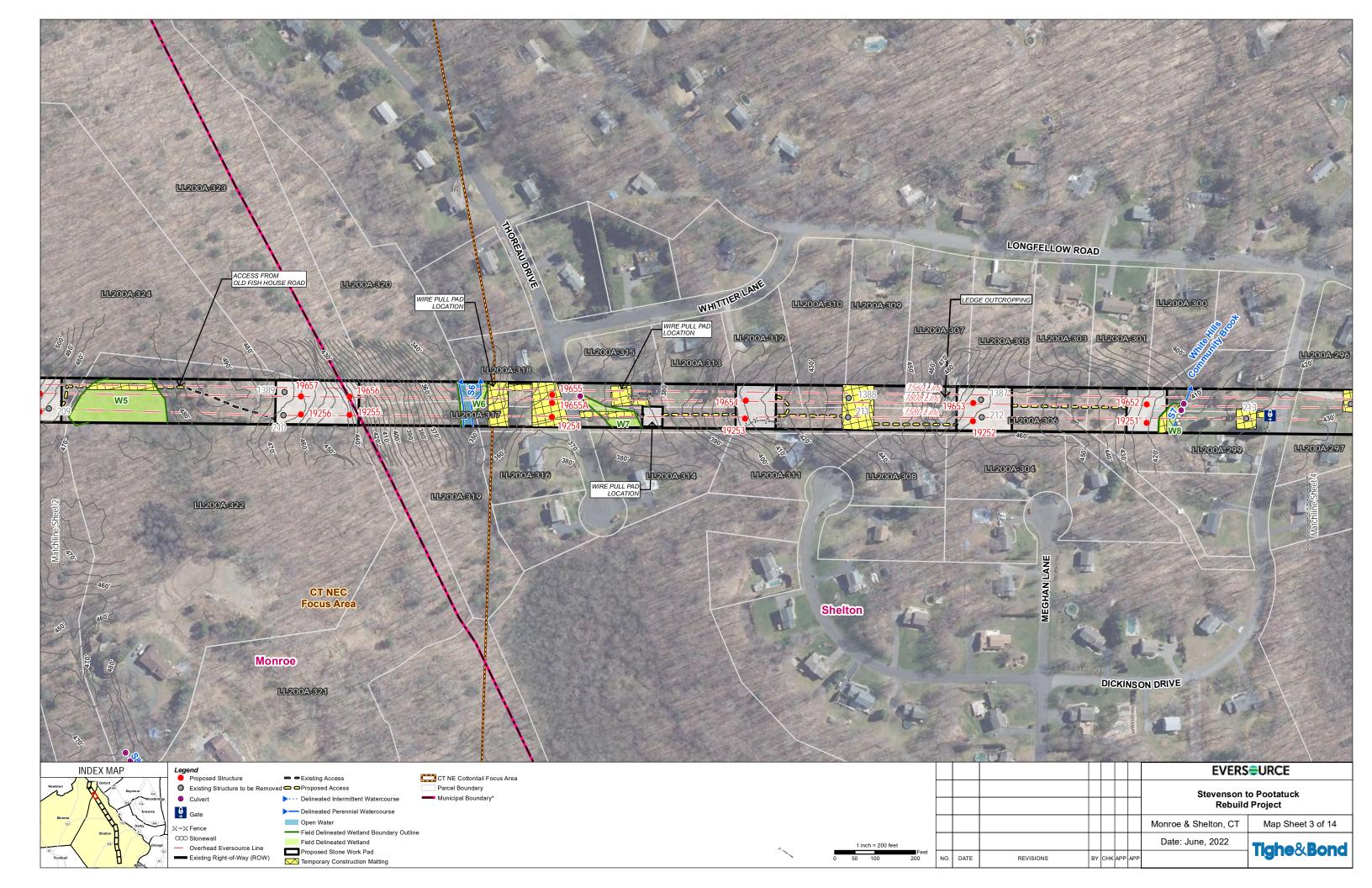
- Scrub-shrub
- Herbaceous
- Residential, Maintained grass

Access

- Structures 209, 1389, 1390, 210: access from Old Fish House Road
- Structures 1388, 211, 1387, 212: access from Thoreau Drive
- Structures 213: access from Dickinson Drive
- Access to Proposed mid-span Structures 19656, 19255: access from Old Fish House Road; 19655, 19655A, 19254, 19652: access from Thoreau Drive

- Thoreau Drive
- Dickinson Drive

LLN	Parcel Address	<u>City</u>	<u>State</u>	Owner Name
200A-296	148 DICKINSON DR	SHELTON	CT	DAVID R WELLS
200A-297	152 DICKINSON DR	SHELTON	CT	JEFFERY MASCIOLA
200A-298	153 DICKINSON DR	SHELTON	CT	PETER W HIBYAN
200A-299	157 DICKINSON DR	SHELTON	СТ	BARBARA J FLANNERY
200A-300	70 LONGFELLOW RD	SHELTON	CT	ELSIE M BORTNICK
200A-301	76 LONGFELLOW RD	SHELTON	CT	JOSEPH T MCCORRY
200A-303	76 LONGFELLOW RD	SHELTON	СТ	FRANK BLEFARI
200A-304	34 MEGHAN LN	SHELTON	CT	J ROGER KRUSKY
200A-305	84 LONGFELLOW RD	SHELTON	CT	RALPH J JR FRANCO
200A-306	0 THOREAU DR	SHELTON	CT	SHELTON CITY OF
200A-307	88 LONGFELLOW RD	SHELTON	СТ	CLAUDIA MOLINARI
200A-308	207 DICKINSON DR	SHELTON	CT	WILLIAM G DISTASSIO
200A-309	92 LONGFELLOW RD	SHELTON	CT	MICHAEL J KONECNY
200A-310	2 WHITTIER LN	SHELTON	CT	JEFFREY HAYNES
200A-311	206 DICKINSON DR	SHELTON	CT	MIGUEL A JR RACHEL V BRACERO
200A-312	6 WHITTIER LN	SHELTON	CT	DAVID C III & BARBARA J WIGGIN
200A-313	10 WHITTIER LN	SHELTON	СТ	JEFFREY W GYDUS
200A-314	93 THOREAU DR	SHELTON	СТ	CARMEN R TESTI
200A-315	14 WHITTIER LN	SHELTON	СТ	NICHOLAS JONES
200A-316	96 THOREAU DR	SHELTON	СТ	JAMES B MOSHER
200A-317	0 THOREAU DR	SHELTON	СТ	SHELTON CITY OF
200A-318	100 THOREAU DR	SHELTON	СТ	ORTEGA JR ORTEGA
200A-319	0 EAST VILLAGE RD	SHELTON	СТ	SILVEIRA ANTONIO
200A-320	0 EAST VILLAGE RD	SHELTON	СТ	MONROE TOWN OF
200A-321	112 WEBB CIR	MONROE	СТ	ANTONIO SILVEIRA
200A-322	116 WEBB CIR	MONROE	СТ	KELLY L FITCH
200A-323	80 OLD FISH HOUSE RD	MONROE	СТ	MONROE TOWN OF (OPEN SPACE)
200A-324	120 WEBB CIR	MONROE	СТ	FICHTEL BROTHERS DEVEL CO INC



Mapsheet 4 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 214, 215, 216, 217

1560/1808 Line: 1386, 1385, 1384, 1383

Access to Proposed mid-span Structures: 19647 (1560/1808), 19246 (1580)

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Undeveloped, forest
- Maintained ROW

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Maintained ROW
- Residential

Water Resources

- Wetland W9, W10, W11
- Wetland Cover Types Scrub-Shrub, Herbaceous, Forest
- Watercourses S8, S9
- Vernal Pools None

Wetland and Watercourse Crossings

- W9 construction mats for work pad
- W10, S8 construction mats for access road
- W11, S9 construction mats for word pad and access road

Right-of-Way Vegetation

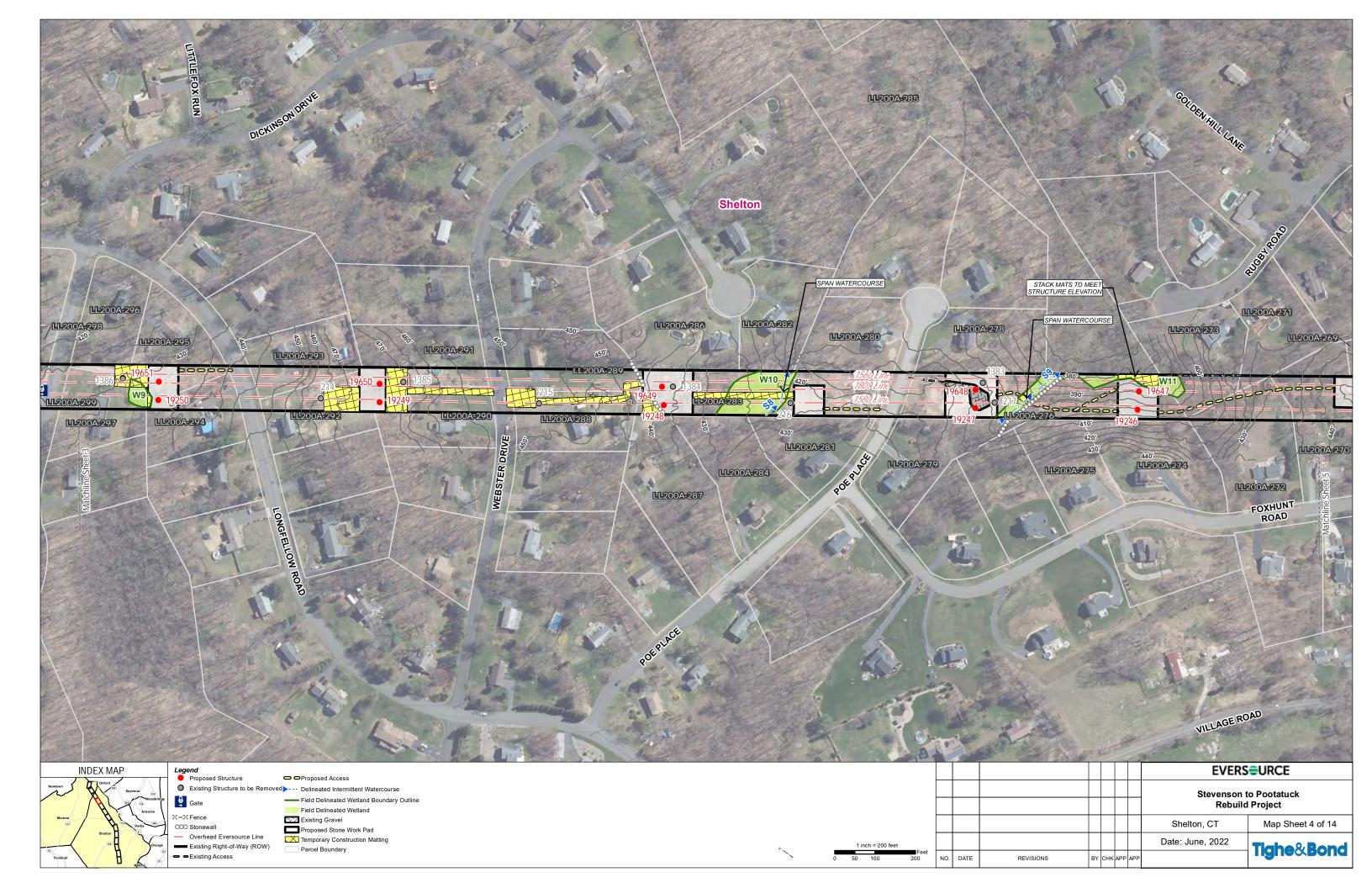
- Scrub-shrub
- Herbaceous
- Residential, Maintained grass

Access

- Structure 1386: access from Longfellow Road
- Structures 214 and 1385: access from Webster Drive
- Structures 215 and 1384: access from Webster Drive/Poe Place
- Structures 216: access from Poe Place
- Structures 217, and 1383: access from Poe Place
- Proposed mid-span Structures 19647 (1560/1808), 19246 (1580): access from Poe Place

- Longfellow Road
- Webster Drive
- Poe Place

<u>LLN</u>	Parcel Address	City	<u>State</u>	Owner Name
200A-270	21 FOX HUNT RD	SHELTON	CT	BRIAN J GAGNER
200A-271	92 RUGBY RD	SHELTON	СТ	NICHOLAS and REBECCA VERDICCHIO
200A-272	25 FOX HUNT RD	SHELTON	CT	CHRISTOPHER STUBBS
200A-273	100 RUGBY RD	SHELTON	СТ	DANIEL W CORRA
200A-274	29 FOX HUNT RD	SHELTON	CT	GRACE S KWEON
200A-275	33 FOX HUNT RD	SHELTON	CT	SILVINO RIO
200A-276	0 POE PL	SHELTON	CT	SHELTON CITY OF
200A-278	25 POE PL	SHELTON	CT	JEFFREY FRANK SPENCE
200A-279	21 POE PL	SHELTON	СТ	DAMIAN S GUELAKIS
200A-280	24 POE PL	SHELTON	СТ	SAMUEL AFERI SAFO
200A-281	20 POE PL	SHELTON	CT	DANIEL F SAMMATARO
200A-282	89 DICKINSON DR	SHELTON	СТ	JASON P KLEIN
200A-283	0 POE PL	SHELTON	CT	SHELTON CITY OF
200A-284	16 POE PL	SHELTON	CT	MICHAEL J KANIOS
200A-285	0 OKENUCK WAY	SHELTON	CT	SHELTON CITY OF
200A-286	90 DICKINSON DR	SHELTON	CT	MICHELLE KANNLER
200A-287	12 POE PL	SHELTON	CT	CRAIG KUPSON
200A-288	33 WEBSTER DR	SHELTON	CT	YURIY DMYTRENKO
200A-289	37 WEBSTER DR	SHELTON	CT	CARL SICINSKI
200A-290	32 WEBSTER DR	SHELTON	CT	NICHOLAS TURRO
200A-291	36 WEBSTER DR	SHELTON	CT	BRETT ROBERT FORTE
200A-292	45 LONGFELLOW RD	SHELTON	СТ	STEVEN T BISTYGA
200A-293	49 LONGFELLOW RD	SHELTON	CT	MATTHEW R CORCHARD
200A-294	46 LONGFELLOW RD	SHELTON	CT	CONSTANCE KOCH
200A-295	52 LONGFELLOW RD	SHELTON	CT	MARIA A RAMOS
200A-296	148 DICKINSON DR	SHELTON	CT	DAVID R WELLS
200A-297	152 DICKINSON DR	SHELTON	CT	JEFFERY MASCIOLA
200A-298	153 DICKINSON DR	SHELTON	СТ	PETER W HIBYAN



Mapsheet 5 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 218, 219, 220, 221

1560/1808 Line: 1382, 1381, 1380, 1379

Access to Proposed mid-span Structures: 19645 (1560), 19645A (1808), 19244 (1580)

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Maintained ROW
- Undeveloped Forest
- Trap Falls Reservoir System Watershed

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Maintained ROW

Water Resources

- Wetland W12, W13
- Wetland Cover Types Scrub-shrub, Herbaceous
- Watercourses S10 (Upper White Hills Brook), S11, S12
- Vernal Pools None

Wetland and Watercourse Crossings

• W12, S10 – construction mats for wire pull pad and access road

Right-of-Way Vegetation

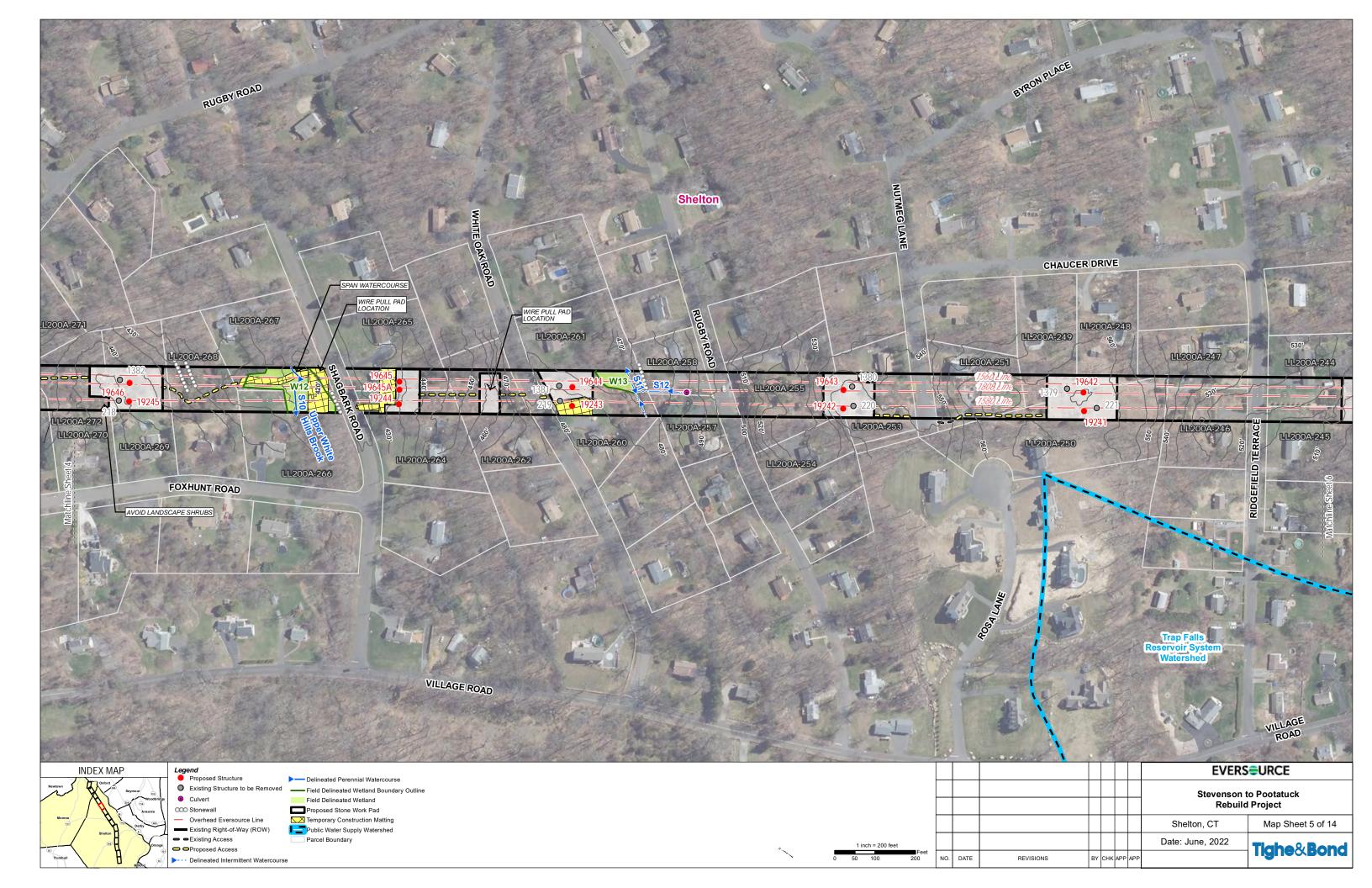
- Scrub-shrub
- Residential, Maintained grass

Access

- Structures 218 and 1382: access from Shagbark Road/Poe Place
- Structures 219 and 1381: access from White Oak Road
- Structures 220 and 1380: access from Nutmeg Lane
- Structure 221 and 1379: access from Nutmeg Lane
- Proposed mid-span Structures 19645 (1560), 19645A (1808), 19244 (1580): access from Shagbark Road/White Oak Road

- Shagbark Road
- White Oak Road
- Rugby Road
- Nutmeg Lane
- Ridgefield Terrace

LLN	Parcel Address	City	State	Owner Name
200A-244	27 RIDGEFIELD TERR	SHELTON	СТ	MICHAEL E GRABOWSKI
200A-245	23 RIDGEFIELD TERR	SHELTON	СТ	GAIL F PICHE
200A-246	22 RIDGEFIELD TERR	SHELTON	СТ	AARON TORRES
200A-247	26 RIDGEFIELD TERR	SHELTON	СТ	ZYGMUNT MYSLIWIEC
200A-248	6 CHAUCER DR	SHELTON	СТ	ANGEL LUIS LUGO RAMOS
200A-249	10 CHAUCER DR	SHELTON	СТ	LORIANNE MEUS
200A-250	23 ROSA LN	SHELTON	СТ	JAMES AND CAITLIN ALMEIDA
200A-251	21 NUTMEG LN	SHELTON	СТ	WILLIAM F KULLBERG
200A-253	22 NUTMEG LN	SHELTON	СТ	MIRCI LORENZO RAMIREZ
200A-254	27 RUGBY RD	SHELTON	СТ	VINCENT CINELLI
200A-255	29 RUGBY RD	SHELTON	СТ	BOGDAN VASILESCU
200A-257	28 RUGBY RD	SHELTON	СТ	BRIAN LAMPART
200A-258	32 RUGBY RD	SHELTON	СТ	DAVID A HILLMANN
200A-260	14 WHITE OAK RD	SHELTON	СТ	THEODORE J HUMINSKI
200A-261	18 WHITE OAK RD	SHELTON	СТ	STEVEN W KRYGOWSKI
200A-262	13 WHITE OAK RD	SHELTON	СТ	PAULA S BOVE
200A-264	11 SHAGBARK RD	SHELTON	СТ	THOMAS M COPPOLA
200A-265	15 SHAGBARK RD	SHELTON	СТ	HENRYK KIREJCZYK
200A-266	3 FOX HUNT RD	SHELTON	СТ	CLARENCE BASTARACHE
200A-267	16 SHAGBARK RD	SHELTON	СТ	STANLEY J SZERSZEN
200A-268	15 FOX HUNT RD	SHELTON	СТ	JOEL A HOREN
200A-269	17 FOX HUNT RD	SHELTON	СТ	JAMES MELITA
200A-270	21 FOX HUNT RD	SHELTON	СТ	BRIAN J GAGNER
200A-271	92 RUGBY RD	SHELTON	СТ	NICHOLAS and REBECCA VERDICCHIO
200A-272	25 FOX HUNT RD	SHELTON	СТ	CHRISTOPHER STUBBS



Mapsheet 6 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 222, 223, 224, 225, 226

1560/1808 Line: 1378, 1377, 1376, 1375, 1374

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Open Space Frenches Hill Greenway (LL200A-226)
- Natural Diversity Database Area (December 2021)
- Residential
- Agriculture
- Undeveloped, forest
- Maintained ROW
- Trap Falls Reservoir System Watershed

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Open Space Frenches Hill Greenway (LL200A-226)
- Residential
- Agricultural, pasture
- Maintained ROW

Water Resources

- Wetland W14, W15, W16
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses S13, S14, S15
- Vernal Pools None

Wetland and Watercourse Crossings

- W14 construction mats for work pad
- W16, S15 construction mats for work pad, wire pull pad, and access road

Right-of-Way Vegetation

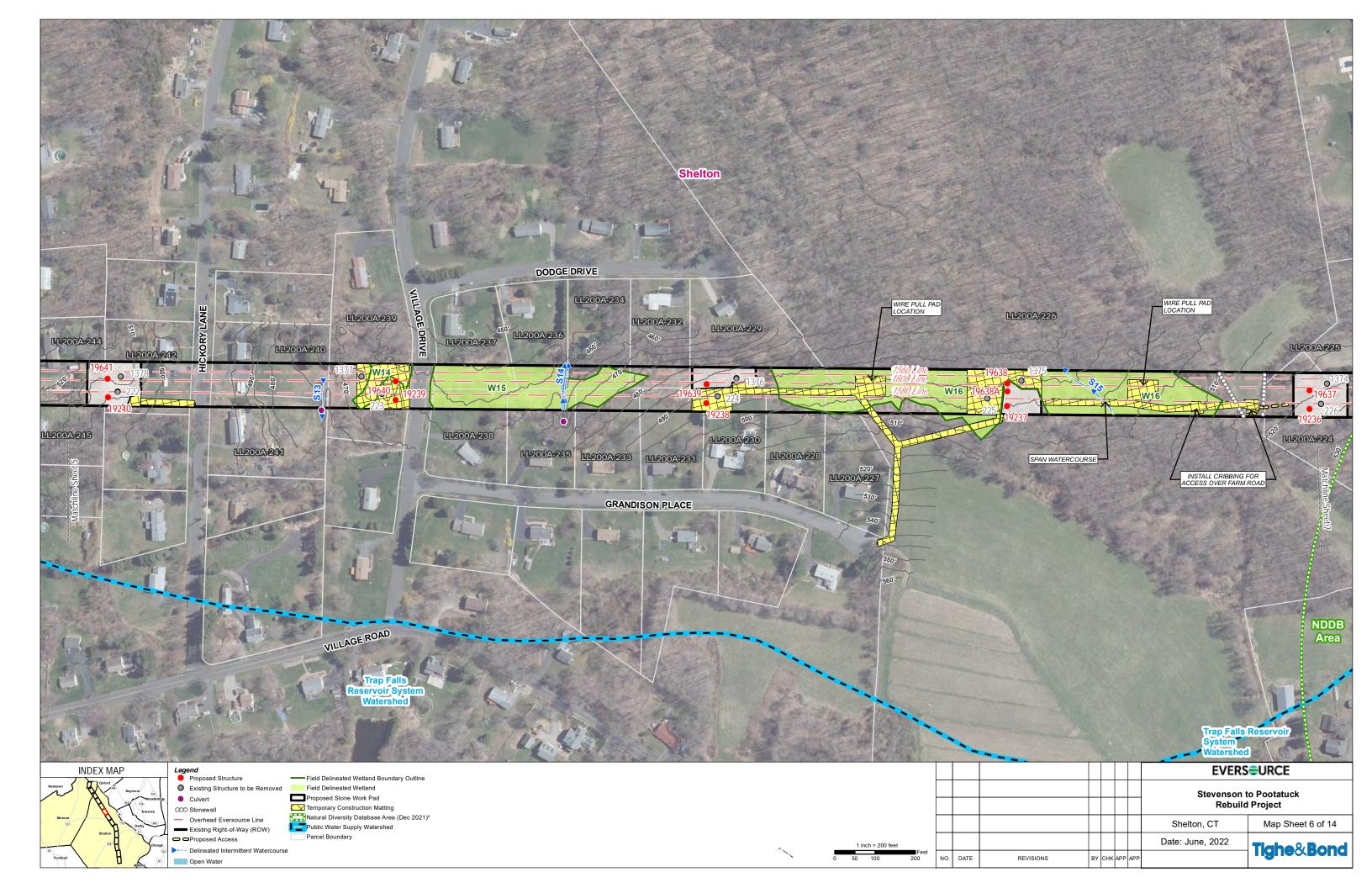
- Scrub-shrub
- Herbaceous
- Agricultural, pasture
- Residential, Maintained grass
- Residential

Access

- Structures 222 and 1378: access from Hickory Lane
- Structures 223 and 1377: access from Village Drive
- Structures 224, 1376, 225, 1375, 226, and 1374: access from Grandison Place

- Hickory Lane
- Village Drive

LLN	Parcel Address	City	State	Owner Name
200A-224	0 EAST VILLAGE RD	SHELTON	CT	SHELTON CITY OF
200A-225	71 SACHEM DR	SHELTON	СТ	VON HAFFTEN POOLE SEBELLE H
200A-226	0 EAST VILLAGE RD	SHELTON	СТ	SHELTON CITY OF
200A-227	26 GRANDISON PL	SHELTON	СТ	KENNETH C LIBBY
200A-228	22 GRANDISON PL	SHELTON	СТ	WLADYSLAW and OKSANA GEBUZA
200A-229	19 DODGE DR	SHELTON	СТ	DAVID A TEIXEIRA
200A-230	18 GRANDISON PL	SHELTON	СТ	ROSANGELA CRISTINO
200A-231	14 GRANDISON PL	SHELTON	СТ	DANIEL S FENGLER
200A-232	15 DODGE DR	SHELTON	СТ	FRANCIS E JR WHEELER
200A-233	10 GRANDISON PL	SHELTON	СТ	PETER ALBA
200A-234	11 DODGE DR	SHELTON	СТ	DONALD M DICICCO
200A-235	6 GRANDISON PL	SHELTON	СТ	ALAN G VALENTI
200A-236	7 DODGE DR	SHELTON	СТ	ADRIANO COUTINHO
200A-237	19 VILLAGE DR	SHELTON	СТ	ALFRED J JR JUBENVILLE
200A-238	15 VILLAGE DR	SHELTON	СТ	LAUREN M TRSTEE SIEROCKI
200A-239	22 VILLAGE DR	SHELTON	СТ	JOHN C WHITE
200A-240	11 HICKORY LN	SHELTON	СТ	JAY R MONAHAN
200A-241	7 HICKORY LN	SHELTON	СТ	LISA A EST INFANTE
200A-242	10 HICKORY LN	SHELTON	СТ	MARILYN LEENEY
200A-244	27 RIDGEFIELD TERR	SHELTON	СТ	MICHAEL E GRABOWSKI
200A-245	23 RIDGEFIELD TERR	SHELTON	СТ	GAIL F PICHE



Mapsheet 7 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 226, 227, 228, 229

1560/1808 Line: 1374, 1373, 1372, 1371

Access to Proposed mid-span Structures: 19634 (1560/1808), 19233 (1580)

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Open Space (LL200A-213), Frenches Hill Greenway (LL200A-226)
- Residential
- Commercial
- Undeveloped, forest
- Agriculture, pasture, crops
- Maintained ROW
- Natural Diversity Database Area (December 2021)
- Trap Falls Reservoir System Watershed

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Open Space (LL200A-213), Frenches Hill Greenway (LL200A-226)
- Agriculture, pasture, crops
- Maintained ROW
- Natural Diversity Database Area (December 2021)

Water Resources

- Wetland W17, W18
- Wetland Cover Types Scrub-shrub, Herbaceous
- Watercourses S16, S17, S18
- Vernal Pools None

Wetland and Watercourse Crossings

None

Right-of-Way Vegetation

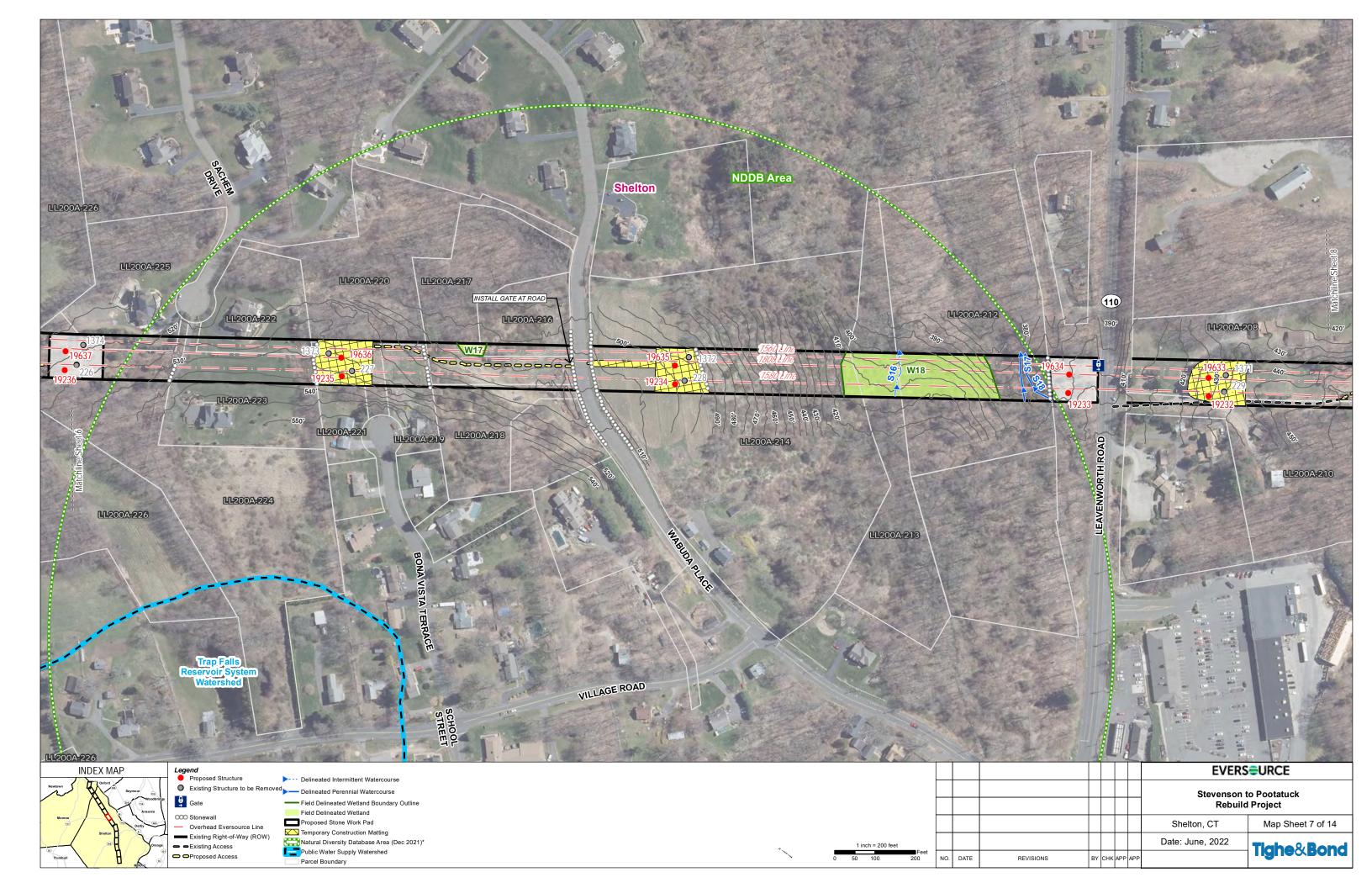
- Scrub-shrub
- Herbaceous
- Agriculture, crops
- Residential, Maintained grass

Access

- Structures 226 and 1374: access from Grandison Place
- Structures 227, and 1373: access from Wabuda Place
- Structures 228, and 1372: access from Wabuda Place
- Structures 229 and 1371: access from Leavenworth Road
- Proposed mid-span Structures: 19634, 19233: access from Leavenworth Road

- Wabuda Place
- Leavenworth Road (CT Route 110)

LLN	Parcel Address	City	State	Owner Name
200A-208	180 LEAVENWORTH RD	SHELTON	CT	JAQUELINE ALVES COSTA
200A-210	190 LEAVENWORTH RD	SHELTON	СТ	LILYROSED LLC
200A-212	187 LEAVENWORTH RD	SHELTON	CT	BLAKEMAN CONSTRUCTION LLC
200A-213	0 LEAVENWORTH RD	SHELTON	СТ	SHELTON CITY OF
200A-214	7 WABUDA PL	SHELTON	СТ	WABUDA FAMILY HOLDINGS LLC
200A-216	26 WABUDA PL	SHELTON	СТ	SCOTT WASILEWSKI
200A-217	0 WABUDA PL	SHELTON	СТ	SCOTT WASILEWSKI
200A-218	20 WABUDA PL	SHELTON	СТ	SCOTT WASILEWSKI
200A-219	13 BONA VISTA TERR	SHELTON	CT	HENRY L JR REZNIK
200A-220	60 SACHEM DR	SHELTON	CT	KATE L KIELEY
200A-221	14 BONA VISTA TERR	SHELTON	CT	KENNETH E WARREN
200A-222	70 SACHEM DR	SHELTON	СТ	JONATHAN A WETMORE
200A-223	74 SACHEM DR	SHELTON	CT	ANNJERRY GARCIA
200A-224	0 EAST VILLAGE RD	SHELTON	СТ	SHELTON CITY OF
200A-225	71 SACHEM DR	SHELTON	CT	VON HAFFTEN POOLE SEBELLE H
200A-226	0 EAST VILLAGE RD	SHELTON	СТ	SHELTON CITY OF



Mapsheet 8 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 230, 231, 232, 233

1560/1808 Line: 1370, 1369, 1368, 1367

Access to Proposed mid-span Structures: 19631, 19628 (1560/1808), 19230, 19227

(1580)

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Open Space (LL200A-193, LL200A-190, LL200A-184)
- Undeveloped, forest
- Maintained ROW

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Open Space (LL200A-193, LL200A-190, LL200A-184)
- Undeveloped
- Maintained ROW

Water Resources

- Wetland W19, W20
- Wetland Cover Types Scrub-Shrub
- Watercourses S19 (Indian Hole Brook)
- Vernal Pools None

Wetland and Watercourse Crossings

- W19 construction mats for work pad
- W20 –access road

Right-of-Way Vegetation

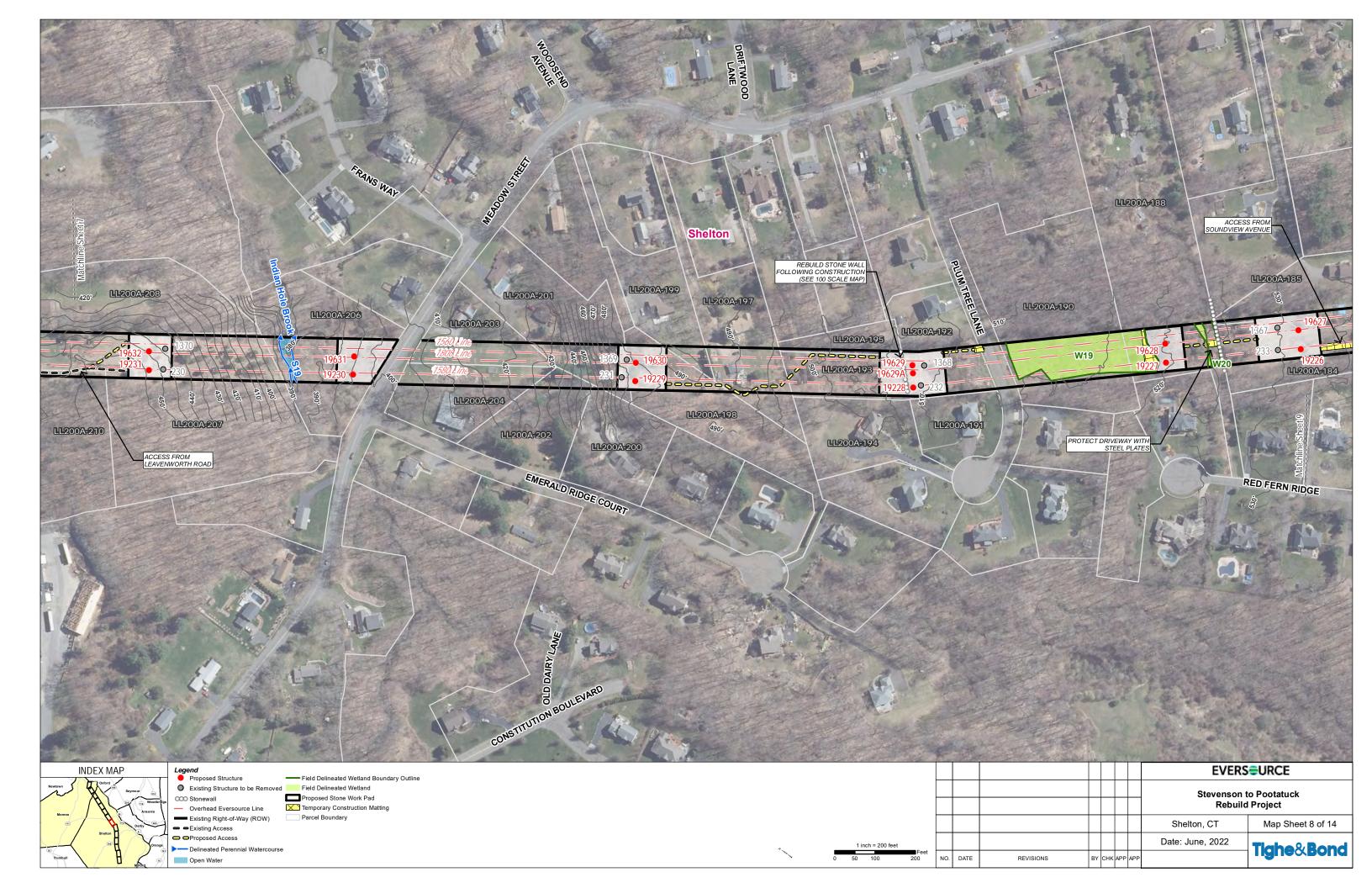
- Scrub-shrub
- Residential, Maintained grass

Access

- Structures 230 and 1370: access from Leavenworth Road
- Structures 231, 1369, 232, and 1368: access from Plum Tree Lane
- Structures 233, and 1367: access from Soundview Avenue
- Proposed mid-span Structures: 19631 (1560/1808), 19230 (1580): access from Meadow Street; 19628 (1560/1808), 19227 (1580): access from Soundview Avenue

- Meadow Street
- Plum Tree Lane

LLN	Parcel Address	City	State	Owner Name
200A-184	0 SOUNDVIEW AVE	SHELTON	СТ	SHELTON CITY OF
200A-185	230 MEADOW ST	SHELTON	CT	MALY SHEKLOW
200A-188	240 MEADOW ST	SHELTON	СТ	ELLIOT J JR WILSON
200A-190	0 PLUM TREE LN	SHELTON	СТ	SHELTON CITY OF
200A-191	11 PLUM TREE LN	SHELTON	СТ	RAYMOND & NICOLE GILDEA
200A-192	9 PLUM TREE LN	SHELTON	СТ	EFRAIN ROMAN
200A-193	0 PLUM TREE LN	SHELTON	СТ	SHELTON CITY OF
200A-194	15 PLUM TREE LN	SHELTON	СТ	COURTNEY WILLIAMS
200A-195	0 PLUM TREE LN	SHELTON	СТ	WENDY MAIONE
200A-197	280 MEADOW ST	SHELTON	СТ	PATRICIA and BORUCKI PASSARO
200A-198	18 EMERALD RIDGE CT	SHELTON	СТ	JOHN K FITZGERALD
200A-199	286 MEADOW ST	SHELTON	СТ	ANDY I FRENCH
200A-200	6 EMERALD RIDGE CT	SHELTON	СТ	FITZGERALD JOHN R EST JOHN K and ETALS
200A-201	300 MEADOW ST	SHELTON	СТ	KYLE PATRICK DURRSCHMIDT
200A-202	2 EMERALD RIDGE CT	SHELTON	СТ	FITZGERALD JOHN R EST JOHN K and ETALS
200A-203	308 MEADOW ST	SHELTON	СТ	ASUNCION CALO-PATINO
200A-204	310 MEADOW ST	SHELTON	СТ	GERALD A GOOLEY
200A-206	0 MEADOW ST	SHELTON	СТ	BRT LLC
200A-207	0 MEADOW ST	SHELTON	СТ	BEVERLY B TATE
200A-208	180 LEAVENWORTH RD	SHELTON	СТ	JAQUELINE ALVES COSTA
200A-210	190 LEAVENWORTH RD	SHELTON	СТ	LILYROSED LLC



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Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 233, 234, 235, 236, 237

1560/1808 Line: 1367, 1366, 1365, 1364, 1363

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Undeveloped, forest
- Agriculture, pasture
- Open Space (LL200A-184, LL200A-177, LL200A-178, LL200A-171)
- Maintained ROW
- Iroqouis Gas Transmission Line
- Derby Aquifer Protection Area
- Natural Diversity Database Area (December 2021)
- Paugussett Trail

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Agriculture, pasture
- Open Space (LL200A-184, LL200A-177, LL200A-178, LL200A-171)
- Maintained ROW
- Iroqouis Gas Transmission Line
- Derby Junction
- Derby Aquifer Protection Area
- Natural Diversity Database Area (December 2021)
- Paugussett Trail

Water Resources

- Wetland –W21, W22
- Wetland Cover Types Scrub-shrub, Herbaceous
- Watercourses None
- Vernal Pools None

Wetland and Watercourse Crossings

• W21 – construction mats for work pad, wire pull pad, and access road

Right-of-Way Vegetation

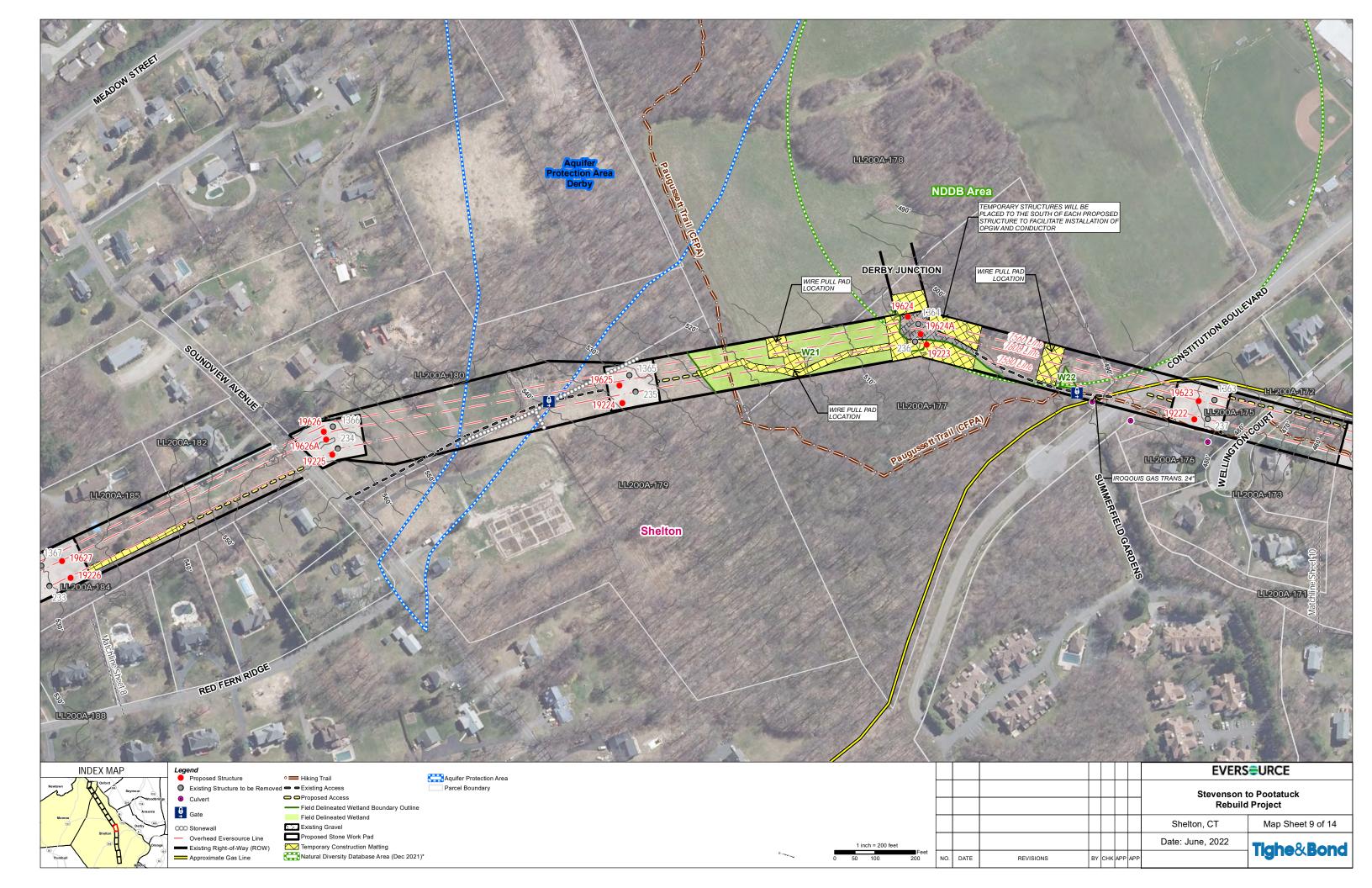
- Scrub-shrub
- Herbaceous
- Agriculture, pasture
- Residential, Maintained grass

Access

- Structures 233, 1367, 234 and 1366: access from Soundview Avenue
- Structures 235 and 1365: access from Soundview Avenue/ Constitution Boulevard
- Structures 236 and 1364: access from Soundview Avenue/Constitution Boulevard
- Structures 237 and 1363: access from Wellington Court/Constitution Boulevard

