

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		
Project Location (describe, and attach a general location map):		
Brief Description of Proposed Action (include purpose or need):		
Name of Applicant/Sponsor:		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Project Contact (if not same as sponsor; give name and title/role):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, or Village Board of Trustees <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input type="checkbox"/> No		
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
<p>i. Coastal Resources.</p> <p><i>i.</i> Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>ii.</i> Is the project site located in a community with an approved Local Waterfront Revitalization Program? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>iii.</i> Is the project site within a Coastal Erosion Hazard Area? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- **If Yes**, complete sections C, F and G.
- **If No**, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
If Yes, what is the zoning classification(s) including any applicable overlay district?

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? _____

b. What police or other public protection forces serve the project site?

c. Which fire protection and emergency medical services serve the project site?

d. What parks serve the project site?

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?

b. a. Total acreage of the site of the proposed action? _____ acres
b. Total acreage to be physically disturbed? _____ acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

c. Is the proposed action an expansion of an existing project or use? Yes No
i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? Yes No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? Yes No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes, Three (3) new structures include two (2) new Compressor Buildings, and one Local Equipment Room (LER) building.

i. Total number of structures _____

ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length (Compressor Bldg.)

iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No

If Yes,

i. Purpose of the impoundment: _____

ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____

iii. If other than water, identify the type of impounded/contained liquids and their source. _____

iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres

v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length

vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)

If Yes:

i. What is the purpose of the excavation or dredging? _____

ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?

- Volume (specify tons or cubic yards): _____
- Over what duration of time? _____

iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ acres

vi. What is the maximum area to be worked at any one time? _____ acres

vii. What would be the maximum depth of excavation or dredging? _____ feet

viii. Will the excavation require blasting? Yes No

ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No

If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No

If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No

If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____

- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or _____ acres (impervious surface)
 _____ Square feet or _____ acres (parcel size)
 ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

 • If to surface waters, identify receiving water bodies or wetlands: _____

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? ***Refer to Additional Information on Air Emissions which is included as Attachment 5.** Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) **Included in CO₂ emissions (see above)**
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

<p><i>i.</i> During Construction:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____ 	<p><i>ii.</i> During Operations:</p> <ul style="list-style-type: none"> • Monday - Friday: _____ • Saturday: _____ • Sunday: _____ • Holidays: _____
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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
Solid waste will continue to be managed at the facility in a similar fashion as under the current operations.
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: _____ tons per _____ (unit of time)
 • Operation : _____ tons per _____ (unit of time)
 ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____

 • Operation: _____

 iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____

 • Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:

b. Land uses and covertypes on the project site. Project Area is ~11.38 acres

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces			
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____ _____			

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:

- Dam height: _____ feet
- Dam length: _____ feet
- Surface area: _____ acres
- Volume impounded: _____ gallons OR acre-feet

ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No

- If yes, cite sources/documentation: _____

ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? <input type="checkbox"/> Yes <input type="checkbox"/> No <ul style="list-style-type: none"> • If yes, DEC site ID number: _____ • Describe the type of institutional control (e.g., deed restriction or easement): _____ • Describe any use limitations: _____ • Describe any engineering controls: _____ • Will the project affect the institutional or engineering controls in place? <input type="checkbox"/> Yes <input type="checkbox"/> No • Explain: _____ _____ _____ 												
E.2. Natural Resources On or Near Project Site												
a. What is the average depth to bedrock on the project site? _____ feet												
b. Are there bedrock outcroppings on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %												
c. Predominant soil type(s) present on project site: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; border-bottom: 1px solid black;">_____</td> <td style="width: 20%; border-bottom: 1px solid black;">_____</td> <td style="width: 20%; border-bottom: 1px solid black;">%</td> </tr> <tr> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">%</td> </tr> <tr> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">_____</td> <td style="border-bottom: 1px solid black;">%</td> </tr> </table>	_____	_____	%	_____	_____	%	_____	_____	%			
_____	_____	%										
_____	_____	%										
_____	_____	%										
d. What is the average depth to the water table on the project site? Average: _____ feet												
e. Drainage status of project site soils: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><input type="checkbox"/> Well Drained:</td> <td style="width: 30%; border-bottom: 1px solid black;">_____</td> <td style="width: 40%;">% of site</td> </tr> <tr> <td><input type="checkbox"/> Moderately Well Drained:</td> <td style="border-bottom: 1px solid black;">_____</td> <td>% of site</td> </tr> <tr> <td><input type="checkbox"/> Poorly Drained</td> <td style="border-bottom: 1px solid black;">_____</td> <td>% of site</td> </tr> </table>	<input type="checkbox"/> Well Drained:	_____	% of site	<input type="checkbox"/> Moderately Well Drained:	_____	% of site	<input type="checkbox"/> Poorly Drained	_____	% of site			
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<input type="checkbox"/> Poorly Drained	_____	% of site										
f. Approximate proportion of proposed action site with slopes: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><input type="checkbox"/> 0-10%:</td> <td style="width: 30%; border-bottom: 1px solid black;">_____</td> <td style="width: 40%;">% of site</td> </tr> <tr> <td><input type="checkbox"/> 10-15%:</td> <td style="border-bottom: 1px solid black;">_____</td> <td>% of site</td> </tr> <tr> <td><input type="checkbox"/> 15% or greater:</td> <td style="border-bottom: 1px solid black;">_____</td> <td>% of site</td> </tr> </table>	<input type="checkbox"/> 0-10%:	_____	% of site	<input type="checkbox"/> 10-15%:	_____	% of site	<input type="checkbox"/> 15% or greater:	_____	% of site			
<input type="checkbox"/> 0-10%:	_____	% of site										
<input type="checkbox"/> 10-15%:	_____	% of site										
<input type="checkbox"/> 15% or greater:	_____	% of site										
g. Are there any unique geologic features on the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, describe: _____ _____												
h. Surface water features. <ul style="list-style-type: none"> i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? <input type="checkbox"/> Yes <input type="checkbox"/> No ii. Do any wetlands or other waterbodies adjoin the project site? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i. <ul style="list-style-type: none"> iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? <input type="checkbox"/> Yes <input type="checkbox"/> No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">• Streams:</td> <td style="width: 40%;">Name _____</td> <td style="width: 50%;">Classification _____</td> </tr> <tr> <td>• Lakes or Ponds:</td> <td>Name _____</td> <td>Classification _____</td> </tr> <tr> <td>• Wetlands:</td> <td>Name _____</td> <td>Approximate Size _____</td> </tr> <tr> <td>• Wetland No. (if regulated by DEC)</td> <td colspan="2">_____</td> </tr> </table> 	• Streams:	Name _____	Classification _____	• Lakes or Ponds:	Name _____	Classification _____	• Wetlands:	Name _____	Approximate Size _____	• Wetland No. (if regulated by DEC)	_____	
• Streams:	Name _____	Classification _____										
• Lakes or Ponds:	Name _____	Classification _____										
• Wetlands:	Name _____	Approximate Size _____										
• Wetland No. (if regulated by DEC)	_____											
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, name of impaired water body/bodies and basis for listing as impaired: _____ _____												
i. Is the project site in a designated Floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No												
j. Is the project site in the 100-year Floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No												
k. Is the project site in the 500-year Floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No												
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <ul style="list-style-type: none"> i. Name of aquifer: _____ 												

