

February 24, 2025

APT Project No.: CT1051320

Prepared For: Crown Castle USA Inc.
2000 Corporate Drive
Canonsburg, PA 15317

Site Name: Ben Folds Five

Site Address: 70 Universal Drive, North Haven, Connecticut

Date of Investigation: 2/4/2025

Field Conditions: **Weather:** partly cloudy, low 40's
Soil Moisture: dry to moist

Wetland/Watercourse Delineation Methodology¹:

- Connecticut Inland Wetlands and Watercourses
 U.S. Army Corps of Engineers

Municipal Upland Review Area:

Wetlands: 50 feet
Watercourses: 50 feet

The wetlands inspection was performed by²:



Dean Gustafson, Professional Soil Scientist

Enclosures: Wetland Delineation Field Forms & 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.³ 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.

¹ Wetlands and watercourses were delineated in accordance with applicable local, state and federal statutes, regulations and guidance.

² All established wetlands boundary lines are subject to change until officially adopted by local, state, or federal regulatory agencies.

³ APT has relied upon the accuracy of information provided by Crown Castle USA Inc. and its contractors regarding proposed lease area and access road/utility easement locations for identifying wetlands and watercourses within the study area.

Attachments

- Wetland Delineation Field Forms
- Wetland Inspection Map

Wetland Delineation Field Form

Wetland I.D.:	Wetland 1	
Flag #'s:	WF 1-01 to 1-15 (closed loop)	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input checked="" type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated/seepage <input checked="" type="checkbox"/>	Seasonally Saturated/perched <input type="checkbox"/>
Comments: Wetland 1 consists of a small isolated and disturbed feature associated with a stormwater discharge point along Universal Drive.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: Primarily disturbed vegetation associated with historic disturbance and roadway maintenance with areas of forested cover in the southern extents.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	Elderberry (<i>Sambucus canadensis</i>)
Common Reed* (<i>Phragmites australis</i>)	Common Reed* (<i>Phragmites australis</i>)
Multiflora Rose* (<i>Rosa multiflora</i>)	Purple Loosestrife* (<i>Lythrum salicaria</i>)
Asiatic Bittersweet* (<i>Celastrus orbiculatus</i>)	Poison Ivy (<i>Toxicodendron radicans</i>)
Box Elder (<i>Acer negundo</i>)	Eastern Cottonwood (<i>Populus deltoides</i>)
Sumac (<i>Rhus</i> sp.)	

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

All-Points Technology Corp., P.C. ("APT") understands that Crown Castle proposes to install a telecommunications facility ("Facility") within the southern portion of a commercial retail developed property. The project area consists of maintained lawn located to the immediate south of a paved parking area. Two small, isolated wetlands were identified just south of the proposed Facility.

Wetland 1, located south and southeast of the proposed Facility development area consists of a seasonally saturated complex with a distinct slope break to the abutting upland landscape. A roadside culvert discharges flows into the wetland from the easterly abutting Universal Drive. Evidence of historic disturbance was observed within eastern portions of the wetland as evident by the dominance of invasive species including common reed, purple loosestrife, Asiatic bittersweet and multiflora rose. Southwestern extents of the complex were dominated by a red maple and cottonwood forested overstory. Wetland soils were found to contain evidence of historic disturbance including buried historic wetland soils which may indicate there was historically a connection to Wetland 2 and potentially a large wetland system both within and beyond the subject property.

Wetland Delineation Field Form

Wetland I.D.:	Wetland 2	
Flag #'s:	WF 2-01 to 2-09 (closed loop)	
Flag Location Method:	Site Sketch <input checked="" type="checkbox"/>	GPS (sub-meter) located <input checked="" type="checkbox"/>

WETLAND HYDROLOGY:

NONTIDAL

Intermittently Flooded <input type="checkbox"/>	Artificially Flooded <input type="checkbox"/>	Permanently Flooded <input type="checkbox"/>
Semipermanently Flooded <input type="checkbox"/>	Seasonally Flooded <input type="checkbox"/>	Temporarily Flooded <input type="checkbox"/>
Permanently Saturated <input type="checkbox"/>	Seasonally Saturated/seepage <input checked="" type="checkbox"/>	Seasonally Saturated/perched <input type="checkbox"/>
Comments: Wetland 2 consists of a small isolated wetland with a distinct slope break and interior seasonally saturated soils.		

TIDAL

Subtidal <input type="checkbox"/>	Regularly Flooded <input type="checkbox"/>	Irregularly Flooded <input type="checkbox"/>
Irregularly Flooded <input type="checkbox"/>		
Comments: None		

WETLAND TYPE:

SYSTEM:

Estuarine <input type="checkbox"/>	Riverine <input type="checkbox"/>	Palustrine <input checked="" type="checkbox"/>
Lacustrine <input type="checkbox"/>	Marine <input type="checkbox"/>	
Comments: None		

CLASS:

Emergent <input type="checkbox"/>	Scrub-shrub <input type="checkbox"/>	Forested <input checked="" type="checkbox"/>
Open Water <input type="checkbox"/>	Disturbed <input checked="" type="checkbox"/>	Wet Meadow <input type="checkbox"/>
Comments: A forested overstory comprised of red maple with inclusions of cottonwood; minimal vegetation is present within the delineated extent.		

WATERCOURSE TYPE:

Perennial <input type="checkbox"/>	Intermittent <input type="checkbox"/>	Tidal <input type="checkbox"/>
Watercourse Name: None		
Comments: None		

Wetland Delineation Field Form (Cont.)