- Soundview Avenue
- Constitution Boulevard
- Wellington Court

LLN	Parcel Address	City	State	Owner Name
200A-171	0 INDEPENDENCE DR	SHELTON	СТ	SHELTON CITY OF
200A-172	10 WELLINGTON CT	SHELTON	СТ	JOHN J A LAWRENCE
200A-173	20 WELLINGTON CT	SHELTON	СТ	MARIE PENA
200A-175	0 WELLINGTON CT	SHELTON	СТ	SHELTON CITY OF
200A-176	21 WELLINGTON CT	SHELTON	СТ	PAUL G and CARMEN J MCCABE
200A-177	0 CONSTITUTION BLVD NORTH	SHELTON	СТ	SHELTON CITY OF
200A-178	0 MEADOW ST	SHELTON	СТ	SHELTON CITY OF
200A-179	279 SOUNDVIEW AVE	SHELTON	CT	SHELTON CITY OF
200A-180	297 SOUNDVIEW AVE	SHELTON	CT	LUPE A MAYBECK
200A-182	296 SOUNDVIEW AVE	SHELTON	СТ	FRANCISCO A LUGO
200A-184	0 SOUNDVIEW AVE	SHELTON	СТ	SHELTON CITY OF
200A-185	230 MEADOW ST	SHELTON	СТ	MALY SHEKLOW
200A-188	240 MEADOW ST	SHELTON	СТ	ELLIOT J JR WILSON



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Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 238, 239, 240, 241

1560/1808 Line: 1362, 1361, 1360, 1359

Access to Proposed mid-span Structures: 19622 (1560/1808), 19221 (1580)

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Open Water (Silent Waters)
- Undeveloped, forest
- Open Space (LL200A-171, LL200A-168, LL200A-166)
- Recreational Park
- Maintained ROW
- Irogouis Gas Transmission Line
- Natural Diversity Database Area (December 2021)
- Paugussett Trail, Shelton Lakes Recreation Path, Turkey Trot Trail

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Open Space (LL200A-171, LL200A-168, LL200A-166)
- Maintained ROW
- Iroqouis Gas Transmission Line
- Natural Diversity Database Area (December 2021)
- Paugussett Trail, Turkey Trot Trail

Water Resources

- Wetland W23, W24, W25, W26
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses S20, S21, S22
- Vernal Pools VP1

Wetland and Watercourse Crossings

- W23 construction mats for work pad and access road
- S21 construction mats for access road
- W26, S22 use existing culvert crossing

Right-of-Way Vegetation

- Scrub-shrub
- Herbaceous

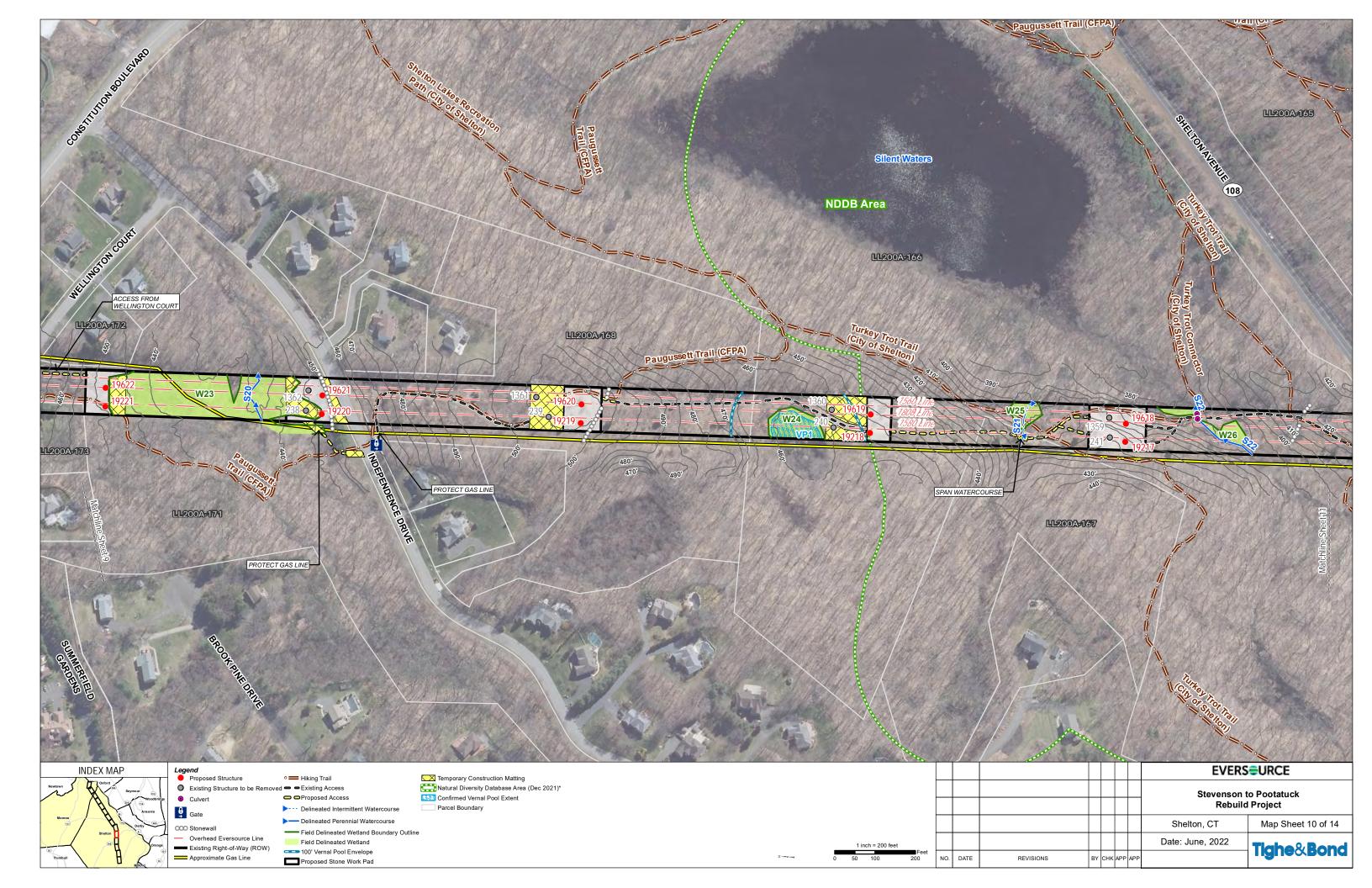
Access

- Structures 238 and 1362: access from Independence Drive
- Structures 239, 240, 241, 1361, 1360, 1359: access from Independence Drive/Shelton Avenue (CT Route 108)
- Proposed mid-span Structures 19622 (1560/1808), 19221 (1580): access from Wellington Court

Road Crossings

• Independence Drive

<u>LLN</u>	Parcel Address	<u>City</u>	<u>State</u>	Owner Name
200A-165	234 SHELTON AVE	SHELTON	СТ	SHELTON CITY OF
200A-166	0 SHELTON AVE	SHELTON	СТ	SHELTON CITY OF
200A-167	0 WILLOUGHBY RD	SHELTON	CT	SHELTON CITY OF
200A-168	0 INDEPENDENCE DR	SHELTON	CT	SHELTON CITY OF
200A-171	0 INDEPENDENCE DR	SHELTON	CT	SHELTON CITY OF
200A-172	10 WELLINGTON CT	SHELTON	CT	JOHN J A LAWRENCE
200A-173	20 WELLINGTON CT	SHELTON	CT	MARIE PENA



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Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 242, 243, 244, 245, 246

1560/1808 Line: 1358, 1357, 1356, 1355, 1354

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Open Space (LL200A-166, LL200A-165, LL200A-164, LL200A-159, LL200A-156)
- Open Water (Hope Lake)
- Natural Diversity Database Area (December 2021)
- Turkey Trot Trail, Oak Valley Trail, Blue White Connector Hope Lake, Shelton Lakes

Recreation Path, Flower Path, Eklund Native Species Garden Bypass

- Undeveloped, forest
- Maintained ROW
- Iroqouis Gas Transmission Line

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Open Space (LL200A-166, LL200A-165, LL200A-164, LL200A-159, LL200A-156)
- Natural Diversity Database Area (December 2021)
- Turkey Trot Trail, Oak Valley Trail, Shelton Lakes Recreation Path
- Maintained ROW

Water Resources

- Wetland W27, W28, W29, W30
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses None
- Vernal Pools None

Wetland and Watercourse Crossings

- W27 construction mats for work pad
- W30 construction mats for work pad

Right-of-Way Vegetation

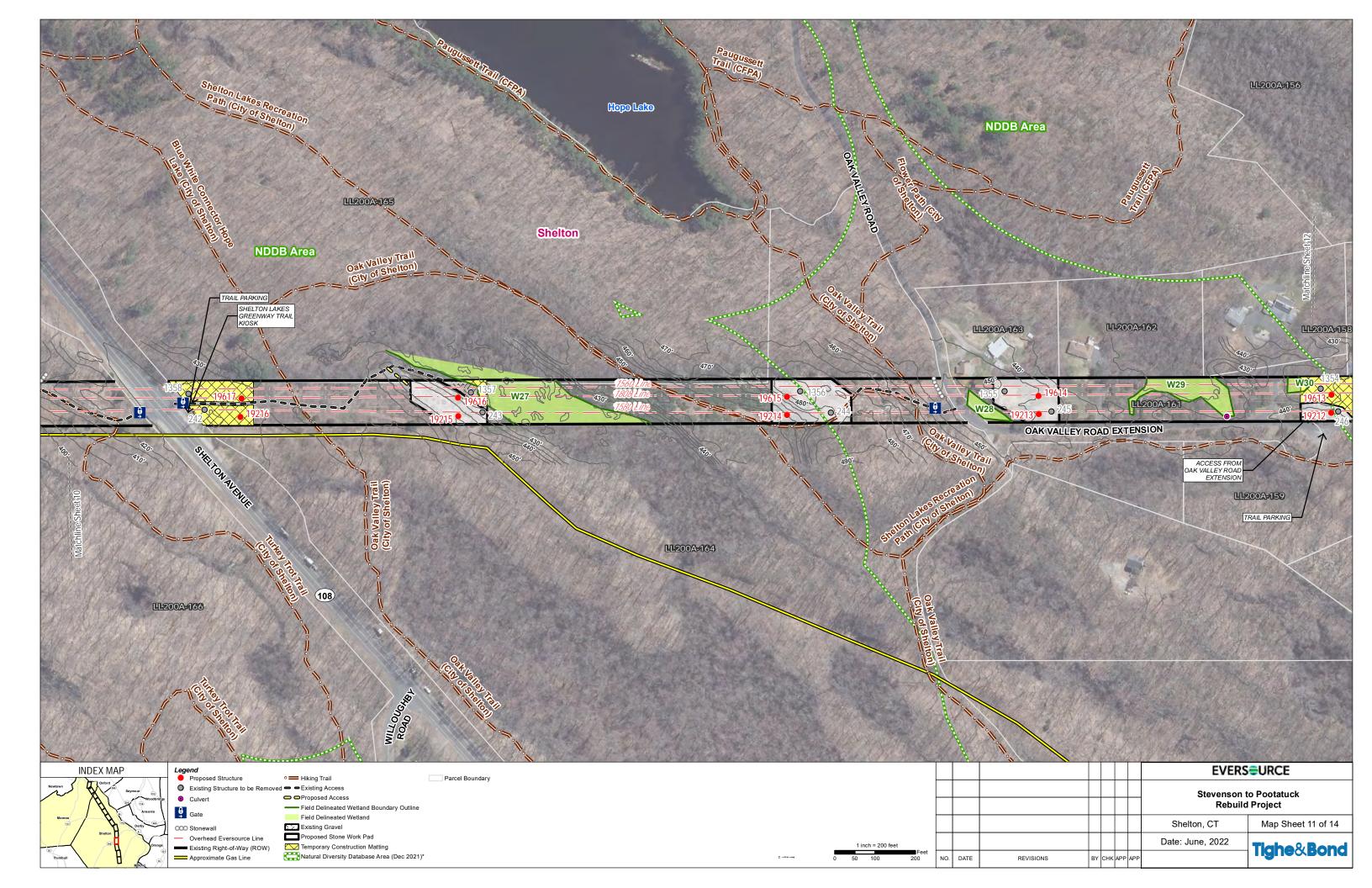
- Scrub-shrub
- Herbaceous
- Residential
- Maintained ROW

Access

- Structures 242, 243, 1358, and 1357: access from Shelton Avenue (CT Route 108)
- Structures 244, 245, 1356, and 1355: access from Oak Valley Road and Oak Valley Road Extension
- Structures 246 and 1354: access from Oak Valley Road Extension

- Shelton Avenue (CT Route 108)
- Oak Valley Road
- Oak Valley Road Extension

			1	T
<u>LLN</u>	Parcel Address	<u>City</u>	<u>State</u>	<u>Owner Name</u>
200A-156	0 OAK VALLEY RD	SHELTON	CT	SHELTON CITY OF
200A-159	0 OAK VALLEY RD	SHELTON	CT	SHELTON CITY OF
200A-161	0 OAK VALLEY RD	SHELTON	CT	KENNETH B CRAFT
200A-162	40 OAK VALLEY RD EXT	SHELTON	СТ	CHRISTINE A CRAFT
200A-163	24 OAK VALLEY RD	SHELTON	CT	DAVID A DUGGAN
200A-164	0 SHELTON AVE	SHELTON	CT	SHELTON CITY OF
200A-165	234 SHELTON AVE	SHELTON	СТ	SHELTON CITY OF
200A-166	0 SHELTON AVE	SHELTON	CT	SHELTON CITY OF



Mapsheet 12 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 246, 247, 248, 249, 250

1560/1808 Line: 1354, 1353, 1352, 1351, 1350

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Open Space (LL200A-156, LL200A-155, LL200A-154, LL200A-159, LL200A-152, LL200A-149)
- Natural Diversity Database Area (December 2021)
- Paugussett Trail, Nells Rock Trail, Basil Brook Bypass, Shelton Lakes Recreation Path
- Undeveloped, forest
- Maintained ROW
- Iroqouis Gas Transmission Line

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Residential
- Open Space (LL200A-156, LL200A-155, LL200A-154, LL200A-159, LL200A-152, LL200A-149)
- Natural Diversity Database Area (December 2021)
- Paugussett Trail, Nells Rock Trail, Basil Brook Bypass, Shelton Lakes Recreation Path
- Maintained ROW

Water Resources

- Wetland W30, W31, W32, W33, W34, W35, W36
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses S23, S24
- Vernal Pools VP2, VP3, VP4, VP5, VP6

Wetland and Watercourse Crossings

- W30 construction mats for work pad
- W31 construction mats for work pad and access road
- W32 construction mats for work pad and access road
- W33 construction mats for access road
- W34 construction mats for work pad
- W36 construction mats for access road

Right-of-Way Vegetation

- Scrub-shrub
- Herbaceous

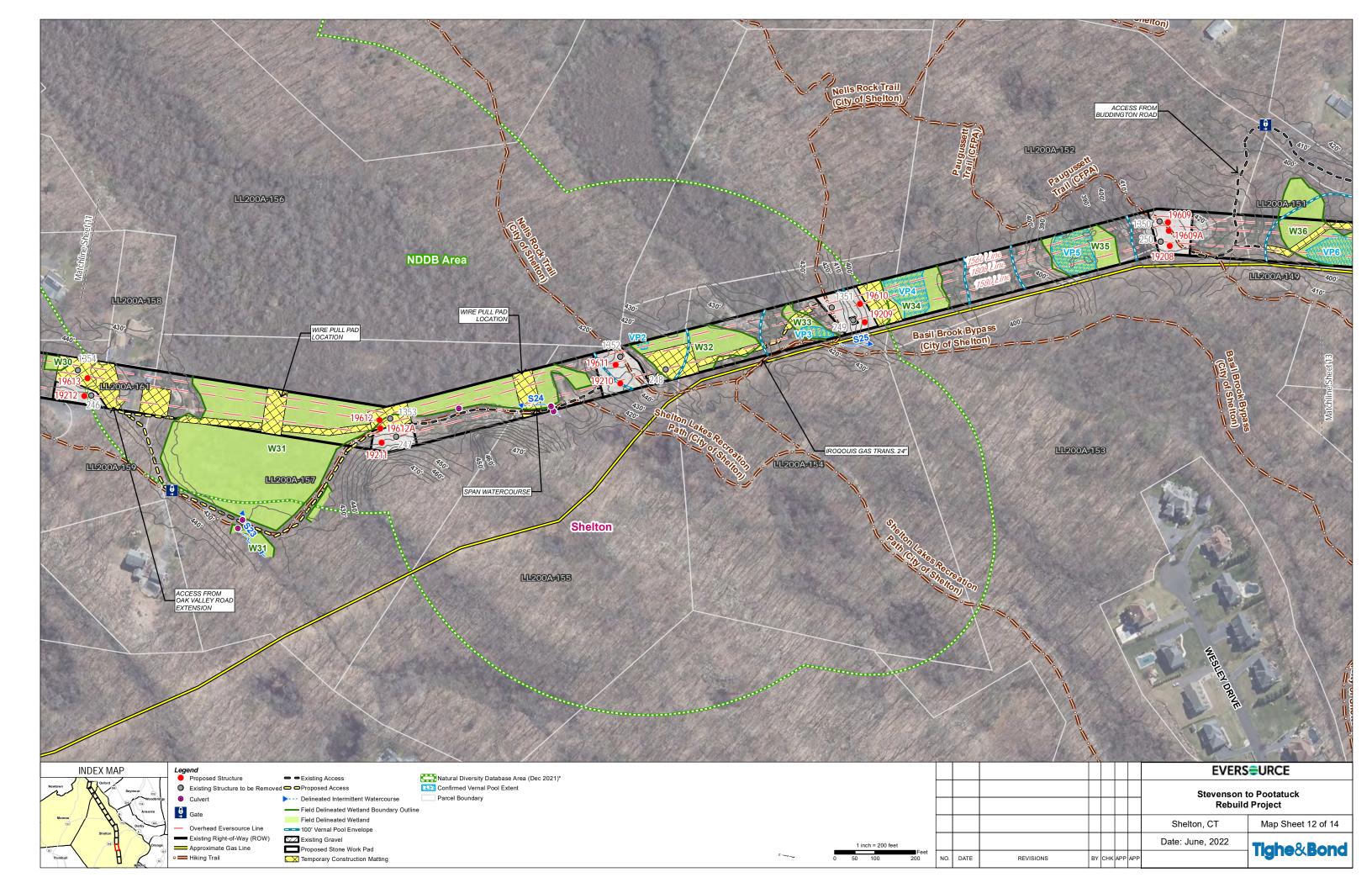
Access

- Structures 246, 247, 248, 249, 1354, 1353, 1352, 1351: access from Oak Valley Extension
- Structures 250 and 1350: access from Buddington Road

Road Crossings

• None

<u>LLN</u>	Parcel Address	<u>City</u>	<u>State</u>	Owner Name
200A-149	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-151	155 BUDDINGTON RD	SHELTON	СТ	MARIBEL CORONA
200A-152	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-153	0 SCOTCHPINE DR	SHELTON	СТ	SHELTON CITY OF
200A-154	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-155	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-156	0 OAK VALLEY RD	SHELTON	СТ	SHELTON CITY OF
200A-157	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-158	58 OAK VALLEY RD EXT	SHELTON	СТ	EVELYN MALENA XITAMUL
200A-159	0 OAK VALLEY RD	SHELTON	СТ	SHELTON CITY OF
200A-161	0 OAK VALLEY RD	SHELTON	СТ	KENNETH B CRAFT



Mapsheet 13 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 251, 252, 253, 254

1560/1808 Line: 1349, 1348, 1347, 1346

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Open Space (LL200A-149)
- Paugussett Trail including parking kiosk, Basil Brook Bypass
- Undeveloped, forest
- Maintained ROW
- Iroqouis Gas Transmission Line

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

Maintained ROW

Water Resources

- Wetland W36, W37, W38, W39
- Wetland Cover Types Scrub-Shrub, Herbaceous
- Watercourses None
- Vernal Pools VP6

Wetland and Watercourse Crossings

- W36 construction mats for access road
- W37 construction mats for work pad

Right-of-Way Vegetation

- Scrub-shrub
- Herbaceous

Access

• Structures 251, 252, 253, 254, 1349, 1348, 1347, and 1346: access from Buddington Road

Road Crossings

• Buddington Road

LLN	Parcel Address	<u>City</u>	State	Owner Name
200A-144	0 BRIDGEPORT AVE	SHELTON	CT	ROYAL B WELLS
200A-145	182 BUDDINGTON RD	SHELTON	СТ	FRANCISCO VERISSIMO
200A-146	178 BUDDINGTON RD	SHELTON	СТ	JILL DELOMA
200A-147	180 BUDDINGTON RD	SHELTON	СТ	JOYCE ANN DELOMA
200A-149	0 BUDDINGTON RD	SHELTON	СТ	SHELTON CITY OF
200A-150	161 BUDDINGTON RD	SHELTON	СТ	ANTHONY M FUSCO
200A-151	155 BUDDINGTON RD	SHELTON	CT	MARIBEL CORONA
200A-153	0 SCOTCHPINE DR	SHELTON	СТ	SHELTON CITY OF



Mapsheet 14 of 14

Stevenson to Pootatuck Rebuild Project

Access to Existing Structures 1580 Line: 255, 256, 257, 258

1560/1808 Line: 1345, 1344, 1343, 1342

City of Shelton, Connecticut

AREA DESCRIPTION

Existing Land Use and Resource Areas

- Residential
- Commercial
- Undeveloped, forest
- Agriculture, crop
- Maintained ROW
- Iroqouis Gas Transmission Line
- Farmill River
- Wells Brook
- 100-Year Flood Zone and Floodway
- 500-Year Flood Zone

RIGHT-OF-WAY DESCRIPTION

Right-of-Way Land Use and Resource Areas

- Agriculture, crop
- Maintained ROW
- Iroqouis Gas Transmission Line
- Farmill River
- Wells Brook
- 100-Year Flood Zone and Floodway
- 500-Year Flood Zone

Water Resources

- Wetland W40, W41, W42, W43
- Wetland Cover Types Scrub-Shrub
- Watercourses S26 (Wells Brook), S27 (Farmill River)
- Vernal Pools None

Wetland and Watercourse Crossings

- W40 construction mats for work pad
- W42 construction mats for work pad, pull pad, access road

Right-of-Way Vegetation

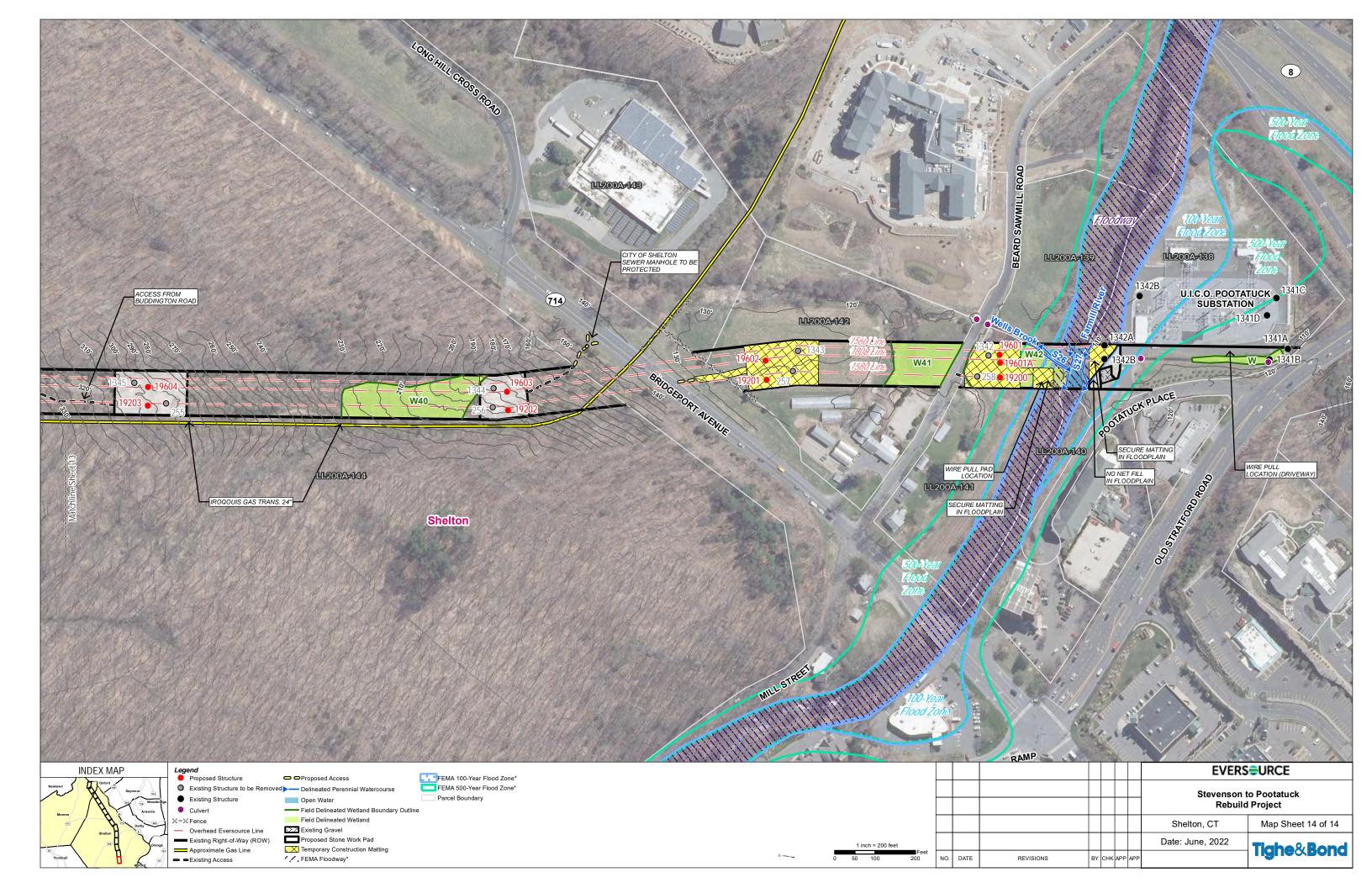
- Scrub-shrub
- Agriculture, pasture

Access

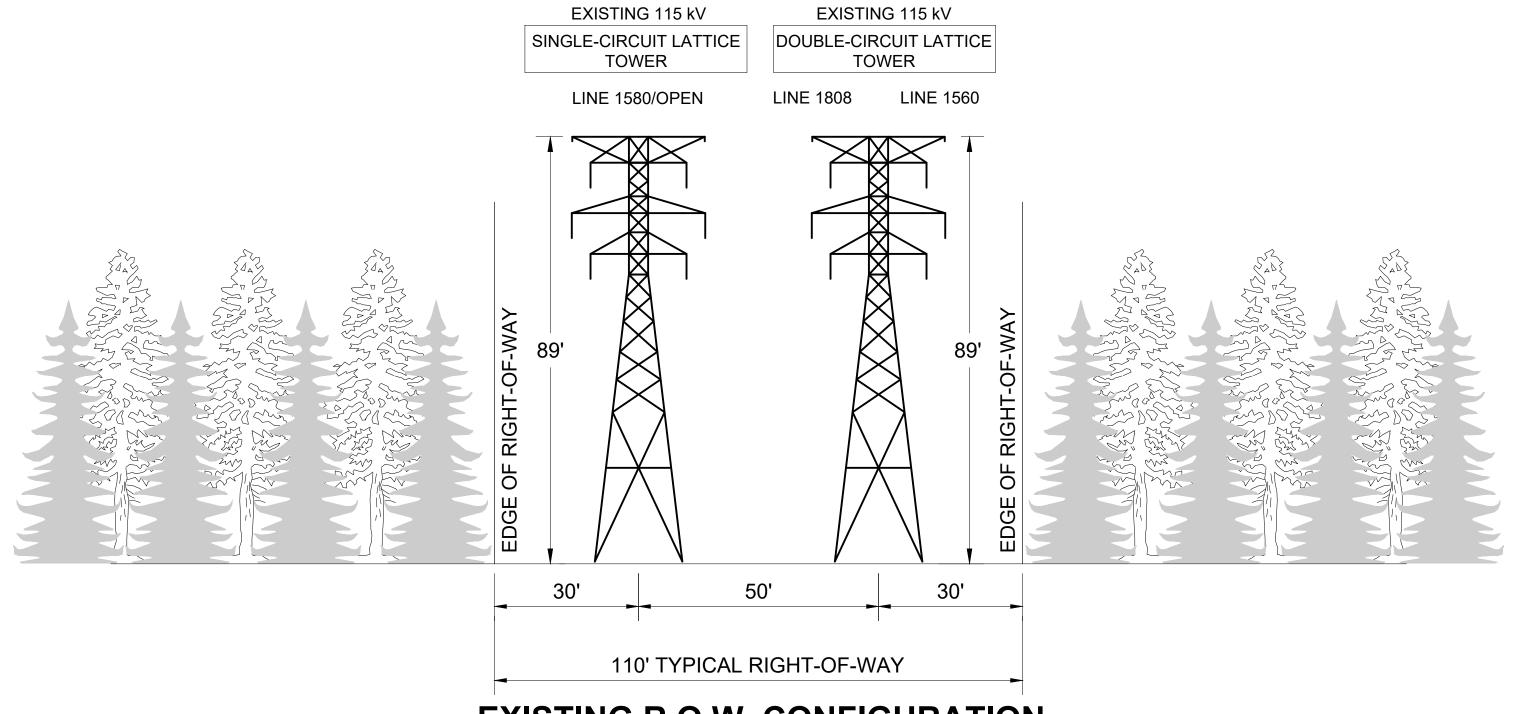
- Structures 255, and 1345: access from Buddington Road
- Structures 256, 1344, 257, and 1343: access from Bridgeport Avenue
- Structures 258 and 1342: access from Beard Sawmill Road
- Structures 1342A and 1342B access from Pootatuck Place (reconductoring only)

- Bridgeport Avenue (CT Route 714)
- Beard Sawmill Road
- Pootatuck Place

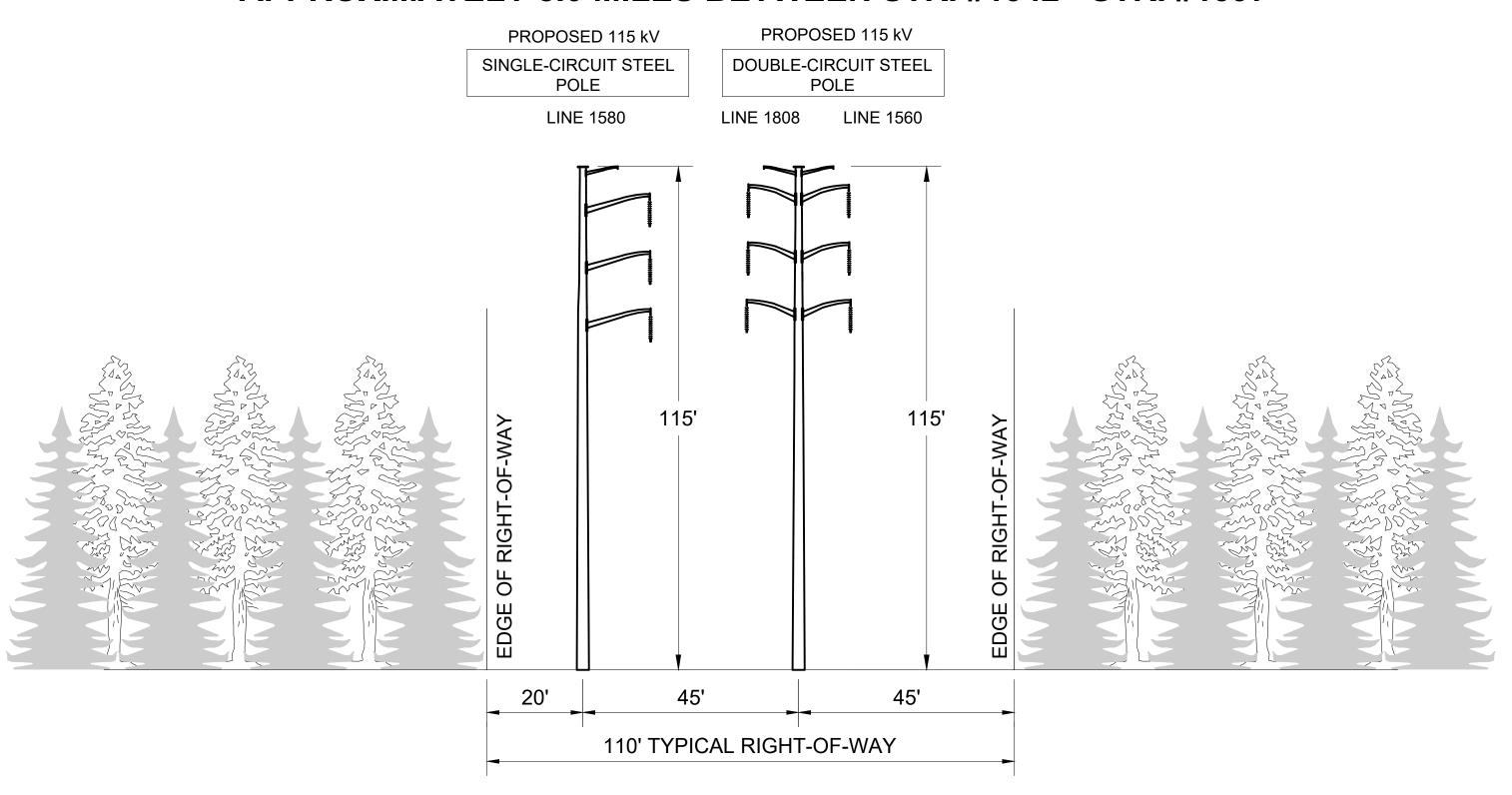
LLN	Parcel Address	City	<u>State</u>	Owner Name
200A-138	14 OLD STRATFORD RD	SHELTON	CT	UNITED ILLUMINATING COMPANY
200A-139	0 BEARD SAWMILL RD	SHELTON	CT	ROYAL B WELLS
200A-140	0 OLD STRATFORD RD	SHELTON	CT	EDITH B WELLS
200A-141	656 BRIDGEPORT AVE	SHELTON	CT	EDITH B WELLS
200A-142	0 BRIDGEPORT AVE	SHELTON	CT	EDITH B WELLS
200A-143	600 BRIDGEPORT AVE	SHELTON	CT	FAR MILL LLC
200A-144	0 BRIDGEPORT AVE	SHELTON	CT	ROYAL B WELLS



Attachment B: Stevenson to Pootatuck Rebuild Project – Right-of-Way Cross Section



EXISTING R.O.W. CONFIGURATION DOUBLE-CIRCUIT STEEL LATTICE VERTICAL DESIGN LOOKING FROM POOTATUCK S/S TO STEVENSON S/S IN THE TOWNS OF SHELTON AND MONROE, CT APPROXIMATELY 8.0 MILES BETWEEN STR. #1342 - STR. #1397



EXISTING R.O.W. CONFIGURATION

NO ADDITIONAL RIGHT-OF-WAY REQUIRED

SINGLE-CIRCUIT/DOUBLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN
LOOKING FROM POOTATUCK S/S TO STEVENSON S/S
IN THE TOWNS OF SHELTON AND MONROE, CT
APPROXIMATELY 8.0 MILES BETWEEN STR. #19601 - STR. #19667

NOTES:

CROSS SECTIONS ARE TYPICAL OF SEGMENT. VARIATIONS ALONG SEGMENT MAY OCCUR.

EVERS=URCE ENERGY

STEVENSON TO POOTATUCK REBUILD PROJECT

115-kV TRANSMISSION LINE

115-kV TRANSMISSION LINE R.O.W. CROSS SECTION SHELTON & MONROE, CT

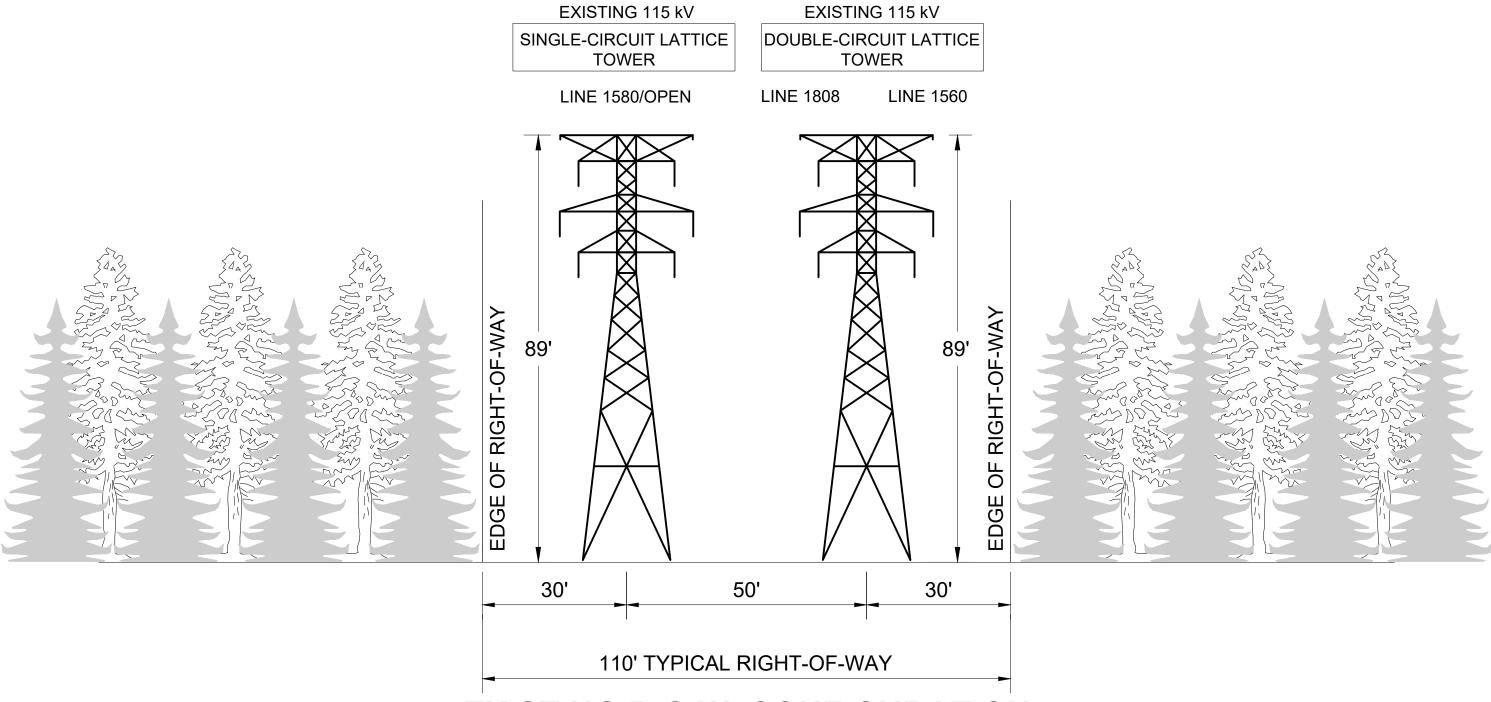
 BY
 AKZ/BMCD
 CHKD
 JSF/BMCD
 APP
 CM/BMCD
 APP
 —

 DATE
 3/24/21
 DATE
 11/05/21
 DATE
 11/05/21
 DATE
 —

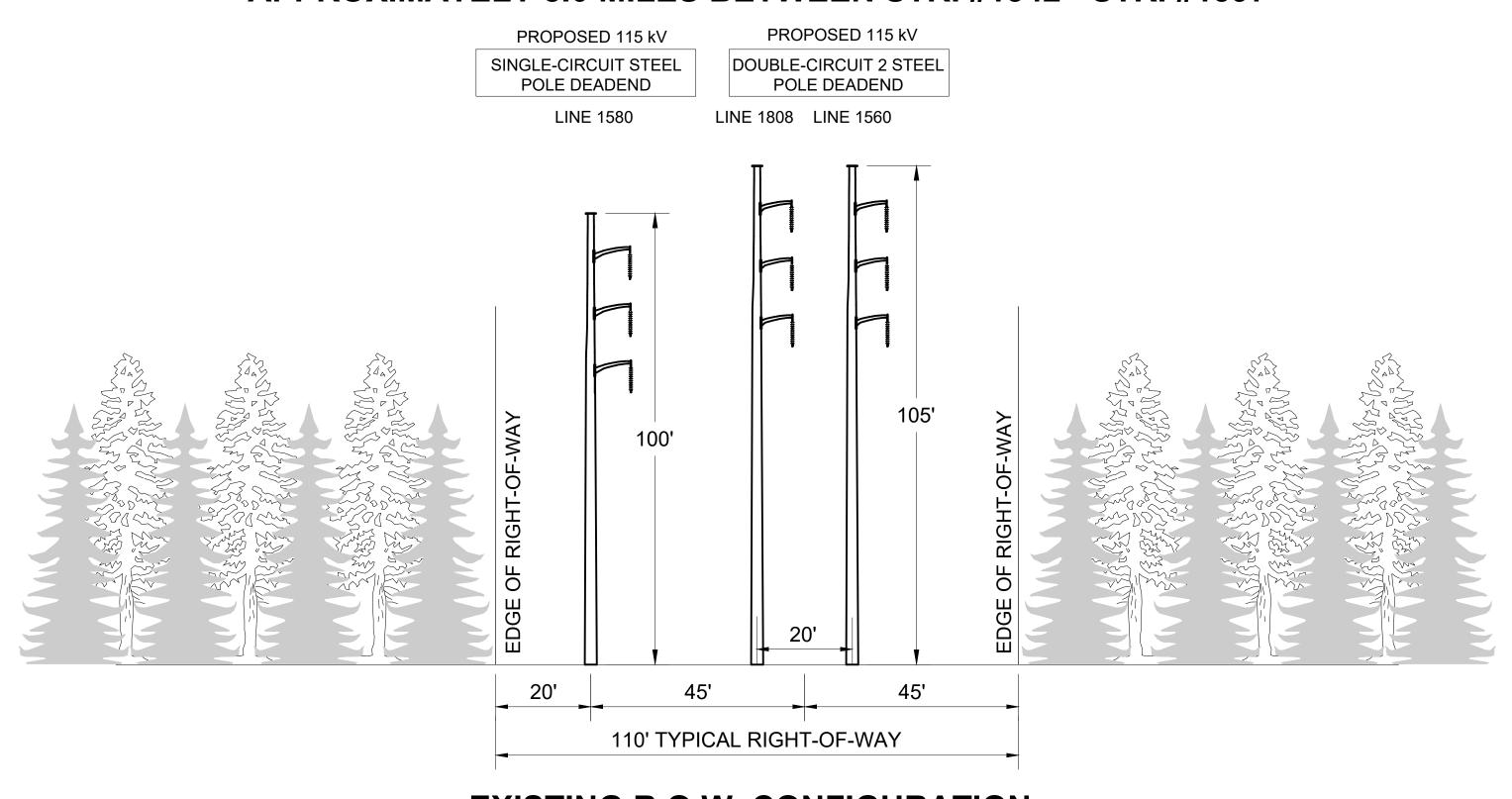
 H-SCALE
 N.T.S.
 SIZE
 D
 FIELD BOOK & PAGES

 V-SCALE
 N.T.S.
 V.S.
 R.E. DWG

 R.E. PROJ. NUMBER
 131736
 DWG NO.
 01251-85001p001



EXISTING R.O.W. CONFIGURATION DOUBLE-CIRCUIT STEEL LATTICE VERTICAL DESIGN LOOKING FROM POOTATUCK S/S TO STEVENSON S/S IN THE TOWNS OF SHELTON AND MONROE, CT APPROXIMATELY 8.0 MILES BETWEEN STR. #1342 - STR. #1397



EXISTING R.O.W. CONFIGURATION

NO ADDITIONAL RIGHT-OF-WAY REQUIRED

SINGLE-CIRCUIT STEEL MONOPOLE VERTICAL DESIGN
LOOKING FROM POOTATUCK S/S TO STEVENSON S/S
IN THE TOWNS OF SHELTON AND MONROE, CT

APPROXIMATELY 8.0 MILES BETWEEN STR. #19601 - STR. #19667

NOTES:

CROSS SECTIONS ARE TYPICAL OF SEGMENT. VARIATIONS ALONG SEGMENT MAY OCCUR.