<p>m. Identify the predominant wildlife species that occupy or use the project site: _____ _____ _____</p>	
<p>n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres</p>	
<p>o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ _____ _____</p>	
<p>p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____</p>	
<p>q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____</p>	
E.3. Designated Public Resources On or Near Project Site	
<p>a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: _____</p>	
<p>b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____</p>	
<p>c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____</p>	
<p>d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: _____ <i>ii.</i> Basis for designation: _____ <i>iii.</i> Designating agency and date: _____</p>	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input type="checkbox"/> Historic Building or District	
<i>ii.</i> Name: _____	
<i>iii.</i> Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input type="checkbox"/> Yes <input type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
If Yes:	
<i>i.</i> Describe possible resource(s): _____	
<i>ii.</i> Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Identify resource: _____	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____	
<i>iii.</i> Distance between project and resource: _____ miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Identify the name of the river and its designation: _____	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

*The following is attached to this Part 1 Full EAF: 1) Aquatic Resources Report, 2) Habitat Assessment Report, 3) OPRHP Documentation, 4) US Army Corps of Engineers No Permit Determination, and 5) Summary of Air Emissions.

F. Additional Information

Attach any additional information which may be needed to clarify your project.

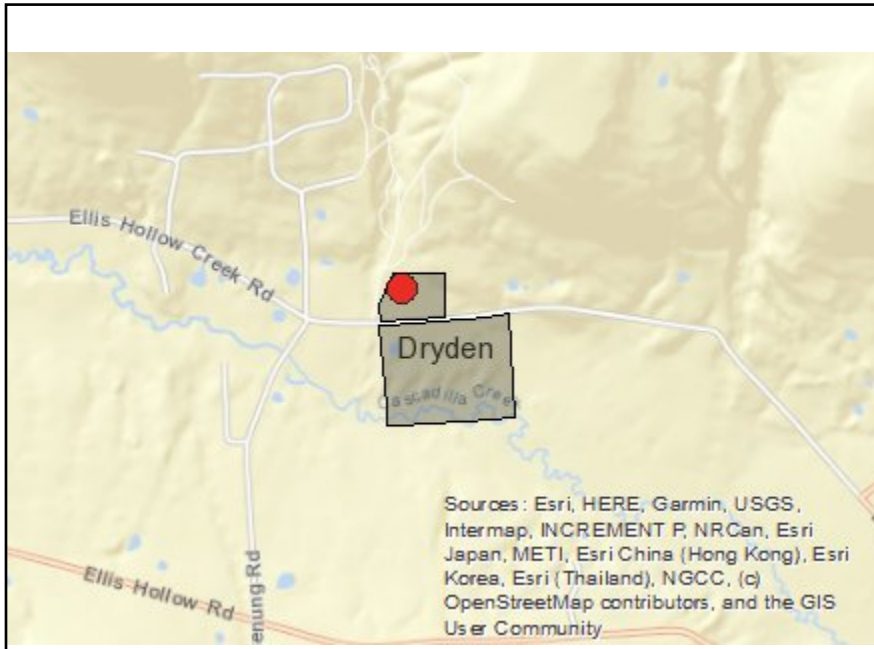
If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them. *There are no known adverse impacts associated with the proposed Borger Replacement Project which is considered to be an environmental improvement project owing to reduced air emissions.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name _____ Date _____

Signature  _____ Title _____



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	898-312
E.2.h.iv [Surface Water Features - Stream Classification]	C(T)
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters, NYS Wetland
E.2.h.iv [Surface Water Features - Wetlands Size]	NYS Wetland (in acres):318.6
E.2.h.iv [Surface Water Features - DEC Wetlands Number]	TA-10
E.2.h.v [Impaired Water Bodies]	No

E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Additional Information for Part 1 Full EAF

1. Aquatic Resources Report

Aquatic Resources Report

for the

Borger Replacement Project

Tompkins County, New York

March 2020

Prepared for:

Dominion Energy Transmission, Inc.

5000 Dominion Boulevard
Glen Allen, Virginia 23060

Prepared by:

Tetra Tech, Inc.

