CLA Engineers, Inc.

Civil • Structural • Survey

317 MAIN STREET • NORWICH, CT 06360 • (860) 886-1966 • (860) 886-9165 FAX

January 16, 2019

Mr. Jeremey DeCarli
Planner
Inland Wetlands Agent
Town of East Hampton
20 East High Street
East Hampton, CT 06424

Re: WPCA backup generator sites
Pine Trail
East Hampton CT
CLA –6109

Dear Mr. DeCarli:

At the request of The East Hampton WPCA, CLA has investigated the referenced site for inland wetlands and watercourses. CLA performed the delineation in December of 2018. The plans prepared by CLA and submitted to the Town of East Hampton show the wetlands in relation to the proposed new generator and meters. All of the delineated resource area is wetlands that has been previously altered and impacted for development of the sewer line. This report documents the wetland types found and the potential for impacts. This letter also serves as the soil scientist's report and documents the soils found on the site and their characteristics.

Project Purpose and Need

The subject property is zoned as residential. The properties contains existing sewer lines. The applicant seeks to install a backup generator, controls and meters at this location without adverse impacts to wetlands and watercourses through use of Best Management Practices (BMPS).

Existing Conditions

The configuration of the site investigated is shown on the plans provided by CLA Engineers as part of the application to the IWWC. The site was previously developed and has an access drive and soils previously altered for sewer installation. The site locus is shown on the project plans and labeled "Pine Trail Pump Station" and is named after the local road.

The Pine Trail site activities will fall within the wetland, in an area that was previously filled for development of the sewer line. The hydrology of this location continues to support wetland soils; however it is maintained as a crushed stone access and lawn.

Surface water runoff from both site flows into Lake Pocotopaug after passing through vegetated wetland.

Wetlands were delineated with sequentially numbered pink flags, which were field located CLA Engineers. Wetland flag numbers locations and numbers are shown on the plans.

Surrounding land use at both sites is residential.

Soils

The NRCS soil series classifications for the sites and surrounding areas are shown in Appendix A. The upland on and around the site have soils that have been thoroughly reworked and are typically classified as Udorthents by the Natural Resources Conservation Series (NRCS). On-site soil testing was consistent with the filled and graded soils.

The on -site wetlands soils are Ridgebury, Leicester and Whitman series stony sandy loam, as determined in the field. This is consistent with the undisturbed upland soils, Canton and Charlton series, that are shown on the soil survey and found in proximity of the Pine Trail site.

Wetland Conditions

Based on field observations and map resources, the on-site wetlands were disturbed by past grading, apparently for construction of the sewer line. These wetlands perform a limited subset of functions that are typically attributed to Connecticut's wetlands. Observations relevant to functions and values of the wetlands include:

1. The wetlands are within an area of residential development.
2. No significant erosion was noted in or around the wetlands.
3. The wetlands receive storm water runoff from nearby development.
4. The wetlands lack typical wetland vegetation.
5. There is no undeveloped buffer around the wetlands.
6. The December 2018 CTDEEP Natural Diversity Database (NDDB) shows known presence of threatened, endangered or species of special concern.

Based on these observations, the on-site wetlands appear to provide limited functions including local wildlife habitat and buffering the lake. The NDDB data show known presence of protected species, however based on the limited scale of work and the disturbed nature of the site, CLA believes that there is minimal chance of impacts.

Potential for Impacts

The proposed project involves work within previously developed and/or altered land. The work does include direct wetland impacts at the Pine Trail site. Given the disturbed nature of the sites, there is little concern for loss of wetland function. The main concerns for potential impacts are sediments flowing offsite and into the lake during construction.

Appropriate E&S to protect offsite resources during construction are shown on the plans. If these are adhered to, CLA believes the potential for impacts lower in the watershed will be minimized.

Please contact me if you have any questions.