EVERS\(\Display\) ENERGY

STEVENSON TO POOTATUCK REBUILD PROJECT

115-kV TRANSMISSION LINE

115-KV TRANSMISSION LINE
R.O.W. CROSS SECTION
SHELTON & MONROE, CT

 BY
 AKZ/BMCD
 CHKD
 JSF/BMCD
 APP
 CM/BMCD
 APP
 —

 DATE
 3/24/21
 DATE
 01/21/22
 DATE
 01/21/22
 DATE
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 H-SCALE
 N.T.S.
 SIZE
 D
 FIELD BOOK & PAGES

 V-SCALE
 N.T.S.
 V.S.
 R.E. DWG

 R.E. PROJ. NUMBER
 131736
 DWG NO.
 01251-85001p002

Attachment C: List of Structure Replacements

	156	50/1808 LINE				
		EXISTING	PROPOSED	Height	Existing Height AGL	Proposed Height AG
Old Str #	New Str #	Туре	Туре	Increase	Height AGE	Height AG
Pootatuck (UI)	UI SUBSTATION	,	,,			
1342B (1808) Exist to remain	19600B	SCSP	To Remain			
1342A (1560) Exist to remain	19600A	SCSP	To Remain	14.70	91 50	06.2
1342	19601 19601A	DCLT	SCSP SCSP	14.70 NEW STR	81.50	96.2 96
1343	19602	DCLT	DCSP	14.75	81.25	96
1344	19603	DCLT	DCSP	2.75	83.25	86
1345	19604	DCLT	DCSP	11.00	82.50	93.5
1346	19605	DCLT	DCSP	10.50	83.00	93.5
1347	19606	2-pole Steel	DCSP	3.00	98.00	101
1348 1349	19607 19608	DCLT DCLT	DCSP DCSP	42.00 16.00	84.00 85.00	126 101
1350	19608	DCLT	SCSP	12.25	83.75	96
1000	19609A	DOLI	SCSP	NEW STR	00.70	96
1351	19610	DCLT	DCSP	19.00	84.00	103
1352	19611	DCLT	DCSP	4.00	89.50	93.5
1353	19612	DCLT	SCSP	8.75	82.25	91
	19612A		SCSP	NEW STR		91
1354	19613	DCLT	DCSP	20.00	83.00	103
1355 1356	19614 19615	DCLT DCLT	DCSP DCSP	24.00 17.50	83.50 83.50	107.5 101
1357	19616	DCLT	DCSP	22.50	93.50	116
1358	19617	DCLT	DCSP	28.50	92.50	121
1359	19618	DCLT	DCSP	42.50	93.50	136
1360	19619	DCLT	DCSP	9.50	88.50	98
1361	19620	DCLT	DCSP	-3.50	87.50	84
1362	19621	DCLT	DCSP	48.50	82.50	131
Mid Span	19622	DOLT	DCSP	NEW STR	04.00	131
1363 1364	19623 19624	DCLT DCLT	DCSP SCSP	26.50 20.10	81.00 90.90	107.5 111
1304	19624A	DCLI	SCSP	NEW STR	90.90	111
1365	19625	DCLT	DCSP	0.50	83.50	84
1366	19626	DCLT	SCSP	9.29	87.25	96.54
	19626A	-	SCSP	NEW STR		96
1367	19627	DCLT	DCSP	NEW STR		98
Mid Span	19628		DCSP	NEW STR		98
1368	19629	DCLT	SCSP	24.75	81.25	106
1000	19629A	DOL T	SCSP	NEW STR	00.50	106
1369 Mid Span	19630 19631	DCLT	DCSP DCSP	1.50 NEW STR	82.50 0.00	84 136
1370	19632	DCLT	DCSP	-3.50	82.50	79
1371	19633	DCLT	DCSP	18.50	82.50	101
Mid Span	19634		DCSP	NEW STR		141
1372	19635	DCLT	DCSP	17.50	93.50	111
1373	19636	DCLT	DCSP	17.50	83.50	101
1374	19637	DCLT	DCSP	10.00	83.50	93.5
1375	19638	DCLT	SCSP	15.00	81.00	96
1076	19638A	DCLT	SCSP DCSP	NEW STR	04.50	96 96
1376 1377	19639 19640	DCLT	DCSP	14.50 43.50	81.50 82.50	126
1378	19641	DCLT	DCSP	30.00	81.00	111
1379	19642	DCLT	DCSP	5.50	83.00	88.5
1380	19643	DCLT	DCSP	19.50	83.50	103
1381	19644	DCLT	DCSP	24.00	83.50	107.5
Mid Span	19645		SCSP	NEW STR		94
Mid Span	19645A	50.7	SCSP	NEW STR	00.70	94
1382	19646	DCLT	DCSP	0.50	83.50	84
Mid Span 1383	19647 19648	DCLT	DCSP DCSP	NEW STR 32.50	0.00 83.50	131 116
1384	19649	DCLT	DCSP	38.50	82.50	121
1385	19650	DCLT	DCSP	6.00	82.50	88.5
1386	19651	DCLT	DCSP	23.50	82.50	106
Mid Span	19652		DCSP	NEW STR		116
1387	19653	DCLT	DCSP	NEW STR		91
1388	19654	DCLT	DCSP	NEW STR	0.00	98
Mid Span	19655		DCSP	45.50	93.50	139
Mid Span	19655A 19656		DCSP SCSP	NEW STR	<u> </u>	139 121
1389	19657	DCLT	SCSP	NEW STR	<u> </u>	107.5
1390	19658	DCLT	DCSP	0.00	93.50	93.5
1391	19659	DCLT	DCSP	15.00	83.00	98
Mid Span	19660		DCSP	54.50	83.50	138
Mid Span	19660A	DCLT	SCSP	NEW STR	0.00	138
1392	19661	DCLT	DCSP	14.50	83.50	98
1393	19662	DCLT	DCSP	5.00	83.50	88.5
1394	19663		SCSP	9.75	81.25	91
1395	19663A 19664	DCLT	SCSP SCSP	NEW STR 6.29	84.71	91 91
1080	19664A	DOLI	SCSP	NEW STR	OT./ I	91
1396	19665	DCLT	SCSP	-12.71	123.71	111
	19665A		SCSP	NEW STR	<u> </u>	111
202 (1560 Line only)	19666	DCLT	SCSP	32.75	78.25	111
	1000=	00.14	SC Steel H-	8.62		
201 (L1560 only)	19667	SC Wood Frame	Frame	0.02	47.88	56.5

		EXISTING	PROPOSED	Height Increase	Existing Height AGL	Proposed Height AG
Old Str#	New Str #	Туре	Туре			
		SUBSTATION (AD.				
258	19200	DCLT	SCSP	23.24	77.76	101
257	19201	DCLT	SCSP	7.49	88.51	96
256 255	19202 19203	DCLT DCLT	SCSP SCSP	7.44 5.25	78.56 88.25	86 93.5
255	19203	DCLT	SCSP	12.25	81.25	93.5
253	19204	DCLT	SCSP	22.35	78.65	101
252	19206	DCLT	SCSP	47.75	78.25	126
251	19207	DCLT	SCSP	20.74	82.26	103
250	19208	DCLT	SCSP	16.50	79.50	96
249	19209	DCLT	SCSP	24.74	78.26	103
248	19210	DCLT	SCSP	8.54	79.96	88.5
247	19211	DCLT	SCSP	11.75	79.25	91
246	19212	DCLT	SCSP	23.14	79.86	103
245	19213	DCLT	SCSP	28.24	79.26	107.5
244	19214	DCLT	SCSP	23.74	79.26	103
243	19215	DCLT	SCSP	31.50	79.50	111
242	19216	DCLT	SCSP	32.24	88.76	121
241	19217	DCLT	SCSP	51.64	79.36	131
240	19218	DCLT	SCSP	15.24	78.26	93.5
239	19219	DCLT	SCSP	4.55	79.45	84
238	19220	DCLT	SCSP	33.25	97.75	131
Mid Span	19221	DCLT	SCSP	Mid Span	77.06	131
237 236	19222 19223	DCLT DCLT	SCSP SCSP	29.64 8.00	77.86 93.00	107.5 101
235	19223	DCLT	SCSP	5.49	78.51	84
234	19224	DCLT	SCSP	19.25	76.75	96
233	19226	DCLT	SCSP	-0.26	98.26	98
Mid Span	19227	5021	SCSP	Mid Span	00.20	98
232	19228	DCLT	SCSP	28.04	77.96	106
231	19229	DCLT	SCSP	6.25	77.75	84
Mid Span	19230		SCSP	Mid Span	0.00	136
230	19231	DCLT	SCSP	1.15	77.85	79
229	19232	DCLT	SCSP	27.75	78.25	106
Mid Span	19233		SCSP	Mid Span		141
228	19234	DCLT	SCSP	30.75	80.25	111
227	19235	DCLT	SCSP	14.50	79.00	93.5
226	19236	DCLT	SCSP	14.85	78.65	93.5
225	19237	DCLT	SCSP	17.65	78.35	96
224 223	19238 19239	DCLT DCLT	SCSP SCSP	19.35 47.44	78.65 78.56	98 126
223	19239	DCLT	SCSP	32.64	78.36	111
221	19240	DCLT	SCSP	10.00	78.50	88.5
220	19241	DCLT	SCSP	24.44	78.56	103
219	19243	DCLT	SCSP	24.85	78.15	103
Mid Span	19244		SCSP	Mid Span		86
218	19245	DCLT	SCSP	4.75	79.25	84
Mid Span	19246		SCSP	Mid Span		116
217	19247	DCLT	SCSP	37.44	78.56	116
216	19248	DCLT	SCSP	42.74	78.26	121
215	19249	DCLT	SCSP			88.5
214	19250	DCLT	SCSP	28.14	77.86	106
213	19251	DCLT	SCSP	Mid Span		116
212	19252	DCLT	SCSP	Mid Span		91
211	19253	DCLT	SCSP	19.34	78.66	98
Mid Span	19254		SCSP	Mid Span		136
Mid Span	19255	DOLT	SCSP	Mid Span	77.75	116
210	19256	DCLT	SCSP SCSP	29.75		107.5
209	19257 19258	DCLT DCLT	SCSP	13.99 0.45	79.51 97.55	93.5 98
Mid Span	19259	DCLI	SCSP	Mid Span	91.55	136
207	19259	DCLT	SCSP	19.50	78.50	98
206	19261	DCLT	SCSP	8.24	80.26	88.5
205	19261	DCLT	SCSP	17.50	78.50	96
203	19263	DCLT	SCSP	17.75	78.25	96
203	19264	DCLT	SCSP	-8.01	79.01	71
202A	19265	H-Frame	H-Frame	4.30	53.50	57.8
7 (1580&1808)		DCLT	SCSP	-4.71	120.71	116
	19266A		SCSP			146
	1 1		i	1		

Attachment D: Wetlands Delineation Report

Technical Memorandum Tighe&Bond

Wetland Report: Stevenson to Pootatuck Rebuild Project

To: Sara Fusco, PSS, CPESC, Eversource Energy

FROM: Raina Volovski, CPSS, PWS, Tighe & Bond; Richard Canavan, PSS, PWS,

Tighe & Bond

COPY: --

DATE: April 11, 2022

Tighe & Bond performed wetland and watercourse delineations in support of the Stevenson to Pootatuck Rebuild Project in September and October 2020, and March, April, May, June, and July 2021.

Wetland and Watercourse Delineation Methodology

Wetlands and watercourses were delineated in accordance with the requirements of the Connecticut Inland Wetlands and Watercourses Act (§22a-38 CGS), and the U. S. Army Corps of Engineers Wetlands Delineation Manual (1987) Regional Supplement to the Corps of Engineers Wetland Delineation Manual Northcentral and Northeast Region (Version 2.0) (January 2012). The limits of the wetlands and watercourses were identified in the field by consecutively numbered flags. Pink "Wetland Delineation" flagging was used for delineating wetlands and blue flagging was used for delineating watercourses. Flag locations were surveyed at the time of the investigation using Global Positioning System (GPS) units capable of submeter accuracy. Wetlands were classified using the Cowardin System.

Delineated wetlands and watercourses within the Project Area are summarized in Table 1, and Army Corps of Engineers Wetland Determination Data Forms are attached.

TABLE 1
Delineated Wetlands and Watercourses within the Stevenson to Pootatuck Structure Replacement Project

Map Sheet No.	Wetland No. 1 Determination Data Sheet Wetland No. 2 Dominant NWI Class 3 Classes		Dominant Water Regime	Associated Watercourse ⁴	Associated Vernal Pool ⁵		
1		wetiand No.	_	_	Perennial	S1	
1	W1	204 W40	PFO	PEM	Seasonally Flooded/Saturated	S2	
2	W2	206-1	PEM	PSS	Seasonally Flooded/Saturated	S3	
2	W3	206-2	PSS	1 33	Seasonally Flooded/Saturated	30	
2	W4	207 W22	PFO		Seasonally Saturated	S4, S5	
3	W5	209 W23	PEM	PSS	Seasonally Flooded/Saturated	0., 00	
3	W6	210 W24	PSS		Saturated	S6	
3	W7	210 W44	PEM		Seasonally Flooded/Saturated		
3	W8	212 W1	PSS		Seasonally Saturated	S7	
4	W9	213 W25	PEM		Seasonally Saturated	-	
4	W10	215 W45	PEM	PSS	Seasonally Flooded/Saturated	S8	
4	W11	217 W9	PSS	PFO	Seasonally Flooded/Saturated	S9	
5	W12	218 W10	PEM	PSS	Seasonally Flooded/Saturated	S10	
5	W13	219 1B	PEM		Seasonally Saturated	S11, S12	
6	-	-	-	-	Intermittent	S13	
6	W14	223-A	PSS		Seasonally Flooded/Saturated		
6	W15	223-B	PEM		Seasonally Flooded/Saturated	S14	
6	W16	224-A	PEM		Seasonally Flooded/Saturated	S15	
7	W17	227 W26	PEM		Seasonally Saturated	0.0	
7	W18	228 W27	PEM		Seasonally Flooded/ Saturated	S16	
7	-	-	-	_	Intermittent	S17, S18	
8	_	_	_	_	Perennial	S19	
8	W19	232 W31	PSS		Seasonally Saturated		
8	W20	232 W30	PSS		Seasonally Saturated		
9	W21	236 W29	PSS	PEM	Seasonally Saturated		
9	W22	236 W28	PSS	PEM	Seasonally Saturated		
10	W23	237 W32	PSS		Seasonally Saturated	S20	
10	W24	239 W1	PEM	PSS	Seasonally Flooded/ Saturated	020	VP1
10	W25	241 W1	PSS		Seasonally Saturated	S21	
10	W26	242 W1	PSS		Seasonally Saturated	S22	
11	W27	243 W1	PEM		Seasonally Flooded/ Saturated		
11	W28	244 W63	PSS		Seasonally Saturated		
11	W29	245 W64	PSS		Seasonally Saturated		
11	W30	245 W65	PSS		Seasonally Saturated		
12	W31	247 W37	PSS	PFO	Semipermanently Flooded	S23, S24	
12	W32	248 W36	PSS		Seasonally Flooded/ Saturated		VP2
12	W33	248 W35	PSS	PEM	Seasonally Flooded/ Saturated		VP3
12	W34	249 W34	PSS		Seasonally Flooded/ Saturated		VP4
12	W35	249 W33	PSS		Seasonally Flooded/ Saturated	S25	VP5
12&13	W36	250 W2	PSS		Seasonally Flooded/ Saturated		VP6
13	W37	252 W1	PSS	PEM	Seasonally Flooded/ Saturated		
13	W38	252 1A	PSS		Seasonally Saturated		
13	W39	252 2A	PEM		Seasonally Saturated		
14	W40	255 1A	PSS		Seasonally Saturated		
14	W41	257 1A	PEM		Seasonally Flooded/ Saturated		
14	W42	258 1A	PEM		Seasonally Flooded/ Saturated	S26, S27	
14	W43	258 W38	PEM		Seasonally Flooded/ Saturated		

 $^{^{\}mathrm{1}}$ Wetland No. refers to the number on the Map Set for the Stevenson to Pootatuck Rebuild Project

 $^{^{2}}$ Data Sheet Wetland No. refers to the code assigned during delineation and referenced on the delineation data form

³ Wetlands classified according to Cowardin et al 1979; PEM= Palustrine Emergent Wetland; PSS= Palustrine Scrub-Shrub Wetland; PFO= Palustrine Forested Wetland; POW= Palustrine Open Water

 $^{^{\}rm 4}$ Associated Watercourse refers to the identification number in the project map set

 $^{^{\}rm 5}$ Vernal Pools were identified in 2020 and surveyed in 2021 by Tighe & Bond.

Project/Site: Line 1580	City/County Monroe	Sampling Date: 2021-03-03
Applicant/Owner: Eversource		State: Connecticut Sampling Point: 204 W40
MUZ DI//	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	-	
Subregion (LRR or MLRA): R 144A Lat: 41		
	_	
	./	
Are climatic / hydrologic conditions on the site typical for th	-	
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Norn	nal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed	l, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing sampling point locat	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes Ves Ves N	No within a Wetland?	Yes No
Wetland Hydrology Present? Yes N Remarks: (Explain alternative procedures here or in a se	, , ,	nd Site ID:
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all		Surface Soil Cracks (B6)
1 4	ter-Stained Leaves (B9)	✓ Drainage Patterns (B10)
	uatic Fauna (B13) rl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)
	drogen Sulfide Odor (C1)	Crayfish Burrows (C8)
1	idized Rhizospheres on Living Roots (C3	
	esence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Rec	cent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
1 — · · · · · —	n Muck Surface (C7)	Shallow Aquitard (D3)
<u> </u>	ner (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:	andh (in ah an). 1	
Surface Water Present? Yes No De Water Table Present? Yes No De		
Saturation Present? Yes V No De		Hydrology Present? Yes No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if a	vailable:
Remarks:		
Hillside seep, water actively flowing	on surface, drainage pat	terns

EGETATION – Use scientific names of plants				Sampling Point: 204 W40
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1. Tsuga canadensis	40	<u>Species :</u> ✓	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2. Betula alleghaniensis	20		FAC	
3. Acer rubrum	10		FAC	Total Number of Dominant Species Across All Strata: 5 (B)
4. Liriodendron tulipifera	5		FACU	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80 (A/B)
6.				Barrelon and Indian mediate and
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $\frac{0}{x+1}$ $\frac{0}{x+1}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	-	10141 001		FACW species 45
1. Lindera benzoin	10	~	FACW	FAC species 30 x 3 = 90
2.				FACU species <u>45</u>
				UPL species $0 \times 5 = 0$
3		-		Column Totals: <u>120</u> (A) <u>360</u> (B)
4 5				Prevalence Index = B/A = 3.0
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
· .	10%	= Total Cov	/or	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r		- Total Cov	/CI	✓ 3 - Prevalence Index is ≤3.0 ¹
1. Osmundastrum cinnamomeum	20	~	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Onoclea sensibilis	15		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3.	_			
4.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
6.				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8.				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
		= Total Cov	/er	height.
Woody Vine Stratum (Plot size: 30 ft r		10141 001		
1				
2				
3				Hydrophytic Vegetation
4				Present? Yes No
Remarks: (Include photo numbers here or on a separate		= Total Cov	ver	<u> </u>
Tromando. (moidade prioto nambers nere di un a separate	5.100t. <i>j</i>			

Vegetation in area outside of managed ROW on ES parcel. Vegetation management occurred in ROW after the delineation.

SOIL Sampling Point: 204 W40

Profile Desc	cription: (Describe	to the de	oth needed to docum	nent the i	ndicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature		. 2	T. (
(inches) 0 - 6	Color (moist) 10YR 2/1	<u>%</u> 100	Color (moist)	%	_Type'	Loc ²	Remarks	
6 - 14	10YR 4/1	95	10YR 3/6	5	С	<u></u>	Silt Loam	_
14 - 20	10 YR 4/1	95	10Y 3/6	5	C	M	Sand	_
14 - 20	1011(4/1		101 0/0					
					-			—
				-	-			
							·	
-	-							
-	-			-	-			
		· ——						
-								
¹ Type: C=Ce Hydric Soil		letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belov	v Surface	(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)	
	stic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky M	. , .			5 cm Mucky Peat or Peat (S3) (LRR K, L, I Dark Surface (S7) (LRR K, L)	⊀)
Stratified	d Layers (A5)		Loamy Gleyed N	Matrix (F2		•	Polyvalue Below Surface (S8) (LRR K, L)	
-	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Sur				Thin Dark Surface (S9) (LRR K, L)Iron-Manganese Masses (F12) (LRR K, L,	D)
	fucky Mineral (S1)		Depleted Dark S				Piedmont Floodplain Soils (F19) (MLRA 14	
Sandy C	Gleyed Matrix (S4)		Redox Depressi		,		Mesic Spodic (TA6) (MLRA 144A, 145, 14	
-	Redox (S5) Matrix (S6)						Red Parent Material (F21)Very Shallow Dark Surface (TF12)	
	rface (S7) (LRR R, I	MLRA 149	B)				Other (Explain in Remarks)	
³ Indicators o	f hydronhytic vegeta	tion and w	etland hydrology mus	t he nrese	ent unles	s disturhed	d or problematic	
	Layer (if observed):		onana nyarorogy mao	(BO P100	511t, u11100	o diotarboa	2 of problemate.	
Type:								
	ches):						Hydric Soil Present? Yes No	_
Remarks:								
Very bo	uldery							



Project/Site: 1580 Line		City/County: Mo	nroe	Sampling Date: <u>5/7/2021</u>
Applicant/Owner: Eversource			State:	CT Sampling Point: 206-1
Investigator(s): RWC		Section, Townsh	nip, Range:	<u>-</u>
Landform (hillside, terrace, etc.): sidesle	one L	•	ve, convex, none): concave	Slope (%): 10
Subregion (LRR or MLRA): LRR R, MLR		Joan 15 (Long: -73.170294	Datum:
	· · · · · · · · · · · · · · · · · · ·			
Soil Map Unit Name: 75E, Hollis-Chatfield				ssification: PEM1E/PSS1E
Are climatic / hydrologic conditions on the	• • • • • • • • • • • • • • • • • • • •	_	x No (If no, expl	·
Are Vegetation, Soil, or	Hydrologysignificantl	y disturbed? A	Are "Normal Circumstances"	" present? Yes x No
Are Vegetation, Soil, or	Hydrologynaturally p	roblematic? (If needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Atta	ach site map showing	sampling poi	int locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present?	Yes x No	Is the Samp	nled Area	
Hydric Soil Present?	Yes x No	within a We		x No
Wetland Hydrology Present?	Yes x No		nal Wetland Site ID:	
Remarks: (Explain alternative procedure				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Ir	ndicators (minimum of two required)
Primary Indicators (minimum of one is re	equired; check all that apply)			Soil Cracks (B6)
Surface Water (A1)	Water-Stained	Leaves (B9)		e Patterns (B10)
High Water Table (A2)	Aquatic Fauna	` '		rim Lines (B16)
Saturation (A3)	Marl Deposits ((B15)	Dry-Sea	ason Water Table (C2)
Water Marks (B1)	Hydrogen Sulfi	de Odor (C1)	Crayfish	Burrows (C8)
Sediment Deposits (B2)		spheres on Living	· · · —	on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	_	educed Iron (C4)		or Stressed Plants (D1)
Algal Mat or Crust (B4)	_	eduction in Tilled S		rphic Position (D2)
Iron Deposits (B5)	Thin Muck Surf	` ,		Aquitard (D3)
Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface		in Remarks)		oographic Relief (D4)
 · · · ·	Je (D0)		X PAC-Ne	eutral Test (D5)
Field Observations: Surface Water Present? Yes	No x Depth (inches	.).		
Water Table Present? Yes x				
Saturation Present? Yes x	` ` `		Wetland Hydrology Pres	sent? Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge	, monitoring well, aerial photo	s, previous inspe	ctions), if available:	
a stream flows into this wetland and the	n infiltrates into the shallow so	vil surface		

VEGETATION – Use scientific names of plants. Sampling Point: 206-1 Absolute Dominant Indicator Tree Stratum (Plot size: 30) % Cover **Dominance Test worksheet:** Species? Status 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) 7. Prevalence Index worksheet: =Total Cover Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 OBL species x 1 = 25 1. Vaccinium corymbosum 20 Yes **FACW** FACW species x 2 = x 3 = 2. Kalmia latifolia 5 No **FACU** FAC species 3. Vaccinium corymbosum 5 No **FACW** FACU species 7 x 4 = 2 4. Pinus strobus No FACU UPL species 0 x 5 = 5. Column Totals: 67 183 (A) (B) 6. Prevalence Index = B/A = 2.73 **Hydrophytic Vegetation Indicators:** 32 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Osmunda claytoniana 20 FAC X 3 - Prevalence Index is ≤3.0¹ 1 Yes 2. Solidago rugosa 10 Yes **FAC** 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Acer rubrum 5 **FAC** No Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. 10. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Herb - All herbaceous (non-woody) plants, regardless 35 =Total Cover of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: Woody vines - All woody vines greater than 3.28 ft in 1. None height. 2. Hydrophytic 3. Vegetation Present? Yes X No ___ =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 206-1

Profile Description: (Describe to the d	epth needed to docu	ıment the	indicato	or or conf	firm the absence	of indicators.)
Depth Matrix	Redo	x Feature	:S			
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6 10YR 3/4					Sandy	sandy loam (saturated)
6-10 10YR 2/1					Sandy	buried A-horizion
·						
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, C	S=Covere	ed or Coa	ated Sand	Grains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:						for Problematic Hydric Soils ³ :
Histosol (A1)	Polyvalue Below	v Surface	(S8) (LR	R R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)					Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa					ucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	High Chroma Sa	-				ue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky M			(, L)		ark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed N)			inganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	x Depleted Matrix					ont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Sur					Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Depleted Dark S Redox Depressi	,	7)			rent Material (F21) nallow Dark Surface (TF12)
Stripped Matrix (S6)	Marl (F10) (LRR					Explain in Remarks)
Dark Surface (S7)	Wan (i 10) (ERR	(I(, L)			X Other (E	-xpiair in remarks)
³ Indicators of hydrophytic vegetation and	wetland hydrology mu	ust be pres	sent, unle	ess disturb	oed or problemation	С.
Restrictive Layer (if observed):						
Type: rock						
Depth (inches): 10					Hydric Soil Pr	resent? Yes X No No
Remarks:						
soils included a buried A horizon and are	a disturbed soil with a	ın Aquic n	noisture r	egime		



Project/Site: 1580 Line	City/County: Mo	onroe	Sampling Date: 5/7/2021
Applicant/Owner: Eversource		State:	CT Sampling Point: 206-2
Investigator(s): RWC	Section, Towns	ship, Range:	
Landform (hillside, terrace, etc.): hilltop	Local relief (conc	ave, convex, none) concave	Slope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 4		Long: -73.136757	Datum:
Soil Map Unit Name: 73C, Charlton-Chatfield complex v			ification: PSS1
Are climatic / hydrologic conditions on the site typical fo	•		n in Remarks.)
Are Vegetation , Soil , or Hydrology	· -	Are "Normal Circumstances" p	•
Are Vegetation , Soil , or Hydrology		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			•
Hydrophytic Vegetation Present? Yes x	No Is the Sam	nnled Area	
Hydric Soil Present? Yes x	No within a W		No
Wetland Hydrology Present? Yes x		onal Wetland Site ID:	
HYDROLOGY		_	
Wetland Hydrology Indicators:			icators (minimum of two required)
Primary Indicators (minimum of one is required; check			oil Cracks (B6)
	Water-Stained Leaves (B9)		Patterns (B10)
	Aquatic Fauna (B13)		Lines (B16)
	Marl Deposits (B15)		on Water Table (C2)
	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi		urrows (C8) Visible on Aerial Imagery (C9)
l 	Presence of Reduced Iron (C4	· /—	Stressed Plants (D1)
l —	Recent Iron Reduction in Tilled	· —	nic Position (D2)
 -	Thin Muck Surface (C7)		quitard (D3)
	Other (Explain in Remarks)		graphic Relief (D4)
x Sparsely Vegetated Concave Surface (B8)	70101 (Explain		ral Test (D5)
Field Observations:			, ,
	Depth (inches): 1		
	Depth (inches): -1 to 3		
Saturation Present? Yes x No	Depth (inches): surface	Wetland Hydrology Preser	nt? Yes <u>X</u> No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous ins	pections), if available:	
Remarks:			

VEGETATION– Use scientific names of plants. Sampling Point: 206-2 Absolute Indicator Dominant <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. None **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 66.7% (A/B) 7. Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 0 ___ Sapling/Shrub Stratum (Plot size: 15) x 1 = OBL species 45 Vaccinium corymbosum **FACW** FACW species x 2 = 1 Yes 2. Kalmia latifolia **FACU** FAC species 20 x 3 = 3. Rhododendron viscosum FACW **FACU** species 30 x 4 = x 5 = 20 0 4 Clethra alnifolia Yes FAC UPL species 5. Column Totals (A) 270 (B) 6. Prevalence Index = B/A = 2.84 **Hydrophytic Vegetation Indicators:** 95 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Herb Stratum (Plot size:) X 3 - Prevalence Index is ≤3.0¹ 2. 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft 1. None in height. Hydrophytic 3. Vegetation Yes X No No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 206-2

Depth	Matrix	, 10 tilo u	-	Featur			onfirm the absence o	· maioatoroi,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 2/1						Sandy	mucky-fsl
4-8	10YR 6/1						Sandy	mucky-fsl
		:						
1Type: C=	 Concentration, D=De	pletion, R	M=Reduced Matrix,	CS=Co\	ered or C	oated Sa	and Grains. ² Locatio	on: PL=Pore Lining, M=Matrix.
	il Indicators:	p.oo,						roblematic Hydric Soils ³ :
-	ol (A1)		Polyvalue Below	/ Surfac	e (S8) (LF	RR R,		A10) (LRR K, L, MLRA 149B)
Histic	Epipedon (A2)	-	MLRA 149B)				Coast Prairie	e Redox (A16) (LRR K, L, R)
Black	Histic (A3)		Thin Dark Surfa	ce (S9)	(LRR R, I	ILRA 14	9B)5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hydro	gen Sulfide (A4)	-	High Chroma Sa	ands (S	11) (LRR	K, L)	Polyvalue Be	elow Surface (S8) (LRR K, L)
Stratifi	ed Layers (A5)	-	Loamy Mucky M	lineral (I	F1) (LRR	K , L)	Thin Dark Su	urface (S9) (LRR K, L)
Deplet	ted Below Dark Surfa	ce (A11)	Loamy Gleyed N	/latrix (F	·2)		Iron-Mangan	nese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)	` ′-	x Depleted Matrix		,			podplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1)	-	Redox Dark Sur		3)			c (TA6) (MLRA 144A, 145, 149B)
	Gleyed Matrix (S4)	-	 Depleted Dark S	-				Material (F21)
	Redox (S5)	-	Redox Depressi					v Dark Surface (TF12)
	ed Matrix (S6)	-	Marl (F10) (LRR		,			in in Remarks)
	Surface (S7)	-	Mail (F10) (LKK	. K, L)			Other (Expla	III III Reiliaiks)
			wetland hydrology m	ust be p	oresent, u	nless dist	turbed or problematic.	
	e Layer (if observed):						
Type: ro	ock							
Depth (ir	nches):	8					Hydric Soil Presei	nt? Yes X No
							2.0 to reflect the NRC arcs142p2_051293.doc	S Field Indicators of Hydric Soils

Project/Site: Line 1580: 2020	City/County: Monroe	Sampling Date: 2020-10-01
Applicant/Owner: Eversource		State: Connecticut Sampling Point: 207 W22
DICI ICO	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope		
, ,	•	
Subregion (LRR or MLRA): R 144A Lat: 41.37		
Soil Map Unit Name: 75E Charlton-Chatfield complex		
Are climatic / hydrologic conditions on the site typical for this tir		
Are Vegetation, Soil, or Hydrology sign	ificantly disturbed? Are "Norma	l Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natu	rally problematic? (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _	Is the Sampled Area	
Hydric Soil Present? Yes V		Yes No
Wetland Hydrology Present? Yes No _		d Site ID: 207 W22
Drought		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Stained Leaves (B9)	✓ Drainage Patterns (B10)
	Fauna (B13)	Moss Trim Lines (B16)
	eposits (B15)	Dry-Season Water Table (C2)
	en Sulfide Odor (C1)	Crayfish Burrows (C8)
· · · · · · · · · · · · · · · · · · ·	d Rhizospheres on Living Roots (C3)	Saturation Vis ble on Aerial Imagery (C9)
	ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)Geomorphic Position (D2)
	uck Surface (C7)	Shallow Aquitard (D3)
	Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth	(inches):	
Water Table Present? Yes No Depth	(inches):	
Saturation Present? Yes No Depth	(inches): Wetland I	Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aeri	ial photos previous inspections) if ava	ailable:
Describe Necorded Data (stream gauge, monitoring well, acri	ai priotos, previous inspections), ii ave	mable.
Remarks:		
Connects to 207 WC 10 & 11		
Vegetation management occurred in RC	W after the delineation.	

/EGETATION – Use scientific names of plan	ເວ.			Sampling Point: 207 W22
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Betula nigra	40	<u> </u>	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Acer rubrum			FAC	
Chamaecyparis thyoides	5		OBL	Total Number of Dominant Species Across All Strata: 5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 80 (A/B)
S				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	70%	= Total Co	ver	OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species <u>45</u> x 2 = <u>90</u>
1. Lindera benzoin	5	~	FACW	FAC species $\frac{25}{x^3} = \frac{75}{x^3}$
2.				FACU species $\frac{0}{5}$ $x = 4$
3.				UPL species $\frac{5}{25}$ $\times 5 = \frac{25}{242}$
4				Column Totals: <u>95</u> (A) <u>210</u> (B)
5.				Prevalence Index = B/A = 2.2
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
7	5 0/			✓ 2 - Dominance Test is >50%
	370	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) 1. Osmunda spectabilis	15	V	OBL	4 - Morphological Adaptations (Provide supporting
·		-		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2.				1 Toblematic Hydrophytic Vegetation (Explain)
3	<u> </u>	1		¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10		•		
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12		1		Woody vines – All woody vines greater than 3.28 ft in
12.	450/	= Total Co		height.
Woody Vine Stratum (Plot size: 30 ft r)		- 10tai 00	vei	
1 Celastrus orbiculatus	5	~	UPL	
	 -		<u> </u>	
2.		-	-	
3		-	-	Hydrophytic Vegetation
4.	 5%			Present? Yes No
	3 /0	= Total Co	ver	

SOIL Sampling Point: 207 W22

Depth	Matrix		Red	lox Featu	res		n the absence		,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 10	10YR 2/1	90	5YR 3/4	5	С	М	Loamy sand	Restriction	ons at 10	
0 - 10			10YR 4/3	5	D	М				
						_				
-										
_										
						- -				
¹ Type: C=Co	oncentration, D=Dep	pletion, RM	I=Reduced Matrix, N	//S=Mask	ed Sand G	Grains.			_ining, M=Mat	
Hydric Soil I	ndicators:								natic Hydric S	
Histosol			Polyvalue Bel		ce (S8) (LF	RR R,			LRR K, L, ML	
Histic Ep	oipedon (A2) stic (A3)		MLRA 149I Thin Dark Sur	•	(IRRR.I	/II RA 149F			ox (A16) (LRR or Peat (S3) (L	
	n Sulfide (A4)		Loamy Mucky					Surface (S7)		, =,,
	Layers (A5)		Loamy Gleyed		- 2)				urface (S8) (L	
-	Below Dark Surfac	ce (A11)	Depleted Mati		۵)				(S9) (LRR K,	
	rk Surface (A12)		Redox Dark S						lasses (F12) (
	lucky Mineral (S1) leyed Matrix (S4)		Depleted Dark Redox Depres							(MLRA 149B) A, 145, 149B)
	edox (S5)		Redox Bepres	301010 (1 (·)			arent Materi		A, 140, 140D)
	Matrix (S6)								Surface (TF1	2)
Dark Sur	face (S7) (LRR R,	MLRA 149	B)				Other	(Explain in F	Remarks)	
³ Indicators of	hydrophytic yogoto	ation and w	etland hydrology m	ist ha pro	scont unlo	ee dieturbo	d or problematic			
	ayer (if observed)		eliand hydrology ini	ust be pre	Sent, unie	ss distuibe		<i>.</i> .		
Type: Ro										
Depth (inc							Hydric Soil	Present?	Yes	No
Remarks:										
Very boulders	s. Erratics									
1										
1										



Project/Site: Line 1580: 2020	Citv/Co	_{untv:} Naugatuck	Sampling Date: <u>2020-10-01</u>		
Applicant/Owner: Eversource			State: Connecticut Sampling Point: 209 W23		
5104 100					
Landform (hillslope, terrace, etc.): Depression					
Subregion (LRR or MLRA): R 144A					
Soil Map Unit Name: Timakwa and Natchau			NWI classification: PEM1E		
Are climatic / hydrologic conditions on the site typ					
			Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology	/ naturally problemati	ic? (If needed, e	explain any answers in Remarks.)		
SUMMARY OF FINDINGS - Attach si	te map showing samp	oling point locatio	ns, transects, important features, etc.		
Hydric Soil Present? Yes _	No No	Is the Sampled Area within a Wetland? If yes, optional Wetland			
LIVEROL OCY					
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required;	shock all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	✓ Water-Stained Leaves		✓ Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	(53)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Noss Till Lines (B10) Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor	·(C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres	• , ,	Saturation Vis ble on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced I		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)		
Field Observations:	Depth (inches):				
<u> </u>	Depth (inches):				
	Depth (inches):		lydrology Present? Yes No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previ	ous inspections), if ava	ilable:		
Remarks:					

	S.			Sampling Point: 209 W23
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1 Acer rubrum	10	<u>Opecies:</u> ✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2.	_			
3.				Total Number of Dominant Species Across All Strata: 3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of:Multiply by:
	10%	= Total Cov	er er	OBL species 0 $x 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{10}{100}$ x 2 = $\frac{20}{100}$
1. Clethra alnifolia	40		FAC	FAC species $\frac{50}{9}$ $\times 3 = \frac{150}{9}$
2. Vaccinium corymbosum	10		FACW	FACU species 0 $x = 4$ 0 UPL species 0 $x = 5$ 0
3				UPL species 0 $x = 0$ 0 0 0 0 0 0 0 0 0
4				
5				Prevalence Index = B/A = 2.8
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	50%	= Total Cov	er er	 ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence index is ≤3.0 4 - Morphological Adaptations¹ (Provide supporting)
1				data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
		= Total Cov	er	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic Vegetation
				Present? Yes No
4		= Total Cov		

SOIL Sampling Point: 209 W23

Profile Desc	cription: (Describe	to the dep	th needed to docun	nent the i	ndicator	or confirn	n the absence of indicators.))
Depth	Matrix			x Features	-	. 2		
(inches) 0 - 3	Color (moist) 10YR 3/2	100	Color (moist)	%	Type'	Loc ²	Texture Mucky Peat	Remarks
3 - 14	10YR 2/1	100					Muck	·
14 - 18	10YR 6/1	100						
14 - 10	1011 0/1	100					Loamy sand	
				· 				
				. ———				
				·				
		oletion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.	² Location: PL=Pore Lini	
Hydric Soil				0 ((OO) (I DE		Indicators for Problemat	-
✓ Histosol ✓ Histic E	(A1) pipedon (A2)		Polyvalue Below MLRA 149B)		(S8) (LRF	R,	2 cm Muck (A10) (LR Coast Prairie Redox (
Black Hi	stic (A3)		Thin Dark Surfa	ce (S9) (L) 5 cm Mucky Peat or F	Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky N Loamy Gleyed I			, L)	Dark Surface (S7) (LF Polyvalue Below Surface)	
	d Layers (A5) d Below Dark Surfac	ce (A11)	Depleted Matrix)		Polyvalue Below Surface (SS	
-	ark Surface (A12)	(Redox Dark Su					ses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Depleted Dark S		7)			Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)		Redox Depress	ions (F8)				MLRA 144A, 145, 149B)
-	Redox (S5) I Matrix (S6)						Red Parent Material (Very Shallow Dark Sum	· ·
	rface (S7) (LRR R , l	MLRA 149	3)				Other (Explain in Rem	
³ Indicators o	f hydrophytic vegeta	ation and we	etland hydrology mus	t be prese	ent, unless	disturbed	d or problematic.	
Restrictive	Layer (if observed)	:		· ·				
Type:								v
	ches):						Hydric Soil Present? You	es No
Remarks:								

Project/Site: Line 1580: 2020		City/C	ounty: Shelt	on	S	Sampling Date: 2	2020-10-01
Applicant/Owner: Eversource							
Investigator(s): RKV, JSC		Section					
Landform (hillslope, terrace, etc.							e (%)·
Subregion (LRR or MLRA): R 1							
Soil Map Unit Name: 306 Udo				N			
Are climatic / hydrologic conditio							
Are Vegetation, Soil							No. V
-							NO
Are Vegetation, Soil							
SUMMARY OF FINDINGS	3 – Attach site m	nap showing sam	pling poin	t locations, t	transects, i	important fea	atures, etc.
Hydrophytic Vegetation Preser	it? Yes	No	Is the Samp				
Hydric Soil Present?		No	within a We	tland?	Yes	No	
Wetland Hydrology Present? Remarks: (Explain alternative		No	If yes, option	al Wetland Site I	_{ID:} 210 W24		
Disturbed veg and hydrology du Connects to 210 WC 12	e to veg maintenance						
HYDROLOGY							
Wetland Hydrology Indicator		l II 4b - 4 b A				rs (minimum of to	wo required)
Primary Indicators (minimum o	•		- (DO)		Surface Soil Cr		
Surface Water (A1) High Water Table (A2)		Water-Stained Leaves Aquatic Fauna (B13)			Drainage Patte Moss Trim Line		
Saturation (A3)		Marl Deposits (B15)				ater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide Odd	or (C1)		Crayfish Burro		
Sediment Deposits (B2)		Oxidized Rhizosphere			-	ble on Aerial Ima	gery (C9)
Drift Deposits (B3)		Presence of Reduced	_			essed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduction			Geomorphic Po		
Iron Deposits (B5)		Thin Muck Surface (C	27)	\$	Shallow Aquita	rd (D3)	
Inundation Visible on Aeria		Other (Explain in Ren	narks)			nic Relief (D4)	
Sparsely Vegetated Conca	ive Surface (B8)			<u>~</u> F	AC-Neutral To	est (D5)	
Field Observations:							
	Yes No No						
Water Table Present?	Yes No				. =		
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches): U		Wetland Hydrol	logy Present?	Yes	No
Describe Recorded Data (stream	m gauge, monitoring v	vell, aerial photos, pre	vious inspecti	ons), if available:			
Remarks:							
Vegetation mana	agement occurr	ed in ROW afte	er the deli	ineation.			
]	<u> </u>						

	S.			Sampling Point: 210 W24
Tree Stratum (Plot size: 30 ft r	Absolute	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	20	Species ?	FAC	Number of Dominant Species
• Coliv pigro	20	~	OBL	That Are OBL, FACW, or FAC: 5 (A)
2. <u>Sailx Higra</u> 3				Total Number of Dominant Species Across All Strata: 6 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)
ã				
7				Prevalence Index worksheet:
·		= Total Co	····	
Osadia a/Ohash Otsatawa / Districts 15 ft r	4070	- Total Co	vei	FACW species $\frac{20}{50}$ $\frac{100}{20}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	20		FACW	FAC species 20 x 3 = 60
1. Alnus incana	20			FACU species $0 \times 4 = 0$
2. Sambucus nigra ssp. canadensis	15		NI	UPL species $0 \times 5 = 0$
3	_			Column Totals: 95 (A) 185 (B)
4		-		Prevalence Index = B/A = 1.9
5				
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	35%	= Total Co	ver	 ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r)				3 - Prevalence index is ≤3.0 4 - Morphological Adaptations¹ (Provide supporting)
1. Impatiens capensis	10		FACW	data in Remarks or on a separate sheet)
2. Osmundastrum cinnamomeum	10	~	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Onoclea sensibilis	5		FACW	1
4. Persicaria arifolia	5		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Phragmites australis	5		FACW	Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8.				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
		= Total Co	/er	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
''				
2				Understade
2				
3				Hydrophytic Vegetation

SOIL Sampling Point: 210 W24

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
0 - 12	10YR 2/1	100	Color (moist)		<u>rype</u>	LOC	Mucky Sand	Remarks
0-12	1011 2/1	100					WIUCKY Saliu	-
	-							
-								
	-							
	-	. ———	-					
-		<u> </u>						
-								
		· ——		· 				
		letion, RM	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I			Daharahaa Dalaa		(00) (I DE	. 5		for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Below MLRA 149B)		(S8) (LRF	к к,		uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		.RR R, MI	RA 149B		ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N			, L)		urface (S7) (LRR K, L)
	l Layers (A5) d Below Dark Surfac	o (A11)	Loamy Gleyed I Depleted Matrix)			ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L)
-	ark Surface (A12)	e (ATT)	Redox Dark Sui					inganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark S		7)			int Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
-	ledox (S5)							rent Material (F21)
	Matrix (S6) rface (S7) (LRR R, N	/II RA 149F	3)					nallow Dark Surface (TF12) Explain in Remarks)
Bank Gan			-,				00. (.	zxpiaiii iii romano)
			tland hydrology mus	t be prese	ent, unless	disturbed	or problematic.	
	_ayer (if observed):							
Type:							Hudria Cail I	Present? Yes V No No
	ches):						nyuric 30ii i	rieseiit! iesNO
Remarks:								

W7

Project/Site: Line 1580	City/C	county: Shelton	Sa	mpling Date: 2021-03-03
Applicant/Owner: Eversource				Sampling Point: 210 W44
Investigator(s): MHZ, RKV				
Landform (hillslope, terrace, etc.):	 Local reli	ef (concave, convex, nor	ne):	Slope (%): 3-5
Subregion (LRR or MLRA): R 144A	Lat: 41.3650513	Long: -73	.1634567	Datum: WGS 84
Soil Map Unit Name: 306				
Are climatic / hydrologic conditions on the sit	a huminal for this times of word?	An No V	INVII classificatio	. <u> </u>
Are Vegetation, Soil, or Hydro				
Are Vegetation, Soil, or Hydro	ology naturally problema	atic? (If needed, e	xplain any answers in	Remarks.)
SUMMARY OF FINDINGS - Attac	h site map showing sam	pling point location	ns, transects, in	nportant features, etc.
Hydric Soil Present? Y	es	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes	·
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicators	: (minimum of two required)
Primary Indicators (minimum of one is requ	red: check all that apply)		Surface Soil Cra	
✓ Surface Water (A1)	<u>✓</u> Water-Stained Leave	s (B9)	✓ Drainage Pattern	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines	
Saturation (A3)	Marl Deposits (B15)		Dry-Season Wat	er Table (C2)
Water Marks (B1)	Hydrogen Sulfide Ode		Crayfish Burrows	
Sediment Deposits (B2)	Oxidized Rhizosphere			e on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced		Stunted or Stress	
Algal Wat of Crust (B4) Iron Deposits (B5)	Recent Iron Reductio Thin Muck Surface (0		Geomorphic PosShallow Aquitard	
✓ Inundation Visible on Aerial Imagery (B		·	✓ Microtopographic	
Sparsely Vegetated Concave Surface (,	FAC-Neutral Tes	
Field Observations:	·			
Surface Water Present? Yes	No Depth (inches): 1			
	No Depth (inches): 2			
	No Depth (inches): 0	Wetland H	ydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, m.	onitoring well, aerial photos, pre	l vious inspections), if ava	lable:	
		. ,		
Remarks:				
Snow covered, with areas o	of exposed ground a	nd visible surfa	cewater	

/EGETATION – Use scientific names of plants.				Sampling Point: 210 W44
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	5 Cover	✓	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Percent of Dominant Species That Are OBL_FACW_or FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	5%	= Total Cov	/er	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species <u>25</u> x 2 = <u>50</u>
1. Cornus amomum	5	~	FACW	FAC species $\frac{5}{2}$ $\times 3 = \frac{15}{2}$
2.				FACU species $\frac{0}{2}$ $\times 4 = \frac{0}{2}$
3.				UPL species $\frac{0}{30}$ $x = \frac{0}{0}$
				Column Totals: <u>30</u> (A) <u>65</u> (B)
4		-		Prevalence Index = B/A = 2.2
5				
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
	5%	= Total Cov	/er	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) 1. Onoclea sensibilis	20	~	FACW	4 - Morphological Adaptations ¹ (Provide supporting
				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
2				Problematic Hydrophytic Vegetation (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				· ·
6.				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
, <u>-</u>		= Total Cov	· · ·	height.
Woody Vine Stratum (Plot size: 30 ft r		- Total Co	/CI	
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes No No No No No No No N
		= Total Cov	/er	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Remarks: (Include photo numbers here or on a separate s	sheet.)			in locations

SOIL Sampling Point: 210 W44

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix	%		x Feature:	4	1.5.2	T	Damanka
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks
0 - 24	10YR 2/1	100					Loamy Sand	Saturated, dark, very bouldery
-								
	_							
-								
				·				-
	-			·				
-								
1Type: C=Ce	noontration D-Don	lotion DM	=Reduced Matrix, MS	S-Mookoo	L Sand Cr		² l coation	: PL=Pore Lining, M=Matrix.
Hydric Soil I		netion, Kivi	-Reduced Matrix, Mis	5-IVIASKEC	i Sanu Gra	aii i5.		for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	w Surface	(S8) (LRF	RR,		Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B))			Coast	Prairie Redox (A16) (LRR K, L, R)
Black His	, ,		Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		Loamy Mucky M Loamy Gleyed I			, L)		Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L)
	l Below Dark Surfac	e (A11)	Depleted Matrix		.)		-	Park Surface (S9) (LRR K, L)
-	ark Surface (A12)	,	Redox Dark Su					anganese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Depleted Dark S		7)			ont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5) Matrix (S6)							arent Material (F21) Shallow Dark Surface (TF12)
	rface (S7) (LRR R, N	VILRA 149E	3)				-	(Explain in Remarks)
	, , , ,		,					,
			etland hydrology mus	t be prese	ent, unless	disturbed	or problemation	o.
	_ayer (if observed):							
Type:								5 10 Y Y 11
	ches):						Hydric Soil	Present? Yes No
Remarks:								

Project/Site: Line 1580	City/County: Shelton	Sampling Date: 7/22/2021
Applicant/Owner: Eversource		Sampling Point: 212 W1
Investigator(s): R. Volovski, C. Pacella	Section, Township, Range:	<u> </u>
	relief (concave, convex, none): Concave	Slope %: 0-5
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.361706	Long: -73.160246	Datum: NAD83
Soil Map Unit Name: Charlton-Chatfield complex (73C	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?		explain in Remarks.)
		