301 Ellicott Street
Buffalo, New York 14203

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	Figure 4 Aquatic Resources Delineated within the Borger Replacement Project Limit of Disturbance
Appendix B	Wetland Photolog
Appendix C	Wetland Data Forms

LIST OF ACRONYMS/ABBREVIATIONS

Acronym/Abbreviation	Definition
Borger Station	Borger Compression Station
DETI	Dominion Energy Transmission, Inc.
ESRI	Environmental Sciences Research Institute, Inc.
GIS	Geographic Information System
GPS	Global Positioning System
LOD	Limit of Disturbance
NRCS	Natural Resources Conservation Service
NWI	National Wetland Inventory
NYSDEC	New York State Department of Environmental Conservation
Project	Borger Replacement Project
Tetra Tech	Tetra Tech, Inc.
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

1.0 INTRODUCTION

Dominion Energy Transmission, Inc. (DETI), is proposing construct, maintain, and operate the Borger Replacement Project (Project) in Tompkins County, New York (Appendix A – Figure 1). The Project includes the replacement of two existing Dresser DC990 centrifugal compressor units (Borger Units 2 and 3) with two new Solar Centaur 50LS centrifugal compressor units (Borger Units 5 and 6) with oxidation catalysts at the Borger Compression Station (Borger Station). The construction workspace or limit of disturbance (LOD) will be entirely within DETI's existing property, within an 11.38-acre workspace. The 11.38-acre workspace or LOD will include laydown areas, parking, materials storage, and construction areas.

In support of DETI's filing the compressor unit replacement project with Federal Energy Regulatory Commission, Tetra Tech, Inc. (Tetra Tech) completed surveys to identify all streams and wetlands (aquatic resources) in the proposed 11.38-acre LOD. Full and complete surveys of the aquatic resources delineated within the LOD were completed in February 2020.

This *Aquatic Resource Report* provides a full description of the delineated aquatic resources identified within and contiguous to the Project LOD as it is currently proposed. Results of all field efforts conducted in the Project LOD for the Project are provided within this report.

Appendix A provides maps to aid review of the delineated resources, including a Project location map (Figure 1), a desktop survey data review (Figure 2), soils mapped within the Project LOD (Figure 3), and all delineated aquatic resources (Figure 4). Photographs of each of the delineated wetlands are provided in Appendix B; Appendix C provides data forms for the wetlands identified in the Project LOD.

2.0 METHODS

The aquatic resource delineation effort included both background research and an on-site field effort which occurred in early 2020. Tetra Tech delineated wetlands at the site previously in March 2014 in support of another project at Borger Station. The purpose of the recent field work was to update wetland and waterbody delineations in or in the immediate vicinity of the Project LOD. The methods and sources necessary for both survey components are described below.

A Tetra Tech biologist conducted desktop analysis of the proposed survey areas in February 2020 to identify potential wetlands and waterbodies within the Project LOD. The wetland delineation effort was conducted took place on February 25, 2020.

2.1 BACKGROUND RESEARCH

Prior to conducting fieldwork, Tetra Tech reviewed existing information for the Project LOD, including:

- Environmental Resource Mapper (New York State Department of Environmental Conservation [NYSDEC] 2020a)
- Environmental Assessment Form Mapper (NYSDEC 2020b)
- Previous delineations completed in the Project LOD (Tetra Tech 2014);
- Current aerial photographs/imagery;
- United States Geological Survey (USGS) topographic maps (USGS 2020);
- United States Department of Agriculture (USDA) – Natural Resources Conservation Service (NRCS) Web Soil Survey – soil survey maps, descriptions, and lists, to determine presence and extent of hydric and upland soils (USDA-NRCS 2020a);
- NYSDEC – Freshwater Wetland Maps and Water Quality Standards (NYSDEC 2020a); and,
- United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Wetlands Mapper – geospatial data available for the Project LOD (USFWS 2020).

