

November 4, 2019

WETLAND INSPECTION

APT Project No.: CT606110

Prepared For:

LSE Phoenix LLC

40 Tower Lane, Suite 201

Avon, CT 06001

Attn: Carrie Ortolano

Site Address:

100 Sand Road

North Canaan, Connecticut

Date(s) of Investigation:

10/23/2019

Field Conditions:

Weather: sunny, mid 60's

Soil Moisture: dry to moist

Wetland/Watercourse Delineation Methodology*:

☑Connecticut Inland Wetlands and Watercourses

☐ Connecticut Tidal Wetlands ☐ Massachusetts Wetlands

☐U.S. Army Corps of Engineers

Municipal Upland Review Area:

Wetlands: 100 feet Watercourses: 100 feet

The wetlands inspection was performed by :

Dean Gustafson, Senior Wetland Scientist

Enclosures: Wetland Delineation Field Form & Wetland Inspection Map

This report is provided as a brief summary of findings from APT's wetland investigation of the referenced Study Area that consists of proposed development activities and areas generally within 200 feet.[‡] If applicable, APT is available to provide a more comprehensive wetland impact analysis upon receipt of site plans depicting the proposed development activities and surveyed location of identified wetland and watercourse resources.

^{*} Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

[†] All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

[‡] APT has relied upon the accuracy of information provided by Lodestar Energy regarding proposed solar development area and access road/utility interconnection locations for identifying wetlands and watercourses within the study area.

Attachments

- Wetland Delineation Field Form
- Wetland Inspection Map

Wetland Delineation Field Form

| Wetland I.D.: | Wetland 1 | | | | |
|--|--|----------------------------------|--------|--|--|
| Flag #'s: | WF 1-01 to 1-17 (closed loop) and IWC 1 to 5 | | | | |
| Flag Location Method: | Site S | ketch 🗵 | GF | PS (sub-meter) located ⊠ | |
| WETLAND HYDROLO |)GY: | | , | | |
| | 701. | | | | |
| NONTIDAL 🗵 | | | | | |
| Intermittently Flooded □ | | Artificially Flooded | | Permanently Flooded □ | |
| Semipermanently Flooded □ | | Seasonally Flooded □ | | Temporarily Flooded □ | |
| Permanently Saturated □ | | Seasonally Saturated – seepage ⊠ | | Seasonally Saturated - perched \square | |
| Comments: Wetland 1: watercourse (no flows o | | | orthea | ast into narrow seasonal intermittent | |
| ΓIDAL □ | | | | | |
| Subtidal □ | | Regularly Flooded □ | | Irregularly Flooded □ | |
| Irregularly Flooded □ | | | | | |
| Comments: None | | | • | | |
| WETLAND TYPE: | | | | | |
| Estuarine \square | | Riverine | F | Palustrine 🖂 | |
| Lacustrine | | Marine | | _ | |
| Comments: None | | | | | |
| CLASS: | | | | | |
| Emergent ⊠ | | Scrub-shrub ⊠ | F | Forested \square | |
| Open Water □ | | Disturbed □ | | Wet Meadow □ | |
| Comments: None | | | | | |
| WATERCOURSE TYP | ·F• | | | | |
| Perennial | | | | | |
| | | Intermittent ⊠ | 1 | Γidal □ | |

Comments: Seasonal intermittent watercourse has 1-2-foot-wide, 1-foot deep loam/sand channel.

Wetland Delineation Field Form (Cont.)

| Vernal Pool Yes □ No ☒ Potential □ O | ther 🗆 | |
|---|--------|------|
| Vernal Pool Habitat Type: None | | |
| Comments: None | | |
| | | |
| SOILS: | | |
| Are field identified soils consistent with NRCS mapped soils? | Yes ⊠ | No □ |

DOMINANT PLANTS:

| Narrow-Leaf Cattail (Typha augustifolia) | Sensitive Fern (Onoclea sensibilis) |
|--|-------------------------------------|
| Boneset (Eupatorium perfoliatum) | Green Bulrush (Scirpus atrovirens) |
| Multiflora Rose* (Rosa multiflora) | Soft Rush (Juncus effuses) |
| Water Horsetail (Equisetum fluviatile) | |

^{*} denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. ("APT") understands that LSE Phoenix LLC is proposing to construct a solar generation facility at 100 Sand Road in North Canaan, CT. The property consists of a relatively large open maintained field centrally located on the subject parcel, surrounded by forested areas. An existing gravel drive provides access to the open field from Sand Road. One wetland area was identified along the northeast corner of the eastern portion of the open field.

Wetland 1 consists of a relatively small ($\pm 8,500$ sq. ft.) hillside seep wetland located in the central-east portion of the subject property in the northeast corner of the open field. This wetland has formed in poorly drained calcareous glacial till with dense subsoil; the dense subsoil has created a shallow perched seasonal high groundwater table. The wetland is located on a moderate slope that drains to the northeast with surface flows from the wetland discharging into a small seasonal intermittent watercourse. Although saturated soils within 12 inches of the surface were observed in Wetland 1, no flows were observed in the intermittent watercourse channel at the time of the inspection. It is anticipated that the intermittent watercourse only flows during the late winter/early spring months and following significant precipitation events. The intermittent watercourse flows onto the adjacent residential property, eventually entering into a northwest-to southeast-oriented narrow wetland corridor located ± 250 feet off the subject property from the far northeast property corner.



Wetland Inspection Map Solar Energy Facility 100 Sand Road, Parcel ID 07/111-0 North Canaan, CT





Site
Project Area

Approximate Parcel Boundary (CTDEEP)

• Watercourse (CTDEEP)

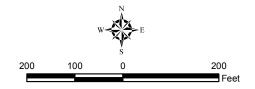
Wetland Flags (WF-1-01)

- Delineated Wetland Boundary Line

Delineated Wetland Area

Intermittent Watercourse Flag (IWC-1)

--- Intermittent Watercourse







Ortho Base Map: State of Connecticut 2016 aerial imagery with 0.5-foot ground resolution provided by CTECO Map Service

Wetlands Field Delineated by: Dean Gustafson, Professional Soil Scientist, APT; October 23, 2019

CTDEEP's data library (http://www.ct.gov/deep)
Data layers are maintained and updated by CTDEEP and represent
the most recent publications.

Map Date: November 2019