Are Vegetation X , Soil X , or Hydrology X significantly disturb		
Are Vegetation, Soil, or Hydrology naturally problems		,
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	
Hydric Soil Present? Yes X No	within a Wetland? Yes X	No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 212 W1	
The site has been altered with stone placed within the wetland and maintain wetland.	ned as grass, watercourse channalized, and fo	ot bridges built over the
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Crack	s (B6)
X Surface Water (A1) X Water-Stained Leaves (E	B9) X Drainage Patterns	(B10)
X High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (E	·
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water	
Water Marks (B1) X Hydrogen Sulfide Odor (·
Sediment Deposits (B2) Oxidized Rhizospheres of Property (B2)		on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced Iro		
Algal Mat or Crust (B4) Recent Iron Reduction in Thin Muck Surface (C7)		` '
Iron Deposits (B5) X Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Other (Explain in Remar		
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (
Field Observations:		
Surface Water Present? Yes X No Depth (inches):	: 2	
Water Table Present? Yes X No Depth (inches):		
Saturation Present? Yes X No Depth (inches):		Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Primary and secondary indicators were observed		

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 212 W1

Tree Stratum (Plot size:30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.		- ———		Number of Dominant Species
2.	-			That Are OBL, FACW, or FAC: 4 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 80.0% (A/B)
7		T-1-1 0		Prevalence Index worksheet:
Operation of Objects to the Company of Objects along the Company of Object		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)	10	Vaa	EA C\A/	OBL species15 x 1 =15
1. Cornus amomum	10	Yes	FACW	FACW species 15 x 2 = 30
2. Sparganium americanum	10	Yes	OBL	FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5.				Column Totals: 35 (A) 70 (B)
6		. ——		Prevalence Index = B/A = 2.00
7				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
Spiraea tomentosa	5	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Peltandra virginica	5	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Eupatorium album	5	Yes	UPL	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5		.		¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Senting/objub Woody plants loss than 2 in DDL
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Haute All bank account (many vocady) in lands are unaudilace
	15	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15)				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				-
3.				Hydrophytic
4.		· ——		Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet)			
The wetland meets the dominance test (>50%) and P				
,		, ,		

SOIL Sampling Point 212 W1

		the de				tor or co	onfirm the absence of	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
0-8	10YR 5/1	80	7.5YR 4/6	20	С	M	Loamy/Clayey	Prominent redox concentrations
	1011(3/1		7.511(4/0		<u> </u>		Loanly/Olaycy	
								fine sandy loam
							·	
	ncentration, D=Deple	tion, RM	l=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I			5 5.		(00) (or Problematic Hydric Soils ³ :
Histosol (Polyvalue Belo		ce (S8) (LRR R,		ick (A10) (LRR K, L, MLRA 149B)
Black His	ipedon (A2)		MLRA 149B Thin Dark Surfa	,	(I DD D	MI DA 1		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S		-			e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					k Surface (S9) (LRR K, L)
	Below Dark Surface ((A11)	Loamy Gleyed			, ,		nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	. ,	X Depleted Matri		,			nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Sp	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)			ent Material (F21)
	edox (S5)		Redox Depress		8)			allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	RK, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
³ Indicators of	hydrophytic vegetatio	n and w	etland hvdrologv mu	ust be pr	esent. ur	nless dist	urbed or problematic.	
	ayer (if observed):							
Type:	rock							
Depth (in	ches):	8					Hydric Soil Preser	nt? Yes_X No
Remarks:								
			-					CS Field Indicators of Hydric Soils,
version 7.0, 2	2015 Errata. (http://ww	/w.nrcs.u	usda.gov/internet/F	SE_DOC	JUMENI	S/nrcs14	2p2_051293.docx)	

Project/Site: Line 1580: 202	0	Citv/C	ountv: Shelton	:	Sampling Date: 2020-10-01			
Applicant/Owner: Eversource					Sampling Point: 213 W25			
Investigator(s): RKV, JSC		Section Section			· -			
Landform (hillslope, terrace, etc								
Subregion (LRR or MLRA): R	144A Lat	. 41.3605652	Long: -7	3.1593783	olope (%):			
Soil Map Unit Name: 73C Ch								
Are climatic / hydrologic conditi								
Are Vegetation, Soil								
Are Vegetation, Soil	, or Hydrology	naturally problema	itic? (If needed	, explain any answers	s in Remarks.)			
SUMMARY OF FINDING	S – Attach site m	nap showing sam	pling point locat	ions, transects,	important features, etc.			
Hydrophytic Vegetation Prese	ent? Yes	No	Is the Sampled Area					
Hydric Soil Present?		No	within a Wetland?		No			
Wetland Hydrology Present?	·	No	If yes, optional Wetla	nd Site ID: 213 W25	5			
Remarks: (Explain alternative	procedures here or in	a separate report.)	, , ,					
Drought Previous tree removal created Hydric soil indicator needed	soil, hydrology, veg dis	sturbance						
HYDROLOGY					,			
Wetland Hydrology Indicato	ors:			Secondary Indicate	ors (minimum of two required)			
Primary Indicators (minimum	of one is required; chec	k all that apply)		Surface Soil C				
Surface Water (A1)		Water-Stained Leaves	ned Leaves (B9)					
High Water Table (A2)		Aquatic Fauna (B13)	(B13) Moss Trim Lines (B16)					
Saturation (A3)		Marl Deposits (B15)						
Water Marks (B1)		Hydrogen Sulfide Odd						
Sediment Deposits (B2)		Oxidized Rhizosphere			ble on Aerial Imagery (C9)			
Drift Deposits (B3)		Presence of Reduced		Stunted or Str	essed Plants (D1)			
Algal Mat or Crust (B4) Iron Deposits (B5)		Recent Iron Reduction						
✓ Inundation Visible on Aer		Thin Muck Surface (C Other (Explain in Rem		ard (D3) ohic Relief (D4)				
Sparsely Vegetated Cond		Other (Explain in Neil	iaiks)	est (D5)				
Field Observations:	ave ourrace (Bo)			TAO-Nedital 1	cat (Ba)			
Surface Water Present?	Yes No	Depth (inches):						
Water Table Present?		_ Depth (inches):						
Saturation Present?		Depth (inches):		l Hydrology Present	? Yes <u>'</u> No			
(includes capillary fringe) Describe Recorded Data (stre	eam gauge monitoring	well aerial nhotos prev	vious inspections) if a	vailable:				
Describe Necorded Data (Sile	am gauge, monitoring t	well, aeriai priotos, pre	vious irispections), ii a	valiable.				
Remarks:								
Boulders. Water pools at base of gentle s	slone							
Water pools at base of gentie s	море							

/EGETATION – Use scientific names of plants.				Sampling Point: 213 W25
Tree Stratum (Plot size: 30 ft r)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
2				Total Number of Dominant
3				Species Across All Strata: 6 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 83 (A/B)
5 6				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
0 1 10 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		= Total Co	ver	OBL species $\frac{5}{55}$ $x = \frac{5}{110}$ FACW species $\frac{5}{50}$ $x = \frac{5}{110}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	_		EAC\\\	FAC species 20 x 3 = 60
1. Ilex verticillata			FACW	FACU species 0 x 4 = 0
2. Salix nigra	5		OBL	UPL species $0 \times 5 = 0$
3. Sambucus nigra ssp. canadensis	5		NI	Column Totals: 80 (A) 175 (B)
4				
5				Prevalence Index = B/A = 2.2
6			·	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	15%	= Total Co	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				✓ 3 - Prevalence Index is ≤3.0 ¹
1. Impatiens capensis	20	~	FACW	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Onoclea sensibilis	20	~	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Eupatorium pilosum	10		FACW	
4. Eutrochium purpureum	5		FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			· ——	· ·
5				Definitions of Vegetation Strata:
6 7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9	-	•		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	55%	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1. Toxicodendron radicans	15	V	FAC	
2.				
3.	-			Hydrophytic
4				Vegetation
· ·		= Total Co	ver	Present? Yes No
	15%	= Total Co	ver	

SOIL Sampling Point: 213 W25

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	n the absence of i	ndicators.)	
Depth	Matrix			x Feature		. 2	_		
(inches) 0 - 5	Color (moist) 10YR 3/1	<u>%</u> 100	Color (moist)	%	Type'	_Loc ²	Texture Silt Loam	Remarks	
5 - 12	2.5Y 4/2	100	-				Silt Loam		
12 - 15	2.5YR 5/2	70	10YR 6/8	30			Silt Loam		
12 - 15	2.511(3/2	- 10	10110/0	30		IVI	Silt Loain		
		-							
		-							
		-							
	-								
		-							
				-					
- 1Type: C=C		olotion DA			d Cond Cr		² l acation. DI	_=Pore Lining, M=Matrix.	
Hydric Soil		Dietion, Riv	I-Reduced Matrix, MS	5-iviaske	u Sanu Gi	airis.		Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belov		(S8) (LR	R R,		(A10) (LRR K, L, MLRA 149B)	
│ Histic Ep │ Black Hi	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Surfa		LRR R. M	LRA 149B		rie Redox (A16) (LRR K, L, R) sy Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		Loamy Mucky N	∕lineral (F	1) (LRR K		Dark Surfa	ce (S7) (LRR K, L)	
	d Layers (A5)	o (A11)	Loamy Gleyed		2)			Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Matrix Redox Dark Su)		Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)		
	lucky Mineral (S1)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 149B)		
-	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5) Matrix (S6)							t Material (F21) ow Dark Surface (TF12)	
	rface (S7) (LRR R, I	MLRA 149	B)				Other (Explain in Remarks)		
³ Indicators of	f hydrophytic vegeta	ition and w	etland hydrology mus	st be pres	ent, unles	s disturbed	l or problematic.		
	Layer (if observed)	:							
Type: Ro							Undria Cail Bra	sent? Yes 🗸 No	
Depth (inc	ches): 15						Hydric Soil Pre	sent? Yes No	
Disturbed									

Project/Site: Line 1580			City/C	ounty: Shelt	ton		Sa	mpling Date:	2021-03-03
Applicant/Owner: Eversource									
Investigator(s): MHZ, RKV			Section						
									ne (%):
Landform (hillslope, terrace, etc Subregion (LRR or MLRA): R ´	,,, <u> </u>	Lat	41.3572388	or (oorloave,	Long: -73.	1561531		Olor	w WGS 84
Soil Map Unit Name: 306		Lai							
•									<u>/12</u>
Are climatic / hydrologic conditi									
Are Vegetation, Soil									No
Are Vegetation, Soil	, or Hyd	rology	naturally problema	atic? (If needed, e	xplain any a	nswers in	Remarks.)	
SUMMARY OF FINDING	S – Attac	ch site n	nap showing sam	pling poir	nt locatio	ns, trans	ects, in	nportant fe	atures, etc.
Hydrophytic Vegetation Prese Hydric Soil Present?	`	Yes <u></u> ✓	No	Is the Samp	etland?	_		No	
Wetland Hydrology Present? Remarks: (Explain alternative				If yes, option	nal Wetland	Site ID: 21	5 W45		
Bolders Floodplain of strea	m								
HYDROLOGY									
Wetland Hydrology Indicato	rs:					Secondary	Indicators	(minimum of	two required)
Primary Indicators (minimum		uired; chec	ck all that apply)				Surface Soil Cracks (B6)		
Surface Water (A1)		<u> </u>	Water-Stained Leaves	s (B9)		Drainaç			
High Water Table (A2)			Aquatic Fauna (B13)			Moss Trim Lines (B16)			
Saturation (A3)			Marl Deposits (B15)			Dry-Season Water Table (C2)			
Water Marks (B1)			Hydrogen Sulfide Odd			Crayfish Burrows (C8)Saturation Vis ble on Aerial Imagery (C9)			
Sediment Deposits (B2)			Oxidized Rhizosphere		Roots (C3)				
Drift Deposits (B3)			Presence of Reduced		:1- (00)			sed Plants (D	1)
Algal Mat or Crust (B4) Iron Deposits (B5)			Recent Iron Reduction		iis (C6)	✓ Geomo			
Inundation Visible on Aer	ial Imagery (Thin Muck Surface (C Other (Explain in Rem				/ Aquitard	Relief (D4)	
Sparsely Vegetated Cond			Other (Explain in Neil	iaiks)		FAC-Ne			
Field Observations:		(50)						(20)	
Surface Water Present?	Yes 🗸	No	Depth (inches): 6						
Water Table Present?			_ Depth (inches): 0						
Saturation Present?			Depth (inches): 0		Wetland H	ydrology P	resent?	Yes 🗸	No
(includes capillary fringe)					'\ 'f '	1-1-1-			
Describe Recorded Data (stre	am gauge, n	nonitoring	well, aerial photos, pre	vious inspect	ions), if avai	lable:			
Remarks:									

/EGETATION – Use scientific names of plant	IS.			Sampling Point: 215 W45
Tree Stratum (Plot size: 30 ft r	Absolute		Indicator	Dominance Test worksheet:
1 Acer rubrum	<u>% Cover</u> 10	Species? ✓	FAC	Number of Dominant Species
···				That Are OBL, FACW, or FAC: $\underline{2}$ (A)
2.				Total Number of Dominant Species Across All Strata: 5 (B)
3				Species Across All Strata: 5 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 40 (A/B)
5				That Are OBL, FACW, or FAC. 40
6				Prevalence Index worksheet:
7			· 	Total % Cover of: Multiply by:
	10%	= Total Co	ver	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{30}{10}$ $\times 2 = \frac{60}{30}$
1. Cornus alba	30		FACW	FAC species $\frac{10}{5}$ $\times 3 = \frac{30}{20}$
Celastrus orbiculatus	10		UPL	FACU species 5 x 4 = 20
3				OFL species X J =
4.				Column Totals: <u>55</u> (A) <u>160</u> (B)
5				Prevalence Index = B/A = 2.9
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
· -	400/	- Total Co		2 - Dominance Test is >50%
u loui (Dui: 5 ft r	4070	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r)	20			4 - Morphological Adaptations ¹ (Provide supporting
1. Goldenrod				data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7		-		at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	000/	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r		Total Go	VOI	
1 Rosa multiflora	5	V	FACU	
			17.00	
2			· 	
3.		-	· 	Hydrophytic Vegetation
4				Present? Yes No
	5%	= Total Co	ver	

SOIL Sampling Point: 215 W45

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirn	n the absence	of indicators.)
Depth	Matrix	%		x Feature:		1.5.2	Tanduma	Downada
(inches)	Color (moist)		Color (moist)	%	Type'	Loc ²	Texture	Remarks
0 - 18	10YR 2/1	100					Silt Loam	
	_							
-								
	-							
_								
	-							
		·						
-								
1Type: C=Co	ncentration D=Den	letion RM	=Reduced Matrix, MS	S-Masked	Sand Gr	nine	² l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil I		netion, ixivi	-Neduced Matrix, Mc	o-iviaskec	i Sanu Gi	aii i5.		for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	v Surface	(S8) (LRF	RR,		luck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)	1			Coast F	Prairie Redox (A16) (LRR K, L, R)
Black His	, ,		Thin Dark Surfa					lucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		Loamy Mucky N Loamy Gleyed I			, L)		urface (S7) (LRR K, L) lue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix		•)			ark Surface (S9) (LRR K, L)
-	ark Surface (A12)	, ,	Redox Dark Su					anganese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1)		Depleted Dark S		7)			ont Floodplain Soils (F19) (MLRA 149B)
-	ileyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
-	edox (S5) Matrix (S6)							arent Material (F21) hallow Dark Surface (TF12)
	rface (S7) (LRR R, I	MLRA 149	3)					Explain in Remarks)
			etland hydrology mus	t be prese	ent, unless	disturbed	l or problematic	
	_ayer (if observed):							
Type: Ro								V N
Depth (inc	ches): 18						Hydric Soil	Present? Yes No
Remarks:								
Saturate	ed							
Boulders	3							
200.000								

Project/Site: Line 1580		City/C	county: Shel	ton		Sampling Date: 2	021-03-10	
Applicant/Owner: Eversource	}							
Investigator(s): AD, RKV								
Landform (hillslope, terrace, etc	.): Hillslope	Local reli	ief (concave,	convex, none	:):	Slope	_{e (%):} 5-8	
Subregion (LRR or MLRA): R 1								
Soil Map Unit Name: 75C						tion: PSS/PFO1		
Are climatic / hydrologic condition	ons on the site typical fo	or this time of year? Y	es N	No (If	no, explain in Re	marks.)		
Are Vegetation, Soil	, or Hydrology	, significantly distur	bed?	Are "Normal C	Circumstances" pro	esent? Yes	No	
Are Vegetation, Soil					plain any answers			
SUMMARY OF FINDING						,	itures, etc.	
Hydrophytic Vegetation Present Hydric Soil Present? Wetland Hydrology Present?	Yes	No _ No		etland?	Yes			
Remarks: (Explain alternative			,,					
HYDROLOGY						())		
Wetland Hydrology Indicator						ors (minimum of ty	vo required)	
Primary Indicators (minimum o			(50)		Surface Soil C			
Surface Water (A1)			Water-Stained Leaves (B9)			✓ Drainage Patterns (B10)✓ Moss Trim Lines (B16)		
High Water Table (A2)		Aquatic Fauna (B13)						
Saturation (A3) Water Marks (B1)		Marl Deposits (B15)						
Sediment Deposits (B2)			Irogen Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Drift Deposits (B3)			idized Rhizospheres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9 esence of Reduced Iron (C4) Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	 -	Recent Iron Reductio	, ,	Stunted or StreetGeomorphic P				
Iron Deposits (B5)		Thin Muck Surface (C			Shallow Aquita			
Inundation Visible on Aeri		•	ther (Explain in Remarks) with Microtopographic Relief (D4)					
Sparsely Vegetated Conc		Other (Explain in Rein	namo)		FAC-Neutral T			
Field Observations:	ave duriace (Bo)			<u> </u>	170-11041411	(50)		
Surface Water Present?	Yes _ 🗸 No	Depth (inches): 6						
Water Table Present?	Yes No							
Saturation Present?	Yes No			Wetland Hy	drology Present	? Yes	No	
(includes capillary fringe) Describe Recorded Data (stream)		, , , , , ,	vious inspect					
Hillside slope active	elv seeping							
Remarks:	ny cooping							
rtomano.								

Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1. Acer rubrum	30	Species:	Status FAC	Number of Dominant Species That Are OBL FACW or FAC: 4 (A)
2. Betula nigra	20		FACW	(1)
3.				Total Number of Dominant Species Across All Strata: 4 (B)
4.				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				Book and the description of the
7				Prevalence Index worksheet:
	E00/	= Total Cov	er	OBL species 10 x 1 = 10
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species 30 x 2 = 60
1. Lindera benzoin	10	~	FACW	FAC species 30 x 3 = 90
2				FACU species 0 $x = 0$
3				OPL species
4				Column Totals: 70 (A) 160 (B)
5				Prevalence Index = B/A = 2.3
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	10%	= Total Cov	er er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				 ✓ 3 - Prevalence Index is ≤3.0¹ ✓ 4 - Morphological Adaptations¹ (Provide supporting
1. Symplocarpus foetidus	10		OBL	data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3.				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
	10%	= Total Cov	ver er	neight.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate	•			
Due to time of year herbaceous stra	ta is no	t preve	lant	

Sampling Point: 217 W9

SOIL Sampling Point: 217 W9

Continues Color (moist) % Color (moist) % Type Loc Texture Remarks	(inches) Color (moist)	0/						
6 - 12 10Y 6/2 100 Sandy Loam			Color (moist)	<u></u> %	Type ¹	Loc ²	<u>Texture</u>	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Hydric Soil Present? Yes No Poppletion Reduced Sand Sand Sand Present Sand Sand Sand Sand Sand Sand Sand Sand	0 - 6 10Y 2/1	100					Sand	
Hydric Soil Indicators: Histosol (A1)	6 - 12 10Y 6/2	100					Sandy Loam	
Hydric Soil Indicators: Histosol (A1)	-		_					
Hydric Soil Indicators: Histosol (A1)								
Hydric Soil Indicators: Histosol (A1)	-							
Hydric Soil Indicators: Histosol (A1)	_ _							
Hydric Soil Indicators: Histosol (A1)	<u> </u>							
Hydric Soil Indicators: Histosol (A1)	-							
Hydric Soil Indicators: Histosol (A1)								
Hydric Soil Indicators: Histosol (A1)								
Hydric Soil Indicators: Histosol (A1)								
Hydric Soil Indicators: Histosol (A1)	<u> </u>							
Hydric Soil Indicators: Histosol (A1)	-		_					
Hydric Soil Indicators: Histosol (A1)								
Hydric Soil Indicators: Histosol (A1)							2	
Histosol (A1)		tion, RM=Re	duced Matrix, MS	=Masked	Sand Gr	ains.		
Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, R) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) βlndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No No	•		Polyvalue Relow	, Surface	(S8) (I D I	D D		•
Black Histic (A3)				Juliace	(30) (LIXI	χıχ,		
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) **Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) **Type: Depth (inches): Hydric Soil Present? Yes No			Thin Dark Surfa	ce (S9) (L	RR R, MI	RA 149B		
Depleted Below Dark Surface (A11) Depleted Matrix (F3)						, L)		
Thick Dark Surface (A12)		(A11) -)		-	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		(A11) <u>v</u>						
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		_			7)			
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			Redox Depressi	ons (F8)				
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No								
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches):		DA 1/0R)						
Restrictive Layer (if observed): Type:	Baik Guilace (67) (ERR K, ME)						Outer (Explain in Remarks)
Type: Depth (inches):	³ Indicators of hydrophytic vegetation	n and wetlar	nd hydrology mus	t be prese	nt, unless	disturbed	or problematic	
Depth (inches): No	Restrictive Layer (if observed):							
	Туре:		_					
Remarks:	Depth (inches):		<u> </u>				Hydric Soil	Present? Yes No
	Remarks:							
	³ Indicators of hydrophytic vegetation Restrictive Layer (if observed): Type: Depth (inches):		nd hydrology mus	t be prese	nt, unless	s disturbed	or problematic	

Project/Site: Line 1580		City/C	county: Shelton	Sa	mpling Date: 2021-03-10
Applicant/Owner: Eversource					Sampling Point: 218 W10
Investigator(s): AAD, RKV				e:	
Landform (hillslope, terrace, etc					
Subregion (LRR or MLRA): R 1					
Soil Map Unit Name: 3				NWI classificatio	<u></u>
Are climatic / hydrologic condition	• •	•	· · · · · · · · · · · · · · · · · · ·	,	•
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "No	ormal Circumstances" pres	ent? Yes No
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If need	ded, explain any answers ir	n Remarks.)
SUMMARY OF FINDING	S - Attach site	e map showing sam	npling point loc	cations, transects, in	nportant features, etc.
Hydrophytic Vegetation Prese	nt? Yes	V No	Is the Sampled A	rea	
Hydric Soil Present?		No	within a Wetland	? Yes <u>/</u>	No
Wetland Hydrology Present?			If yes, optional We	etland Site ID:	
Remarks: (Explain alternative	procedures here or	r in a separate report.)		<u></u>	
Ruts near 100 line.					
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indicators	(minimum of two required)
Primary Indicators (minimum o				Surface Soil Cra	
Surface Water (A1)		✓ Water-Stained Leave		Drainage Patterr	
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines	
Saturation (A3)		Marl Deposits (B15)	(04)	Dry-Season Wat	· · ·
Water Marks (B1) Sediment Deposits (B2)		Hydrogen Sulfide OdOxidized Rhizosphere		Crayfish Burrows	e on Aerial Imagery (C9)
Drift Deposits (B2)		Oxidized Rhizosphero Presence of Reduced		Stunted or Stres	= : : :
Algal Mat or Crust (B4)		Recent Iron Reductio			` '
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aquitard	
Inundation Visible on Aeri		Other (Explain in Rer	•	<u>✓</u> Microtopographi	
Sparsely Vegetated Conc	ave Surface (B8)			FAC-Neutral Tes	st (D5)
Field Observations:					
Surface Water Present?		Depth (inches): 2			
Water Table Present?		Depth (inches): 2			
Saturation Present?	Yes No	Depth (inches): 0	Wetla	and Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stre	am gauge, monitori	ng well, aerial photos, pre	vious inspections), i	if available:	
,			•		
Remarks:					

VEGETATION – Use scientific names of plants				Sampling Point: 218 W10
Tree Stratum (Plot size: 30 ft r	Absolute	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				
3.				Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7				Prevalence Index worksheet:
1.		= Total Co		Total % Cover of: Multiply by: OBL species 40 x 1 = 40
Sapling/Shrub Stratum (Plot size: 15 ft r)		_ Total Co	vei	FACW species 35 x 2 = 70
1. Cornus amomum	20	~	FACW	FAC species 20 $x_3 = 60$
2. Cornus alba	10		FACW	FACU species 15 x 4 = 60
3. Alnus incana	_ 10	. <u> </u>	FACW	UPL species 0 x 5 = 0
		-	TACW	Column Totals: 110 (A) 230 (B)
4				Prevalence Index = B/A = 2.1
5				
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7		-		✓ 2 - Dominance Test is >50%
5.0	35%	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
1. Persicaria sagittata	30		OBL	data in Remarks or on a separate sheet)
2. Smilax rotundifolia	20		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Rubus idaeus	15		FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Epilobium spp	10			be present, unless disturbed or problematic.
5. Lythrum salicaria	10		OBL	Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	0.50/	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic
4				Vegetation
	_	= Total Co	ver	Present? Yes No No
Remarks: (Include photo numbers here or on a separate	sheet.)	_ 10tal 00	vei	
Tromano. (morado prioto namboro noto or on a coparate	011001.)			

SOIL Sampling Point: 218 W10

Depth	ription: (Describe) Matrix	to the de	pth needed to docur	nent tne i x Features		r or contirn	n the absence	or indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 8	10YR 2/1	95	2.5YR 3/6	5	С	М	Silt Loam	
8 - 18	10YR 4/1	95	2.5YR 4/6	5	С	PL/M	Silt Loam	
			-					
	-		<u></u>					
-								
		_						
	-		-					
		_	-					,
	-		<u></u>					
		oletion, RN	/I=Reduced Matrix, MS	3=Masked	Sand G	rains.		: PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Below MLRA 149B)		(S8) (LF	RR R,		Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		RR R, N	ILRA 149B		Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky N					surface (S7) (LRR K, L)
	d Layers (A5)	(Δ44)	Loamy Gleyed	-	2)		-	lue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac ark Surface (A12)	e (A11)	Depleted Matrix Redox Dark Su					ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4)		Redox Depress	ions (F8)				Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5) I Matrix (S6)							arent Material (F21) hallow Dark Surface (TF12)
	rface (S7) (LRR R, I	MLRA 149	9B)					(Explain in Remarks)
_	, , ,		,					,
			vetland hydrology mus	t be prese	ent, unles	ss disturbed	l or problematio	;.
	Layer (if observed)	:						
Type:							Hudria Cail	Present? Yes No
Depth (inc	ches):						nyuric Soil	Present? Yes No
Remarks:								

Project/Site: 1580 Line	City/County: S	helton	Sampling Date: 10/6/2021
Applicant/Owner: Eversource		State:	CT Sampling Point: 219-1B
Investigator(s): RWC	Section, Towns	ship, Range:	<u> </u>
Landform (hillside, terrace, etc.): side slope	·	cave, convex, none) concave	Slope (%): 5
Subregion (LRR or MLRA): LRR R, MLRA 1	<u> </u>	Long: -73.1507739	/ Datum:
Soil Map Unit Name: Ridgebury, Leicester a			ification: PEM1
Are climatic / hydrologic conditions on the sit		x No (If no, explai	·
Are Vegetation , Soil x , or Hyd		Are "Normal Circumstances"	
		(If needed, explain any answe	
SUMMARY OF FINDINGS – Attacl			·
Hydrophytic Vegetation Present? Y	es x No Is the San	npled Area	
	es x No within a W		No
-		onal Wetland Site ID:	<u> </u>
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	licators (minimum of two required)
Primary Indicators (minimum of one is requ			oil Cracks (B6)
x Surface Water (A1)	Water-Stained Leaves (B9)		Patterns (B10)
X High Water Table (A2)	Aquatic Fauna (B13)		Lines (B16)
Saturation (A3)	Marl Deposits (B15)		on Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	 ′	Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv	· · · · · · · · · · · · · · · · · · ·	r Stressed Plants (D1)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4 Recent Iron Reduction in Tille		r Stressed Plants (D1) nic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · —	quitard (D3)
Inundation Visible on Aerial Imagery (E			graphic Relief (D4)
Sparsely Vegetated Concave Surface	· · · · · · · · · · · · · · · · · · ·		ral Test (D5)
Field Observations:			
Surface Water Present? Yes x	No Depth (inches): 3		
	No Depth (inches):		
	No Depth (inches): surface	Wetland Hydrology Prese	nt? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, m	opitoring well parial photos previous in	chactions) if available:	
Describe Necorded Data (stream gauge, in	officing well, actial priotos, previous in	spections), ii available.	
Domorko			
Remarks: A stream flows through this wetland and ha	s surface water. adiacent low areas are	saturated.	
, and the second	, ,		

VEGETATION– Use scientific names of plants. Sampling Point: 219-1B Absolute Indicator Dominant <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. None **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 33.3% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: 0 ___ Sapling/Shrub Stratum (Plot size: 15) x 1 = OBL species __ 5 1. Euonymus alatus FACW species 60 x 2 = 120 5 _ 2. FAC species x 3 = 3. **FACU** species 0 x 4 = x 5 = 5 4. UPL species 70 5. Column Totals (A) 160 (B) 6. Prevalence Index = B/A = 2.29 **Hydrophytic Vegetation Indicators:** 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% Herb Stratum (Plot size: 5) 60 X 3 - Prevalence Index is ≤3.0¹ Impatiens capensis Yes **FACW** 4 - Morphological Adaptations (Provide supporting Arrow-Leaf Tearthumb data in Remarks or on a separate sheet) 5 _ _ Solidago rugosa FAC Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 9. Sapling/shrub - Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft 105 =Total Cover Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft 1. None in height. Hydrophytic 3. Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 219-1B

Profile De	escription: (Describe	e to the d	epth needed to doc	ument	the indica	ator or co	onfirm the absence	of indicators.)	
Depth	Matrix			r Featur					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-4	10YR 2/1						Sandy	saturated	
4-10	10YR 4/1	90	10YR 5/6	10	С	М	Sandy	rocky	
			_						
			-						-
			-						-
1 _{Type:} C-	-Concentration D-De	nletien F	M-Daduard Matrix		varad ar C	antod Co	and Crains 21 aget	ion. DI =Doro Lining M	-Matrix
	=Concentration, D=De oil Indicators:	pietion, R	aw=Reduced Matrix,	CS=C0\	ered or C	oated Sa		ion: PL=Pore Lining, M Problematic Hydric So	
-	sol (A1)		Polyvalue Below	/ Surfac	e (S8) (LF	R R		(A10) (LRR K, L, MLRA	
	Epipedon (A2)		MLRA 149B)	Curido	o (00) (L i	,		ie Redox (A16) (LRR K ,	
	Histic (A3)		Thin Dark Surfa	ce (S9)	(LRR R. I	ILRA 14		y Peat or Peat (S3) (LR	•
	ogen Sulfide (A4)		High Chroma Sa		-		· —	Below Surface (S8) (LRI	-
	fied Layers (A5)		Loamy Mucky M	-				Surface (S9) (LRR K, L)	•
Deple	eted Below Dark Surfa	ce (A11)	Loamy Gleyed N				Iron-Manga	inese Masses (F12) (LR	R K, L, R)
Thick	Dark Surface (A12)		x Depleted Matrix	(F3)			Piedmont F	loodplain Soils (F19) (N	ILRA 149B)
Sand	y Mucky Mineral (S1)		Redox Dark Sur	face (F6	3)		Mesic Spoo	dic (TA6) (MLRA 144A ,	145, 149B)
Sand	y Gleyed Matrix (S4)		Depleted Dark S	Surface	(F7)		Red Parent	: Material (F21)	
	y Redox (S5)		Redox Depressi)			w Dark Surface (TF12)	
	ped Matrix (S6)		Marl (F10) (LRR	(K, L)			Other (Expl	ain in Remarks)	
Dark	Surface (S7)								
31	6	-4:d		41					
	s of hydrophytic veget		wetiand nydrology m	ust be p	present, u	niess dist	turbed or problematic		
	ve Layer (if observed stony, boulders).							
_	-	10					Hydric Soil Prese	omt? Voc V	No
	· -	10					Hydric 30ii Prese	ent? Yes X	No
Remarks:	ope adjacent to the we	atland and	d channelized etream	e indica	te previou	e evcava	ation/fill in this area		
a steep si	ope adjacent to the we	stialiu alit	d Chamilenzed Stream	3 IIIUICA	ite previou	is excava	idon/illi ili tilis area.		

Project/Site:	1580 Line		Ci	ity/County: Sh	nelton		Sampling	g Date: 10	/2/2020
Applicant/Own	er: Eversource					State:	CT Sa	ampling Poi	nt: 223-A
Investigator(s):	: JSC, SME		Se	ection, Towns	ship, Range:				
Landform (hills	side, terrace, etc.	.): side slope	Loca	al relief (conca	ave, convex, none	e) concave		Slope ((%): 5
Subregion (LR	.R or MLRA): LR	R R, MLRA 144A L	.at: 41.345158		Long: -73.14	6184		Datum:	
		y, Leicester and Whit		v stony	_ `	NWI classif	fication: P	 SS1	
		ions on the site typic	-	-	x No	(If no, explain			
Are Vegetation	, ,	, or Hydrology	•	-	Are "Normal Circu			Yes x	No
Are Vegetation		, or Hydrology			(If needed, explai	·			_ ''`
Ü		SS – Attach site				•		•	tures, etc
Hydrophytic V	/egetation Prese	ent? Yes x	(No	Is the Sam	pled Area				
Hydric Soil Pr	•	Yes x		within a W	-	Yes x	No		
Wetland Hydr	rology Present?	Yes x	No No	If yes, option	onal Wetland Site				
HYDROLOG	GY								
-	Irology Indicato					econdary Indic	cators (mir	nimum of tw	o required)
	•	of one is required; ch				_Surface So	,	,	
	Water (A1)	_	Water-Stained Le		x	Drainage P	-	-	
	ter Table (A2)	_	Aquatic Fauna (B	•		Moss Trim		-	
Saturation		_	Marl Deposits (B1	-		Dry-Seasor			
Water Ma		_	Hydrogen Sulfidex Oxidized Rhizosp			Crayfish Bu	-	3) Aerial Imag	any (CQ)
	t Deposits (B2) osits (B3)	_	Presence of Redu		• • • • • • • • • • • • • • • • • • • •	Saturation Stunted or		_	ery (Ce)
	t or Crust (B4)	_	Recent Iron Redu	•	· —	Geomorphi			
	osits (B5)	_	Thin Muck Surface			Shallow Aq		-	
	on Visible on Aer	rial Imagery (B7)	Other (Explain in			Microtopog		-	
		cave Surface (B8)		,	×	FAC-Neutra	•	` '	
Field Observ								·	
Surface Wate	r Present?	Yes No x	Depth (inches):	_ [
Water Table F	Present?	Yes No x							
Saturation Pre	esent?	Yes x No	Depth (inches):	surface	Wetland Hydro	ology Presen	ıt? Ye	es X	No
(includes capi									
Describe Rec	orded Data (stre	eam gauge, monitorir	ng well, aerial photos	, previous ins	pections), if avail	able:			
Remarks:							_		

VEGETATION– Use scientific names of plants. Sampling Point: 223-A Absolute Indicator Dominant <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1 **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) 7. Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: <u>Sapling/Shrub Stratum</u> (Plot size: 15) 15 ___ x 1 = OBL species 35 Cornus amomum 20 **FACW** FACW species x 2 = 1 2. Salix nigra OBL FAC species x 3 = 3. Spiraea alba **FACW FACU** species 0 x 4 = x 5 = 4. UPL species 0 (B) 5. Column Totals (A) 85 6. Prevalence Index = B/A = 1.70 **Hydrophytic Vegetation Indicators:** 30 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% 10 X 3 - Prevalence Index is ≤3.0¹ Symphyotrichum puniceum Yes OBL Symphyotrichum novae-angliae **FACW** 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 Onoclea sensibilis **FACW** Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft 20 =Total Cover Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft 1. None in height. Hydrophytic 3. Vegetation Yes X No No Present? =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 223-A

Depth	scription: (Describ Matrix	e to the t	=	x Feature		ator or c	omirm the absen	ice of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 2/1	90	2.5Y 6/2	5	D	М	Sandy	
			7.5YR 4/6	5	С	M		
8-12	2.5Y 6/2	90	7.5YR 5/8	10	С	M		Prominent redox concentrations
								-
¹ Type: C=	Concentration, D=De	epletion, F	RM=Reduced Matrix,	CS=Cov	ered or C	oated Sa	and Grains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
	il Indicators:							for Problematic Hydric Soils ³ :
Histos	sol (A1)		Polyvalue Belov	v Surface	e (S8) (Ll	RR R,	2 cm Mu	uck (A10) (LRR K, L, MLRA 149B)
Histic	Epipedon (A2)		MLRA 149B)				Coast P	Prairie Redox (A16) (LRR K, L, R)
	Histic (A3)		Thin Dark Surfa		-			ucky Peat or Peat (S3) (LRR K, L, R)
	gen Sulfide (A4)		High Chroma Sa					ue Below Surface (S8) (LRR K, L)
	ied Layers (A5)		Loamy Mucky N			K , L)		ark Surface (S9) (LRR K, L)
	ted Below Dark Surfa	ice (A11)	Loamy Gleyed I		2)			inganese Masses (F12) (LRR K, L, R)
	Dark Surface (A12)		x Depleted Matrix		`			nt Floodplain Soils (F19) (MLRA 149B)
	Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dark Sur Depleted Dark S					Spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21)
	Redox (S5)		Redox Depress		•			nallow Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) (LRF		•			Explain in Remarks)
	Surface (S7)			, ,				,
	, ,							
³ Indicators	of hydrophytic veget	ation and	wetland hydrology m	nust be p	resent, u	nless dis	turbed or problem	atic.
Restrictive	e Layer (if observed	I):						
Type:								
Depth (ir	nches):						Hydric Soil Pi	resent? Yes X No
Remarks:							I	
			•	-				NRCS Field Indicators of Hydric Soils
version 7.0) March 2013 Errata.	(http://wv	/w.nrcs.usda.gov/Inte	ernet/FSI	E_DOCU	MENTS/ı	nrcs142p2_05129	3.docx)

Project/Site: 1580 Line		City/County: S	helton	Sampling Date: 10/2/2020)
Applicant/Owner: Eversource			State	e: CT Sampling Point: 22	3-B
Investigator(s): JSC, SME		Section, Towns	ship, Range:		
Landform (hillside, terrace, etc.	:.): valley bottom		cave, convex, none) flat	Slope (%):	0
Subregion (LRR or MLRA): LR	· 	<u> </u>	Long: -73.145637		_
Soil Map Unit Name: Ridgebury				assification: PEM5	
Are climatic / hydrologic conditi	•	· ·	x No (If no, exp		
Are Vegetation , Soil	•		Are "Normal Circumstance		
			(If needed, explain any ans		—
				sects, important features,	, etc
Hydrophytic Vegetation Prese	ent? Yes x	No Is the San	mpled Area		
Hydric Soil Present?	Yes x	No within a V		x No	
Wetland Hydrology Present?	Yes x	No If yes, opti	ional Wetland Site ID:	<u> </u>	
LIVEROL GOV					
HYDROLOGY					
Wetland Hydrology Indicato				Indicators (minimum of two requi	red)
Primary Indicators (minimum	of one is required; chec			e Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves (B9)		ge Patterns (B10)	
x High Water Table (A2)		_Aquatic Fauna (B13)		Frim Lines (B16)	
Saturation (A3) Water Marks (B1)		_Marl Deposits (B15) Hydrogen Sulfide Odor (C1)		eason Water Table (C2) sh Burrows (C8)	
Sediment Deposits (B2)	<u> </u>	Oxidized Rhizospheres on Liv	 ′	tion Visible on Aerial Imagery (C9	١١
Drift Deposits (B3)		Presence of Reduced Iron (C4	· · · · · · · · · · · · · · · · · · ·	d or Stressed Plants (D1)	"
Algal Mat or Crust (B4)		Recent Iron Reduction in Tille		orphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (C7)	` ' —	w Aquitard (D3)	
Inundation Visible on Aer	rial Imagery (B7)	Other (Explain in Remarks)		ppographic Relief (D4)	
Sparsely Vegetated Cond		• ` '		eutral Test (D5)	
Field Observations:					
Surface Water Present?	Yes No x	Depth (inches):			
Water Table Present?	Yes x No	Depth (inches): 4			
Saturation Present?	Yes x No	Depth (inches): surface	Wetland Hydrology Pre	esent? Yes X No	<u> </u>
(includes capillary fringe)		9 1 totalestes manufacca in	e vie		_
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, previous in	spections), if available:		
Remarks:					

VEGETATION– Use scientific names of plants. Sampling Point: 223-B Absolute Indicator Dominant <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. None **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: =Total Cover Multiply by: 10 ___ Sapling/Shrub Stratum (Plot size: 15) x 1 = OBL species 90 1. Salix nigra 10 FACW species x 2 = 180 x 3 = 2. FAC species x 4 = 3. **FACU** species x 5 = 4. UPL species 0 (B) 5. Column Totals 100 (A) 190 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** 10 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Herb Stratum (Plot size: 5) Phragmites australis 90 Yes X 3 - Prevalence Index is ≤3.0¹ FACW 4 - Morphological Adaptations (Provide supporting 2. data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 6. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 9. Sapling/shrub - Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft 90 =Total Cover Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft 1. None in height. Hydrophytic 3. Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 223-B

Profile De	escription: (Describe	to the d	epth needed to doc	ument t	the indica	ator or co	onfirm the absen	ce of indicators.)	
Depth	Matrix		Redox	k Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rem	arks
0-2	10YR 2/1						Sandy		
2-4	10YR 4/1	95	7.5YR 6/4	5	С	PL	Sandy	OM str	eaking
4-12	10YR 6/1	70	10YR 8/1	25	D	M			
			7.5YR 6/4	5	<u>C</u>	<u>M</u>		Prominent redox	concentrations
		—							
		— -						<u>,</u>	
¹ Type: C=		nletion R	M=Reduced Matrix	CS=Cov	vered or C	coated Sa	and Grains ² I o	cation: PL=Pore Lin	ing M=Matrix
	oil Indicators:	pietion, ix	IVI-I TEGUCEG IVIALITX,	00-000	refea of C	oaled Sa		or Problematic Hyd	
-	sol (A1)		Polyvalue Belov	v Surfac	e (S8) (LF	RR R		ick (A10) (LRR K, L ,	
	Epipedon (A2)	-	MLRA 149B)	Vounac	c (00) (L i	XIX IX,		rairie Redox (A16) (L	
			,	oo (CO)	/I DD D .	MI DA 44			· ·
	Histic (A3)		Thin Dark Surfa				· —	icky Peat or Peat (S3	
	ogen Sulfide (A4)	-	High Chroma Sa	-				e Below Surface (S8	
	fied Layers (A5)	-	Loamy Mucky M			K , L)		k Surface (S9) (LRR	*
	eted Below Dark Surface	ce (A11)	Loamy Gleyed N	Иatrix (F	2)		Iron-Mar	nganese Masses (F1	2) (LRR K, L, R)
Thick	Dark Surface (A12)	-	Depleted Matrix	(F3)			Piedmor	nt Floodplain Soils (F	19) (MLRA 149B)
Sand	y Mucky Mineral (S1)	_	Redox Dark Sur	face (F6	6)		Mesic S _l	podic (TA6) (MLRA '	144A, 145, 149B)
Sand	y Gleyed Matrix (S4)	_	Depleted Dark S	Surface ((F7)		Red Par	ent Material (F21)	
X Sandy	y Redox (S5)	-	Redox Depressi	ons (F8)		Very Sha	allow Dark Surface (TF12)
Stripp	ped Matrix (S6)	-	Marl (F10) (LRF	R K, L)			Other (E	xplain in Remarks)	
	Surface (S7)	-		, ,				,	
³ Indicators	s of hydrophytic vegeta	ation and	wetland hydrology m	nust be p	oresent, u	nless dist	turbed or problema	atic.	
	e Layer (if observed)		, 0,		*				
Type:									
Depth (i	inches):						Hydric Soil Pr	esent? Yes	X No
Remarks:									
	form is revised from N								s of Hydric Soils
version 7.	0 March 2013 Errata. ((http://ww	w.nrcs.usda.gov/Inte	ernet/FS	E_DOCU	MENTS/r	nrcs142p2_051293	3.docx)	

Project/Site: 1580 Line		City/County: Sh	elton	Samp	oling Date: 10/2	2/2020
Applicant/Owner: Eversource			Stat	te: CT	Sampling Point	t: 224-A
Investigator(s): JSC, SME		Section, Townsl	hip, Range:		=	
Landform (hillside, terrace, etc.):	sideslope	Local relief (conca	ave, convex, none) conca	ive	Slope (%	6): 5
Subregion (LRR or MLRA): LRR R	·		Long: -73.143140		 Datum:	′——
Soil Map Unit Name: Ridgebury, L				classification:		
Are climatic / hydrologic conditions			x No (If no, ex			
Are Vegetation, SoilX	**	_	Are "Normal Circumstanc			No
	, or Hydrologyn		(If needed, explain any ar			
SUMMARY OF FINDINGS	_		•		,	ures, etc
Hydrophytic Vegetation Present?	Yes x No	ls the Sam	nled Area			
Hydric Soil Present?	Yes x No			x No)	
Wetland Hydrology Present?	Yes x No	If yes, optic	onal Wetland Site ID:			
HYDROLOGY						
Wetland Hydrology Indicators:					minimum of two	required)
Primary Indicators (minimum of o				ce Soil Crack	` '	
Surface Water (A1)		r-Stained Leaves (B9)		age Patterns Trim Lines (I		
x High Water Table (A2) Saturation (A3)		tic Fauna (B13) Deposits (B15)		Trim Lines (I eason Water		
Water Marks (B1)		ogen Sulfide Odor (C1)		eason water ish Burrows (
Sediment Deposits (B2)		zed Rhizospheres on Livir		•	on Aerial Image	rv (C9)
Drift Deposits (B3)		ence of Reduced Iron (C4)	· · · · —		ed Plants (D1)	y (33,
Algal Mat or Crust (B4)		nt Iron Reduction in Tilled		norphic Positi		
Iron Deposits (B5)		Muck Surface (C7)	` ′ —	ow Aquitard (` '	
Inundation Visible on Aerial I	magery (B7) Other	(Explain in Remarks)		topographic l		
Sparsely Vegetated Concave	e Surface (B8)		X FAC-	Neutral Test	(D5)	<u></u>
Field Observations:						
Surface Water Present? Ye		th (inches):				
Water Table Present? Ye		th (inches): 4		_		
	es <u>x</u> No Dept	th (inches): surface	Wetland Hydrology Pi	resent?	Yes X N	lo
(includes capillary fringe) Describe Recorded Data (stream	gauge monitoring well a	porial photos, previous ins	noctions) if available:			
Describe Recorded Data (Sucam	gauge, montoning wen, a	епаі рпоюз, ргечіоць інь.	pections), ii avaiiabie.			
Remarks:						

VEGETATION– Use scientific names of plants. Sampling Point: 224-A Absolute Indicator Dominant <u>Tree Stratum</u> (Plot size: 30) % Cover Species? Status **Dominance Test worksheet:** 1. None **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3. **Total Number of Dominant** 4. Species Across All Strata: 3 (B) 5. Percent of Dominant Species That Are OBL, FACW, or FAC: 6. 100.0% (A/B) Prevalence Index worksheet: =Total Cover Total % Cover of: Multiply by: 20 __ Sapling/Shrub Stratum (Plot size: 15) x 1 = OBL species __ 5 65 Cornus amomum FACW species x 2 = 130 x 3 = 2. FAC species x 4 = 3. **FACU** species 0 x 5 = 4. UPL species 0 (B) 5. Column Totals (A) 150 6. Prevalence Index = B/A = 1.76 **Hydrophytic Vegetation Indicators:** 5 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% Herb Stratum (Plot size: 5) 60 Phragmites australis X 3 - Prevalence Index is ≤3.0¹ Yes **FACW** 4 - Morphological Adaptations (Provide supporting Persicaria sagittata data in Remarks or on a separate sheet) 3. Problematic Hydrophytic Vegetation¹ (Explain) 4. 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 9. Sapling/shrub - Woody plants less than 3 in. DBH 11. and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft 80 =Total Cover Woody Vine Stratum (Plot size:) Woody vines - All woody vines greater than 3.28 ft 1. None in height. Hydrophytic 3. Vegetation Present? Yes X No =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: 224-A

Depth	Matrix		lepth needed to doc Redox	Featur		101 01 0		so of maioatoro.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 2/1	95	7.5YR 4/6	5	С	M	Loamy/Clayey	loamy sand
8-20	5Y 6/2	85	7.5YR 5/8	15	<u>C</u>	<u>M</u>	Sandy	sandy loam
					<u> </u>	<u> </u>		
						_		
						_		
Type: C=	Concentration D=De	nletion F	RM=Reduced Matrix,	CS=Cov	ered or C	oated S	and Grains ² I or	cation: PL=Pore Lining, M=Matrix.
Histos Histic Black X Hydrog Stratifi Deplet Thick I Sandy Sandy Strippe Dark S	il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) ded Below Dark Surfa Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7)		Polyvalue Below MLRA 149B) Thin Dark Surface High Chroma Sacce Loamy Mucky M Loamy Gleyed M Depleted Matrix X Redox Dark Sur Depleted Dark Sur Redox Depressi Marl (F10) (LRR	ce (S9) ands (S1 ineral (F Matrix (F (F3) face (F6 surface (ons (F8 K, L)	(LRR R, I 11) (LRR -1) (LRR 2) 5) F7)	MLRA 14 K, L) K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Man Piedmon Mesic Sp Red Pare Very Sha Other (E.	or Problematic Hydric Soils ³ : ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) e Below Surface (S8) (LRR K, L) ck Surface (S9) (LRR K, L) aganese Masses (F12) (LRR K, L, R) at Floodplain Soils (F19) (MLRA 149B) bodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21) allow Dark Surface (TF12) xplain in Remarks)
Type: Depth (ir	e Layer (if observed nches):):					Hydric Soil Pre	esent? Yes X No
Remarks: This data f	orm is revised from N		ral and Northeast Reg					NRCS Field Indicators of Hydric Soils 3.docx)