2.2 ON-SITE DELINEATION

2.2.1 Wetlands

Wetland boundaries were delineated in the field using the Routine Onsite Determination Method, as described in the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual (USACE 1987), together with region-specific methods and guidelines provided in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (USACE 2012). In addition, the Routine Delineation Procedure, as described in the New York State Freshwater Wetlands Delineation Manual (Browne et al. 1995) was also considered when delineating areas mapped as NYSDEC freshwater wetlands. These methods incorporate a three-parameter approach using vegetation, soils, and hydrology to identify the presence of freshwater wetlands. The presence of a wetland was field verified by analyzing dominant vegetation, soil classification, and hydrology at one sample station within each mapped wetland. Under the New York State method, the presence of hydrophytic vegetation characteristics (i.e., greater than 50 percent facultative or wetter species, 10 percent or greater areal cover of obligate perennial species, morphological adaptations, or expanses of peat mosses over persistently saturated soils) typically indicates a wetland and an area that exhibits these indicators generally can be considered a wetland without detailed examination of hydrology and/or soils.

Dominant vegetation in each stratum (tree, shrub, herbaceous, and vine) was identified using appropriate regional field guides and assigned a wetland indicator status obtained from USACE (2016). Cover classes for wetlands were based on the NWI classification hierarchy (Cowardin et al. 1979). Cover classes were assigned by determining the most abundant cover class in the wetland. A wetland was assigned multiple cover classes if more than one class comprised at least 30 percent areal coverage. Soil borings were obtained by using a hand held auger, and were extracted to a depth of 20 inches, when possible. Soil characteristics were recorded in standard soil log format and soil colors were determined by using a Munsell Soil Color Chart (Kollmorgen Corporation 2000). Primary (e.g. surface water, high water table, saturation, and water-stained leaves), and secondary wetland hydrology indicators (e.g. drainage patterns, geomorphic position, microtopographic relief) were also visually assessed and recorded.

All areas found to meet wetland criteria were assigned a letter and number code based on their order of identification across the Project LOD. Delineated wetlands were classified according to the USFWS classification system for wetlands and deepwater habitats of the United States (Cowardin et al. 1979). Wetland boundaries were also flagged and marked in the field, and each wetland area was photographed.

2.2.2 Streams

During the field investigation, a qualified biologist examined the entire Project LOD for mapped and unmapped waterbodies, including any perennial, intermittent, or ephemeral streams or ponds. Data recorded included stream name, associated wetlands, flow regime (perennial, intermittent, or ephemeral), direction of flow, water width, bank-to-bank width, bank height and slope, water depth, bottom and bank substrates, observed water quality, channel meander, and adjacent vegetation type. If any human use of the waterbody was observed such as drinking water or human recreation uses (including swimming, boating, or fishing), that was also recorded. In addition, indicators of aquatic habitat, wildlife use, and soil erosion potential were recorded.

2.3 GPS MAPPING

Wetland and waterbody boundaries/alignments were flagged at regular intervals often enough to accurately represent the boundary between the aquatic resource and the adjacent upland. Flag points were then land surveyed using a Trimble, Inc. (Sunnyvale, CA) Geo XH Global Positioning System (GPS). Each flag was marked with an identification code and numbered consecutively to facilitate the desktop mapping process. Flag points were located in accordance with Trimble, Inc. sub-meter accuracy standards. All data was recorded in the World Geodetic System 84 coordinate zone and then projected into State Plane New York Central using ArcGIS.

Attribute data for all flag points was recorded including the following information:

- Unique number or name;
- North American Datum 1983 Universal Transverse Mercator coordinate;
- Date;
- Time;
- Number of positions recorded;
- Max value position dilution of precision; and
- Horizontal accuracy (in meters)

GPS data were differentially corrected using Pathfinder Office 5.60 software (Trimble Inc.) and commercial base station control points. Corrected flag points were then imported into ArcView 10.2 (Environmental Sciences Research Institute, Inc. [ESRI]; Redlands, California) Geographic Information System (GIS) mapping software where points were connected in consecutive order and according to surveyor notes. Wetland boundaries were left “open” when the wetland extended beyond the Project LOD boundaries and were “closed” when contained entirely within the Project LOD. Stream alignments were connected in a similar manner and designated as “line” data. A geo-referenced wetland delineation boundary suitable for overlay onto themed base layers was created using ArcView 10.2 GIS software.