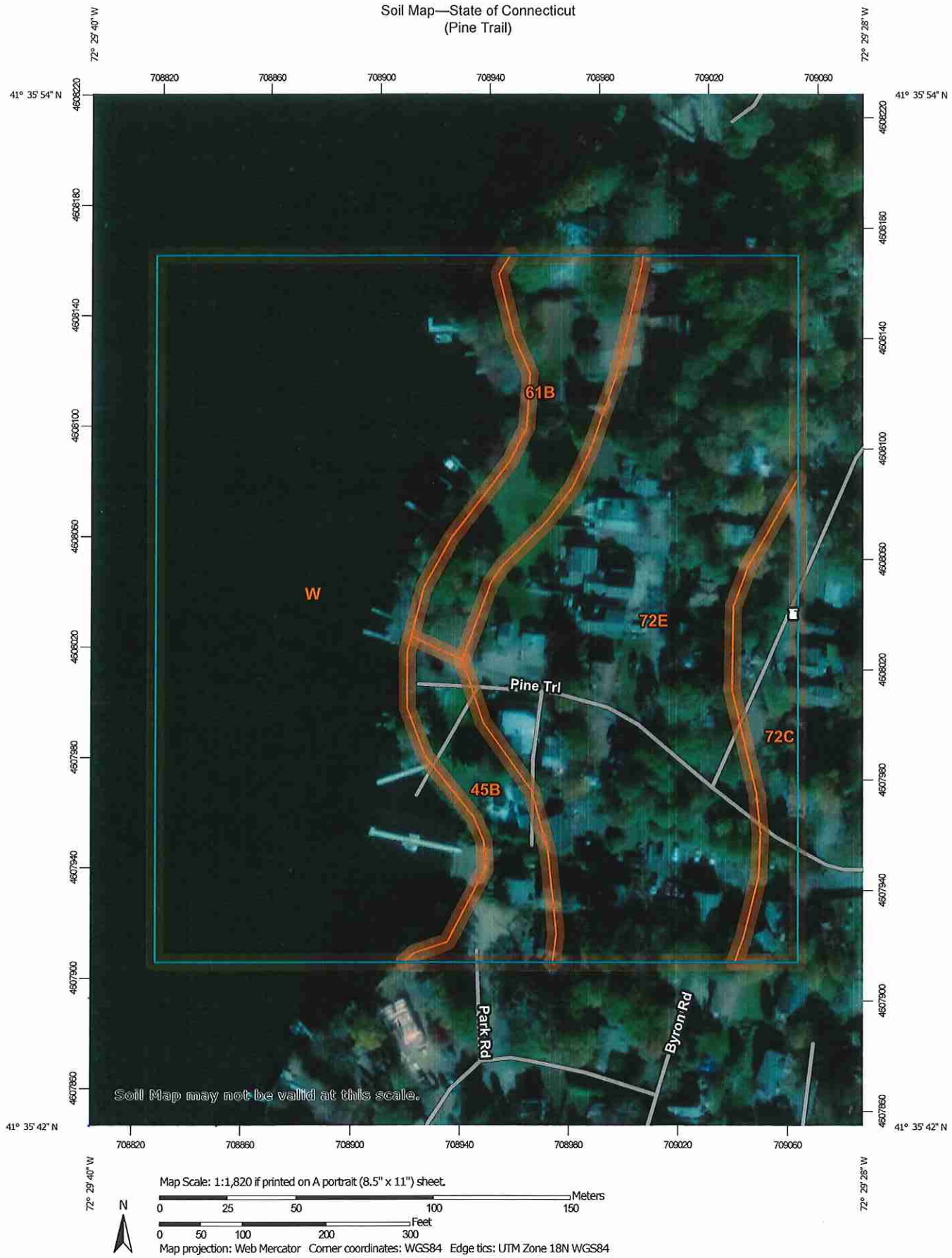
Sincerely,

R C Russo

Robert C. Russo, C.S.S.

Appendix A: Soils Data

Soil Map—State of Connecticut
(Pine Trail)



Map Scale: 1:1,820 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 18, Dec 6, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 27, 2016—Oct 30, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	0.8	5.4%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	1.1	7.5%
72C	Nipmuck-Brookfield complex, 3 to 15 percent slopes, very rocky	0.8	5.1%
72E	Nipmuck-Brookfield complex, 15 to 45 percent slopes, very rocky	5.0	33.6%
W	Water	7.2	48.4%
Totals for Area of Interest		**14.9**	**100.0%**