Project/Site: Line 1580: 202	20	City/C	ounty: Shelto	on	Sampling Date	2020-10-05
Applicant/Owner: Eversource				State: Con		
Investigator(s): RKV, JSC		Section				
Landform (hillslope, terrace, et						ope (%)· 3-5
Subregion (LRR or MLRA): R						
Soil Map Unit Name: 3 Ridge						um. <u> </u>
Are climatic / hydrologic conditi					•	🗸
Are Vegetation, Soil						No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If	needed, explain any a	nswers in Remarks.)	
SUMMARY OF FINDING	SS – Attach site n	nap showing sam	pling point	locations, transe	ects, important f	features, etc.
Hydrophytic Vegetation Prese		No	Is the Sampl		✓ N-	
Hydric Soil Present?		No	within a Wet	_	✓ No	_
Wetland Hydrology Present? Remarks: (Explain alternative			If yes, optiona	al Wetland Site ID: 22	7 W26	
Drought Veg in area cleared. Old agric	ultural field.					
HYDROLOGY						
Wetland Hydrology Indicate	ors:			Secondary I	ndicators (minimum o	of two required)
Primary Indicators (minimum	of one is required; chec	k all that apply)			Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	s (B9)		ge Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)			rim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			ason Water Table (C2	2)
Water Marks (B1)		Hydrogen Sulfide Odd		·	n Burrows (C8)	. (00)
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Rhizosphere Presence of Reduced			ion Vis ble on Aerial II I or Stressed Plants (I	
Algal Mat or Crust (B4)		Recent Iron Reduction			ror Stressed Plants (I rphic Position (D2)	וט
Iron Deposits (B5)		Thin Muck Surface (C			Aquitard (D3)	
Inundation Visible on Aer		Other (Explain in Rem			pographic Relief (D4)	1
Sparsely Vegetated Cond		•	•		eutral Test (D5)	
Field Observations:						
Surface Water Present?		_ Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches):	\ \	Wetland Hydrology Pr	resent? Yes	No
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pre	vious inspectio	ns), if available:		
				•		
Remarks:						
Remarks.						

tor US Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2
Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 5 x1 = 5 FACW species 25 x2 = 50 FAC species 40 x3 = 120 FACU species 0 x4 = 0 UPL species 0 x5 = 0 UPL species 0 (A) Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 5 x 1 = 5
Species Across All Strata: 2 (B)
That Are OBL, FACW, or FAC: 100
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 5 x 1 = 5 FACW species 25 x 2 = 50 FAC species 40 x 3 = 120 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 70 (A) 175 Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
OBL species 5 x 1 = 5 FACW species 25 x 2 = 50 FAC species 40 x 3 = 120 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 70 (A) 175 Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
FACW species 25
FAC species 40
FACU species 0 $x = 0$ UPL species 0 $x = 0$ Column Totals: $x = 0$ Prevalence Index = B/A = $x = 2.5$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
UPL species 0 x 5 = 0 Column Totals: 70 (A) 175 (B) Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators:1 - Rapid Test for Hydrophytic Vegetation
Column Totals: 70 (A) 175 (B) Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Prevalence Index = B/A = 2.5 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
1 - Rapid Test for Hydrophytic Vegetation
✓ 3 - Prevalence Index is ≤3.0 ¹
 4 - Morphological Adaptations¹ (Provide supportin data in Remarks or on a separate sheet)
W Problematic Hydrophytic Vegetation ¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic. Definitions of Vegetation Strata:
— Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
of size, and woody plants less than 3.28 ft tall.
Woody vines – All woody vines greater than 3.28 ft in
height.
Hydrophytic
Vegetation
Present? Yes No

SOIL Sampling Point: 227 W26

Depth	cription: (Describe Matrix			lox Feature			ii tile absence	or maicat	013.,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0 - 10	10YR 3/2	95	5YR 3/4	5	<u>C</u>	<u>M</u>	Sandy loam	Ар		
-										
-										_
	-									
								-		
-										
_										_
					_	_				
		<u> </u>								
-										
¹Type: C=Co	oncentration, D=Dep	oletion, RM	I=Reduced Matrix, N	 √S=Maske	d Sand G	rains.	² Location	n: PL=Pore	Lining, M=Mat	trix.
Hydric Soil I									ematic Hydric	
Histosol			Polyvalue Bel		e (S8) (LF	RR R,			(LRR K, L, ML	
Histic Ep	oipedon (A2)		MLRA 149	•		II DA 140E			dox (A16) (LRR	
	en Sulfide (A4)		Thin Dark Sur Loamy Mucky				•		or Peat (S3) (I) (LRR K, L)	LKK K, L, K)
	d Layers (A5)		Loamy Gleye			, ,			, (), , , , , , , , , , , , , , , , , ,	_RR K, L)
	d Below Dark Surfac	ce (A11)	Depleted Mate						e (S9) (LRR K ,	
	ark Surface (A12) Mucky Mineral (S1)		✓ Redox Dark S Depleted Dark					-	Masses (F12) (
	Gleyed Matrix (S4)		Redox Depres						16) (MLRA 144	(MLRA 149B) A. 145. 149B)
	Redox (S5)				•			arent Mate		, ,
	Matrix (S6)						-		k Surface (TF1	12)
Dark Sui	rface (S7) (LRR R, I	MLRA 149	B)				Other	(Explain in	Remarks)	
³ Indicators of	f hydrophytic vegeta	ition and w	etland hydrology m	ust be pres	sent, unles	ss disturbed	d or problemation	C.		
Restrictive L	_ayer (if observed)		, 0,	· · ·			1			
Type: Bo	oulder refusal									
Depth (inc	ches): <u>10</u>						Hydric Soil	Present?	Yes	No
Remarks:	•									

Project/Site: Line 1580: 202	0	City/C	county: Shelton	S	ampling Date: 2020-10-05
Applicant/Owner: Eversource		,			Sampling Point: 228 W27
Investigator(s): RKV, JSC		Section		nge:	
Landform (hillslope, terrace, etc				-	
	•		•	·	Slope (%). <u>0 0 </u>
Subregion (LRR or MLRA): R				-	
Soil Map Unit Name: 75C Holl					
Are climatic / hydrologic conditi					
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "I	Normal Circumstances" pre	sent? Yes No
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If nee	eded, explain any answers	in Remarks.)
SUMMARY OF FINDING	S – Attach sit	e map showing sam	pling point lo	ocations, transects, i	mportant features, etc.
Hydrophytic Vegetation Prese	ent? Yes	✓ No	Is the Sampled	Area	
Hydric Soil Present?		✓ No	within a Wetlan	d? Yes	No
Wetland Hydrology Present?			If yes, optional W	Vetland Site ID: 228 W27	•
Remarks: (Explain alternative			<i>y</i> , 1		
Drought					
Veg maintenance -trees and s	hrubs cut				
HYDROLOGY					
Wetland Hydrology Indicato	rs:			Secondary Indicator	rs (minimum of two required)
Primary Indicators (minimum	of one is required; o	heck all that apply)		<u>✓</u> Surface Soil Cr	acks (B6)
Surface Water (A1)		Water-Stained Leave		Drainage Patter	rns (B10)
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Line	
Saturation (A3)		Marl Deposits (B15)		Dry-Season Wa	
Water Marks (B1)		✓ Hydrogen Sulfide Ode		Crayfish Burrov	
Sediment Deposits (B2)		Oxidized Rhizosphere	•		ble on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced			ssed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron Reductio Thin Muck Surface (0)			
Iron Deposits (B5) ✓ Inundation Visible on Aer		Other (Explain in Ren	•	Shallow Aquitar Microtopograph	` '
Sparsely Vegetated Cond	,	Other (Explain in Nei	ilaiks)	✓ FAC-Neutral Te	
Field Observations:	ave Surface (DO)			- 1 AO-Neullai 16	531 (D3)
Surface Water Present?	Ves V No	Depth (inches): 2			
Water Table Present?		Depth (inches): 0			
Saturation Present?		Depth (inches): 0	West	tland Hydrology Present?	Yes No
(includes capillary fringe)	165 110	Deptil (iliches). <u>-</u>		liand Hydrology Fresent:	165 NO
Describe Recorded Data (stre	am gauge, monitor	ng well, aerial photos, pre	vious inspections)), if available:	
Pomorko:					
Remarks:					

'EGETATION – Use scientific names of plants	S.			Sampling Point: 228 W27
Tree Stratum (Plot size: 30 ft r)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				
7				Prevalence Index worksheet: Total % Cover of: Multiply by:
· ·		= Total Co		OBL species 20 x 1 = 20
Sapling/Shrub Stratum (Plot size: 15 ft r)		. 514 55		FACW species 30 $x = 60$
				FAC species 30 x 3 = 90
1				FACU species <u>0</u> x 4 = <u>0</u>
2				UPL species $0 x 5 = 0$
3				Column Totals: <u>80</u> (A) <u>170</u> (B)
4				Prevalence Index = B/A = 2.1
5				Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7			-	✓ 2 - Dominance Test is >50%
5.0		= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r 1. Microstegium vimineum	30	~	FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Impatiens capensis	20		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Persicaria arifolia	20	~	OBL	
4. Carex scoparia	5		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Osmundastrum cinnamomeum	5		FACW	Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
	80%	= Total Co	ver	nogna.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
-				Hydrophytic
3				Vegetation Present? Yes No
3			ver	Vegetation Present? Yes No

SOIL Sampling Point: 228 W27

Depth	Matrix	(ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 10	10YR 4/1	80	5YR 4/6	_ 20	<u>C</u>	_ <u>PL</u>	Mucky Sand	
10 -	10YR 4/1	80	5YR 4/3	20	<u>C</u>	PL	Mucky Sand	
							·	
			<u>-</u>			-	·	
	-		<u>. </u>		_			
			_					
						_		
-								
			-	_				
	-		-			-	·	
1- 0.0						 	2, ,,	
Type: C=Co		epletion, RN	M=Reduced Matrix, N	1S=Maske	ed Sand G	irains.		n: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	ow Surfac	e (S8) (LF	RR R,		Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149E		(- / (,		Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Sur					Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky Loamy Gleyed			K, L)		Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L)
	d Below Dark Surf	ace (A11)	Depleted Matr		_,			Park Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark S					langanese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Depleted Dark Redox Depres					ont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depres	SIONS (FO)			Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21)
-	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R	, MLRA 149	9B)				Other	(Explain in Remarks)
³ Indicators of	f hydronhytic yede	atation and v	vetland hydrology mu	ist he nre	sent unle	ee dieturhe	d or problematic	2
	Layer (if observe		vettaria riyarology me	13t be pres	Jone, and	33 disturbed		<i>.</i>
Type:	``	,						
Depth (inc	ches):						Hydric Soil	Present? Yes No
Remarks:	,							
İ								

Project/Site: Line 1580: 2020	City/County: Shelto	n Samplin	_{a Date:} 2020-10-08
Applicant/Owner: Eversource		State: Connecticut Samp	
DKV ICC		Range:	g
Landform (hillslope, terrace, etc.): Depression		=	Slope (%): 0-3
Subregion (LRR or MLRA): R 144A Lat: 41.32	•	•	
	man soils	ng: /3.1233/41	
Soil Map Unit Name: 3 Ridgebury, Leicester, and White	IIdii Suiis	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this ti			_
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed? Are	e "Normal Circumstances" present?	Yes No
Are Vegetation, Soil, or Hydrology nat	urally problematic? (If r	needed, explain any answers in Rem	narks.)
SUMMARY OF FINDINGS - Attach site map sh	owing sampling point	locations, transects, impor	tant features, etc.
Hydrophytic Vegetation Present? Yes No _	Is the Sample		
Hydric Soil Present? Yes No	within a Wetla	and? Yes No _	
Wetland Hydrology Present? Yes V		l Wetland Site ID: 232 W31	
Remarks: (Explain alternative procedures here or in a separ			
Drought			
Veg maintenance removal of trees and shrubs			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (mini	imum of two required)
Primary Indicators (minimum of one is required; check all that	t apply)	Surface Soil Cracks (E	36)
Surface Water (A1)	Stained Leaves (B9)	Drainage Patterns (B1	0)
1	c Fauna (B13)	Moss Trim Lines (B16	•
	eposits (B15)	Dry-Season Water Tal	
	gen Sulfide Odor (C1)	Crayfish Burrows (C8)	
	ed Rhizospheres on Living Rooms of Reduced Iron (C4)		
	nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils	Stunted or Stressed P(C6) Geomorphic Position (· · ·
	luck Surface (C7)	Shallow Aquitard (D3)	
	(Explain in Remarks)	Microtopographic Reli	
Sparsely Vegetated Concave Surface (B8)	, , ,	FAC-Neutral Test (D5	
Field Observations:			,
Surface Water Present? Yes No Depth	(inches):		
Water Table Present? Yes No Depth	(inches):		
Saturation Present? Yes No Depth	(inches): V	Vetland Hydrology Present? Yes	No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aer	rial nhotos, previous inspection	ns) if available:	
Describe Necestada Bata (diream gaage, membering well, act	iai priotos, provious inspessor	io), ii avaliabio.	
Remarks:			

				Sampling Point: 232 W31 RKV
Tree Stratum (Plot size: 30 ft r)		Dominant Species?	Status	Dominance Test worksheet: Number of Dominant Species
1 2				That Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species Across All Strata: 2 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	ver	OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $30 x2 = 60$
_{1.} Viburnum dentatum	40		FAC	FAC species $\frac{40}{2}$ $\times 3 = \frac{120}{2}$
2. Ilex verticillata	20		FACW	FACU species 0 $x = 0$
3. Cornus amomum	10		FACW	UPL species 0 $x = 0$ (B) Column Totals: (A)
1				Prevalence Index = B/A = 2.6
5				
5				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation✓ 2 - Dominance Test is >50%
	70%	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
<u>-Herb Stratum</u> (Plot size: <u>5 ft r</u>) 1)				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2.				Problematic Hydrophytic Vegetation (Explain)
3.				
4.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8		-		Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11 12				Woody vines – All woody vines greater than 3.28 ft in
12.		= Total Co		height.
Woody Vine Stratum (Plot size: 30 ft r)		- Total C0	vei	
1				
2				
				Hydrophytic
				Vegetation
3 4		-		Present? Yes No

SOIL Sampling Point: 232 W31 RKV

Profile Desc	ription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirm	n the absence of indicators.)	
Depth	Matrix			x Feature	s .			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remark	(S
0 - 4	10YR 2/1	100					Sandy loam	
4 - 10	10YR 5/1	90	5YR 4/6	10	С	M	Sandy loam	
			. <u> </u>				- <u></u>	
							- <u></u>	
			. <u> </u>				- <u></u>	
			·					
						·		
		letion, RN	/I=Reduced Matrix, MS	S=Maske	d Sand G	ains.	² Location: PL=Pore Lining, M=	
Hydric Soil I							Indicators for Problematic Hydronic	
Histosol	(A1) pipedon (A2)		Polyvalue Belov MLRA 149B)		(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, Coast Prairie Redox (A16) (L	·
Black Hi			Thin Dark Surfa		LRR R, M	LRA 149B		
	n Sulfide (A4)		Loamy Mucky M				Dark Surface (S7) (LRR K, L	
	l Layers (A5)		Loamy Gleyed N		2)		Polyvalue Below Surface (S8	
	d Below Dark Surfac	e (A11)	✓ Depleted Matrix				Thin Dark Surface (S9) (LRR	
	ark Surface (A12)		Redox Dark Sur	, ,			Iron-Manganese Masses (F1	
-	lucky Mineral (S1)		Depleted Dark S		-7)		Piedmont Floodplain Soils (F	
	Sleyed Matrix (S4)		Redox Depressi	ions (F8)			Mesic Spodic (TA6) (MLRA 1	144A, 145, 149B)
-	ledox (S5) Matrix (S6)						Red Parent Material (F21)Very Shallow Dark Surface (*	TE12)
	rface (S7) (LRR R, I	ILRA 149	DB)				Other (Explain in Remarks)	11 12)
³ Indicators of	f hvdrophytic vegeta	tion and v	etland hydrology mus	t be pres	ent. unles	s disturbed	d or problematic.	
Restrictive L	_ayer (if observed):							
Type: Ro								
Depth (inc	ches): <u>10</u>						Hydric Soil Present? Yes	No
Remarks:								

Project/Site: Line 1580: 2020	City/County: Shelton Sam	npling Date: 2020-10-08
	State: Connecticut S	
2107 100	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression		
Subregion (LRR or MLRA): R 144A Lat: 41.326202		
Soil Map Unit Name: 46 B Woodbridge fine sandy loam	NWI classification	
Are climatic / hydrologic conditions on the site typical for this time of		
•	, , ,	•
Are Vegetation <u> /</u> , Soil, or Hydrology <u> /</u> significan		
Are Vegetation, Soil, or Hydrology naturally	roblematic? (If needed, explain any answers in l	Remarks.)
SUMMARY OF FINDINGS – Attach site map showii	g sampling point locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No N	within a Wetland? Yes	No
Remarks: (Explain alternative procedures here or in a separate re		
Drought Veg management in ROW		
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators ((minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracl	ks (B6)
Surface Water (A1) Water-Staine	d Leaves (B9) 👱 Drainage Patterns	s (B10)
High Water Table (A2) Aquatic Faur		
Saturation (A3) Marl Deposit		
	fide Odor (C1) Crayfish Burrows	
		on Aerial Imagery (C9)
	Reduced Iron (C4) Stunted or Stresse Reduction in Tilled Soils (C6) Geomorphic Posit	
Rigal Mat of Crust (B4) Recent Horn Iron Deposits (B5) Thin Muck Si		
<u> </u>	n in Remarks) Microtopographic	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test	
Field Observations:	<u> </u>	()
Surface Water Present? Yes No Depth (inche	s):	
Water Table Present? Yes No Depth (inche		
Saturation Present? Yes No Depth (inches capillary fringe)	S): Wetland Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:	
Remarks:		
A residential driveway was constructed at limits of this wetland were revised on the processing that land owner activity.		

EGETATION – Use scientific names of plant	э.			Sampling Point: 232 W30 RKV
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
·				Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2. 3.				Total Number of Dominant Species Across All Strata: 6 (B)
ı				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B
S				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
45.6		= Total Co	ver	OBL species 15 x1 = 15
Sapling/Shrub Stratum (Plot size: 15 ft r)			E4 0)4/	FACW species $\frac{35}{10}$ $x 2 = \frac{70}{30}$ FAC species $\frac{10}{x}$ $x 3 = \frac{30}{x}$
1. Ilex verticillata			FACW	FACU species $0 \times 4 = 0$
Cornus amomum	10		FACW	UPL species $0 \times 5 = 0$
3				Column Totals: 60 (A) 115 (B)
l				(2)
5				Prevalence Index = B/A = 1.9
S				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
	30%	= Total Co	/er	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				✓ 3 - Prevalence Index is ≤3.0¹
Juncus effusus	10	V	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Impatiens capensis			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Scirpus cyperinus	 5	~	OBL	
				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
5 7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	20%	= Total Co	/er	height.
Noody Vine Stratum (Plot size: 30 ft r)		rotal oo		
1. Vitis riparia	10	V	FAC	
			17.0	
2				
3				Hydrophytic Vegetation
4	400/			Present? Yes No
	10%	= Total Co	ver	

SOIL Sampling Point: 232 W30 RKV

0 - 4	0 - 4 10YR 4/1 95 7.5YR 5/6 5 C M Sandy loam 4 - 8 10YR 4/1 60 10YR 5/6 40 C M Loamy sand	0 - 4		Color (moint)	%	Color (moist)	ox Feature %	es Type ¹	Loc ²	Texture		Remarks	
4 - 8	10YR 4/1 60 10YR 5/6 40 C M Loamy sand -	4 - 8		-			_					Remarks	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. A	ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ydric Soil Indicators: Histosol (A1) Black Histic (A3) Histic Epipedon (A2) Black Histic (A3) Histic (A3) Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (S8) (LRR R, MLRA 149B) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (A5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 149B) Addicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soil Present? Yes Value Hydric Soil Present? Yes No Indicators for Problematic Hydric Soil Present? Yes No Indicato					-		_					
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Sorm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvalue Below Surface (S7) (LRR K, L) Thick Dark Surface (A11) Poleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Pepleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Fedox Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Betrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LRR K, L, RLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR R, L) Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Dark Surfac	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Popeleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Extrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	4 - 8	101R 4/1	60	101R 5/6	40		IVI	Loamy sand			
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Indicators for Problematic Hydric Soils ³ : Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) Surface (S9) (LRR R, MLRA 149B) Som Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Popeleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Extrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No											
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Indicators for Problematic Hydric Soils ³ : Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) MLRA 149B) Surface (S9) (LRR R, MLRA 149B) Som Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Popeleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Extrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No											
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Indicators for Problematic Hydric Soils ³ : Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S9) (LRR	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Popeleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Extrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No		-									
Indicators for Problematic Hydric Soils ³ : Histosol (A1)	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Cast Prairie Redox (A16) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S9) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S9) (LRR	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Popeleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Extrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No			mlatian DA	A-Daduard Matrix N				21	DI -Dava	Lining M-Mate	·
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Black Histic (A3)	Black Histic (A3)	Black Histic (A3)				Polyvalue Belo	w Surface	e (S8) (LR	RR,			-	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks)	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L)	_ Histic Ep	pipedon (A2)			•			Coast P	rairie Redo	ox (A16) (LRR	K, L, R)
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 145, 149) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Stripped Matrix (S6) Other (Explain in Remarks) Strictive Layer (if observed): Type: Rock Pock Hydric Soil Present? Yes No No	Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)	Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149											RR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 145, 149) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Derk Surface (S7) (LRR R, MLRA 149B) Deth (inches): 8 Hydric Soil Present? Yes No	Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, Redox Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149I Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No							 L)				RR K. L)
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Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149 Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in R	Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145	Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149f Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Depth (inches): 8 Multiple Addressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149f Red Parent Material (F21) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)									-		
Z. Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)											
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Adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Pastrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Particlive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Estrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes V No											2)
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Pestrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Pestrictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Strictive Layer (if observed): Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	_ Dark Sur			etland hydrology mu	et he nres	sent unles	e disturbed	d or problematic			
Type: Rock Depth (inches): 8 Hydric Soil Present? Yes ✓ No	Type: Rock Depth (inches): 8 Hydric Soil Present? Yes No	Type: Rock Depth (inches): 8 Hydric Soil Present? Yes		f hydronhytic yeget	ation and w	reliand hydrology mid	ist be pres	sent, unies	s disturbed	l or problematic.			
Depth (inches): 8 Hydric Soil Present? Yes V No	Depth (inches): 8 Hydric Soil Present? Yes V No	Depth (inches): 8 Hydric Soil Present? Yes V No	dicators of										
			idicators of	_ayer (if observed)									
emarks:			ndicators of estrictive L Type: Ro	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of strictive L Type: <u>Ro</u> Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of strictive L Type: <u>Ro</u> Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of strictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of strictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of estrictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			ndicators of estrictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of estrictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			ndicators of estrictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of strictive L Type: Ro	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No
			dicators of estrictive L Type: Ro Depth (inc	_ayer (if observed) ock						Hydric Soil F	Present?	Yes	No

Project/Site: Line 1580: 2020	City/Cou	_{ntv:} Shelton	5	Sampling Date: 2020-10-08
Applicant/Owner: Eversource				Sampling Point: 236 W29 R
DIA / 100	Section,			
Landform (hillslope, terrace, etc.): Terrace				
Subregion (LRR or MLRA): R 144A		_		
Soil Map Unit Name: 2 Ridgebury fine sandy		_		
Are climatic / hydrologic conditions on the site type	· · · · · · · · · · · · · · · · · · ·			
Are Vegetation, Soil, or Hydrology	significantly disturbed	d? Are "Normal	Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydrology			xplain any answers	
SUMMARY OF FINDINGS - Attach si	te map showing sampl	ling point locatio	ns, transects,	important features, etc
Hydrophytic Vegetation Present? Yes	✓ No Is	the Sampled Area		
	∨ No w	rithin a Wetland?	Yes	No
		yes, optional Wetland	Site ID: 236 W29	RKV
Remarks: (Explain alternative procedures here		J, 1		
Drought Managed vegetation. Partial ag field w hydric soil	s			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil C	racks (B6)
Surface Water (A1)	✓ Water-Stained Leaves (I	B9)	✓ Drainage Patte	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Line	es (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W	ater Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (Crayfish Burro	
Sediment Deposits (B2)	Oxidized Rhizospheres			ble on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro			essed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in		Geomorphic P	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquita	` '
✓ Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remar	·Ks)	MicrotopograpFAC-Neutral T	
Field Observations:			FAC-Neutral 1	est (D5)
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		lydrology Present?	? Yes No
(includes capillary fringe)	dan and the state of the state		9-1-1-	
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previo	us inspections), if ava	ilable:	
Remarks:				

Species'	pover FACW	Dominance Test worksheet: Number of Dominant Species 5 (A) Total Number of Dominant 5 (B) Percent of Dominant Species 100 (A/B Percent of Dominant Species 100 (A/B Prevalence Index worksheet: Multiply by: 0 OBL species 40 x 1 = 40 FACW species 65 x 2 = 130 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 105 (A) 170 (B)
= Total Co	pover FACW	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: 100 (B) FACW species 100 (B) FACU species 100 (B) FACU species 100 (Column Totals: 100 (B)
= Total Co	pover FACW	Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: $x = 40$ FACW species $65 = x = 130$ FAC species $0 = x = 30$ FACU species $0 = x = 30$ FACU species $0 = x = 30$ UPL species $0 = x = 30$ Column Totals: $0 = 30$ Multiply by: $0 = 30$ $0 = 3$
= Total Co	pover FACW	Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40 x 1 = 40 FACW species 65 x 2 = 130 FAC species 0 x 3 = 0 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column Totals: 105 (A) 170 (B)
= Total Co	FACW	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet:
= Total Co	FACW	That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 40
= Total Co	FACW	Prevalence Index worksheet:
= Total Co	FACW	
= Total Co	FACW	OBL species 40 $x 1 = 40$ FACW species 65 $x 2 = 130$ FAC species 0 $x 3 = 0$ FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$ Column Totals: 105 (A) 170 (B)
	FACW	FACW species 65 $x 2 = 130$ FAC species 0 $x 3 = 0$ FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$ Column Totals: 105 (A) 170 (B)
		FAC species 0 $x 3 = 0$ FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$ Column Totals: 105 (A) 170 (B)
		FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$ Column Totals: 105 (A) 170 (B)
	- ——— - ———	UPL species 0 $x = 0$ (B) Column Totals: 105 (A) 170
		Column Totals: <u>105</u> (A) <u>170</u> (B)
		Prevalence Index = $R/\Delta = 1.6$
		T TOVAIGHOO HIGOX BITT
		Hydrophytic Vegetation Indicators:
		<u>✓</u> 1 - Rapid Test for Hydrophytic Vegetation
= Total Co	over	<u>✓</u> 2 - Dominance Test is >50%
		<u>✓</u> 3 - Prevalence Index is ≤3.0¹
/	FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation ¹ (Explain)
		¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
		Tree – Woody plants 3 in. (7.6 cm) or more in diamete
		at breast height (DBH), regardless of height.
	-	Sapling/shrub – Woody plants less than 3 in. DBH
-	_	and greater than or equal to 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	_	Woody vines – All woody vines greater than 3.28 ft in height.
= Total Co	over	3
		Hydrophytic
	_	Vegetation Present? Yes No
= Total Co	over	100 <u> </u>
	Total Co	FACW OBL OBL OBL

SOIL Sampling Point: 236 W29 RKV

Depth	Matrix	o to the de	oth needed to docun Redo	x Features	3		ii tiio absonoc (7 maioatoro.,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0 - 10	10YR 3/1	85	10YR 4/1	10	D	<u>M</u>	Silt Loam		
0 - 10			5YR 4/4	5	С	PL/M			
10 - 14	10YR 5/1	65	10YR 5/3	35	С	PL/M	Silt Loam		
-									
_									
					-				
				. ——					
		pletion, RM	=Reduced Matrix, MS	S=Masked	Sand G	rains.		PL=Pore Lining, M=Matrix.	
Hydric Soil								for Problematic Hydric Soils ³ :	
Histosol	(A1) pipedon (A2)		Polyvalue Below MLRA 149B)		(S8) (LF	RR R,		uck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)	
	stic (A3)		Thin Dark Surfa		.RR R, N	ILRA 149B		ucky Peat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Mucky N	-		K, L)	Dark Surface (S7) (LRR K, L)		
	d Layers (A5) d Below Dark Surfa	ce (A11)	Loamy Gleyed I Depleted Matrix	-)		-	ue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L)	
	ark Surface (A12)	,	✓ Redox Dark Sur					anganese Masses (F12) (LRR K, L, R)	
	Mucky Mineral (S1)		Depleted Dark Surface (F7)					ont Floodplain Soils (F19) (MLRA 149B)	
	Gleyed Matrix (S4) Redox (S5)		Redox Depressions (F8)					Spodic (TA6) (MLRA 144A, 145, 149B) rent Material (F21)	
	Matrix (S6)							nallow Dark Surface (TF12)	
	rface (S7) (LRR R,	MLRA 149	В)				Other (I	Explain in Remarks)	
³ Indicators o	f hydrophytic yeaeta	ation and w	etland hydrology mus	t he prese	ent unles	ss disturbed	l or problematic		
	Layer (if observed)		onana nyarology mao	Do p. 000	7111, 0111101	o diotarboo	T or problematic.		
Type: Ro	ock								
Depth (in	ches): <u>14</u>						Hydric Soil I	Present? Yes V No No	
Remarks:									

Project/Site: Line 1580: 2020	City/County: Shelton Sampling Date: 2020-10-08
Applicant/Owner: Eversource	State: Connecticut Sampling Point: 236 W28 RKV
BIAL IOO	Section, Township, Range:
	Local relief (concave, convex, none): Slope (%): 0
	80 Long: -73.1246910 Datum: NAD 83
Soil Map Unit Name: 46 B Woodbridge fine sandy loam	NWI classification: PSS/PEM
Are climatic / hydrologic conditions on the site typical for this time o	
	ntly disturbed? Are "Normal Circumstances" present? Yes No
	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No	
Wetland Hydrology Present? Yes No No	· · ·
Area impounded due to access road Veg disturbed due to mowing and maintenance. Invasive species p	prolific within wetland
HYDROLOGY Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	
Surface Water (A1) Water-Stain	
Surface Water (A1) Water-stant High Water Table (A2) Aquatic Fau	
Saturation (A3) Marl Deposi	
	Sulfide Odor (C1) Crayfish Burrows (C8)
	nizospheres on Living Roots (C3) Saturation Vis ble on Aerial Imagery (C9)
	f Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck S	
Inundation Visible on Aerial Imagery (B7) Other (Expla	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inch	
Water Table Present? Yes No V Depth (inch	
Saturation Present? Yes No Depth (incl (includes capillary fringe)	hes): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial ph	notos, previous inspections), if available:
Remarks:	
Tromano.	

EGETATION – Use scientific names of plants				Sampling Point: 236 W28 RKV
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
				Total Number of Dominant
i				Species Across All Strata: 2 (B)
l				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 50 (A/B)
S				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	/er	OBL species $\frac{30}{5}$ $\times 1 = \frac{30}{10}$
Sapling/Shrub Stratum (Plot size: 15 ft r)			0.51	FACW species $\frac{5}{0}$ $x = \frac{10}{0}$
1. Salix nigra			OBL	FAC species 0 $x 3 = 0$ FACU species 40 $x 4 = 160$
2				UPL species $0 \times 5 = 0$
3				Column Totals: 75 (A) 200 (B)
l				Prevalence Index = B/A = 2.7
5				
S				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7	050/			2 - Dominance Test is >50%
5 ft r	25%	= Total Cov	/er	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) Reynoutria japonica	40	~	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Impatiens capensis	5		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Juncus effusus	5		OBL	
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
5				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
20.4.	50%	= Total Cov	/er	
Noody Vine Stratum (Plot size: 30 ft r)				
l				
2.				
3				Hydrophytic Vegetation
4		= Total Cov		Present? Yes No
Remarks: (Include photo numbers here or on a separate Disturbed vegetation		- Total Cov	761	

SOIL Sampling Point: 236 W28 RKV

Profile Desc	ription: (Describe	to the dep	oth needed to docur	nent the	indicator	or confir	m the absence o	of indicators.)
Depth	Matrix	0/		x Feature	s1	. 2	- .	B
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 12	10YR 4/1	90	5YR 4/6	10	С	M	Loamy sand	
-								
	-						·	
				-		· 	·	
						· -	. <u> </u>	
							. <u></u> -	
							<u></u> . <u>.</u>	
-								
							·	
			-	·			·	
						· 		
							. <u> </u>	
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	S=Maske	d Sand G	ains.	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov		(S8) (LR	R R,		uck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black His	pipedon (A2)		MLRA 149B) Thin Dark Surfa		IDDD M	I DA 140E		rairie Redox (A16) (LRR K, L, R) ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N					rface (S7) (LRR K, L)
	Layers (A5)		Loamy Gleyed			L , L)		ue Below Surface (S8) (LRR K, L)
	Below Dark Surfac	e (A11)	Depleted Matrix		-,		-	rk Surface (S9) (LRR K, L)
	rk Surface (A12)	,	Redox Dark Su)			nganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark					nt Floodplain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)		Redox Depress	ions (F8)			Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
<u>✔</u> Sandy R	edox (S5)						Red Par	rent Material (F21)
Stripped	Matrix (S6)						Very Sh	allow Dark Surface (TF12)
Dark Sur	rface (S7) (LRR R, I	MLRA 149	B)				Other (E	Explain in Remarks)
³ Indicators of	hydrophytic vegeta	tion and w	etland hydrology mus	at be pres	ent, unles	s disturbed	d or problematic.	
	ayer (if observed):	:						
Type: Ro								.,
Depth (inc	ches): <u>12</u>						Hydric Soil F	Present? Yes No
Remarks:								

Project/Site: Line 1580: 2020	City/County: Shelton	Sampling Date: 2020-10-08
		State: Connecticut Sampling Point: 237 W32 RKV
DIA 100		e:
Landform (hillslope, terrace, etc.): Hillslope		
Subregion (LRR or MLRA): R 144A Lat: 41.3171		
Soil Map Unit Name: 3 Ridgebury, Leicester, and Whitmar		
Are climatic / hydrologic conditions on the site typical for this time		
Are Vegetation, Soil, or Hydrology signific		rmal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology natura	lly problematic? (If need	ed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ving sampling point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No	within a Wetland?	
Remarks: (Explain alternative procedures here or in a separate		liand Site ID
Drought Vegetation maintenance cut down trees and shrubs		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that a	• • •	Surface Soil Cracks (B6)
	ined Leaves (B9)	<u>✓</u> Drainage Patterns (B10)
High Water Table (A2) Aquatic F		Moss Trim Lines (B16)
Saturation (A3) Marl Depo Water Marks (B1) Hydrogen	Sulfide Odor (C1)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
	Rhizospheres on Living Roots (
	of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	on Reduction in Tilled Soils (C6)	` ` '
Iron Deposits (B5) Thin Mucl		Shallow Aquitard (D3)
	plain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		✓ FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No Depth (in		
Water Table Present? Yes No Depth (in		
Saturation Present? Yes No Depth (in (includes capillary fringe)	•	nd Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial	pnotos, previous inspections), r	available:
Remarks:		

Tree Stratum (Plot size: 30 ft r) 9 1.		Species?	Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A) Total Number of Dominant Species Across All Strata: 7 (B)
1				That Are OBL, FACW, or FAC: 7 (A) Total Number of Dominant Species Across All Strata: 7 (B)
2				Total Number of Dominant Species Across All Strata: 7 (B)
4				Species Across All Strata: 7 (B)
5				
5				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/B
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	=	= Total Cov	er	OBL species 5 x 1 = 5
Sapling/Shrub Stratum (Plot size: 15 ft r)			E 4 0 1 4 4	FACW species 55 $x 2 = 110$ FAC species 15 $x 3 = 45$
N/I	15		FACW	FACU species $0 \times 4 = 0$
	15		FAC	UPL species $0 \times 5 = 0$
y	10	<u> </u>	FACW FACW	Column Totals: <u>75</u> (A) <u>160</u> (B)
	10		FACW	Prevalence Index = B/A = 2.1
5				
				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7	- 00/	T-1-1-0		✓ 2 - Dominance Test is >50%
-	<u> </u>	= Total Cov	er	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r) 1. Impatiens capensis	15	V	FACW	4 - Morphological Adaptations (Provide supporting
	5	<u> </u>	OBL	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
· ·			FACW	
3. Onoclea sensibilis 4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
6				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
B				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	25%	= Total Cov	er	height.
Noody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes No
<u>-</u>	=	= Total Cov	er	· · · · · · · · · · · · · · · · · · ·
Remarks: (Include photo numbers here or on a separate she	et.)			

SOIL Sampling Point: 237 W32 RKV

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirm	m the absence of	f indicators.)
Depth	Matrix			x Feature	es	2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	<u>Loc²</u>	<u>Texture</u>	Remarks
0 - 9	10YR 3/1	95	5YR 3/6	5	<u>C</u>	M	Sandy loam	
9 - 20	10YR 5/1	75	10YR 5/8	25	<u>C</u>	M	Loamy sand	
			· -					
							·	
-								
-								
_		-						
		-			-			
Type: C=Cd	ncentration D=Der	letion RN	/=Reduced Matrix, M	S=Maske	d Sand G	ains	² l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil		netion, rei	i–Reduced Matrix, IVI	J-Maske	u oanu o	allis.		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov		e (S8) (LR	R R,		ck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B) Thin Dark Surfa		IDDD M	I DA 140E		rairie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky N					face (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed			, ,		e Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix					k Surface (S9) (LRR K, L)
	ark Surface (A12)		✓ Redox Dark Su	•	•			nganese Masses (F12) (LRR K, L, R)
-	Mucky Mineral (S1)		Depleted Dark					nt Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (Fo)				oodic (TA6) (MLRA 144A, 145, 149B) ent Material (F21)
-	Matrix (S6)							allow Dark Surface (TF12)
	rface (S7) (LRR R, I	VILRA 149	OB)					xplain in Remarks)
³ Indicators of	f hydrophytic vegeta	tion and w	etland hydrology mus	st be pres	ent unles	s disturbe	d or problematic	
	Layer (if observed)		retiana nyarenegy mae	or bo proc	orit, ariiot	- diotarbo	a or problematic.	
Type:								
Depth (inc	ches):						Hydric Soil P	resent? Yes No
Remarks:								
Very bouldery	/							

Project/Site: Line 1580	City/County: Shelton	Sampling Date: 10-20-2021			
Applicant/Owner: Eversource	<u>-</u>	Sampling Point: 239 W1			
Investigator(s): R. Volovski	Section, Township, Range:	<u> </u>			
Landform (hillside, terrace, etc.): Toeslope Local	relief (concave, convex, none): Concave				
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.313349	Long: -73.124690	 Datum: NAD83			
Soil Map Unit Name: Timakwa and Natchaug soils (17)	NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year?		explain in Remarks.)			
Are Vegetation X, Soil , or Hydrology significantly disturb					
Are Vegetation, Soil, or Hydrologynaturally problems SUMMARY OF FINDINGS – Attach site map showing sam		•			
		iportant reatures, etc.			
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No Yes Live To No Yes X No Yes	within a Wetland? Yes X	No			
Wetland Hydrology Present? Yes X No Remarks: (Explain alternative procedures here or in a separate report.)	If yes, optional Wetland Site ID: 239 W1				
The vegetation has been altered due to vegetation maintenance for an und	erground gas pipeline and overnead transmiss	sion line.			
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Crack	s (B6)			
X Surface Water (A1) X Water-Stained Leaves (B	B9) X Drainage Patterns	(B10)			
X High Water Table (A2) X Aquatic Fauna (B13)	Moss Trim Lines (E	·			
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1) X Hydrogen Sulfide Odor (· · · · · · · · · · · · · · · · · · ·				
Sediment Deposits (B2) Oxidized Rhizospheres of Reduced Irr	• • • • • • • • • • • • • • • • • • • •				
Drift Deposits (B3) Presence of Reduced Iro		` '			
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction ir Thin Muck Surface (C7)					
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	 ' ' '	·			
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (
Field Observations:	<u></u> ,	,50)			
Surface Water Present? Yes X No Depth (inches):	: 6				
Water Table Present? Yes X No Depth (inches):	·				
Saturation Present? Yes X No Depth (inches):	·	Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:				
Remarks:					
Primary and secondary indicators were observed					

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	
2. Salix nigra	15	Yes	OBL	Number of Dominant Species That Are OBL, FACW, or FAC: 8 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 9 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 88.9% (A/B)
7				Prevalence Index worksheet:
	30	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 50 x 1 = 50
1. Cornus amomum	10	Yes	FACW	FACW species 15 x 2 = 30
2. Cephalanthus occidentalis	15	Yes	OBL	FAC species15 x 3 =45
3. Salix nigra	5	No	OBL	FACU species 0 x 4 = 0
4.				UPL species 5 x 5 = 25
5				Column Totals: 85 (A) 150 (B)
6.				Prevalence Index = B/A = 1.76
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5)				X 2 - Dominance Test is >50%
Spiraea tomentosa	5	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Peltandra virginica	5	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. Eupatorium album	5	Yes	UPL	data in Remarks or on a separate sheet)
4. Sparganium americanum	5	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
5. Juncus effusus	5	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must
6.				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardless
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				l
3.				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa The wetland meets the dominance test (>50%) and F	,	ndex (<3.0)		

Sampling Point: 239 W1

SOIL Sampling Point 239 W1

Profile Desc Depth	ription: (Describe Matrix	to the de		ument th x Featur		itor or co	onfirm the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-12	10YR 2/1	100					Muck	
12-24	10YR 2/1	100					Mucky Sand	
	101112/1	100					muony cana	
		·						
								
¹Type: C=Co	oncentration, D=Depl	letion, RM	л=Reduced Matrix, №	/IS=Masi	ked Sand	I Grains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belo		ce (S8) (I	LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
X Histic Ep			MLRA 149B	•			Coast Prairie Redox (A16) (LRR K, L, R)	
X Black Hi	` ,		Thin Dark Surf					R)
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)	
	l Layers (A5) l Below Dark Surface	· (A11)	Loamy Mucky Loamy Gleyed			K K, L)	Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L,	D)
	rk Surface (A12)	e (A11)	Depleted Matri		F2)		Piedmont Floodplain Soils (F19) (MLRA 14	
	lucky Mineral (S1)		Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 145	
	ileyed Matrix (S4)		Depleted Dark		-		Red Parent Material (F21)	-,
	edox (S5)		Redox Depres				Very Shallow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Explain in Remarks)	
Dark Sui	face (S7)							
3								
	, , , ,	ion and w	etland hydrology mu	ıst be pr	esent, ur	nless dist	turbed or problematic. I	
Type:	_ayer (if observed):							
•).						Hudria Cail Brosanto Vas V. Na	
Depth (ir	icnes):						Hydric Soil Present? Yes X No	_
Remarks:	m is revised from No	rthaantra	Land Northeast Dea	ional Cu	n n l n m n n t	· \/oraian	2.0 to include the NRCS Field Indicators of Hydric Soils,	
	2015 Errata. (http://w							
,	` '		9	_			,	

Project/Site: Line 1580	City/County: Shelton Sampling Date: 10-9-2021					
Applicant/Owner: Eversource	State: CT Sampling Point: 241 W1					
Investigator(s): R. Volovski	Section, Township, Range:					
- ``	relief (concave, convex, none): Concave Slope %: 0					
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.310517	Long: -73.124252 Datum: NAD83					
Soil Map Unit Name: Ridgebury fine sandy loam (3)	NWI classification: PSS					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes No (If no, explain in Remarks.)					
Are Vegetation X, Soil , or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes Nox					
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 241 W1					
Remarks: (Explain alternative procedures here or in a separate report.) The vegetation has been altered due to vegetation maintenance for an undoprought	erground gas pipeline and overhead transmission line.					
HYDROLOGY						
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1) Water-Stained Leaves (E	B9) X Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)					
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)					
Water Marks (B1) Hydrogen Sulfide Odor (<u> </u>					
Sediment Deposits (B2) Oxidized Rhizospheres of						
Drift Deposits (B3) Presence of Reduced Iro						
Algal Mat or Crust (B4)Recent Iron Reduction in						
Iron Deposits (B5) Thin Muck Surface (C7)						
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)					
Field Observations:						
Surface Water Present? Yes No X Depth (inches):						
Water Table Present? Yes No X Depth (inches):						
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	I evious inspections), if available:					
Remarks:						
Primary and secondary indicators were observed						

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 241 W1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Nyssa sylvatica	10	Yes	FAC	
2.				Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
3. 4.				Total Number of Dominant Species Across All Strata:6(B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 83.3% (A/B)
7				Prevalence Index worksheet:
	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 20 x 1 = 20
1. Ilex verticillata	15	Yes	FACW	FACW species 45 x 2 = 90
2. Clethra alnifolia	15	Yes	FAC	FAC species 25 x 3 = 75
3. Rosa multiflora	10	Yes	FACU	FACU species 10 x 4 = 40
4.				UPL species0 x 5 =0
5		<u> </u>		Column Totals: 100 (A) 225 (B)
6.		<u> </u>		Prevalence Index = B/A = 2.25
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Impatiens capensis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
Carex lurida	20	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
3. <u>Garex funda</u>				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5. 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.		·		Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11.				and greater than or equal to 3.20 it (1 iii) tail.
12	50	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				1 hodina salayatia
3				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			1
The wetland meets the dominance test (>50%) and P				

SOIL Sampling Point 241 W1

	-	to the de	-			ator or co	onfirm the absence o	f indicators.)
Depth	Matrix			k Featur		. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 3/1	85	7.5YR 3/4	10	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 5/2	5	D	<u>M</u>		
								_
							<u> </u>	
							 	
1Type: C=C	oncentration, D=Depl	lotion PA	4-Poducod Matrix M		kod Sand		² Location: D	L=Pore Lining, M=Matrix.
Hydric Soil		ellon, Ki	/i-Reduced Matrix, N	15-IVIASI	keu Sand	Grains.		or Problematic Hydric Soils ³ :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I RR R		ick (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		00 (00) (Little,		rairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa	•	(LRR R	. MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S				· —	e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					k Surface (S9) (LRR K, L)
	l Below Dark Surface	e (A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	` '	Depleted Matrix		,			nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	6)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K , L)			Other (E	xplain in Remarks)
Dark Sui	face (S7)							
3								
		ion and v	vetland hydrology mu	ıst be pr	esent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):	l.						
Type:	roc							
Depth (ir	nches):	14					Hydric Soil Preser	nt? Yes <u>x</u> No
Remarks:								
								CS Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	ww.nrcs	.usda.gov/internet/F3	ב_טטנ	JUMENT	S/nrcs 142	2p2_051293.docx)	

Project/Site: Line 1580	City/County: Shelt	on	Sampling Date: 10-9-2021						
Applicant/Owner: Eversource		State: CT Sampling Point: 242 V							
Investigator(s): R. Volovski	Section, -	Section, Township, Range:							
Landform (hillside, terrace, etc.): backslope	Local relief (concave, con	·	Slope %: 0						
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41		g: -73.124444	Datum: NAD83						
Soil Map Unit Name: Ridgebury fine sandy loam (3)		NWI classification:							
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes	No (If no, e	explain in Remarks.)						
Are Vegetation X , Soil , or Hydrology sig			ent? Yes No x						
Are Vegetation, Soil, or Hydrologyna	aturally problematic? (If need	ded, explain any answers in	n Remarks.)						
SUMMARY OF FINDINGS – Attach site map s		ations, transects, im	iportant features, etc.						
Hydrophytic Vegetation Present? Yes X	No Is the Sampled	Area							
<u> </u>	No within a Wetlan		No						
Wetland Hydrology Present? Yes X	No If yes, optional V	Vetland Site ID: 242 W1							
Remarks: (Explain alternative procedures here or in a separate report.) The vegetation has been altered due to vegetation maintenance for an underground gas pipeline and overhead transmission line. Drought									
HYDROLOGY									
Wetland Hydrology Indicators:			minimum of two required)						
Primary Indicators (minimum of one is required; check all the		Surface Soil Cracks	· · ·						
1 	Stained Leaves (B9)	X Drainage Patterns							
I 	Fauna (B13)	Moss Trim Lines (B16)							
	eposits (B15)	Dry-Season Water Table (C2)							
	en Sulfide Odor (C1)								
 -	d Rhizospheres on Living Roots (C3								
	ce of Reduced Iron (C4)	X Stunted or Stresse							
	Iron Reduction in Tilled Soils (C6)	· / - · · · · · · · · · · · · · · · · ·							
I · · · · / 	uck Surface (C7)	· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `							
I —	Explain in Remarks)	X Microtopographic F							
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)						
Field Observations:									
Surface Water Present? Yes No X	Depth (inches):								
Water Table Present? Yes No X	Depth (inches):								
Saturation Present? Yes No X	Depth (inches): Wetl	and Hydrology Present?	Yes <u>X</u> No						
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitoring well, a	ierial photos, previous inspections),	if available:							
Remarks:		_							
Primary and secondary indicators were observed									

VEGETATION – Use scientific names of plants.