3.0 RESULTS

3.1 BACKGROUND DATA REVIEW

3.1.1 General Area Description

The Project LOD is located within the Seneca (Hydrologic Unit Code 04140201) watershed (USGS 2019). Land use within the survey boundary primarily consists of maintained lawns and industrial space given the presence of existing gas infrastructure but also includes plots of deciduous forests within and surrounding the LOD. Figures 2, 3, and 4 in Appendix A provide aerial photographs of the Project LOD.

3.1.2 Mapped Soils

According to the NRCS Soil Survey for Tompkins County, New York (USDA-NRCS 2020b), four (4) mapped soil series are mapped within the Project LOD (Appendix A, Figure 3). The soils are Alluvial land and hydric; Bath and Valois soils, 15 to 25 percent slopes, eroded and non-hydric; Chenango gravelly loam, 0 to 5 percent slopes and non-hydric; and Chenango gravelly loam, fan, 0 to 8 percent slopes and non-hydric.

3.1.3 Mapped Wetlands

USFWS NWI and USGS flowline data was available for the Project LOD and surrounding area. NWI features and NHD flowlines are not present within the Project LOD.

Based on a review of the NYSDEC Freshwater Wetlands Maps, no freshwater wetlands were identified within the Project LOD (NYSDEC 2020a).

3.1.4 Mapped Waterbodies

The USGS 7.5-minute series topographic quadrangle map does not depict any stream features intersecting the Project LOD.

3.2 ONSITE INVESTIGATION

3.2.1 Wetlands

One (1) wetland was determined to meet the USACE criteria for wetland identification, partially within the Project LOD, during the field survey. It is classified as palustrine emergent. The geometry and alignment of the wetland is provided in Figure 4 of Appendix A. Photographs of the wetland is provided in Appendix B, and USACE data forms for the wetland is provided in Appendix C. The description below summarizes the observed characteristics in the identified and delineated wetland.

Wetland W1

Wetland W1 is a palustrine emergent wetland. This wetland is within the mowed and maintained industrial land/buffer outside of the existing Borger Station fence line. Wetland hydrology primary indicators include surface water (A1), high water table (A2), saturation (A3), and oxidized rhizospheres on living roots (C3). Secondary wetland hydrology indicators include drainage patterns (B10) and the FAC-Neutral Test (D5). The hydric vegetation indicators for wetland W1 include the rapid test, dominance test, and prevalence index. These tests imply that hydric vegetation is present within the wetland. The hydric soil indicator consists of a depleted matrix (F3) with oxidized rhizospheres. Appendix B contains the photographs for wetland W1 and Appendix C contains the data form for Wetland W1.

3.2.2 Waterbodies

No waterbodies were identified in the Project LOD during the field survey.