SPECIAL AQUATIC HABITAT:

Vernal Pool Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential <input type="checkbox"/>	Other <input type="checkbox"/>
Vernal Pool Habitat Type: None	
Comments: None	

SOILS:

Are field identified soils consistent with NRCS mapped soils?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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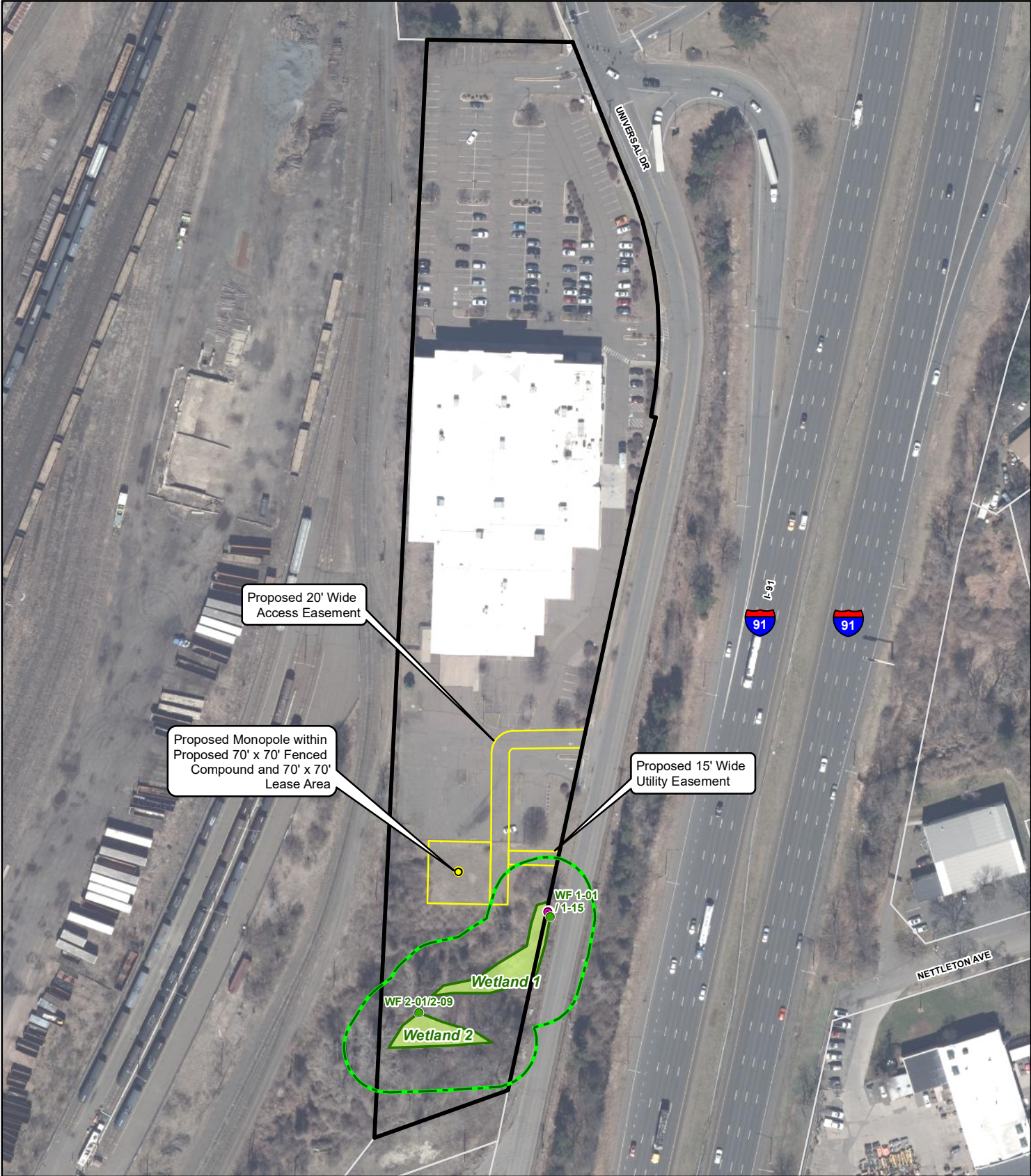
DOMINANT PLANTS:

Red Maple (<i>Acer rubrum</i>)	Fox Grape (<i>Vitis labrusca</i>)
Multiflora Rose* (<i>Rosa multiflora</i>)	Autumn Olive* (<i>Elaeagnus umbellata</i>)

* denotes Connecticut Invasive Species Council invasive plant species

GENERAL COMMENTS:

<p>Wetland 2 is located south of the proposed development and of Wetland 1. This isolated feature is distinguished from the surrounding upland landscape based on the steep slope break, water stained leaves and interior soils displaying strong poorly drained features including shallow fill over original wetland soil profiles. A red maple dominant overstory was present with autumn olive shrubs along the boundary along with multiflora rose and fox grape vines within the interior. Evidence of shallow inundation (e.g., less than 3 inches) was observed within the wetland which did not contain active hydrology at the time of inspection. This feature does not appear to support breeding of obligate vernal pool species due to the lack of supporting base hydrology to maintain inundation for the required length of development of these indicator species.</p>



Legend

- Proposed Monopole
- Proposed Site Layout
- 50' Upland Review
- Delineated Wetland Boundary
- Approximate Wetland
- Culvert
- Subject Property
- Approximate Parcel Boundary
- Municipal Boundary

Wetland Inspection Map
 Proposed Wireless
 Telecommunications Facility
 Ben Folds Five
 70 Universal Drive
 North Haven, Connecticut

Map Notes:
 Base Map Source: 2023 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 150 feet
 Map Date: February 2025