Sampling Point: 242 W1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Nyssa sylvatica 2.	50	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 5 (B)
5.6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 10 x 1 = 10
1. Ilex verticillata	20	Yes	FACW	FACW species 30 x 2 = 60
2. Clethra alnifolia	40	Yes	FAC	FAC species 90 x 3 = 270
3. Rosa multiflora	10	No	FACU	FACU species 10 x 4 = 40
4.				UPL species 0 x 5 = 0
5.				Column Totals: 140 (A) 380 (B)
6.				Prevalence Index = B/A = 2.71
7.				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Spiraea alba	10	Yes	FACW	X 3 - Prevalence Index is ≤3.0 ¹
2. Carex lurida	10	Yes	OBL	4 - Morphological Adaptations ¹ (Provide supporting
2				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation ¹ (Explain)
5. 6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Meady plants 2 in (7.6 cm) or mars in
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:15) 1				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		<u> </u>
Remarks: (Include photo numbers here or on a separ				
The wetland meets the dominance test (>50%) and P		ndex (<3.0)		

SOIL Sampling Point 242 W1

Depth	Matrix	o tile de	•	dox Featu		ator or co	onfirm the absence of ind	iicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 2/2	100					Loamy/Clayey	
3-20	10YR 5/1	80	7.5YR 4/6	20	C	M	Loamy/Clayey	
			-					
				_				
	oncentration, D=Deple	etion, RN	/I=Reduced Matrix	k, MS=Mas	ked San	d Grains.		ore Lining, M=Matrix.
Hydric Soil I			Debarelue B	alau Curfa	aa (CO) (LDDD		roblematic Hydric Soils ³ :
Histosol	oipedon (A2)		Polyvalue B MLRA 14		ce (So) (LKK K,		A10) (LRR K, L, MLRA 149B) • Redox (A16) (LRR K, L, R)
Black His			Thin Dark S	•) (LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chrom	-				elow Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Muc					ırface (S9) (LRR K, L)
X Depleted	Below Dark Surface	(A11)	Loamy Gley	ed Matrix ((F2)		Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		X Depleted Ma	atrix (F3)			Piedmont Flo	oodplain Soils (F19) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark	-	-		Mesic Spodio	c (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Da					Material (F21)
	edox (S5)		Redox Depr	-	8)			Dark Surface (F22)
	Matrix (S6) face (S7)		Marl (F10) (LRR K, L)			Otner (Explai	in in Remarks)
Dark Sui	lace (ST)							
³ Indicators of	f hydrophytic vegetation	on and w	vetland hydrology	must be p	resent, u	nless dist	urbed or problematic.	
Restrictive L	_ayer (if observed):							
Type:	rock							
Depth (ir	nches):	14					Hydric Soil Present?	Yes x No
	m is revised from Nor 2015 Errata. (http://w							ield Indicators of Hydric Soils,
-,	(1		5				/	

Project/Site: Line 1580	City/County: Shelton Sampling Date: 10-15-2021
Applicant/Owner: Eversource	State: CT Sampling Point: 243 W1
Investigator(s): S. Ecrament, J. Cianciolo	Section, Township, Range:
Landform (hillside, terrace, etc.): backslope	Local relief (concave, convex, none): Concave Slope %: 0
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 41.30	
Soil Map Unit Name: Timakwa and Natchaug Soils (17)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this tim	ne of year? Yes No (If no, explain in Remarks.)
Are Vegetation X, Soil , or Hydrology signifi	<u> </u>
Are Vegetation, Soil, or Hydrologynatura	
	wing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: 242 W1
Remarks: (Explain alternative procedures here or in a separat	e report.)
Drought	
HYDROLOGY	
	Construction of the properties of the properties of
Wetland Hydrology Indicators:	Surface Soil Cracks (RS)
Primary Indicators (minimum of one is required; check all that Surface Water (A1) X Water-Stain	apply) Surface Soil Cracks (B6) Med Leaves (B9) X Drainage Patterns (B10)
X High Water Table (A2) Aquatic Fau	
X Saturation (A3) Aduatic Faul Aduatic Faul Marl Deposi	
	Sulfide Odor (C1) Crayfish Burrows (C8)
	nizospheres on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)
	f Reduced Iron (C4) X Stunted or Stressed Plants (D1)
	Reduction in Tilled Soils (C6) X Geomorphic Position (D2)
	Surface (C7) Shallow Aquitard (D3)
	ain in Remarks) X Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
	X Thornoulai Test (50)
Field Observations:	
	epth (inches):
	epth (inches): 1
<u> </u>	epth (inches):0
(includes capillary fringe)	1. 1
Describe Recorded Data (stream gauge, monitoring well, aeria	il photos, previous inspections), if available:
Remarks:	
Primary and secondary indicators were observed	
Tilliary and occordary indicators were esserved	

 VEGETATION – Use scientific names of plants.
 Sampling Point:
 243 W1

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:4(A)
3. 4.				Total Number of Dominant Species Across All Strata: 4 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15)				OBL species 100 x 1 = 100
1. Cornus amomum	20	Yes	FACW	FACW species 80 x 2 = 160
2. Clethra alnifolia	5	Yes	FAC	FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 185 (A) 275 (B)
				Prevalence Index = B/A = 1.49
7.				Hydrophytic Vegetation Indicators:
· ·	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		Total Covol		X 2 - Dominance Test is >50%
· · · · · · · · · · · · · · · · · · ·	80	Yes	OBL	X 3 - Prevalence Index is ≤3.0 ¹
<u> </u>				4 - Morphological Adaptations ¹ (Provide supporting
2. Phalaris arundinacea	60	Yes	FACW	data in Remarks or on a separate sheet)
3. Lythrum salicaria	20	<u>No</u>	OBL	
4				Problematic Hydrophytic Vegetation ¹ (Explain)
5	-			¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All barbassaus (non woody) plants regardless
	160	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15)				
1				Woody vines – All woody vines greater than 3.28 ft in height.
2				g.ta
2	-			Hydrophytic
				Vegetation Present? Yes X No
4		T-4-1 O	•	Present? Yes X No No
		=Total Cover		
Remarks: (Include photo numbers here or on a separathe wetland meets the dominance test (>50%) and P		ndov (<3 0)		
The welland meets the dominance test (>30 %) and F	revelance ii	idex (~3.0)		

SOIL Sampling Point 243 W1

		o the de				ator or co	onfirm the absence of in	dicators.)
Depth	Matrix	0/		K Featur		1 2	Taratrina	Damandra
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-4	10YR 2/2	100					Sandy	
4-16	10YR 5/1	90	10YR 5/6	10	<u>C</u>	M	Sandy	
					<u> </u>			
								_
	ncentration, D=Deple	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.		Pore Lining, M=Matrix.
Hydric Soil Ir Histosol (Polyvalue Belo	w Surfa	ca (S8) (I DD D		Problematic Hydric Soils ³ : (A10) (LRR K, L, MLRA 149B)
	pedon (A2)		MLRA 149B		ce (30) (LKK K,		ie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		(LRR R	, MLRA 1		Peat or Peat (S3) (LRR K, L, R)
X Hydrogen			High Chroma S					selow Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) (LR I	R K, L)	Thin Dark S	Surface (S9) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Loamy Gleyed	Matrix (F2)		Iron-Manga	nese Masses (F12) (LRR K, L, R)
	k Surface (A12)		Depleted Matri					loodplain Soils (F19) (MLRA 149B)
	ucky Mineral (S1)		Redox Dark Su					lic (TA6) (MLRA 144A, 145, 149B)
	eyed Matrix (S4)		Depleted Dark					Material (F21)
X Sandy Re	Matrix (S6)		Redox Depress Marl (F10) (LR		5)			w Dark Surface (F22) ain in Remarks)
Dark Surf				it it, =)			Other (Expire	an in Nomano)
	,							
³ Indicators of	hydrophytic vegetation	on and w	etland hydrology mι	ıst be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive L	ayer (if observed):							
Type:								
Depth (in	ches):						Hydric Soil Present?	Yes <u>x</u> No
Remarks:								
	n is revised from Nor 2015 Errata. (http://w							Field Indicators of Hydric Soils,
version 7.0, 2	:015 Enata. (http://w	ww.mcs.	usua.gov/internet/F3	ב_טטנ	JUIVIEINI	S/IIICS 14.	2p2_051293.docx)	

Project/Site: Line 1580	City/County: She	elton Sa	mpling Date: 2021-03-10
Applicant/Owner: Eversource		State: Connecticut	
		p, Range:	
Landform (hillslope, terrace, etc.):			
Subregion (LRR or MLRA): R 144A Lat:	41 3029175	., convex, none)	Slope (%)
		NWI classification	
Are climatic / hydrologic conditions on the site typical for			•
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" pres	ent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing sampling po	int locations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	No Is the Sar	npled Area	
	110	Vetland? Yes	No
Wetland Hydrology Present?		onal Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a			
HYDROLOGY			
Wetland Hydrology Indicators:			s (minimum of two required)
Primary Indicators (minimum of one is required; check		Surface Soil Cra	
	Water-Stained Leaves (B9)	Drainage Patter	
l .	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines Dry-Season Wat	
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows	
·	Oxidized Rhizospheres on Living		e on Aerial Imagery (C9)
1	Presence of Reduced Iron (C4)	Stunted or Stres	
	Recent Iron Reduction in Tilled S		· ·
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitare	d (D3)
<u> </u>	Other (Explain in Remarks)	Microtopographi	
Sparsely Vegetated Concave Surface (B8)		<u>✓</u> FAC-Neutral Tes	st (D5)
Field Observations:			
Surface Water Present? Yes No			
l .	Depth (inches):	Wetland Hydrology Present?	Vac V Na
Saturation Present? Yes No	Depth (inches): 1	wetiand Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspe	ctions), if available:	
Remarks:			

Tree Stratum (Plot size: 30 ft r) % Cover 1.	Species Species Total Co Total Co Total Co Total Co	over FACW FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 25 x2 = 50 FAC species 2 x3 = 6 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 27 (A) 56 (B) Prevalence Index = B/A = 2.1 Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
1	= Total C	over FACW FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 25 x2 = 50 FAC species 2 x3 = 6 FACU species 0 x4 = 0 UPL species 0 x5 = 0 Column Totals: 27 (A) 56 (B) Prevalence Index = B/A = 2.1 Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
Sapling/Shrub Stratum (Plot size: 15 ft r	_ = Total C	over FACW FAC	Species Across All Strata: 2 (B) Percent of Dominant Species 100 (A/B Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft r	_ = Total C	over FACW FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: OBL species FACW species FACW species FACU species UPL species Column Totals: Prevalence Index = B/A = 2.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 1 - Prevalence Index is ≤3.0¹ Multiply by: Multiply
Sapling/Shrub Stratum (Plot size: 15 ft r	_ = Total C	over FACW FAC	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft r)	_ = Total C	over FACW FAC Over	Total % Cover of: OBL species OBL spec
Sapling/Shrub Stratum (Plot size: 15 ft r	= Total C	FACW FAC	OBL species 0 $x 1 = 0$ FACW species 25 $x 2 = 50$ FAC species 2 $x 3 = 6$ FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$ Column Totals: 27 (A) 56 (B) Prevalence Index $= B/A = 2.1$ Hydrophytic Vegetation Indicators: $1 - 1$ Rapid Test for Hydrophytic Vegetation $1 - 1$ Prevalence Index is $1 - 1$ Prevalence
Alnus incana 20 20 20 20 20 20 20 2		FACW FAC	FACW species $\frac{25}{2}$ $\times 2 = \frac{50}{6}$ FAC species $\frac{2}{2}$ $\times 3 = \frac{6}{6}$ FACU species $\frac{0}{2}$ $\times 4 = \frac{0}{2}$ UPL species $\frac{0}{2}$ $\times 5 = \frac{0}{2}$ Column Totals: $\frac{27}{2}$ (A) $\frac{56}{2}$ (B) Prevalence Index = B/A = $\frac{2.1}{2}$ Hydrophytic Vegetation Indicators: $\frac{\checkmark}{2}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{\checkmark}{2}$ 2 - Dominance Test is >50% $\frac{\checkmark}{2}$ 3 - Prevalence Index is $\le 3.0^{1}$
Alnus incana 20	= Total C	FAC	FAC species $\frac{2}{0}$ $x3 = \frac{6}{0}$ FACU species $\frac{0}{0}$ $x4 = \frac{0}{0}$ UPL species $\frac{0}{27}$ $x5 = \frac{0}{56}$ Column Totals: $\frac{27}{0}$ (A) $\frac{56}{0}$ (B) Prevalence Index = B/A = $\frac{2.1}{0}$ Hydrophytic Vegetation Indicators: $\frac{\cancel{U}}{0}$ 1 - Rapid Test for Hydrophytic Vegetation $\frac{\cancel{U}}{0}$ 2 - Dominance Test is >50% $\frac{\cancel{U}}{0}$ 3 - Prevalence Index is $\leq 3.0^{1}$
2 Acer rubrum 2 3.	= Total C	FAC	FACU species 0 $x = 4 = 0$ UPL species 0 $x = 5 = 0$ Column Totals: 0 0 0 0 0 0 0 0 0 0
Sample Stratum Concess Stratum Concess Stratum Concess Stratum Strat	= Total C	over	UPL species $\frac{0}{27}$ $x = \frac{0}{56}$ (B) Prevalence Index = B/A = $\frac{2.1}{2}$ Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is $\leq 3.0^1$
1.	= Total C	over	Column Totals: 27 (A) 56 (B) Prevalence Index = B/A = 2.1 Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
22%	= Total C	over	Prevalence Index = B/A = 2.1 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
22% Herb Stratum (Plot size: 5 ft r) Onoclea sensibilis 5	_ = Total C	over	Hydrophytic Vegetation Indicators: ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
22%	_ = Total C	over	 ✓ 1 - Rapid Test for Hydrophytic Vegetation ✓ 2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r) Onoclea sensibilis 5			2 - Dominance Test is >50% ✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r) Onoclea sensibilis 5			✓ 3 - Prevalence Index is ≤3.0¹
Onoclea sensibilis 5		EA CVA/	1
Onoclea sensibilis 5		EAC\A/	
3		FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
			Problematic Hydrophytic Vegetation ¹ (Explain)
1	_		Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
S			Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3.			
).	_	_	 Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			
11			 Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.			Woody vines – All woody vines greater than 3.28 ft in
 5%	= Total C	over	height.
Noody Vine Stratum (Plot size: 30 ft r)	_ = 10tai 0	ovei	
l			-
2			-
3	_		Hydrophytic
4			Vegetation Present? Yes No
	_ = Total C	over	
Remarks: (Include photo numbers here or on a separate sheet.)			
Portions of veg mowed			

SOIL Sampling Point: 244 W63

Depth	Matrix			ox Featur	es					
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc ²	<u>Texture</u>	Remarks		
0 - 8	10YR 4/1	90	10YR 4/6	10	<u>C</u>	<u> </u>	Sandy Loam			
8 - 12	10YR 4/1	85	10YR 5/3	15	D	М	Sandy Loam			
-										
						-				
				_						
							·			
-										
		-								
1			. 				2			
Type: C=Co		epletion, RN	<u>//I=Reduced Matrix, N</u>	/IS=Maske	ed Sand G	Grains.		: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :		
Histosol			Polyvalue Belo	ow Surfac	e (S8) (LF	RR R.		Muck (A10) (LRR K, L, MLRA 149B)		
Histic Ep	oipedon (A2)		MLRA 1498	3)			Coast I	Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Sur					Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4) d Layers (A5)		Loamy Mucky Loamy Gleyed			N , L)		urface (S7) (LRR K, L) lue Below Surface (S8) (LRR K, L)		
	d Below Dark Surfa	ace (A11)	Depleted Matr		_,			ark Surface (S9) (LRR K, L)		
	ark Surface (A12)		Redox Dark S					anganese Masses (F12) (LRR K, L, R)		
-	lucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Redox Depres				 Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) 			
	Redox (S5)		Redox Depres	310113 (1 0	,					
	Matrix (S6)									
Dark Sur	rface (S7) (LRR R	, MLRA 149	IB)				Other ((Explain in Remarks)		
³ Indicators of	f hvdrophvtic vege	tation and w	vetland hydrology mu	ust be pre	sent. unle	ss disturbe	d or problematic	;.		
	Layer (if observed		, 3,	<u> </u>			<u> </u>			
Type:										
Depth (inc	ches):						Hydric Soil	Present? Yes V No No		
Remarks:								_		

Project/Site: Line 1580			City/Co	ounty: Shel	lton		Sampling Date:	2021-03-10
Applicant/Owner: Eversource								
Investigator(s): AAD, RKV			Sectio					
Landform (hillslope, terrace, etc								_{pe (%)} . 0-5
Subregion (LRR or MLRA): R								
Soil Map Unit Name: 76E		La					ation: PSS	
Are climatic / hydrologic conditi	one on the cit	a tunical t						
								/ No.
Are Vegetation, Soil								, NO
Are Vegetation, Soil	, or Hydr	ology	naturally problema	tic?	(If needed, ex	plain any answe	rs in Remarks.)	
SUMMARY OF FINDING	S – Attac	h site r	nap showing sam	pling poi	nt location	s, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Prese Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative	Y Y	res /		Is the Sam within a W	etland?		No	
Portions of veg mo								
HYDROLOGY								
Wetland Hydrology Indicato							tors (minimum of	two required)
Primary Indicators (minimum	of one is requ					Surface Soil		
Surface Water (A1)			Water-Stained Leaves	s (B9)	<u>-</u>	✓ Drainage Pat		
High Water Table (A2) Saturation (A3)			Aquatic Fauna (B13) Marl Deposits (B15)		-	Moss Trim Li	Mater Table (C2)	
Water Marks (B1)			_ Hydrogen Sulfide Odd	or (C1)	=	Dry-Season Crayfish Burr		
Sediment Deposits (B2)			Oxidized Rhizosphere		Roots (C3)		s ble on Aerial Im	lagery (C9)
Drift Deposits (B3)			Presence of Reduced	_	(00) <u> </u>		tressed Plants (D	
Algal Mat or Crust (B4)			Recent Iron Reduction		oils (C6)	Geomorphic		,
Iron Deposits (B5)			Thin Muck Surface (C		` ′ _	Shallow Aqui		
✓ Inundation Visible on Aer	ial Imagery (E		Other (Explain in Rem		<u>.</u>	Microtopogra	phic Relief (D4)	
Sparsely Vegetated Cond	ave Surface	(B8)			<u>-</u>	✓ FAC-Neutral	Test (D5)	
Field Observations:	.,							
Surface Water Present?			_ Depth (inches): 2					
Water Table Present?			Depth (inches): 0		187 41 111		V	
Saturation Present? (includes capillary fringe)	Yes _ •	No	Depth (inches): 0		Wetland Hy	drology Presen	t? Yes	No
Describe Recorded Data (stre	am gauge, m	onitoring	well, aerial photos, prev	ious inspec	tions), if availa	able:		
Remarks:								

'EGETATION – Use scientific names of plants				Sampling Point: 245 W64
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				mat Ale OBL, FACW, of FAC.
5				Prevalence Index worksheet:
/				Total % Cover of: Multiply by:
45.6		= Total Cov	er	OBL species $\frac{3}{10}$ $x = \frac{3}{20}$
Sapling/Shrub Stratum (Plot size: 15 ft r)				
1. Clethra alnifolia			FAC	1 AO species
2. Vaccinium corymbosum	10		FACW	FACU species 2 $x = 8$ UPL species 0 $x = 5$
3. Kalmia latifolia			FACU	Column Totals: 40 (A) 106 (B)
1 5				Prevalence Index = B/A = 2.7
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
7	070/			✓ 2 - Dominance Test is >50%
F ()	3/%	= Total Cov	er	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) Symplocarpus foetidus	3		OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation ¹ (Explain)
2.				1 Toblematic Hydrophytic Vegetation (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4 5				be present, unless disturbed or problematic. Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9 10				and greater than or equal to 3.28 ft (1 m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in height.
20.6	3%	= Total Cov	er er	noight.
Woody Vine Stratum (Plot size: 30 ft r)				
l				
2				Hydrophytic
4.				Vegetation Present? Yes No
		= Total Cov	/er	Tresent: Tes No
			0.	

SOIL Sampling Point: 245 W64

Depth (inches) Matrix Redox Features 0 - 8 Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0 - 8 10YR 2/1 95 2.5YR 3/6 5 C M Muck
0 - 8 10YR 2/1 95 2.5YR 3/6 5 C M Muck
<u>8 - 14</u> <u>10YR 6/1</u> <u>80</u> <u>10YR 7/6</u> <u>20</u> <u>C</u> <u>M</u> <u>Silt Loam</u> <u>Concretions</u>
14 - 18 10YR 2/1 100 Muck Buried
-
-
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :
<u>✓</u> Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
 Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5) Edamy Gleyed Matrix (F2) Polyvalue Below Surface (S6) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Redox Dark Surface (F6) Trinin Dark Surface (39) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1) — Nedox Bark Surface (F7) — Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Midcky Millerar (S1) — Depleted Dark Surface (17) — Flediffort Hoodplain Solis (119) (MLKA 1498) — Sandy Gleyed Matrix (S4) — Redox Depressions (F8) — Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5) Red Parent Material (F21)
Sandy Redox (SS) Red Faient Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12)
Stripped Matrix (30) Very Strainow Dark Surface (1112) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):
Туре:
Depth (inches): No
Remarks:

Project/Site: Line 1580		City/C	ounty: Shelt	ton	;	Sampling Date: 2	2021-03-10	
Applicant/Owner: Eversource								
		Section						
Landform (hillslope, terrace, etc.): _							e (%)· 0-5	
Subregion (LRR or MLRA): R 144								
Soil Map Unit Name: 76E	Lat.					ition: PSS		
Are climatic / hydrologic conditions	on the cite tunical fo							
							, ,,	
Are Vegetation, Soil							No	
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (I	lf needed, explai	n any answers	in Remarks.)		
SUMMARY OF FINDINGS -	- Attach site m	ap showing sam	pling poin	nt locations,	transects,	important fea	atures, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes		Is the Samp within a We			_ No		
Remarks: (Explain alternative pro	cedures here or in a	a separate report.)						
Fortions mowed								
HYDROLOGY								
Wetland Hydrology Indicators:				Seco	ondary Indicate	ors (minimum of to	wo required)	
Primary Indicators (minimum of or	ne is required; check	all that apply)			Surface Soil C			
Surface Water (A1)		Water-Stained Leaves	s (B9)		Drainage Patte	, ,		
High Water Table (A2)		Aquatic Fauna (B13)						
Saturation (A3)		Marl Deposits (B15)	(04)			/ater Table (C2)		
Water Marks (B1)		Hydrogen Sulfide Odd Oxidized Rhizosphere			Crayfish Burro	bws (C8) ble on Aerial Ima	gony (CQ)	
Sediment Deposits (B2) Drift Deposits (B3)		Presence of Reduced	_			essed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction			Geomorphic P	, ,	, l	
Iron Deposits (B5)		Thin Muck Surface (C			Shallow Aquita			
Inundation Visible on Aerial In		Other (Explain in Rem				ohic Relief (D4)		
Sparsely Vegetated Concave			,		FAC-Neutral T			
Field Observations:								
	es No							
	es No					,		
Saturation Present? Ye (includes capillary fringe)	es No	Depth (inches): 0		Wetland Hydro	logy Present	? Yes	No	
Describe Recorded Data (stream	gauge, monitoring w	vell, aerial photos, pre	vious inspecti	ions), if available	:			
Remarks:								
rtemane.								

/EGETATION – Use scientific names of plants	S.			Sampling Point: 245 W65
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
5				That Are Obl., FACW, OF FAC.
5				Prevalence Index worksheet:
/				Total % Cover of: Multiply by:
45.6		= Total Cov	er/	OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{50}{10}$ $x_2 = \frac{100}{30}$
1. Spiraea alba			FACW	1 AO species
2. Clethra alnifolia	10		FAC	FACU species 0 $x = 0$ UPL species 0 $x = 0$
3. Vaccinium corymbosum	10		FACW	Column Totals: 60 (A) 130 (B)
l				Prevalence Index = B/A = 2.2
5				
5				Hydrophytic Vegetation Indicators:
7				✓ 1 - Rapid Test for Hydrophytic Vegetation_ 2 - Dominance Test is >50%
	60%	= Total Cov	er/	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r)				4 - Morphological Adaptations ¹ (Provide supporting
Grass Grass	30			data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diamete
7				at breast height (DBH), regardless of height.
3				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		-		Woody vines – All woody vines greater than 3.28 ft in
12		= Total Cov	/er	height.
Noody Vine Stratum (Plot size: 30 ft r)				
L				
2.				
3				Hydrophytic
4				Vegetation Present? Yes No
т		= Total Cov	or	

SOIL Sampling Point: 245 W65

Depth	Matrix			ox Feature	es			•
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0 - 11	10YR 5/3	90	2.5YR 2.5/4	10	<u>C</u>	<u> </u>	Sand	Very fine sand
-								
				_		_		
-	-							
-	-					-		
-						_		
	-					_		
-								
				_				
	-					-		
						_		
		oletion, RM	1=Reduced Matrix, M	S=Maske	d Sand G	rains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil			Polyvalue Belo	w Surface	o (SO) (I E	D D		s for Problematic Hydric Soils ³ :
Histosol Histic Et	oipedon (A2)		MLRA 149B		e (30) (L R	KK,		Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surfa	ace (S9) (3) 5 cm l	Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky I			(, L)		Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfac	ce (A11)	Loamy Gleyed Depleted Matrix		2)			alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L)
	ark Surface (A12)	(****)	Redox Dark Su		i)			Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark					nont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	sions (F8))			Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
	rface (S7) (LRR R, I	MLRA 149	B)					(Explain in Remarks)
3								
	f nydropnytic vegeta L ayer (if observed)		etland hydrology mu	st be pres	sent, unies	ss disturbe	or problemation	<u>C.</u>
Type:	Layer (ii observeu)	•						
	ches):						Hvdric Soil	I Present? Yes <u>√</u> No
Remarks:								
Remarks.								

Project/Site: Line 1580: 2020)	(City/County: She	lton	S	ampling Date: 2	020-10-20	
Applicant/Owner: Eversource					State: Connecticut			
Investigator(s): JSC, RKV								
Landform (hillslope, terrace, etc				_			- (%).	
Subregion (LRR or MLRA): R			•		, 198901			
				-				
Soil Map Unit Name: 18 Catden a								
Are climatic / hydrologic condition								
Are Vegetation, Soil	, or Hydrolog	y significantly o	disturbed?	Are "Normal C	ircumstances" pre	sent? Yes	No	
Are Vegetation, Soil	, or Hydrolog	y naturally prob	olematic?	(If needed, exp	olain any answers	in Remarks.)		
SUMMARY OF FINDING	S - Attach s	ite map showing	sampling poi	nt location	s, transects, i	mportant fea	tures, etc.	
Hydrophytic Vegetation Prese	nt? Yes	✓ No	Is the Sam	pled Area				
Hydric Soil Present?		✓ No	within a W	etland?	Yes	No		
Wetland Hydrology Present?			If yes, option	onal Wetland S	ite ID: 247 W37			
Remarks: (Explain alternative Drought	procedures nere	or in a separate report)					
HYDROLOGY Wetland Hydrology Indicato	rs:			S	econdary Indicato	rs (minimum of ty	wo required)	
Primary Indicators (minimum of		: chack all that apply)			 Surface Soil Cr 		<u>vo requireu)</u>	
✓ Surface Water (A1)	Ji one is required	<u>✓</u> Water-Stained L	eaves (R0)	<u>*</u>				
High Water Table (A2)		Aquatic Fauna (I		_	Drainage Patterns (B10) Moss Trim Lines (B16)			
Saturation (A3)		Marl Deposits (B		=	Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)		Hydrogen Sulfide		_	Crayfish Burrov			
Sediment Deposits (B2)		Oxidized Rhizos		Roots (C3)	Saturation Vis b		gery (C9)	
Drift Deposits (B3)		Presence of Rec	duced Iron (C4)	_		ssed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Red	luction in Tilled Sc	oils (C6) <u>•</u>	Geomorphic Po	osition (D2)		
Iron Deposits (B5)		Thin Muck Surfa	ice (C7)		_ Shallow Aquita	· ,		
Inundation Visible on Aeri		Other (Explain in	n Remarks)		Microtopograph	nic Relief (D4)		
Sparsely Vegetated Conc	ave Surface (B8)) 		_	FAC-Neutral Te	est (D5)		
Field Observations:			0					
Surface Water Present?		Depth (inches):						
Water Table Present?		Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	0	Wetland Hyd	drology Present?	Yes	No	
Describe Recorded Data (stre	am gauge, monit	oring well, aerial photos	s, previous inspec	tions), if availa	ıble:			
,				,-				
Remarks:								

=			Sampling Point: 247 W37 JSC
			Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant Species Across All Strata: 2 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by: OBL species 0 v.1 = 0
	= Total Co	ver	OBL species 0 $x = 0$ $x = 0$ FACW species 0 $x = 0$
00		EAC	FAC species 35 x 3 = 105
- ——			FACU species $0 \times 4 = 0$
15		FAC	UPL species $\frac{0}{x^5} = \frac{0}{0}$
		. ———	Column Totals: 35 (A) 105 (B)
		·	Prevalence Index = B/A = 3.0
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	-	· <u></u>	✓ 2 - Dominance Test is >50%
35%	= Total Co	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
			4 - Morphological Adaptations ¹ (Provide supporting
			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		·	Definitions of Vegetation Strata:
		·	Tree – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
	-		Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in
		ver	height.
			Hydrophytic
			Vegetation Present? Yes No
	<u>% Cover</u>	## Cover Species?	## Cover Species? Status

SOIL Sampling Point: 247 W37 JSC

Profile Desc	ription: (Describe	to the de	oth needed to docun	nent the	indicator	or confirn	m the absence of indicators.)	
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
6 - 0	10YR 2/1	100					Peat	
0 - 24	10YR 6/2	85	10YR 5/6	15	С	<u>M</u>	Silt Loam	
-								
		- ' ' <u> </u>						
_				-				
		-						
		-					· 	
					-	·		
Type: C=Co	ncentration D=Den	letion RM	=Reduced Matrix, MS	=Maske	d Sand G	ains	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I		notion, raiv	Troduced Matrix, Mc	- WIGORO	a Guna Gi	unio.	Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Belov		(S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
<u>✓</u> Histic Ep Black Hi			MLRA 149B) Thin Dark Surfa		IDDD M	I D A 1/0B	Coast Prairie Redox (A16) (LRR K, L, R)5 cm Mucky Peat or Peat (S3) (LRR K, L,	D)
	n Sulfide (A4)		S cff Mucky Feat of Feat (33) (LKK K, L, Dark Surface (S7) (LRR K, L)	K)				
	l Layers (A5)		Loamy Mucky M Loamy Gleyed M			-, -,	Polyvalue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	e (A11)	Depleted Matrix		,		Thin Dark Surface (S9) (LRR K, L)	
Thick Da	ark Surface (A12)		Redox Dark Sur	face (F6))		Iron-Manganese Masses (F12) (LRR K, L	, R)
-	lucky Mineral (S1)		Depleted Dark S		=7)		Piedmont Floodplain Soils (F19) (MLRA 1	
	Gleyed Matrix (S4)		Redox Depressi	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 1 4	9B)
-	ledox (S5)						Red Parent Material (F21)	
	Matrix (S6) rface (S7) (LRR R, N	MLRA 149	B)				Very Shallow Dark Surface (TF12)Other (Explain in Remarks)	
	, , ,		,					
	f hydrophytic vegeta _ayer (if observed):		etland hydrology mus	t be pres	ent, unles	s disturbed	d or problematic.	
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes No	
Remarks:								

Project/Site: Line 1580: 2020		City/C	county: Shelton		Sampling Date: 202	20-10-20
Applicant/Owner: Eversource					t Sampling Point: 2	
Investigator(s): JSC, RKV		Section				
Landform (hillslope, terrace, etc.)			· -			6).
Subregion (LRR or MLRA): R 1			•	,		
• • • • • • • • • • • • • • • • • • • •						
Soil Map Unit Name: 75C Holli					ation: PSS1E	
Are climatic / hydrologic condition	ns on the site typic	al for this time of year? Y	· · · · · · · · · · · · · · · · · · ·	•	,	
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Norm	al Circumstances" pr	resent? Yes	No
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If needed	, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS	S - Attach site	e map showing sam	npling point locat	ions, transects,	important featu	res, etc.
Hydrophytic Vegetation Presen	t? Yes	No	Is the Sampled Area			
Hydric Soil Present?		/No	within a Wetland?	Yes	No	
Wetland Hydrology Present?			If yes, optional Wetlar	nd Site ID: 248 W3	6	
Remarks: (Explain alternative)			, , ,			
HYDROLOGY						
Wetland Hydrology Indicators	s:				ors (minimum of two	required)
Primary Indicators (minimum of	-			Surface Soil 0		
Surface Water (A1)		Water-Stained Leave		<u>✓</u> Drainage Patt		
High Water Table (A2)	-	Aquatic Fauna (B13)		Moss Trim Lir		
Saturation (A3)	-	Marl Deposits (B15)	(04)		Vater Table (C2)	
Water Marks (B1)		Hydrogen Sulfide OdOxidized Rhizosphere		Crayfish Burro	ows (C8) s ble on Aerial Imager	n/ (CO)
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Knizosphero Presence of Reduced			ressed Plants (D1)	y (C9)
Algal Mat or Crust (B4)		Recent Iron Reductio		Geomorphic F	, ,	
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aquit		
Inundation Visible on Aeria	_	Other (Explain in Rer	•	<u>✓</u> Microtopograp		
Sparsely Vegetated Conca		` ` '	,	FAC-Neutral		
Field Observations:						
Surface Water Present?	Yes No	Depth (inches): 2				
Water Table Present?	Yes No	Depth (inches): 0				
	Yes No	Depth (inches): 0	Wetland	Hydrology Present	? Yes No	·
(includes capillary fringe) Describe Recorded Data (strea	m gauge monitorir	ng well aerial photos, pre	vious inspections) if a	/ailable·		
Besonbe Resonded Bata (streat	in gaage, monitorii	ig well, derial priotos, pro	wiodo inopeodono), ii di	valiable.		
Remarks:						

•	S.			Sampling Point: 248 W36 JSC
Tree Stratum (Plot size: 30 ft r)		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
1				Percent of Dominant Species That Are OBL_FACW_or_FAC: 100 (A/B)
5				That Are OBL, FACW, or FAC: 100 (A/B)
S				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
45.4		= Total Cov	er	OBL species $\frac{10}{35}$ $x = \frac{10}{70}$ FACW species $\frac{35}{x^2}$
Sapling/Shrub Stratum (Plot size: 15 ft r)	00		E40	FACW species 30
Clethra alnifolia			FAC	FACU species 0 $x4 = 0$
2. Ilex verticillata			FACW	UPL species $0 \times 5 = 0$
3				Column Totals: <u>65</u> (A) <u>140</u> (B)
1				Prevalence Index = B/A = 2.2
5				
5				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7	050/			✓ 2 - Dominance Test is >50%
E 4 *	35%	= Total Cov	er	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 ft r	15		EA C\A/	4 - Morphological Adaptations¹ (Provide supporting
Osmundastrum cinnamomeum	15		FACW	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Carex scoparia			FACW	Problematic Hydrophytic Vegetation (Explain)
3. Iris sp 4. Osmunda spectabilis	<u>5</u> 5		OBL OBL	¹ Indicators of hydric soil and wetland hydrology must
·				be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7 o				at breast height (DBH), regardless of height.
8 o				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9 10				
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
12.	000/	= Total Cov	er	height.
Woody Vine Stratum (Plot size: 30 ft r)		- 10tai 00t	Ci	
1				
2.				
3				Hydrophytic
4				Vegetation
···-		= Total Cov		Present? Yes No
			•.	

SOIL Sampling Point: 248 W36 JSC

Profile Desc	ription: (Describe	to the de	pth needed to docun	nent the	indicator	or confirm	n the absence	of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 3	7.5YR 2.5/1	100					Sandy loam	fine Sandy Loam
3 - 24	2.5Y 6/2	80	7.5YR 5/6	20	<u>D</u>	<u>M</u>	Sandy loam	Fine sandy loam, human artifact
					<u> </u>			
		<u> </u>						
	_							
			·					
			. <u>.</u>					
		letion, RN	/I=Reduced Matrix, MS	S=Maske	d Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I								for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Polyvalue Belov MLRA 149B)		(S8) (LR	R R,		Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		LRR R, M	LRA 149B		Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky M	lineral (F	1) (LRR k		Dark S	Surface (S7) (LRR K, L)
	l Layers (A5)		Loamy Gleyed I		2)		-	alue Below Surface (S8) (LRR K, L)
	Below Dark Surfac	e (A11)	<u>✓</u> Depleted Matrix					park Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Sui					anganese Masses (F12) (LRR K, L, R)
-	lucky Mineral (S1) leyed Matrix (S4)		Depleted Dark S Redox Depress		-7)			ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)		Nedox Depless	10113 (1 0)				arent Material (F21)
-	Matrix (S6)							Shallow Dark Surface (TF12)
	rface (S7) (LRR R, I	/ILRA 149	B)				-	(Explain in Remarks)
³ Indicators of	hydrophytic vegeta	tion and v	etland hydrology mus	t be pres	ent, unles	s disturbed	d or problemation	c .
	_ayer (if observed):							
Type:							Hudria Sail	Present? Yes V No No
Depth (inc	ches):						nyuric Soil	Present? resNo
Nemans.								

Project/Site: Line 1580: 202	0	City/C	county: Shelton		Sampling Date: 2020-10-20	
Applicant/Owner: Eversource					Sampling Point: 248 W35 JSC	
Investigator(s): JSC, RKV		Section Section				
Landform (hillslope, terrace, etc						
Subregion (LRR or MLRA): R	,		,	,		
Soil Map Unit Name: 3 Ridge		<u>- </u>				
Are climatic / hydrologic conditi						
Are Vegetation, Soil	, or Hydrology _	significantly distur	bed? Are "Norma	l Circumstances" pro	esent? Yes No	
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If needed,	explain any answers	in Remarks.)	
SUMMARY OF FINDING	S - Attach site	map showing sam	pling point location	ons, transects,	important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes	No	Is the Sampled Area			
Hydric Soil Present?			within a Wetland?	Yes	No	
Wetland Hydrology Present?		/No	If yes, optional Wetland	d Site ID: 248 W35	5	
Drought						
HYDROLOGY						
Wetland Hydrology Indicato	ors:			Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum	of one is required; ch	eck all that apply)		Surface Soil C	racks (B6)	
Surface Water (A1)		Water-Stained Leave		Drainage Patte		
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16) Dry-Season Water Table (C2)		
Saturation (A3)		Marl Deposits (B15)	(04)	-		
Water Marks (B1)		Hydrogen Sulfide OdOxidized Rhizosphere		Crayfish Burro		
Sediment Deposits (B2)Drift Deposits (B3)		Oxidized Rnizosphero Presence of Reduced	• ' '		ble on Aerial Imagery (C9) essed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reductio		Geomorphic P		
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aquita		
Inundation Visible on Aer		Other (Explain in Rer	•	✓ Microtopograp		
Sparsely Vegetated Cond			,	FAC-Neutral T		
Field Observations:	. , ,					
Surface Water Present?	Yes No	Depth (inches): 2				
Water Table Present?	Yes V No	Depth (inches): 0				
Saturation Present?	Yes _ V No	Depth (inches): 0	Wetland I	Hydrology Present	? Yes <u>'</u> No	
(includes capillary fringe) Describe Recorded Data (stre	am gauge monitorin	a well serial photos pre	vious inspections) if ava	ailahle:		
Describe Necorded Data (stre	am gauge, monitorin	ig well, aerial priotos, pre	vious irispections), ir ave	allable.		
Remarks:						

/EGETATION – Use scientific names of plants	S.			Sampling Point: 248 W35 JSC			
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)			
2.				Total Number of Dominant			
3				Species Across All Strata: 4 (B)			
l				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 100 (A/B)			
S				Prevalence Index worksheet:			
7				Total % Cover of: Multiply by:			
		= Total Co	/er	OBL species 30 x 1 = 30			
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{40}{30}$ $\times 2 = \frac{80}{30}$			
1. Clethra alnifolia	20		FAC	FAC species $\frac{20}{0}$ $\times 3 = \frac{60}{0}$			
llex verticillata	10		FACW	FACU species 0 $x = 0$			
3				UPL species 0 $x = 0$ (B) Column Totals: 90 (A) 170			
4							
5				Prevalence Index = B/A = 1.9			
6				Hydrophytic Vegetation Indicators:			
7				1 - Rapid Test for Hydrophytic Vegetation			
	000/	= Total Co	/er	✓ 2 - Dominance Test is >50%			
Herb Stratum (Plot size: 5 ft r				✓ 3 - Prevalence Index is ≤3.0 ¹			
1. Carex aquatilis	30	~	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
Bidens aristosa	20	~	FACW	Problematic Hydrophytic Vegetation¹ (Explain)			
Carex scoparia	10		FACW				
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
5				·			
6				Definitions of Vegetation Strata:			
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
3							
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
10				Herb – All herbaceous (non-woody) plants, regardless			
11				of size, and woody plants less than 3.28 ft tall.			
12				Woody vines – All woody vines greater than 3.28 ft in			
12:		= Total Co	/er	height.			
Noody Vine Stratum (Plot size: 30 ft r		- Total Co	761				
· · · · · · · · · · · · · · · · · · ·							
1							
2							
3				Hydrophytic Vegetation			
4		= Total Co	.or	Present? Yes No			

SOIL Sampling Point: 248 W35 JSC

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the i	indicator	or confirn	m the absence of indicators.)	
Depth	Matrix			Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0 - 11	10YR 2/1	100					Peat	
11 - 24	10YR 2/1	100					Mucky Peat	
							·	
				-				
-								
_							· 	
					· 			
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I							Indicators for Problematic Hydric Soils ³ :	
<u>✓</u> Histosol			Polyvalue Below	/ Surface	(S8) (LRI	RR,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Ep	oipedon (A2)		MLRA 149B) Thin Dark Surface	oo (SO) (I	DD D M	DA 140D	Coast Prairie Redox (A16) (LRR K, L, R)5 cm Mucky Peat or Peat (S3) (LRR K, L, R	٠,
	n Sulfide (A4)		Loamy Mucky M				Dark Surface (S7) (LRR K, L)	()
	l Layers (A5)		Loamy Gleyed N			, –,	Polyvalue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	e (A11)	Depleted Matrix		•		Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)		Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, I	
-	lucky Mineral (S1)		Depleted Dark S		7)		Piedmont Floodplain Soils (F19) (MLRA 149)	
	Gleyed Matrix (S4)		Redox Depressi	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149	B)
-	ledox (S5)						Red Parent Material (F21)	
	Matrix (S6) rface (S7) (LRR R, N	/ILRA 149	3)				Very Shallow Dark Surface (TF12)Other (Explain in Remarks)	
³ Indicators of	f hvdrophytic vegeta	tion and we	etland hydrology must	t be prese	ent. unles:	s disturbed	d or problematic.	
	_ayer (if observed):		, 3,	'	,		<u> </u>	
Type:								
Depth (inc	ches):						Hydric Soil Present? Yes No	_
Remarks:								

Project/Site: Line 1580: 2020)	Citv/C	county: Shelton	5	Sampling Date: 2020-10-15		
Applicant/Owner: Eversource					Sampling Point: 249 W34		
Investigator(s): JSC RKV		Section					
Landform (hillslope, terrace, etc.							
Subregion (LRR or MLRA): R 1							
Soil Map Unit Name: 3 Ridgeb					tion: PSS		
Are climatic / hydrologic conditio							
					·		
Are Vegetation, Soil							
Are Vegetation, Soil	, or Hydrology	naturally problema	atic? (If needed,	explain any answers	s in Remarks.)		
SUMMARY OF FINDINGS	S - Attach site	map showing san	pling point location	ons, transects,	important features, etc.		
Hydrophytic Vegetation Preser	nt? Yes	No	Is the Sampled Area				
Hydric Soil Present?	Yes	No	within a Wetland?	Yes	No		
Wetland Hydrology Present?			If yes, optional Wetlan	d Site ID: 249 W34	1		
HYDROLOGY							
Wetland Hydrology Indicator	s:			Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum o	f one is required; ch	eck all that apply)		Surface Soil C	cracks (B6)		
Surface Water (A1)		Water-Stained Leave		Drainage Patte			
High Water Table (A2)	<u>-</u>	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)		Hydrogen Sulfide Od		Crayfish Burrows (C8) Saturation Vis ble on Aerial Imagery (C9)			
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized RhizospherPresence of Reduced	=		ble on Aerial Imagery (C9) essed Plants (D1)		
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic P	` '		
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aquita			
Inundation Visible on Aeria	_	Other (Explain in Rer	,	Microtopograp			
Sparsely Vegetated Conca	ave Surface (B8)			FAC-Neutral T	est (D5)		
Field Observations:							
Surface Water Present?		Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland	Hydrology Present	? Yes No		
Describe Recorded Data (stream	am gauge, monitorin	g well, aerial photos, pre	vious inspections), if av	ailable:			
Remarks:							
Water table at 16 inches							

	S.			Sampling Point: 249 W34
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				That Are OBE, I AGW, OFF AG.
5				Prevalence Index worksheet:
7				Total % Cover of: Multiply by: ORL species 70 v 1 = 70
Dealis (Obserts Ottachura (Dich size 15 ft r		= Total Cov	ver	OBL species $\frac{70}{10}$ $x = \frac{70}{20}$ FACW species $\frac{10}{20}$ $x = \frac{20}{20}$
Sapling/Shrub Stratum (Plot size: 15 ft r) Clethra alnifolia	35	~	FAC	FAC species 45 x 3 = 135
			FACW	FACU species $0 x4 = 0$
				UPL species 0 x 5 = 0
3				Column Totals: <u>125</u> (A) <u>225</u> (B)
4 -				Prevalence Index = B/A = 1.8
5				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
7	450/			✓ 2 - Dominance Test is >50%
5 ft r	4370	= Total Cov	ver	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r 1. Carex Iurida	30	v	OBL	4 - Morphological Adaptations¹ (Provide supportino data in Remarks or on a separate sheet)
2. Carex typhina			OBL	Problematic Hydrophytic Vegetation¹ (Explain)
3. Scirpus cyperinus	15		OBL	
4. Panicum capillare	10		FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				·
6.				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9.				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines – All woody vines greater than 3.28 ft in
	80%	= Total Cov	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
·				
2				Hydrophytic
				Hydrophytic Vegetation Present? Yes V

SOIL Sampling Point: 249 W34

Profile Desc	ription: (Describe	to the de	pth needed to docur	nent the	indicator	or confirn	n the absence	e of indicators.)
Depth	<u>Matrix</u>	0/		x Feature		. 2	- .	
(inches) 0 - 17	Color (moist) 10YR 2/1	<u>%</u> 100	Color (moist)	%	Type'	Loc ²	<u>Texture</u> Peat	Remarks Oe hemic
								Oe Herriic
17 - 20	10YR 4/1	90	7.5YR 5/1	30	<u> D </u>	<u>M</u>	Silt	
					_			
					-			
				-				
		-			-			
		<u> </u>	-					
	-	<u> </u>						
	-	-			-			
							-	
		oletion, RN	/I=Reduced Matrix, M	S=Maske	d Sand Gr	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
<u>✓</u> Histosol	(A1) pipedon (A2)		Polyvalue Below		e (S8) (LR	R R,		Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa		LRR R, M	LRA 149B		Mucky Peat or Peat (S3) (LRR K, L, R)
	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)							Surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleyed		2)			alue Below Surface (S8) (LRR K, L)
-	d Below Dark Surface	e (A11)	Depleted Matrix					Dark Surface (S9) (LRR K, L)
	ark Surface (A12) Mucky Mineral (S1)		Redox Dark Su Depleted Dark					Manganese Masses (F12) (LRR K, L, R) nont Floodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)		Redox Depress					Spodic (TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)		<u> </u>	(- /				Parent Material (F21)
-	Matrix (S6)						Very S	Shallow Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, I	MLRA 149	OB)				Other	(Explain in Remarks)
			etland hydrology mus	st be pres	ent, unles	s disturbed	l or problemati	С.
	Layer (if observed)	:						
Type:	-1 \.						Hydric Soi	I Present? Yes <u>✓</u> No
Remarks:	ches):						Tiyanic con	11 103cm: 103 103
Yes								
100								

Project/Site: Line 1580: 2020	ı	Citv/C	county: Shelton	;	Sampling Date: 2020-10-15	
Applicant/Owner: Eversource					Sampling Point: 249 W33	
Investigator(s): JSC RKV		Section				
Landform (hillslope, terrace, etc.						
Subregion (LRR or MLRA): R 1						
Soil Map Unit Name: 3 Ridgeb					tion: PSS	
Are climatic / hydrologic conditio						
• •	• •	· · · · · · · · · · · · · · · · · · ·		•	•	
Are Vegetation, Soil						
Are Vegetation, Soil	, or Hydrology _	naturally problema	atic? (If needed,	explain any answers	s in Remarks.)	
SUMMARY OF FINDINGS	S – Attach site	map showing san	pling point location	ons, transects,	important features, etc.	
Hydrophytic Vegetation Preser	nt? Yes	No	Is the Sampled Area			
Hydric Soil Present?		No	within a Wetland?	Yes	No	
Wetland Hydrology Present?	Yes	No	If yes, optional Wetlan	d Site ID: 249 W33	3	
Remarks: (Explain alternative	procedures here or	in a separate report.)				
Drought						
Vegetation management						
HYDROLOGY				Casandani Indicata	ore (minimum of two required)	
Wetland Hydrology Indicator		ook all that apply)			ors (minimum of two required)	
Primary Indicators (minimum o				Surface Soil C		
Surface Water (A1) High Water Table (A2)		Water-Stained LeaveAquatic Fauna (B13)		Drainage Patte		
Saturation (A3)	_	Marl Deposits (B15)		Moss Trim Lines (B16) Dry-Season Water Table (C2)		
Water Marks (B1)	-	Hydrogen Sulfide Od	or (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)		Oxidized Rhizospher				
Drift Deposits (B3)		Presence of Reduced			essed Plants (D1)	
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic P		
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aquita		
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Rer	marks)	Microtopograp	phic Relief (D4)	
Sparsely Vegetated Conca	ave Surface (B8)			FAC-Neutral T	est (D5)	
Field Observations:						
Surface Water Present?		Depth (inches):				
Water Table Present?		Depth (inches):				
Saturation Present?	Yes No	Depth (inches):	Wetland	Hydrology Present	? Yes / No	
(includes capillary fringe) Describe Recorded Data (streat	em gauge monitorin	g well aerial photos, pre	vious inspections) if av	ailahle [.]		
Describe recorded bata (street	an gaage, monton	g won, dendi priotos, pro	viodo inopositorio), ii avi	anabio.		
Remarks:						

/EGETATION – Use scientific names of plants	S.			Sampling Point: 249 W33
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
3				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	/er	OBL species <u>80</u> x 1 = <u>80</u>
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species $\frac{10}{2}$ $\times 2 = \frac{20}{100}$
1. Clethra alnifolia	20		FAC	FAC species $\frac{35}{9}$ $\times 3 = \frac{105}{9}$
2. Lyonia ligustrina	10		FACW	FACU species 0 $x = 0$
3				UFL species 4 X 3 - 4
4				Column Totals: <u>125</u> (A) <u>205</u> (B)
5				Prevalence Index = B/A = 1.6
3				Hydrophytic Vegetation Indicators:
7.				1 - Rapid Test for Hydrophytic Vegetation
	000/	= Total Co	/er	<u>✓</u> 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r				✓ 3 - Prevalence Index is ≤3.0 ¹
1. Carex typhina	60	V	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Scirpus cyperinus	20		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Panicum capillare	15		FAC	
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
6				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10	_			
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				Woody vines – All woody vines greater than 3.28 ft in
12		= Total Co	· · · · · ·	height.
Woody Vine Stratum (Plot size: 30 ft r	3373	- Total Co	7 . 61	
· · · · · · · · · · · · · · · · · · ·				
1				
2				
3				Hydrophytic Vegetation
				Present? Yes No
4		= Total Co		11000IR: 100

SOIL Sampling Point: 249 W33

Profile Desc	ription: (Describe	to the de	oth needed to docum	nent the i	indicator	or confirn	n the absence	of indicators.)		
Depth	Matrix	%	Color (moist)	x Feature	4	Loc ²	Toyturo	Remarks		
(inches) 0 - 15	Color (moist)	70	Color (moist)	<u> </u>	_Type [†]	LOC	<u>Texture</u> Peat	Oe hemic		
15 - 24	10YR 6/1	90	7.5YR 4/6	10	С	M	Silt			
-										
-										
_					-					
-										
			-							
		letion, RM	=Reduced Matrix, MS	S=Masked	d Sand Gr	ains.		n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils³:		
Hydric Soil Histosol			Polyvalue Belov	v Surface	(S8) (LR	R R.		Muck (A10) (LRR K, L, MLRA 149B)		
<u>✓</u> Histic E	oipedon (A2)		MLRA 149B))			Coast	Prairie Redox (A16) (LRR K, L, R)		
	stic (A3) en Sulfide (A4)		Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L)		
	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2)					alue Below Surface (S8) (LRR K, L)				
-	d Below Dark Surfac	e (A11)	Depleted Matrix					Dark Surface (S9) (LRR K, L)		
	ark Surface (A12)		Redox Dark Sui					Manganese Masses (F12) (LRR K, L, R)		
-	Mucky Mineral (S1) Bleyed Matrix (S4)		Depleted Dark S Redox Depress		-7)			nont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)		Redox Depress	ions (Fo)				Parent Material (F21)		
-	Matrix (S6)							Red Parent Material (F21) Very Shallow Dark Surface (TF12)		
	rface (S7) (LRR R, I	/ILRA 149	B)				Other (Explain in Remarks)			
			etland hydrology mus	st be prese	ent, unles	s disturbed	l or problemati	С.		
	Layer (if observed):	1								
Type:	ahaa).						Hydric Soi	I Present? Yes <u>✓</u> No		
Remarks:	ches):						11,741.10 001	<u></u>		
Yes										

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020		City/C	ountv: Naug	atuck		Sar	mpling Date:	2020-10-09
Applicant/Owner: Eversource								
BIOL BO		Section Section			·			
Landform (hillslope, terrace, etc.):								
Subregion (LRR or MLRA): R 144								
Soil Map Unit Name: 75C Hollis-				Long.				i. <u>* * * * = * * * * * * * * * * * * * * </u>
Are climatic / hydrologic conditions								
, ,	• •	-			•		,	
Are Vegetation, Soil								No
Are Vegetation, Soil	_, or Hydrology	naturally problema	ıtic? (I1	f needed, ex	plain any a	nswers in	Remarks.)	
SUMMARY OF FINDINGS -	 Attach site m 	ap showing sam	pling poin	t location	ıs, transe	ects, im	portant fe	atures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No	Is the Samp	tland?	·		No	
Wetland Hydrology Present? Remarks: (Explain alternative pro		_ No	If yes, option	al Wetland S	Site ID: 250) W2		
Potential vernal pool within wetlan	d boundaries							
HYDROLOGY								
Wetland Hydrology Indicators:							(minimum of t	two required)
Primary Indicators (minimum of o	-				Surface			
Surface Water (A1)		Water-Stained Leaves	s (B9)	_	Drainag			
High Water Table (A2)		Aquatic Fauna (B13)		_	Moss T		er Table (C2)	
Saturation (A3) Water Marks (B1)		Marl Deposits (B15) Hydrogen Sulfide Odd	or (C1)	_	-	Burrows		
Sediment Deposits (B2)		Oxidized Rhizosphere		oots (C3)	-		on Aerial Ima	agery (C9)
Drift Deposits (B3)		Presence of Reduced		`			ed Plants (D1	
✓ Algal Mat or Crust (B4)		Recent Iron Reduction		ls (C6) _	Geomo	rphic Posi	ition (D2)	
Iron Deposits (B5)		Thin Muck Surface (C		_		Aquitard	. ,	
Inundation Visible on Aerial I		Other (Explain in Rem	narks)	_			Relief (D4)	
Sparsely Vegetated Concave	Surface (B8)				FAC-Ne	eutral Tes	t (D5)	
Field Observations:	No V	Donath (in all and)						
		Depth (inches): Depth (inches):						
		Depth (inches):		Wetland Hy	rdrology Pr	esont?	Yes 🗸	No
(includes capillary fringe)						esent:	163	<u> </u>
Describe Recorded Data (stream	gauge, monitoring w	ell, aerial photos, pre	vious inspection	ons), if availa	able:			
Remarks:								
Drought								

VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of plants	S.			Sampling Point: 250 W2
Tree Stratum (Plot size: 30 ft r	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
2 3				Total Number of Dominant Species Across All Strata: 5 (B)
4		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				(12)
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by: OBL species 95 v.1 = 95
0 11 (0) 1 0: 1 (D) 1 15 ft r		= Total Co	/er	OBL species $\frac{95}{25}$ $x = \frac{95}{50}$ FACW species $\frac{25}{x^2}$ $x = \frac{95}{50}$
Sapling/Shrub Stratum (Plot size: 15 ft r) 1. Cephalanthus occidentalis	40	V	OBL	FAC species 35 x 3 = 105
· · · · · · · · · · · · · · · · · · ·			FAC	FACU species $0 \times 4 = 0$
2. Clethra alnifolia				UPL species $0 \times 5 = 0$
3. Vaccinium corymbosum	_		FACW	Column Totals: 155 (A) 250 (B)
4 5				Prevalence Index = B/A = 1.6
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
/	80%			✓ 2 - Dominance Test is >50%
F. 4	00 /6	= Total Co	/er	✓ 3 - Prevalence Index is ≤3.0 ¹
Herb Stratum (Plot size: 5 ft r) 1. Calamagrostis canadensis	50	V	OBL	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Solidago rugosa	 15		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Carex scoparia			FACW	
4. Persicaria sagittata	5		OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
6				
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9				and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				
12				Woody vines – All woody vines greater than 3.28 ft in height.
	75%	= Total Co	/er	
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				
3				Hydrophytic
A				Vegetation Present? Yes No
4			/er	

SOIL Sampling Point: 250 W2

Depth	Matrix	0/		x Features		1 - 2	T	D
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 2	10YR 4/3						Peat	Live roots fibric at surface
2 - 7	10YR 2/1	100					Muck	Sapric
7 - 16	10Y 8/1	100	7.5YR 7/3	2	С	M	Silt	Black organic streaking in matrix below 10 inches
-								
								•
-				·				
Type: C=Co		oletion, RM	1=Reduced Matrix, MS	S=Masked	Sand Gr	ains.		n: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
Histosol			Polyvalue Belov	w Surface	(S8) (LR	R R,		Muck (A10) (LRR K, L, MLRA 149B)
✓ Histic Ep	oipedon (A2)		MLRA 149B))			Coast	t Prairie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surfa					Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Mucky M Loamy Gleyed I	-		., ∟)		Surface (S7) (LRR K, L) alue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Matrix	-	,		-	Dark Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Su					Manganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)		Depleted Dark S		7)			nont Floodplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)		Redox Depress	ions (F8)				c Spodic (TA6) (MLRA 144A, 145, 149B) Parent Material (F21)
	Matrix (S6)							Shallow Dark Surface (TF12)
	rface (S7) (LRR R, I	MLRA 149	B)				-	(Explain in Remarks)
3Indicators of	f budranbutia vagata	tion and u	estland hydrology mys	t ha nraaa	nt unlan	a diaturbad	l ar problemet	ia
	r nydropnytic vegeta Layer (if observed):		etland hydrology mus	st be prese	ent, unies	s disturbed	or problemat	ic.
Type:								
Depth (inc	ches):						Hydric Soi	il Present? Yes No
Remarks:	,							

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	ı	City/C	county: Shelton	;	Sampling Date: 2020-10-09
Applicant/Owner: Eversource					Sampling Point: 252 W1 RC
Investigator(s): RC, RKV		Section			
Landform (hillslope, terrace, etc.					
Subregion (LRR or MLRA): R 1	44A ,	1 at: 41.2894592	Lona:	73.1218786	Datum: NAD 83
Soil Map Unit Name: 75E Holli					
Are climatic / hydrologic conditio					
Are Vegetation, Soil					•
Are Vegetation, Soil				d, explain any answers	
SUMMARY OF FINDINGS					•
		<u> </u>	Is the Sampled Are	<u> </u>	
Hydrophytic Vegetation Preser Hydric Soil Present?		No No	within a Wetland?		No
Wetland Hydrology Present?		No	If ves. optional Wetla	and Site ID: 252 W1	
Drought Toe slope Upgradient of data plot, surface bouldery soil	water flowing out o	of hillside seep.			
HYDROLOGY	<u> </u>			Ozzawalawi Indicate	(-similarium of true required)
Wetland Hydrology Indicator		LII 414			ors (minimum of two required)
Primary Indicators (minimum o	-		- (DO)	Surface Soil C	
Surface Water (A1) High Water Table (A2)		Water-Stained Leave Aquatic Fauna (B13)		Drainage Patte Moss Trim Line	
Saturation (A3)		Marl Deposits (B15)			ater Table (C2)
Water Marks (B1)		✓ Hydrogen Sulfide Odd	or (C1)	Crayfish Burro	
Sediment Deposits (B2)		Oxidized Rhizosphere		•	ble on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced		•	essed Plants (D1)
Algal Mat or Crust (B4)	_	Recent Iron Reductio	, ,	Geomorphic P	
Iron Deposits (B5)	-	Thin Muck Surface (C	27)	Shallow Aquita	
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Ren	narks)	Microtopograp	
Sparsely Vegetated Conca	ave Surface (B8)			FAC-Neutral T	est (D5)
Field Observations:					
Surface Water Present?		Depth (inches):			
Water Table Present?		Depth (inches):			.
Saturation Present? (includes capillary fringe)	Yes V No	Depth (inches): 8	Wetland	d Hydrology Present	? Yes No No
Describe Recorded Data (stream	am gauge, monitorir	ng well, aerial photos, pre	vious inspections), if a	available:	
Remarks:					
Remarks:					

/EGETATION – Use scientific names of plants	S.			Sampling Point: 252 W1 RC
Tree Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6.				Prevalence Index worksheet:
7				
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Co	ver	OBL species 5 $x 1 = 5$ FACW species 92 $x 2 = 184$
1. Clethra alnifolia	5	~	FAC	FAC species 5 x 3 = 15
a llov vorticilloto			FACW	FACU species $0 \times 4 = 0$
2. Nex verticinata 3. Salix nigra	_ 5		OBL	UPL species $0 \times 5 = 0$
		-		Column Totals: 102 (A) 204 (B)
4 5				Prevalence Index = B/A = $\frac{2.0}{}$
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	4.50/	= Total Co	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)		10101 00	VOI	3 - Prevalence Index is ≤3.0¹
1. Phragmites australis	85		FACW	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Onoclea sensibilis	2	-	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4 5		·		be present, unless disturbed or problematic.
6.				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		•		Herb – All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
	070/	= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
				Hedronbodio
2				HVGrophytic
2				Hydrophytic Vegetation
2				

SOIL Sampling Point: 252 W1 RC

Depth	ription: (Describ Matrix		pth needed to doci Red	ument tne dox Feature			m the absence	of indicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0 - 8	10YR 2/1	95	5YR 4/6	5	_ <u>C</u>	<u>M</u>	Sandy loam			
8 - 24	10YR 3/1	90	5YR 4/6	10	C	М	Loamy sand			
-										
	-					_				
						_				
						_				
-										
	-						-			
						-	·			
	-				_					
		epletion, RM	M=Reduced Matrix, N	MS=Maske	ed Sand G	Frains.		n: PL=Pore Lining, M=Matrix.		
Hydric Soil I			Polyvalue Bel	low Surfac	o (SO) (LE	D D		for Problematic Hydric Soils ³ :		
Histosol Histic En	oipedon (A2)		MLRA 149		e (36) (L r	KK K,		Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R)		
Black His	stic (A3)		Thin Dark Sur	rface (S9) (3) 5 cm N	Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky			K, L)	Dark Surface (S7) (LRR K, L)Polyvalue Below Surface (S8) (LRR K, L)			
	l Layers (A5) d Below Dark Surfa	ace (A11)	Loamy Gleyed Depleted Mate		-2)			Park Surface (S9) (LRR K, L)		
	ark Surface (A12)	200 (7111)	✓ Redox Dark S		3)			langanese Masses (F12) (LRR K, L, R)		
-	lucky Mineral (S1)		Depleted Dark					ont Floodplain Soils (F19) (MLRA 149B)		
	Sleyed Matrix (S4)		Redox Depres	ssions (F8))			Spodic (TA6) (MLRA 144A, 145, 149B)		
✓ Sandy R Stripped	Matrix (S6)							arent Material (F21) Shallow Dark Surface (TF12)		
	rface (S7) (LRR R ,	, MLRA 149)B)					(Explain in Remarks)		
			vetland hydrology m	ust be pres	sent, unle	ss disturbe	d or problemation			
	_ayer (if observed	1):								
Type:	-1 >-						Hydric Soil	Present? Yes No		
Depth (inc	cnes):						Tiyane don	1103CH: 103 100		
Remarks: Bouldery										
Boaldery										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: Shelto	on Sa	ampling Date: 2020-10-21
Applicant/Owner: Eversource		State: Connecticut	
Compa in a		Range:	
Landform (hillslope, terrace, etc.): Depression		=	
	•	•	
Subregion (LRR or MLRA): R 144A Lat: 41.288879	73C)		
Soil Map Unit Name: Charlton-Chatfield complex (Map Unit		NWI classification	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes No	o (If no, explain in Rem	arks.)
Are Vegetation, Soil, or Hydrology significan	ntly disturbed? Ar	re "Normal Circumstances" pres	sent? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If	needed, explain any answers i	n Remarks.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poin	t locations, transects, ir	mportant features, etc.
Hydrophytic Vegetation Present? Yes ✔ No	Is the Sampl	ed Area	
Hydric Soil Present? Yes V No	-		No
Wetland Hydrology Present? Yes V No		al Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a separate re Drought	port.)		
HYDROLOGY Wetland Hydrology Indicators:		Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is required; check all that appl	(v)	Surface Soil Cra	
✓ Surface Water (A1) Water-Staine	• •	Drainage Patter	
High Water Table (A2) Aquatic Faur		Moss Trim Lines	
Saturation (A3) Marl Deposit		Dry-Season Wa	
Water Marks (B1) Hydrogen Su		Crayfish Burrow	
	izospheres on Living Ro		le on Aerial Imagery (C9)
	Reduced Iron (C4)	Stunted or Stres	
	Reduction in Tilled Soils	s (C6) Geomorphic Pos	sition (D2)
Iron Deposits (B5) Thin Muck S	surface (C7)	Shallow Aquitar	d (D3)
Inundation Visible on Aerial Imagery (B7) Other (Expla	in in Remarks)	Microtopographi	ic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Te	st (D5)
Field Observations:			
Surface Water Present? Yes No Depth (inch	,		
Water Table Present? Yes No Depth (inch	es):		
Saturation Present? Yes No Depth (inches	es):	Wetland Hydrology Present?	Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial ph	otos, previous inspectio	ons). if available:	
g,		,, <u></u>	
Remarks:			

VEGETATION – Use scientific names of plants.

				Sampling Point: 252 W1A SME
Free Stratum (Plot size: 30 ft r)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 3 (B)
1				Percent of Dominant Species That Are OBL_FACW_or_FAC: 67 (A/B)
5				That Are OBL, FACW, or FAC: 67 (A/B)
S				Prevalence Index worksheet:
7				Total % Cover of: Multiply by: OBL species 10 x 1 = 10
Sapling/Shrub Stratum (Plot size: 15 ft r)		= Total Co	vei	OBL species $\frac{10}{100}$ $x = \frac{10}{200}$ FACW species $\frac{100}{100}$ $x = \frac{10}{200}$
Salix bebbiana	20	~	FACW	FAC species $0 \times 3 = 0$
Lonicera japonica	10	~	FACU	FACU species 10 x 4 = 40
3.				UPL species $\frac{0}{120}$ $x = \frac{0}{250}$ (B)
1.				Column Totals: <u>120</u> (A) <u>250</u> (B)
5.				Prevalence Index = B/A = $\frac{2.1}{}$
5				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	000/	= Total Co	ver	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)				 ✓ 3 - Prevalence Index is ≤3.0¹ ✓ 4 - Morphological Adaptations¹ (Provide supporting
Phalaris arundinacea	80		FACW	data in Remarks or on a separate sheet)
2. Symphyotrichum puniceum	10		OBL	Problematic Hydrophytic Vegetation ¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
5	<u> </u>			Definitions of Vegetation Strata:
S	_			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
3			· 	Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	_			
10.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
		= Total Co	ver	height.
		- 10tal 00	vci	
Noody Vine Stratum (Plot size: 30 ft r				
Noody Vine Stratum (Plot size: 30 ft r)				
l				
1				Hydrophytic
l	 			Vegetation
1				

SOIL Sampling Point: 252 W1A SME

Profile Desc	ription: (Describe	to the dep	oth needed to docum	ent the	indicator	or confirn	m the absence of indicators.)	
Depth	Matrix			<u>Feature</u>	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	_
0 - 4	10YR 2/1	100					Mucky Peat	_
4 - 12	7.5YR 5/1	100					Loam	
	-							
		. ——					·	_
								_
		-		-				
-								
				-	· <u></u>			_
							·	_
			-				· ·	_
		<u> </u>						
				-	· <u></u>		- ·	_
							·	
	-		-					_
¹ Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, MS	=Masked	d Sand Gr	ains.	² Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I	Indicators:						Indicators for Problematic Hydric Soils ³ :	
Histosol			Polyvalue Below	Surface	(S8) (LRI	₹R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Ep Black Hi	oipedon (A2)		MLRA 149B) Thin Dark Surface	oo (SO) (I	DD D M	DA 140D	Coast Prairie Redox (A16) (LRR K, L, R)5 cm Mucky Peat or Peat (S3) (LRR K, L, R	\
	n Sulfide (A4)		Loamy Mucky M				Som Mucky Feat of Feat (33) (LRR K, L, R Dark Surface (S7) (LRR K, L))
	Layers (A5)		Loamy Gleyed N			, –,	Polyvalue Below Surface (S8) (LRR K, L)	
	d Below Dark Surfac	e (A11)	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)	
	ark Surface (A12)		Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, F	
-	lucky Mineral (S1)		Depleted Dark S		-7)		Piedmont Floodplain Soils (F19) (MLRA 149	
	Sleyed Matrix (S4) Ledox (S5)		Redox Depressi	oris (Fo)			Mesic Spodic (TA6) (MLRA 144A, 145, 149) Red Parent Material (F21)	D)
-	Matrix (S6)						Very Shallow Dark Surface (TF12)	
	rface (S7) (LRR R, I	/ILRA 149	В)				Other (Explain in Remarks)	
			etland hydrology must	be pres	ent, unles	s disturbed	d or problematic.	
	_ayer (if observed):							
Type:							Hadria Ocil Brassado - Vas - V - Na	
Depth (inc	ches):						Hydric Soil Present? Yes No	_
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: Shel	lton	Sampling Date: 2020-10-21
Applicant/Owner: Eversource			Sampling Point: 252 2A SME
CME ICC	Section, Township		
Landform (hillslope, terrace, etc.): Depression		=	
, , ,	·	,	
Subregion (LRR or MLRA): R 144A Lat:		_	
Soil Map Unit Name: 73C Charlton-Chatfield com			
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes N	No (If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers	s in Remarks.)
SUMMARY OF FINDINGS - Attach site m	nap showing sampling poi	nt locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sam	pled Area	
	No within a W	etland? Yes	No
Wetland Hydrology Present? Yes		onal Wetland Site ID: 252 2A	
Drought			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required; check	k all that apply)	Surface Soil C	racks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patte	erns (B10)
	Aquatic Fauna (B13)	Moss Trim Lin	es (B16)
	Marl Deposits (B15)	-	/ater Table (C2)
l	Hydrogen Sulfide Odor (C1)	Crayfish Burro	
_ : : / _	Oxidized Rhizospheres on Living	· / —	ble on Aerial Imagery (C9)
	Presence of Reduced Iron (C4)		essed Plants (D1)
	Recent Iron Reduction in Tilled So		
	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aquita Microtopograp	,
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	✓ FAC-Neutral T	
Field Observations:		1710 11001101111	cot (B0)
	Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No	Depth (inches):	Wetland Hydrology Present	? Yes <u> </u>
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring v	vell aerial photos previous inspec	tions) if available	
Become Necestad Bala (chodin gauge, memering v	voll, dendi prietes, previede inepes	sono), ii avaliabio.	
Remarks:			

VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of plants.				Sampling Point: 252 2A SME			
Tree Stratum (Plot size: 30 ft r		Dominan		Dominance Test worksheet:			
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)			
2				Total Number of Dominant			
3				Species Across All Strata: 1 (B)			
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)			
5							
6				Prevalence Index worksheet:			
7		= Total Co		Total % Cover of: Multiply by: OBL species 30 x 1 = 30			
Sapling/Shrub Stratum (Plot size: 15 ft r		- Total Oo	VOI	FACW species 90 x 2 = 180			
1				FAC species $0 x 3 = 0$			
2.				FACU species $\frac{0}{2}$ $x = 4$			
3.				UPL species 0 $x = 0$ (A) 210 (B)			
1.				Column Totals: <u>120</u> (A) <u>210</u> (B)			
5				Prevalence Index = B/A = 1.8			
3				Hydrophytic Vegetation Indicators:			
7				✓ 1 - Rapid Test for Hydrophytic Vegetation			
		= Total Co	ver	✓ 2 - Dominance Test is >50%			
Herb Stratum (Plot size: 5 ft r)				✓ 3 - Prevalence Index is ≤3.0 ¹			
1. Phalaris arundinacea	80		FACW	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)			
2. Lythrum salicaria	20		OBL	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must			
3. Epilobium anagallidifolium	10		FACW				
4. Symphyotrichum puniceum	10		OBL	be present, unless disturbed or problematic.			
5				Definitions of Vegetation Strata:			
6				Tree – Woody plants 3 in. (7.6 cm) or more in diamete			
7				at breast height (DBH), regardless of height.			
3				Sapling/shrub – Woody plants less than 3 in. DBH			
9	·			and greater than or equal to 3.28 ft (1 m) tall.			
10				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
11							
12		= Total Co	· · · · · · · · · · · · · · · · · · ·	Woody vines – All woody vines greater than 3.28 ft in height.			
Noody Vine Stratum (Plot size: 30 ft r)	12070	- Total Co	vei				
1							
3				Hydrophytic			
4				Vegetation Present? Yes No			
		= Total Co	ver	1.7555			
Remarks: (Include photo numbers here or on a separate se							

SOIL Sampling Point: 252 2A SME

Profile Desc	cription: (Describe	to the de	pth needed to docui	ment the	indicator	or confirn	m the absence of indicators.)		
Depth	Matrix			x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks		
0 - 11	10YR 5/2	80	7.5YR 5/6	20	<u>C</u>	PL/M	Loam		
11 - 22	2.5Y 5/2	70	10YR 6/6	30	<u>C</u>	M	Sand		
		letion, RN	I=Reduced Matrix, M	S=Maske	d Sand G	ains.	² Location: PL=Pore Lining, M=Matrix.		
Hydric Soil							Indicators for Problematic Hydric Soils ³ :		
Histosol	(A1) pipedon (A2)		Polyvalue Belo		e (S8) (LR	R R,	2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R)		
	istic (A3)		Thin Dark Surfa	•	IRRR.M	I RA 149R			
	en Sulfide (A4)		Loamy Mucky I				Dark Surface (S7) (LRR K, L)		
	d Layers (A5)		Loamy Gleyed			, ,	Polyvalue Below Surface (S8) (LRR K, L)		
Deplete	d Below Dark Surfac	e (A11)	✓ Depleted Matrix	k (F3)			Thin Dark Surface (S9) (LRR K, L)		
Thick Da	ark Surface (A12)		Redox Dark Su	rface (F6)		Iron-Manganese Masses (F12) (LRR K, L, R)		
-	Mucky Mineral (S1)		Depleted Dark				Piedmont Floodplain Soils (F19) (MLRA 149I		
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
-	Redox (S5)						Red Parent Material (F21)		
	d Matrix (S6) Irface (S7) (LRR R, I	MLRA 149	В)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
³ Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mus	st he nres	ent unles	s disturbed	d or problematic		
	Layer (if observed):		charla hydrology mad	ot bo proc	orit, uriles	o diotarbee			
Type:									
Depth (in	ches):						Hydric Soil Present? Yes No		
Remarks:									

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: She	lton	Sampling Date: 2020-10-21			
Applicant/Owner: Eversource			Sampling Point: 255-1A-21			
0145 100	Section, Township					
Landform (hillslope, terrace, etc.): Depression						
Subregion (LRR or MLRA): R 144A Lat:	•	,				
Soil Map Unit Name: 73E Charlton-Chatfield comp						
Are climatic / hydrologic conditions on the site typical fo						
			·			
Are Vegetation, Soil, or Hydrology						
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS - Attach site m	ap showing sampling po	nt locations, transects,	important features, etc.			
	No within a W	ppled Area /etland? Yes onal Wetland Site ID:	No			
Remarks: (Explain alternative procedures here or in a	, , ,	mai Welland Oile ID.				
HYDROLOGY						
Wetland Hydrology Indicators:			ors (minimum of two required)			
Primary Indicators (minimum of one is required; check		Surface Soil 0				
	Water-Stained Leaves (B9)	<u>✓</u> Drainage Patt				
	Aquatic Fauna (B13) Marl Deposits (B15)	Moss Trim Lines (B16) Dry-Season Water Table (C2)				
	Hydrogen Sulfide Odor (C1)	Crayfish Burro				
	Oxidized Rhizospheres on Living		s ble on Aerial Imagery (C9)			
	Presence of Reduced Iron (C4)		ressed Plants (D1)			
	Recent Iron Reduction in Tilled S	· · · · · · · · · · · · · · · · · · ·	` '			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquit	ard (D3)			
	Other (Explain in Remarks)		phic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)		<u>✓</u> FAC-Neutral 1	Test (D5)			
Field Observations:						
Surface Water Present? Yes No						
	Depth (inches):	Watland Hudnalanu Duagant	12 Van V Na			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Present	t? Yes No			
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspec	tions), if available:				
Remarks:						

VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of plants	6.			Sampling Point: 255-1A-21
Tree Stratum (Plot size: 30 ft r	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
5				That Ale OBE, I AOW, OF I AO.
S				Prevalence Index worksheet:
′				Total % Cover of: Multiply by: OBL species 20 v.1 = 20
Continue/Chrysh Stratum / Diet sizes 15 ft r		= Total Co	/er	OBL species $\frac{20}{80}$ $x = \frac{20}{160}$ FACW species $\frac{20}{80}$ $x = \frac{20}{160}$
Sapling/Shrub Stratum (Plot size: 15 ft r) Cornus amomum	20	V	FACW	FAC species $0 \times 3 = 0$
Oalis diagatas			FACW	FACU species $0 \times 4 = 0$
		-	NI	UPL species $0 \times 5 = 0$
3				Column Totals: 100 (A) 180 (B)
1 =				Prevalence Index = B/A = 1.8
5 S				Hydrophytic Vegetation Indicators:
		_		✓ 1 - Rapid Test for Hydrophytic Vegetation
7	400/	= Total Co		✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)	1070	- Total Co	/ei	✓ 3 - Prevalence Index is ≤3.0 ¹
1. Phragmites australis	40	~	FACW	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Symphyotrichum puniceum	20		OBL	Problematic Hydrophytic Vegetation¹ (Explain)
3.	_ ·			
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				
6				Definitions of Vegetation Strata:
7.				Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
3.				
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				Herb – All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tall.
12.				Woody vines – All woody vines greater than 3.28 ft in
		= Total Co	/er	height.
Woody Vine Stratum (Plot size: 30 ft r				
1.				
2.				
3				Hydrophytic
				Vegetation
4				Present? Yes No
4		= Total Co	/er	

SOIL Sampling Point: 255-1A-21

Depth Mart Color (most) % Color (most) % Type Loc Nucky Peat Nu	Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the i	ndicator	or confirn	n the absence	of indicators.)
O - 10 10YR 2/1 100							. 2	- .	
		-		Color (moist)		<u>Type</u>	Loc		
Hydric Soil Indicators: Histosol (A1) Histosol (A2) MLRA 149B) MLRA 149B) Dark Surface (S8) (LRR R, Cand Mucky Mineral (S3) (LRR K, Lang) Depleted Below Surface (S9) (LRR R, MLRA 149B) Straified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes V No	0 - 10	10YR 2/1	100					Mucky Peat	Rock control fabric. Refusal at 10"
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)	-								
Hydric Soil Indicators: Histosol (A1)			-						
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)	-								
Hydric Soil Indicators: Histosol (A1)			·					-	
Hydric Soil Indicators: Histosol (A1)					. ——				
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)		-							-
Hydric Soil Indicators: Histosol (A1)		-							
Histosol (A1)			letion, RM	=Reduced Matrix, MS	S=Masked	Sand Gra	ains.		
✓ Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Stripped Matrix (S6) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No	-			Polyvalue Belov	w Surface	(S8) (I D E) D		·
Black Histic (A3)						(50) (EIXI	ι I ι ,		
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Think Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Serictive Layer (if observed): Type: Rock Rock Hydric Soil Present? Yes No No						RR R, ML	RA 149B) 5 cm N	Mucky Peat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No							, L)		
Thick Dark Surface (A12)			o (A11))		-	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):			e (ATT)						
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):									
Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No	_					,			
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No	_								
³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes _ ✓ No				_,					
Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No	Dark Sui	rface (S7) (LRR R, I	VILRA 149I	3)				Other	(Explain in Remarks)
Restrictive Layer (if observed): Type: Rock Depth (inches): 10 Hydric Soil Present? Yes No	³ Indicators of	f hvdrophvtic vegeta	tion and we	etland hydrology mus	t be prese	ent. unless	disturbed	l or problemation	c.
Depth (inches): 10 Hydric Soil Present? Yes No				, ,,	· ·			<u> </u>	
	Type: Ro	ock							
	Depth (inc	ches): 10						Hydric Soil	Present? Yes No
		,		<u></u>				1	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Line 1580: 2020	Citv/County: Nauç	gatuck s	Sampling Date: 2020-10-21			
Applicant/Owner: Eversource		State: Connecticut				
Discipa		Range:				
Landform (hillslope, terrace, etc.): Terrace		=				
Subregion (LRR or MLRA): R 144A Lat: 41.2	•	, -				
Soil Map Unit Name: 60B Canton and Charlton fine sar	idy loam	NWI classificat	tion:			
Are climatic / hydrologic conditions on the site typical for this t						
Are Vegetation, Soil, or Hydrology sig	nificantly disturbed? A	re "Normal Circumstances" pre	esent? Yes No			
Are Vegetation, Soil, or Hydrology nat	urally problematic? (I	f needed, explain any answers	in Remarks.)			
SUMMARY OF FINDINGS – Attach site map sl	nowing sampling poin	nt locations, transects, i	important features, etc.			
Hydrophytic Vegetation Present? Yes <u>✓</u> No	Is the Samp	oled Area				
Hydric Soil Present? Yes V		etland? Yes	No			
Wetland Hydrology Present? Yes V		nal Wetland Site ID: 257 1A				
Active agricultural field. Vegetation is problematic						
HYDROLOGY	-					
Wetland Hydrology Indicators:		Secondary Indicato	ors (minimum of two required)			
Primary Indicators (minimum of one is required; check all that	at apply)	Surface Soil Ci	racks (B6)			
Surface Water (A1) Water	-Stained Leaves (B9)	Drainage Patte	erns (B10)			
High Water Table (A2) Aquati	ic Fauna (B13)	Moss Trim Line	Moss Trim Lines (B16)			
	Deposits (B15)		Dry-Season Water Table (C2)			
	gen Sulfide Odor (C1)	Crayfish Burro				
	ed Rhizospheres on Living R		ble on Aerial Imagery (C9)			
	nce of Reduced Iron (C4)		essed Plants (D1)			
	nt Iron Reduction in Tilled Soi					
	luck Surface (C7) (Explain in Remarks)	Shallow Aquita	` ,			
Sparsely Vegetated Concave Surface (B8)	(Explain in Remarks)	Microtopograpl FAC-Neutral T				
Field Observations:	T	I AC-Nedital II	est (D0)			
Surface Water Present? Yes No Depth	n (inches):					
Water Table Present? Yes No _ ✓ Depti						
Saturation Present? Yes No Depth		Wetland Hydrology Present?	? Yes <u>/</u> No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspecti	ons), if available:				
Remarks:						

VEGETATION – Use scientific names of plants. Sampling Point: 257-1A Absolute Dominant Indicator % Cover <u>Tree Stratum</u> (Plot size: _____30 ___) Species? Status **Dominance Test worksheet:** 1. **Number of Dominant Species** 2. That Are OBL, FACW, or FAC: (A) 3.

Total Number of Dominant 4. Species Across All Strata: 1 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: =Total Cover Multiply by: Total % Cover of: Sapling/Shrub Stratum (Plot size: 15 **OBL** species x 1 = **FACW** species 50 x 2 = 100 0 2. FAC species x3 =0 0 3. FACU species x 4 = 0 4. **UPL** species 0 x 5 = 0 5. Column Totals: 50 100 Prevalence Index = B/A = 2.00 6. **Hydrophytic Vegetation Indicators:** 7. 1 - Rapid Test for Hydrophytic Vegetation =Total Cover Herb Stratum (Plot size: 5) X 2 - Dominance Test is >50% Phalaris arundinacea 1. Yes **FACW** 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations¹ (Provide supporting 2. data in Remarks or on a separate sheet) 3. 4. Problematic Hydrophytic Vegetation¹ (Explain) 5. ¹Indicators of hydric soil and wetland hydrology must 6. be present, unless disturbed or problematic. 7. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in 9. diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

=Total Cover

height.

Hydrophytic
Vegetation
Present? Yes X No____

Remarks: (Include photo numbers here or on a separate sheet.)
Active pasture, most of the vegetation grazed.

1.

2.

SOIL Sampling Point: 257-1A

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020	City/County: Shelt	ton	Sampling Date: 2020-10-21				
Applicant/Owner: Eversource			Sampling Point: 258 1A SME				
	Section, Township,		· -				
Landform (hillslope, terrace, etc.): Depression							
Subregion (LRR or MLRA): R 144A Lat: 4							
Soil Map Unit Name: 4 Leicester fine sandy loam							
Are climatic / hydrologic conditions on the site typical for the	his time of year? Vos N	(If no explain in Po	marks \				
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers	s in Remarks.)				
SUMMARY OF FINDINGS – Attach site map	showing sampling poir	nt locations, transects,	important features, etc.				
<u>.</u>	No Is the Samp within a West No If yes, option		_ No				
Remarks: (Explain alternative procedures here or in a set Drought Active agricultural field							
HYDROLOGY							
Wetland Hydrology Indicators:			ors (minimum of two required)				
Primary Indicators (minimum of one is required; check al		Surface Soil C					
	ater-Stained Leaves (B9)		Drainage Patterns (B10)				
	quatic Fauna (B13) arl Deposits (B15)		Moss Trim Lines (B16)				
	/drogen Sulfide Odor (C1)	 Dry-Season Water Table (C2) Crayfish Burrows (C8)					
	kidized Rhizospheres on Living F						
	esence of Reduced Iron (C4)		essed Plants (D1)				
	ecent Iron Reduction in Tilled Soi						
	in Muck Surface (C7)						
	her (Explain in Remarks)	· · · · · · · · · · · · · · · · · · ·					
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral T					
Field Observations:							
Surface Water Present? Yes No D	epth (inches):						
Water Table Present? Yes No D	epth (inches):						
	epth (inches):	Wetland Hydrology Present	? Yes No				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well		ions), if available:					
		,					
Demonto							
Remarks:							

VEGETATION – Use scientific names of plants.

			Sampling Point: 258 1A SME
			Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
			Species Across All Strata: 2 (B)
			Percent of Dominant Species
	-		That Are OBL, FACW, or FAC: 100 (A/B
	-		Prevalence Index worksheet:
		_	Total % Cover of: Multiply by:
	= Total Co	over	OBL species $\frac{40}{60}$ $\times 1 = \frac{40}{120}$
			FACW species 60 $x = 120$ FAC species 0 $x = 0$
			FACU species $0 \times 4 = 0$
			UPL species $0 \times 5 = 0$
			Column Totals: 100 (A) 160 (B)
			Prevalence Index = B/A = 1.6
			Hydrophytic Vegetation Indicators:
			✓ 1 - Rapid Test for Hydrophytic Vegetation
			✓ 2 - Dominance Test is >50%
	- Total Ct	ovei	3 - Prevalence Index is ≤3.0¹
40	~	OBL	4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)
40			Problematic Hydrophytic Vegetation¹ (Explain)
10			
10		FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
			Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless
	-		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft in height.
100%	= Total Co	over	neight.
			Hydrophytic Vegetation
		 	Hydrophytic Vegetation Present? Yes No
	<u>% Cover</u> 40 40 10 10	## Cover Species? ### Total Co ### Total Co ### ### ### ### ### ### ### ### ### #	= Total Cover 40

SOIL Sampling Point: 258 1A SME

Depth	cription: (Describe Matrix		Rec	lox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 16	10YR 2/1	90	7.5YR 4/6	10	<u>C</u>	PL	Silt Loam	
-								
					_			
					_			
					_			
	-							
-								
					_			
			-			-		
					_			
					_			
¹ Type: C=Co	oncentration, D=Dep	oletion, RM	I=Reduced Matrix, N	//S=Maske	d Sand G	rains.		: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							for Problematic Hydric Soils ³ :
Histosol			Polyvalue Bel		e (S8) (LF	RR R,		Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149 Thin Dark Sur	,	IRRR N	NI RA 149F		Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Mucky					surface (S7) (LRR K, L)
	d Layers (A5)		Loamy Gleye			, ,		lue Below Surface (S8) (LRR K, L)
	d Below Dark Surfac	e (A11)	Depleted Mate					ark Surface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark S					anganese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1) Bleyed Matrix (S4)		✓ Depleted Darl Redox Depres					ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B)
	Redox (S5)		Nedox Depres	5510115 (1-0)	1			arent Material (F21)
	Matrix (S6)							hallow Dark Surface (TF12)
	rface (S7) (LRR R, I	MLRA 149	B)					(Explain in Remarks)
31	£			4 1			d	
	f hydrophytic vegeta Layer (if observed)		etland hydrology m	ust be pres	sent, unies	ss disturbed	d or problematio	i.
Type:	Layer (II observed)	•						
	-h).						Hydric Soil	Present? Yes No
Depth (inc	cnes):						Tryunc con	11c3ciii: 1c3 14c
Remarks:								

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Line 1580: 2020		City/0	County: Shel	ton		Sampling Date	2020-10-22		
Applicant/Owner: Eversource							oint: 258 W38 RKV		
		Secti				· -			
Landform (hillslope, terrace, etc.):							ope (%): 0-3		
Subregion (LRR or MLRA): R 14			•	,					
Soil Map Unit Name: 75C Hollis									
Are climatic / hydrologic conditions									
Are Vegetation, Soil							No. V		
							NO		
Are Vegetation, Soil	_, or Hydrology	naturally problem	atic? (If needed, exp	olain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS	 Attach site n 	nap showing san	npling poi	nt locations	s, transects	, important f	eatures, etc.		
Hydrophytic Vegetation Present?	Yes 🗸	No	Is the Samp	pled Area					
Hydric Soil Present?		No	within a We	etland?	Yes	No	_		
Wetland Hydrology Present?		No	If yes, optio	nal Wetland S	ite ID: 258 W3	38			
Remarks: (Explain alternative pr Drought Man made swale. Hydrologic inpu									
HYDROLOGY Wetland Hydrology Indicators:				Si	econdary Indica	ators (minimum c	of two required)		
Primary Indicators (minimum of c		k all that apply)		<u> </u>	_ Surface Soil		1 two required		
Surface Water (A1)	-	Water-Stained Leave	es (B9)		Drainage Pa				
High Water Table (A2)		Aquatic Fauna (B13)							
Saturation (A3)		Marl Deposits (B15)							
Water Marks (B1)		Hydrogen Sulfide Oc	gen Sulfide Odor (C1) Crayfish Burrows (C8)						
Sediment Deposits (B2)		Oxidized Rhizospher	_	Roots (C3)		is ble on Aerial Ir			
Drift Deposits (B3)		Presence of Reduce		_		tressed Plants ([) 1)		
Algal Mat or Crust (B4)		Recent Iron Reduction		ils (C6)		Position (D2)			
Iron Deposits (B5)		•	in Muck Surface (C7) Shallow Aquitard (D3)						
Inundation Visible on Aerial I		Other (Explain in Re	marks)	-		aphic Relief (D4)			
Sparsely Vegetated Concave Field Observations:	Surface (B8)			<u>*</u>	_ FAC-Neutral	Test (D5)			
	′es No_ -/	Denth (inches):							
	· · · · · · · · · · · · · · · · · · ·	Depth (inches): 2							
		Depth (inches): 0		Wetland Hyd	drology Preser	nt? Yes 🗸	No		
(includes capillary fringe)		_ , , , ,							
Describe Recorded Data (stream	gauge, monitoring v	weii, aeriai photos, pre	vious inspect	lons), ii avallal	DIE:				
Remarks:									

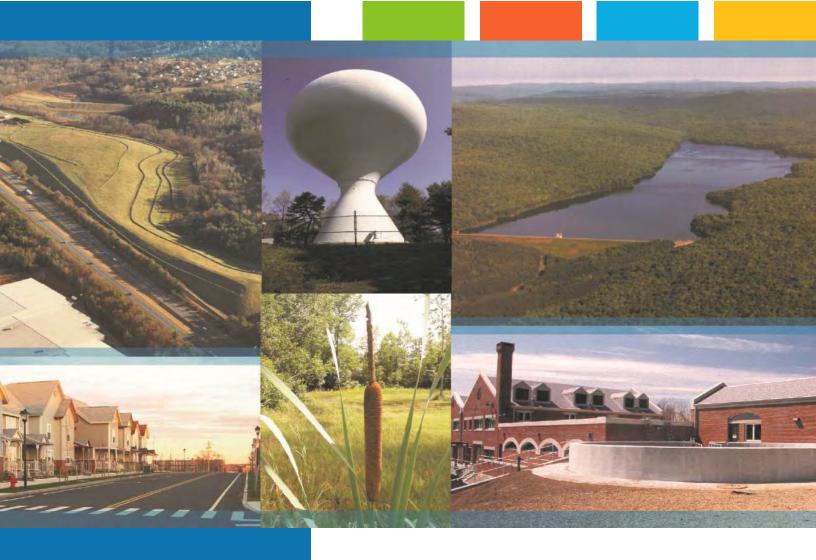
VEGETATION – Use scientific names of plants.

/EGETATION – Use scientific names of plants	3.			Sampling Point: 258 W38 RKV
Tree Stratum (Plot size: 30 ft r)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
1				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B
3				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Co	ver	OBL species 55 x 1 = 55
Sapling/Shrub Stratum (Plot size: 15 ft r)				FACW species <u>5</u> x 2 = <u>10</u>
i.				FAC species $0 \times 3 = 0$
2.				FACU species $\frac{0}{0}$ $x = 4$
3.				UPL species $\frac{0}{60}$ $x = \frac{0}{65}$
4				Column Totals: <u>60</u> (A) <u>65</u> (B)
5				Prevalence Index = B/A = 1.1
5				Hydrophytic Vegetation Indicators:
7			· ——	✓ 1 - Rapid Test for Hydrophytic Vegetation
· <u> </u>		= Total Co	vor	✓ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5 ft r)		- Total Co	VEI	✓ 3 - Prevalence Index is ≤3.0¹
Herb Stratum (Plot size: 5 lt r) 1. Typha angustifolia	50	~	OBL	4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Bidens frondosa			FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Persicaria arifolia			OBL	
4		-		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				·
6				Definitions of Vegetation Strata:
7				Tree – Woody plants 3 in. (7.6 cm) or more in diamete
В				at breast height (DBH), regardless of height.
9.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10			·	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		-		Woody vines – All woody vines greater than 3.28 ft in
12		= Total Co	ver	height.
Woody Vine Stratum (Plot size: 30 ft r)				
1				
2				Hydrophytic
2 3				Vegetation
1				

SOIL Sampling Point: 258 W38 RKV

Profile Desc	ription: (Describe	to the dep	th needed to docum	nent the	indicator	or confir	n the absence	of indicators.)
Depth	Matrix	0/	Redo	x Feature	es 1	. 2	- .	D .
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0 - 10	10YR 4/2	90	7.5YR 4/6	10	С	М	Loamy sand	Gravelly loamy sand Rock refusal
-								
				-	-			·
						· 		
-								
		·	-			-		
				· 				·
_					-			
		letion, RM	=Reduced Matrix, MS	S=Maske	d Sand G	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil I Histosol			Polyvalue Below	v Surface	(CO) (I D	D D		for Problematic Hydric Soils ³ : Muck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B)		: (30) (LK	ι ι,		Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		LRR R, M	LRA 149E		Mucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky N			(, L)		Surface (S7) (LRR K, L)
	Layers (A5)		Loamy Gleyed I		2)			alue Below Surface (S8) (LRR K, L)
	Below Dark Surfac	e (A11)	<u>✓</u> Depleted Matrix					Dark Surface (S9) (LRR K, L)
	rk Surface (A12) lucky Mineral (S1)		Redox Dark Sur	` '				langanese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B)
-	leyed Matrix (S4)		Redox Depress					Spodic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)			(. 0)				arent Material (F21)
-	Matrix (S6)							Shallow Dark Surface (TF12)
Dark Sur	face (S7) (LRR R, I	VILRA 149	3)				Other	(Explain in Remarks)
31	: h do h 4! 4 .	4! 1	- 41 d. b d l	4 1		1!- 4 l	d	_
	nydropnytic vegeta ayer (if observed):		etland hydrology mus	t be pres	ent, unles	s disturbed	d or problemation	C
Type: Ro		•						
							Hydric Soil	Present? Yes No
Depth (inc	ches): 10						Tiyunc 30ii	Tresent: res No
Remarks:								

Attachment E: Vernal Pool Survey



Stevenson to Pootatuck Rebuild Project Connecticut Towns: Monroe and Shelton

Vernal Pool Report

Eversource Energy
March 2022

Tighe&Bond



Section 1 Introduction
Section 2 Vernal Pool Determination and Regulations 2.1 Vernal Pool Identification Methods
Section 3 Means and Methods
Section 4 Results
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4.2 Vernal Pool 2
4.3 Vernal Pool 3
4.4 Vernal Pool 4
4.5 Vernal Pool 5
4.7 Study Period Weather
Section 5 Discussion
5.1 Potential Impacts to Vernal Pools
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5.1.2 Vernal Pool 25-1
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5.1.4 Vernal Pool 4
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5.2 Avoidance and ivinimization ineasures5-2
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Appendices
A Site Photographs

Project Plan Sheets

В

SECTION 1

Section 1 Introduction

The following report details the vernal pool habitat assessment conducted by Tighe & Bond in support of Eversource Energy Service Company's ("Eversource") Petition to the Connecticut Siting Council for the Stevenson to Pootatuck Rebuild Project ("Project"). The Project is planned within an approximate 8.1-mile section of an existing transmission line right-of-way ("ROW") in the towns of Shelton and Monroe, Connecticut. The Project will require the construction of temporary and permanent access roads and work pads to facilitate rebuild activities, including removal and installation of new transmission structures and associated overhead transmission components. The Project will not require widening of the ROW or tree clearing that would result in a conversion of cover type. The Project will not result in any direct impacts to vernal pool depressions. Impacts to 100-foot vernal pool envelopes will be minimized to the greatest extent practicable through avoidance, minimization, and the use of Best Management Practices ("BMPs") as detailed within this report.

SECTION 2

Section 2 **Vernal Pool Determination and Regulations**

The Connecticut Siting Council ("Council") published the *Electric and Fuel Transmission Line Facility* application guide ("Guidelines") in April 2010. Section VIII of the Guidelines provides an outline of the contents for an application to the Council. Specifically, Section VI.I.D requires the applicant to depict vernal pools in the existing conditions plans, along with a 100-foot buffer around each pool.

Projects subject to the Council's jurisdiction are not subject to local inland wetland commission regulations in Connecticut. Connecticut's Inland Wetlands and Watercourse Act ("Act"), enacted in 1972, did not originally address vernal pools. The regulation of vernal pools is provided through a later amendment, P.A. 95-313. This 1995 amendment expanded the definition of "watercourse" to include "all other bodies of water, natural or artificial, vernal or intermittent." Neither the Act nor its amendment provide a definition for vernal pool.

Under authority granted by Section 404 of the Clean Water Act, the U.S. Army Corps of Engineers ("Corps") - New England District issued the *Department of the Army Regional General Permits for the State of Connecticut* ("GP", effective date December 15, 2021). Within the GP, vernal pools are included as one of six wetland habitats defined as "Special Wetlands" by the Connecticut Department of Energy and Environmental Protection's ("CTDEEP") associated Water Quality Certification program.

A number of vernal pool definitions have been developed by regulatory authorities and conservation organizations. The Corps GP defines vernal pools ("VPs") as "depressional wetland basins that typically go dry in most years and may contain inlets or outlets, typically of intermittent flow. Vernal pools range in both size and depth depending upon landscape position and parent material(s). In most years, VPs support one or more of the following obligate indicator species: wood frog, spotted salamander, blue spotted salamander, marbled salamander, Jefferson's salamander and fairy shrimp. However, they should preclude sustainable populations of predatory fish."

Calhoun and Klemens (2002) Best Development Practices: Conserving Pool-Breeding Amphibians in Residential and Commercial Developments in the Northeastern United States ("BDP Manual") provides the following operational definition of vernal pools:

Vernal pools are seasonal bodies of water that attain maximum depths in the spring or fall and lack permanent surface water connections with other wetlands or water bodies. Pools fill with snowmelt or runoff in the spring, although some may be fed primarily by groundwater sources. The duration of surface flooding, known as hydroperiod, varies depending upon the pool and the year; vernal pool hydroperiods range along a continuum from less than 30 days to more than one year. Pools are generally small in size (<2 acres), with the extent of vegetation varying widely. They lack established fish populations, usually as a result of periodic drying, and support communities dominated by animals adapted to living in temporary, fishless pools. In the region, they provide essential breeding habitat for one or more wildlife species including Ambystomid salamanders (Ambystoma spp., called "mole salamanders"

because they live in burrows), wood frogs (Rana sylvatica), and fairy shrimp (Eubranchipus spp.).

2.1 Vernal Pool Identification Methods

Vernal pool physical characteristics can vary widely while still providing habitat for indicator species. "Classic" vernal pools are natural depressions in a wooded upland with no hydrologic connection to other wetland systems. Anthropogenic depressions such as quarry holes, old farm ponds and borrow pits can also provide similar habitat. Often, vernal pools are depressions or impoundments embedded within larger wetland systems. These vernal pool habitats are commonly referred to as "cryptic" vernal pools.

Several species of amphibians depend on vernal pools for reproduction and development. These species are referred to as "indicator" vernal pool species, and their presence in a temporary wetland during the breeding season helps to identify that area as a vernal pool. Indicator species present in Connecticut include the following:

- Blue-spotted salamander (Ambystoma laterale)
- Wood frog (Rana sylvatica)
- Spotted salamander (Ambystoma maculatum)
- Jefferson salamander (Ambystoma jeffersonianum)
- Eastern spadefoot toad (Scaphiopus holbrookii)
- Marbled salamander (Ambystoma opacum)
- Fairy shrimp (*Branchiopoda anostraca*)

Facultative vernal pool species are fauna that utilize but do not necessarily require vernal pools for reproductive success. Examples of facultative species include spotted turtles (*Clemmys guttata*) and four-toed salamander (*Hemidactylium scutatum*). These species may breed or feed in vernal pools but are also capable of carrying out all phases of their lifecycle in other types of wetlands or water bodies. Evidence of breeding by facultative species alone is not sufficient for a vernal pool classification.

For this report, a vernal pool is defined as an area that meets the physical characteristics described above and contains evidence of breeding activity of any of the indicator species listed above, including the presence of egg masses and larvae. This vernal pool assessment also makes an important distinction between wetlands in which indicator species may breed and those wetlands where they breed and successfully develop.

Vernal pool species breeding can also occur in bodies of water such as road ruts or manmade basins where the development and metamorphosis of larvae is unsuccessful. These are referred to as "decoy vernal pools". In the BDP Manual, Calhoun and Klemens note the negative impact associated with ruts:

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¹ Calhoun and Klemens (2002) argue that "indicator" species is a better word than the commonly used "obligate" species, as they will occasionally breed in roadside ditches and small ponds that are not vernal pools.

Site clearing can cause water-filled ruts. These ruts intercept amphibians moving toward the vernal pool and may induce egg deposition. Often these ruts do not hold water long enough to allow development of amphibians and therefore acts as "sinks" that result in populations declines.

Decoy vernal pools often lack vegetation for egg mass attachment and dry more rapidly than classic or cryptic vernal pools, limiting larval survivorship.

SECTION 3

Section 3 Means and Methods

Potential vernal pools (PVPs) were identified during the wetland delineation in the fall of 2020. A Tighe & Bond Certified Wetland Biologist (CWB) conducted field surveys of the PVPs identified during the delineation and in other areas with observed standing water within the Project ROW on March 25 and April 8 of 2021. Additional field surveys were conducted by Tighe & Bond wetland scientists on April 2, May 10, May 27, and June 18 of 2021. Field surveys were conducted to observe and monitor each PVP habitat area. Survey methods included a visual search for adults, larvae and egg masses, audial surveys to record chorusing, and dip-net surveys to identify amphibian larvae. Vernal pools were reinspected on May 27 and June 18, 2021 to confirm that hydrology and hydroperiod remained adequate to support breeding and development. Photographs of each location are provided in Appendix A.

The methodology described in the BDP Manual was used to assess each pool qualitatively. This assessment methodology utilizes a three-tiered rating system, with the tier designation determined by examining the biological value of the pool in conjunction with the condition of the habitat surrounding the pool, which is the area used by vernal pool amphibians during the non-breeding season. The higher the species diversity and abundance, coupled with an undeveloped and forested landscape surrounding the pool, the higher the tier rating. Tier I pools are considered the highest quality pools, while Tier III are the lowest. Analysis of the landscape condition within 750 feet of the pools is required to complete the full BDP analysis; this was conducted as the sites permitted due to constraints related to property rights and boundaries. For areas outside of the ROW and access roads, land use assessment was based on aerial photograph assessment. The BDP Manual defines Tier I and II pools are those pools that meet at least one of the following biological criteria:

- 1. The presence of a breeding state-listed species; or
- 2. Two or more indicator species breeding; or
- 3. 25 or more egg masses of a vernal pool indicator species.

The tier rating of a pool is based on which of the above *biological* criteria are met coupled with an analysis of the level of development within two landscape management zones surrounding the pools, the Vernal Pool Envelope (VPE, 0-100 feet from the pool) and the Critical Terrestrial Habitat (CTH, 100-750 feet from the pool).

A Tier I pool must meet one of the above *biological* criteria *and* have at least 75% undeveloped land within the Vernal Pool Envelope (VPE, 0-100 feet from the pool) and at least 50% undeveloped land within the Critical Terrestrial Habitat (CTH, 100-750 feet from the pool).

A Tier II pool must meet one of the above *biological* criteria along with one of the landscape criteria, either 75% undeveloped land within the VPE *or* 50% undeveloped land within the CTH.

A Tier III pool is a pool that either has high *biological* value coupled with a high percentage of developed land within the VPE and CTH *or* low biological value coupled with one of the landscape criteria being met (either 75% undeveloped land within the VPE *or* 50%

undeveloped land within the CTH). Typical, Tier III pools exhibit low species diversity and abundance.

SECTION 4

Section 4 Results

A total of six (6) vernal pools were identified and assessed as part of the Project. They are located within an approximate 1.5-mile section of ROW that crosses through relatively rugged bedrock-controlled terrain. This area includes rocky outcrops and low-growing vegetated uplands, wetland depressions, and drainageways. The adjacent land use includes forested land and residential areas. This section of the ROW includes municipal open space land in an area called the Shelton Lakes Greenway consisting of a network of trails that extend through the ROW and near the vernal pools identified in this report. The six VPs are located within mature forest with more than 75% undisturbed Vernal Pool Envelope and 50% Critical Terrestrial Habitat. Except for VP6, residential properties are greater than 750 feet from the pools. One residential property is located within 100 feet of VP6 and consists of less than a 50% developed area.

Five of the six vernal pools were initially identified as PVPs during the wetland delineation and a sixth vernal pool was found in a previously delineated wetland during the Spring 2021 survey work. No decoy vernal pools were found in the project area during the survey.

The study period was drier than typical, and the duration of standing water affected development of the tadpoles in various VP in the Spring of 2021. Development of tadpoles due to the hydroperiod is detailed below. The dryer conditions were considered when assigning Tier Ratings as a typical year would most likely provide a longer hydroperiod and increased pool depth.

**Pool Type

CR - Cryptic

CL - Classic

Table 4-1 provides a summary of the biological findings and Tier Rating for each pool using the BDP Methodology.

TABLE 4-1 Summary Vernal Pool Findings

Vernal Pool Number	Egg Mass Totals		Other Indicator or Facultative	Cowardin	Tier	Pool Type	Petition Map
	Wood Frog	Spotted Salamander	Species Observed	Code(s)*	Rating	**	Sheet No.
1	47	0	Fairy Shrimp	PSS/EM1E	1	CL	10
2	0	0	Fairy Shrimp Spotted Turtle	PSS1E	П	CR	12
3	4	0	Fairy Shrimp Spotted Turtle	PSS1E	П	CR	12
4	22	Ο	Eastern Newt	PSS/EM1E	1	CR	12
5	54	0	Four-toed salamander	PSS/EM1E	I	CR	12
6	200+	0	Fairy Shrimp	PSS/EM1E	l	CR	12/13

^{*}Cowardin code(s)

4.1 Vernal Pool 1

Vernal Pool 1 (VP1) is located along and beyond the western edge of the ROW adjacent to and north of existing Structures 240 and 1360 and is embedded within wetland W24. Photograph numbers 1 and 2 provided in Appendix A depict VP1. A gas pipeline bisects VP1 west of the ROW, and a historic access road is present along the eastern wetland and vernal pool boundary in the ROW (see Map Sheet 10). The vernal pool depression is concurrent with the wetland boundary. It is generally dominated with scrub-shrub vegetation within the ROW and forest habitat where it extends off the ROW. Herbaceous vegetation including white meadow sweet (*Spirea alba*), sensitive fern (*Onoclea sensibilis*), three-way sedge (*Dulichium arundinaceum*), and soft rush (*Juncus effusus*) was observed within the center of the vernal pool in areas that were inundated in early Spring but dried out over the successive weeks.

During the March 25 survey, fairy shrimp and 47 wood frog egg masses were observed. It was estimated that over 500 wood frog tadpoles were observed during the April 7 monitoring event.

PFO1 - Palustrine forested wetland broad leaved deciduous

PSS1 - Palustrine scrub-shrub - broad leaved deciduous

PEM1 - Palustrine emergent - persistent

PUB - Palustrine unconsolidated bottom (aka pond)

^{*}Water Regime

E - Seasonally flooded / saturated

Water levels were recorded, and surface water area consistently dropped over the course of the 2021 survey season. Water was recorded at a depth of 16 inches during the first survey on March 25. Water depth on May 10 was observed to be between 6 and 8 inches. During a construction review walkdown on May 21 not associated with the 2021 survey, VP1 was observed to have little to no pool area. On May 27, the water depth decreased to a depth of 2 inches within a 3-foot by 4-foot-wide pool in the center of the wetland with the remaining area of the pool moist but not saturated. Pooled water was not observed during the June 18 investigation. Additionally, similar to the description for May 27.

VP1 was assigned a Tier I rating during the 2021 monitoring season due to abundance of egg masses observed, one indicator species, as well as the existing undeveloped VPE and CTH. The duration of standing water did not allow for full development of the tadpoles in the Spring of 2021.

4.2 Vernal Pool 2

Vernal Pool 2 (VP2) is located at the eastern edge of the ROW between two rock outcrops south of existing Structures 1352 and 248 (see Map Sheet 12). VP2 is depicted in photographs 2 and 3. The pool is crescent-shaped with a leaf-litter substrate in a shallow depression and embedded within wetland W32. It is generally dominated with coastal sweet pepperbush (*Clethra alnifolia*) within the ROW and forest habitat where it extends off the ROW. Rock outcrops form sections of the northwest and southeast boundaries of wetland W32 and VP2.

Fairy shrimp were observed during the March 25 survey, with no egg masses observed during the six survey dates. One juvenile spotted turtle was observed during the May 27 survey.

Water depth ranged between 4 and 12 inches as measured on March 25, April 2, April 8, May 10, and June 18. The lowest recorded water depth was 4 inches on May 27.

VP2 was assigned a Tier II rating during the 2021 monitoring season due to the observation of one of vernal pool indicator species (fairy shrimp) in limited numbers (two observed), the presence of a state-listed facultative species (spotted turtle), and undeveloped VPE and CTH. In 2021, the shallow water depth limited the capacity of this pool to provide habitat where amphibians could successfully develop.

4.3 Vernal Pool 3

Vernal Pool 3 (VP3) is located north of Structures 1351 and 249, within wetland W33 and east of an existing hiking trail as depicted on Map Sheet 12. Photographs 5 and 6 illustrate this pool. VP3 is located within a linear depression entirely within the ROW. The vernal pool is dominantly vegetated with low-growing emergent species including tussock sedge (*Carex stricta*), soft rush, and broadleaf cattail (*Typha latifolia*).

Fairy shrimp and four wood frog egg masses were observed on March 25; all egg masses were observed to be non-viable during the April 8 survey as evidenced by motionless shrunken embryos and opaque egg sacs illustrated in Photograph 6. Tadpoles were not observed throughout the 2021 monitoring season. The pool was inundated with 12 inches of water during the April 8 survey. Water temperature, predation, direct sunlight, lack of

shade, or human interaction may account for the lack of viability. One juvenile spotted turtle was observed on May 27; however, no other vernal pool species were observed.

During the May 10 survey, the pool was inundated by approximately 12 inches of water with submerged emergent and shrub species along the pool perimeter. Water depth was observed to be approximately 10 inches within one 3-foot by 3-foot open water area on June 18.

VP3 was assigned a Tier II rating due the low abundance of individuals per species despite the observation of two vernal pool indicator species, the presence of a state-listed facultative species (spotted turtle) meeting the biologic criteria, and undeveloped VPE and CTH meeting the habitat criteria.

4.4 Vernal Pool 4

Vernal Pool 4 (VP4) is located south of Structures 1351 and 249 within wetland W34 (see Map Sheet 12 and Photographs 7 and 8). The pool spans the width of the ROW and extends beyond the ROW to the east. VP4 is confined within a depression between bedrock outcrops to the north and south. The pool is comprised of emergent vegetation within the ROW including narrow leaf cattail (*Typha angustifolia*), sensitive fern, common reed (*Phragmites australis*), and swamp milkweed (*Asclepias incarnata*). The pool and wetland extend off-ROW where they transition to forested habitat.

Adult wood frogs, 22 wood frog egg masses, and one eastern newt, were observed during the 2021 monitoring season. Tadpoles were not observed within the study pool during the 2021 monitoring season. Tadpoles may not have been observed as a result of dense emergent vegetation providing potential cover for tadpoles and interfering with dipnet sampling and visual observations.

The pool was inundated with surface water to a depth of less than or equal to 12 inches on March 25; 8 to 10 inches on April 8; 6 to 8 inches on May 10; 3 inches on May 27; and saturated soil with isolated pools measuring between 1 to 2 inches deep on June 18. Standing open water extended to the vernal pool perimeter in March and by May the pool contained little to no standing water and was almost completely dominated by herbaceous vegetation.

VP4 was assigned a Tier I rating due to the presence of an undeveloped VPE and CTH and nearly meeting the 25 or more egg mass biological criteria (with 22 wood frog egg masses observed).

4.5 Vernal Pool 5

Vernal Pool 5 (VP5) is located north of Structures 1350 and 250 within wetland W35 (see Map Sheet 12 and Photographs 9 and 10). The wetland and vernal pool are comprised of scrub-shrub and emergent vegetation including narrow leaf cattail (*Typha angustifolia*), sensitive fern (*Onoclea sensibilis*), and common reed (*Phragmites australis*). The margins of VP5 are densely vegetated and confined by steep rock outcrops. The wetland and pool extend off-ROW to the east where they transition to forested habitat.

A total of 54 wood frog egg masses were observed within the pool along with one four-toed salamander. Tadpoles were not observed within the pool possibly due to the same reasons described in VP4.

VP5 was inundated to a depth of 12 to 18 inches on March 25; 4 to 6 inches on April 8; 12 to 18 inches on May 10; and less than 0.25 inches in most of the pool portion of the wetland with one ponded area on May 27 as illustrated in Photograph 10. It is unclear why the water depth was observed to have increased during the May 10 survey period despite recording the other VPs decreased water depth. The previously inundated areas were covered by emergent wetland plant growth and saturated at the surface with no pooling during the June 18 survey.

VP5 was assigned a Tier I rating based on the observation of 25 or more wood frog egg masses, meeting the biological criteria. The pool is located within an undeveloped VPE and CTH meeting the Tier I criteria.

4.6 Vernal Pool 6

Vernal Pool 6 (VP6) is located north of Structures 251 and 1349 within wetland W36 (see Map Sheets 12 and 13 and Photographs 11 and 12). It extends west of the ROW and is between rock outcrops to the north and south. A residential property is located approximately 100 feet southeast of VP6. Within the ROW, the pool is vegetated with submerged emergent with shrub species along the pool perimeter including uptight sedge (*Carex stricta*), green arrow-arum (*Peltandra virginica*), common reed (*Phragmites australis*), narrow leaf cattail (*Typha angustifolia*), and coastal sweet pepperbush (*Clethra alnifolia*). The pool and wetland transition to forested habitat where they extend off-ROW.

Fairy shrimp and greater than 200 wood frog egg masses were observed within VP6.

During the March 25 survey, the pool was inundated with approximately 12 inches of water. Water was approximately 6 to 10 inches deep with well over 1,000 wood frog tadpoles during the May 10 and May 27 surveys. The tadpoles were observed along the northwest and southwest VP boundaries where pockets of open water were present. The wetland was saturated to the surface with no standing water during the June 18 survey.

VP6 was assigned a Tier I rating during the 2021 monitoring season due to the observation of two indicator species (wood frog and fairy shrimp) as well as abundance of egg masses, meeting the biological criteria. The pool is located an undeveloped VPE and more than 50% undeveloped CTH.

4.7 Study Period Weather

Several of the studied vernal pools appeared to be limited in their ability to provide amphibian breeding habitat during the 2021 survey season due to the loss of water volume in the spring. Rainfall conditions during the study period were drier than typical, but not extremely dry. Reported monthly rainfall for the period from March through May 2021 was below normal for that period with Fairfield County at 85% and New Haven County at 92% of normal precipitation for the three-month period of March to May 2021 (ct.gov/water/drought/drought-home). Conditions at the pools studied for this report are

expected to vary from year to year in response to variable and changing weather conditions.

SECTION 5

Section 5 Discussion

This section discusses potential impacts to vernal pools due to the Project construction and discusses avoidance and minimization measures incorporated into the Project design.

5.1 Potential Impacts to Vernal Pools

A total of six (6) vernal pools were identified within the Project Area. These vernal pools were found to support two vernal pool indicator species, wood frog and fairy shrimp, and three facultative species including spotted turtles, eastern newt, and four-toed salamander. Three pools (VP1, VP5, and VP6) are classified as Tier I due to the observation of 25 or more egg masses, and 75% or greater undeveloped VPE and/or 50% or greater undeveloped CTH. A fourth pool (VP4) was also classified as Tier I because it nearly met the 25 or more egg masses biologic criteria with 22 observed egg masses and also had an undeveloped VPE and CTH.

Two pools (VP2 and VP3) are classified as Tier II due to the observation of a low number of indicator species, while having an undeveloped VPE and CTH and observation of statelisted facultative species.

The Project does not propose any activities within vernal pool depressions and therefore avoids direct impacts to vernal pools. The principal construction activities that could affect vernal pools include:

- The construction of new or improved access roads within VPEs (i.e., within 100 feet of the vernal pool)
- The construction of work pads within VPEs
- The movement of vehicles and equipment through amphibian migratory routes
- The potential for erosion and sedimentation into vernal pools
- The destruction of fossorial habitat through soil compaction and grading

5.1.1 Vernal Pool 1

The Project includes improvement of an existing access road and installation of a temporary work pad within the VPE of VP1. The work pad within the VPE will be installed with temporary matting to minimize disturbance of the VPE. The existing structures within the VPE will be removed. Replacement structures will be constructed outside of the VPE.

5.1.2 Vernal Pool 2

The Project includes construction of two work pads and access within the VPE of VP2. Proposed activities within the VPE have been minimized to the greatest extent practicable through use of temporary matting where possible and minimization of the gravel work pad footprint where matting isn't feasible due to a rock outcropping. Replacement structures at this location will be installed further from VP2 and outside of W32.

5.1.3 Vernal Pool 3

The Project includes construction of a work pad and access within the VPE of VP3. Similar to VP2, proposed activities within the VPE of VP3 have been minimized to the greatest extent practicable through use of temporary matting where possible and minimization of

the gravel work pad footprint where matting isn't feasible due to a rock outcropping. The proposed structures have been designed to be further from VP3 than the existing structures.

5.1.4 Vernal Pool 4

The Project includes construction of a work pad within the VPE of VP4. Similar to VP2 and VP3, proposed activities within the VPE of VP4 have been minimized to the greatest extent practicable through use of temporary matting where possible and minimization of the gravel work pad footprint where matting isn't feasible due to a rock outcropping. The replacement structures were specifically designed to be closer to VP4 than VP3 to reduce the potential for erosion and downgradient sedimentation.

5.1.5 Vernal Pool 5

The Project avoids activities within the VPE and depression of VP5.

5.1.6 Vernal Pool 6

A temporary matted access road is proposed within the VPE of VP6. No permanent alteration within the VPE of VP6 is proposed.

5.2 Avoidance and Minimization Measures

The potential for adverse impacts on vernal pools may be minimized by implementing a variety of BMPs aimed at minimizing the effects of both permanent and temporary construction-related activities. The following types of measures may be considered to minimize potential impacts on vernal pools:

Construction Activities during Migration, Breeding & Larval Development Periods

Where feasible in areas proximate to vernal pools, avoid or minimize construction activities during periods of peak migration, breeding and larval development as described below for each indicator species:

Wood frog:

- Breeding and larval development period: from March through July.
- Migration period: migration into pools occurs predominantly between mid-March and mid-April.

For Project activities that must occur adjacent to vernal pools during amphibian migration periods, implement measures on a site-specific basis as necessary to facilitate unencumbered amphibian access to and from vernal pools, such as elevated construction matting. Mitigation measures will be identified after considering site-specific conditions, including the type of construction activity in proximity to a vernal pool, the amphibian species known to occur in the vernal pool, and seasonal conditions.

<u>Vegetation Clearing:</u>

Minimize the removal of low-growing vegetation surrounding vernal pools. If low
growing woody vegetation (shrubs) will be removed, the cut vegetation (slash)
should be left in place to provide cover and promote the development of coarse
woody debris and detritus.

- Where possible, the stumps of cut woody debris should be left in place to minimize soil disturbance.
- Woody shrub cover should remain intact to the maximum extent practicable.

Erosion and Sedimentation Controls

- Erosion control measures should be designed in a manner that allows unencumbered amphibian access to vernal pools and migratory pathways. Such measures may include but are not limited to; syncopated silt fencing and/or straw wattles in the immediate vicinity of vernal pools and aligning erosion and sedimentation controls to avoid bisecting vernal pool habitat.
- Install appropriate erosion and sediment controls around distinct work sites and access roads to minimize the potential for sediment deposition into vernal pools and remove such controls promptly after final site stabilization.
- Plastic netting used in a variety of erosion control products (i.e., erosion control blankets, fiber rolls [wattles], reinforced silt fence) has been found to entangle wildlife, including amphibians. No permanent erosion control products or reinforced silt fence should be used. Temporary erosion control products should be composed of processed fibers mechanically bound together to form a continuous matrix (netless) or netting composed of planar woven natural biodegradable fiber to avoid/minimize wildlife entanglement.

Access Roads and Work Pads

- Evaluate the use of temporary timber mat access roads in lieu of constructing gravel access roads to minimize the loss of vegetated areas within the VPE.
- Use bridging when installing timber mats to provide for access under timber mat roads.
- Minimize the removal of shrub cover associated with work pad and access road construction within 25 feet of vernal pools.
- Where feasible, remove new gravel fill associated with construction work pads and pull pads.

Prevention of Decoy Vernal Pools

- Permanent access road crossings should be constructed in a manner that wetland hydrology is maintained, and surface water impoundment does not occur.
- Access road grading or improvements necessary to accommodate project construction vehicles should eliminate any existing depressions or ruts that may be functioning as decoy vernal pools.
- Avoid siting temporary sediment traps near vernal pools as they may function as decoy pools.

SECTION 6

Section 6 References

Calhoun, A.J.K. and M.W. Klemens. 2002. *Best Development Practices: Conserving pool-breeding amphibians in residential and commercial developments in the northeastern United States.* MCA Technical Paper No. 5 Metropolitan Conservation Alliance, Wildlife Conservation Society, Bronx, New York. 57 p.

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Cowardin, L.M., V. Carter, F.C. Golet and E.T. LaRoe. 1979. *Classification of Wetlands and Deepwater Habitats of the United States.* U.S. Fish and Wildlife Service. FWS/OBS-79/31. Washington, D.C. 103 p.

APPENDIX A



Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 1 Date: 4/8/2021 Direction Taken: East

Description: View of VP1, a classic vernal pool.



Photograph No.: 2 Date: 5/27/2021 Direction Taken: South

Description: The pool area of VP1 shrunk to a shallow 3-foot by 4-foot area as observed on 5/27/2021.





Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 3 Date: 4/8/2021 Direction Taken: West

Description: No Wood Frog or Spotted Salamander egg masses were observed in VP2.



Photograph No.: 4 Date: 5/27/2021 Direction Taken: West

Description: The lowest observed water level of VP2 is shown, approximately 4 inches.





Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 5 Date: 4/2/2021 Direction Taken: West

Description: VP3 is a small pool along the edge of the ROW. Egg masses (red arrow) were observed within an open water area within the pool.



Photograph No.: 6 Date: 4/8/2021 Direction Taken: West

Description: Photo of a non-viable egg mass observed in VP3.





Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 7 Date: 4/8/2021 Direction Taken: East

Description: VP4 is located between rock outcrops and has an undeveloped VPE and CTH.



Photograph No.: 8 Date: 5/27/2021 Direction Taken: East

Description: The water depth of VP4 reduced consistently over the course of the study season and was approximately 3 inches deep during the May 27 observation.





Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 9 Date: 4/2/2021 Direction Taken: South

Description: VP5 contained emergent vegetation and areas of open water.



Photograph No.: 10 Date: 5/27/2021 Direction Taken: South

Description: The growth of emergent wetland vegetation reduced the open water area over the course of the spring 2021 observations.





Site: Stevenson to Pootatuck Rebuild Project Vernal Pool Report

Photograph No.: 11 | **Date:** 4/8/2021 | **Direction Taken:** East

Description: VP6 is a cryptic vernal pool with an undeveloped VPE and more than 50% undeveloped CTH. A residential property is visible in the background.

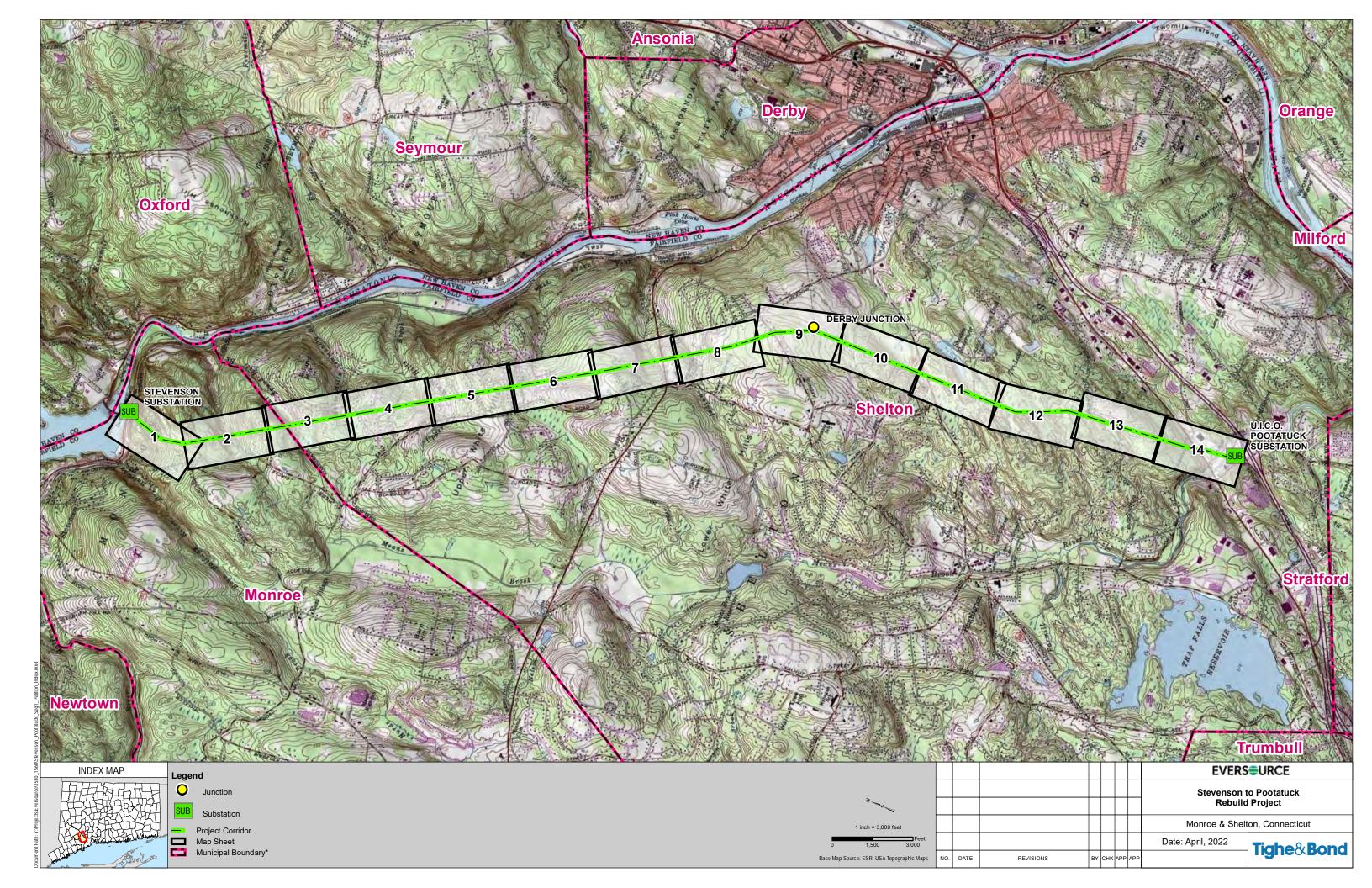


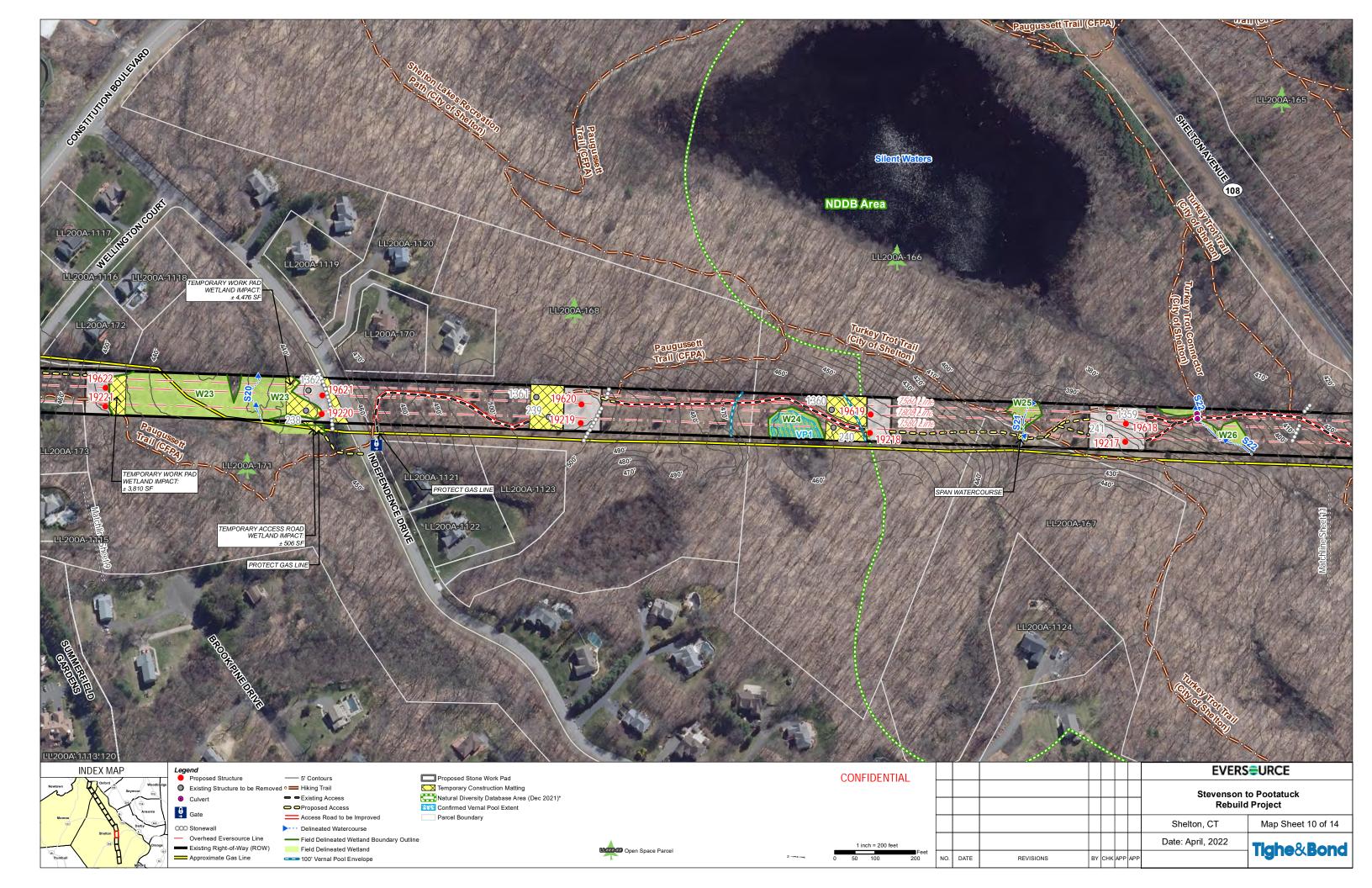
Photograph No.: 12 Date: 5/27/2021 Direction Taken: East

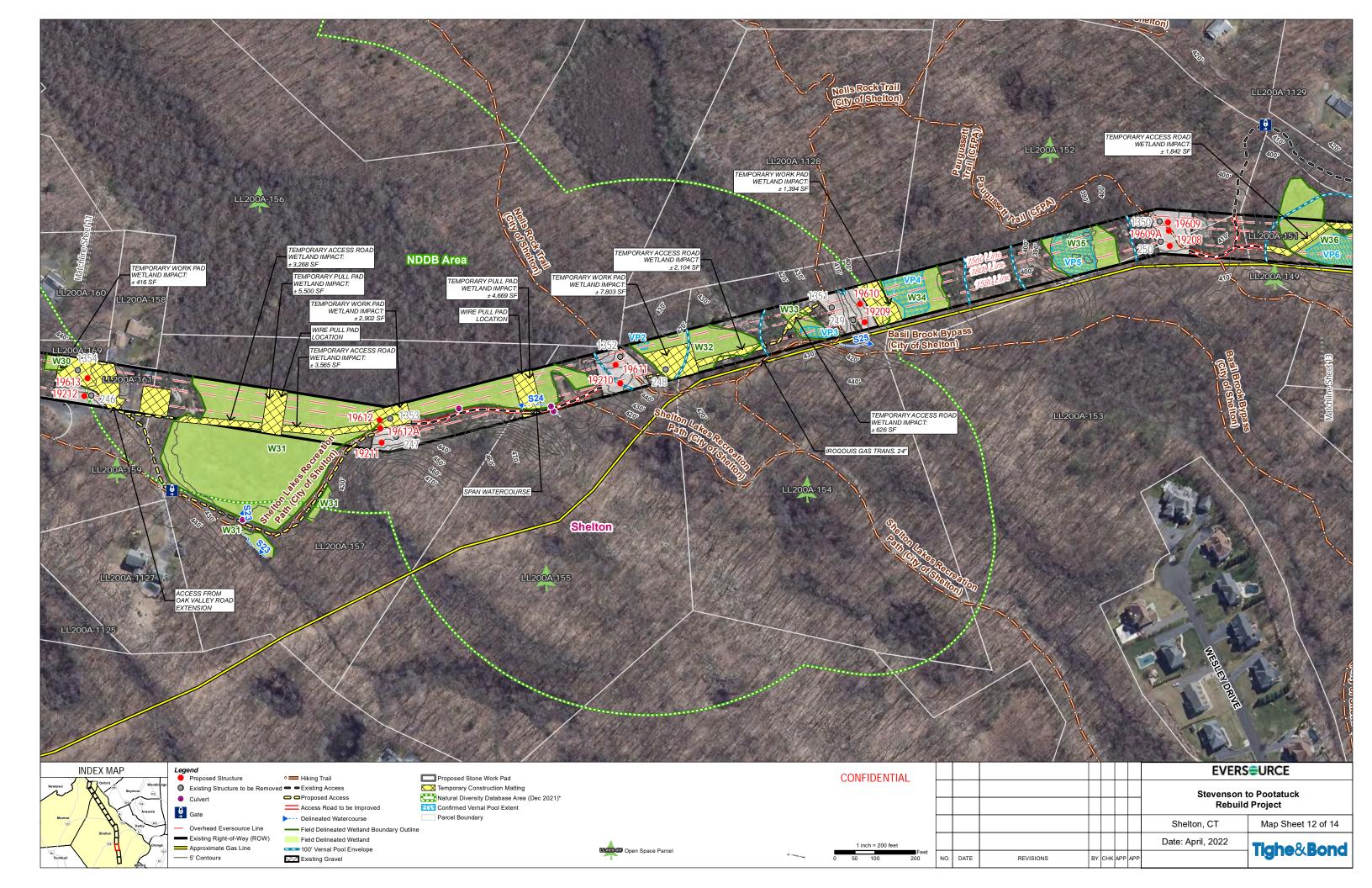
Description: Wood frog tadpoles were observed within areas of ponded water throughout VP6.



APPENDIX B



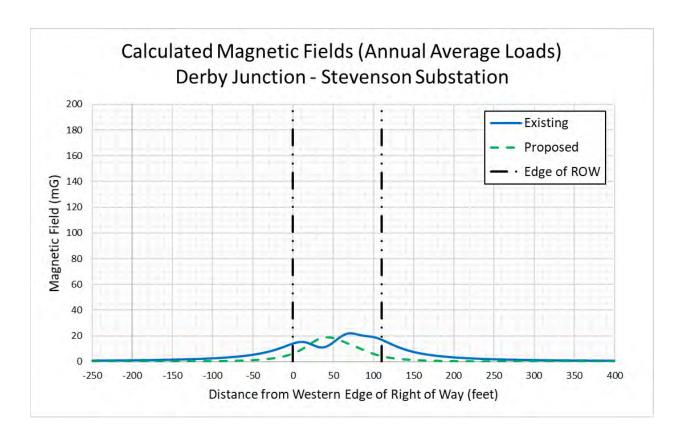


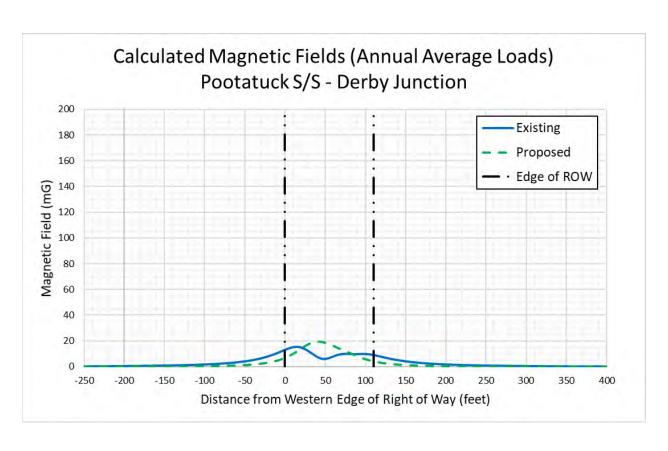


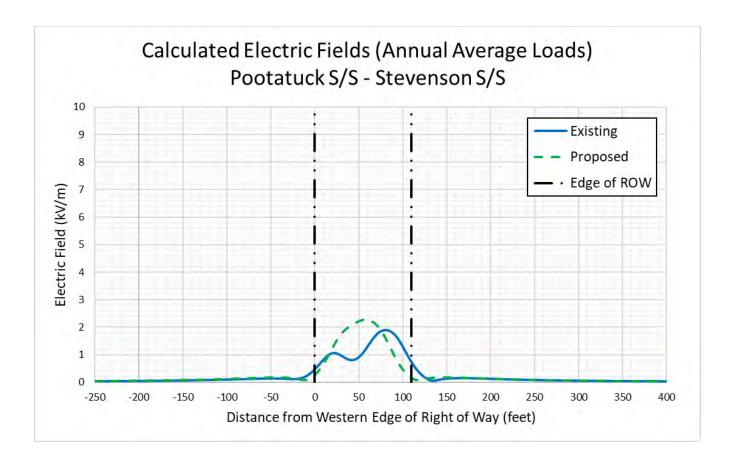


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Attachment F: EMF Graphs and Tables







CCC D. L'L'
CSC Petition
Attachment G: Letter to the Abutters and Affidavit



July 5, 2022

Dear Neighbor,

At Eversource, we're always working to serve you better. We are submitting a Petition to the Connecticut Siting Council (CSC) for a proposed electric reliability project in your area.

Proposed Project Information

The Project, called the Stevenson to Pootatuck Rebuild Project ("Project"), is designed to support the continued reliability of the transmission system in your region. The Project work would be located within the existing Eversource right-of-way (powerline corridor) on or near your property in the towns of Shelton and Monroe.

The proposed Project includes rebuilding approximately eight miles of the transmission line infrastructure between Stevenson Substation off Roosevelt Drive in Monroe and the United Illuminating-owned Pootatuck Substation off Old Stratford Road in Shelton. This work includes:

- Replace all existing structures with new steel monopoles, with a finish that weathers or darkens over time. The location and heights of the new structures will vary depending on location, topography, and other factors. In select areas, additional new monopole structures will be installed within the right-of-way to meet updated engineering and electric code standards.
- Replace the existing conductor (energized wires) with new, upgraded conductor of the same voltage (115-kV).
- Replace the shield wire (top-most wire) with Optical Ground Wire (OPGW). The new wire will improve electric reliability by enabling communications between substations.
- Remove select trees and vegetation within the right-of-way as needed for construction and to comply with electric safety standards.
- Build or improve gravel roads, work pads, and pull pads to provide access to structures and to create a safe and stable work area for equipment. Temporary construction matting will be used in some sensitive areas (e.g., wetlands).

What You Can Expect

Pending receipt of the necessary approvals for this proposed work, construction is expected to begin by the end of 2022.

Contact Information

Eversource is committed to being a good neighbor and doing our work with respect for you and your property. For more information please call our Projects Hotline at 1-800-793-2202 or send an email to ProjectInfo@eversource.com.

If you would like to send comments regarding Eversource's Petition to the CSC, please send them via email to siting.council@ct.gov or send a letter to the following address: Melanie Bachman, Executive Director, Connecticut Siting Council, Ten Franklin Square, New Britain, CT 06051.

Sincerely,

Devleena Ghosh-Brower

Project Manager - Eversource Energy

AFFIDAVIT OF SERVICE OF NOTICE

STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Sec. 16-50j-40 of the Regulations of Connecticut State Agencies ("RCSA") provides that proof of notice to the affected municipalities, property owners and abutters shall be submitted with a petition for declaratory ruling to the Connecticut Siting Council. In accordance with that RCSA section, I hereby certify that I caused notice of proposed modifications of The Connecticut Light and Power Company doing business as Eversource Energy to be served by mail upon the following municipal officials:

Municipal Officials

Honorable Kenneth M. Kellogg First Selectman Monroe Town Hall 7 Fan Hill Road Monroe, CT 06468 Honorable Mark A. Lauretti City of Shelton Mayor Shelton Town Hall 54 Hill Street Shelton CT, 06484

I also certify that I caused notice of the proposed modifications to be served by mail upon 157 owners of abutting properties shown on the maps in Attachment A to the Petition.

Helen Taylor
Project Siting Specialist

On this the <u>6th</u> day of July, 2022, before me, the undersigned representative, personally appeared, Helen Taylor, known to me (or satisfactorily proven) to be the person whose name is subscribed to the foregoing instrument and acknowledged that she executed the same for the purposes therein contained.

In witness whereof, I hereunto set my hand and official seal.

Officer of Superior Court Juris No. 413393

andw W. Lol