4.0 SUMMARY

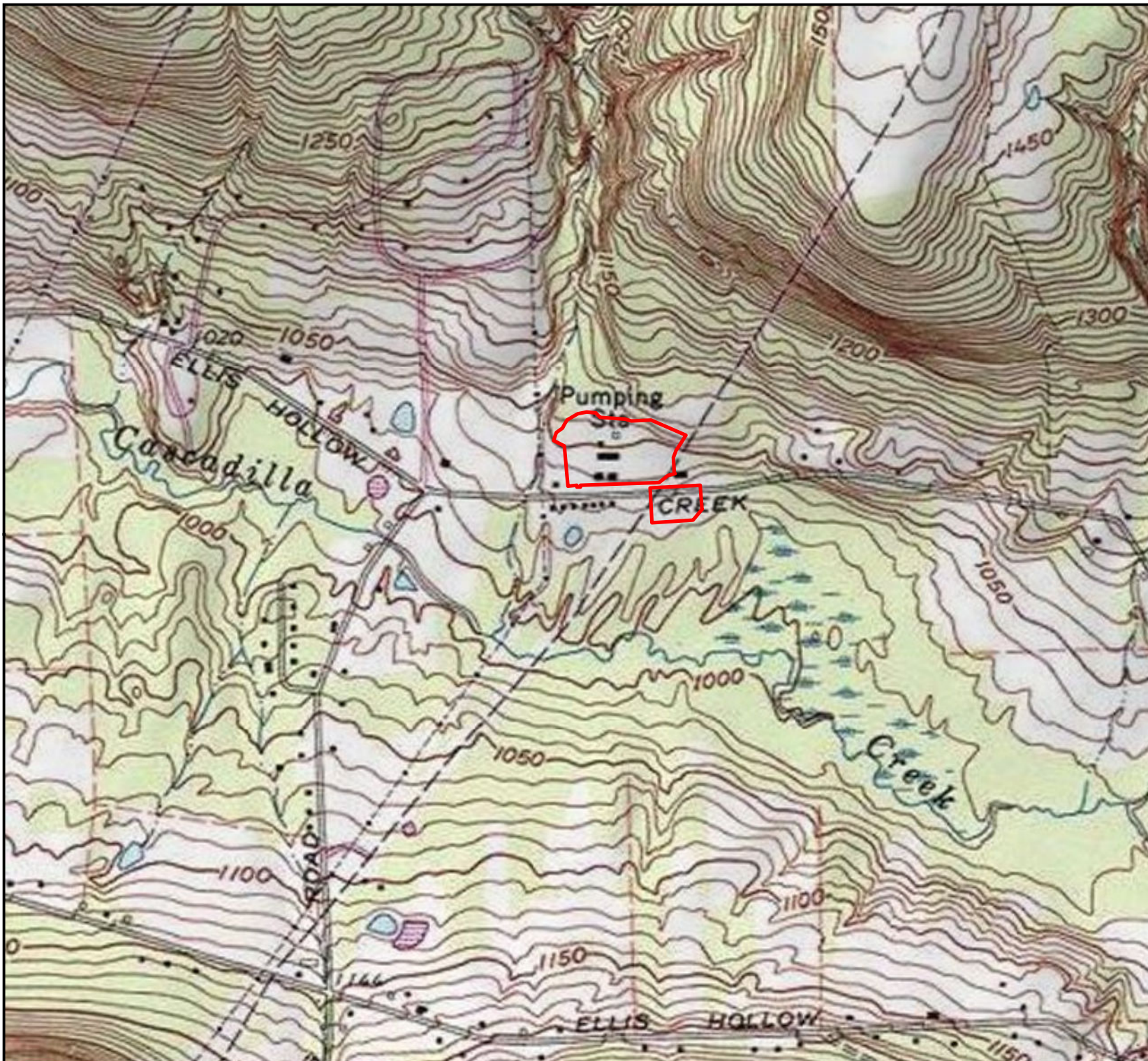
In February 2020, Tetra Tech performed aquatic resource investigation within the survey boundary in support of the proposed Borger Replacement Project in Tompkins County, New York (Appendix A, Figure 1). The survey encompassed approximately 11.38 acre Project LOD. The field surveys identified one (1) wetland within the Project LOD. This report summarizes the pre-field and field survey effort, detailing the methods for desktop and field delineation in Section 2.0, and the results of the efforts in Section 3.0. Appendix A provides mapping for the Project, photographs of the two delineated wetlands are provided in Appendix B and wetland data forms are provided in Appendix C.

This baseline, existing environment data will be a valuable resource in Project planning in regard to aquatic resource protection and impact avoidance and minimization. In addition, this information will assist DETI with the identification of required authorizations and permits for unavoidable impacts. Final impacts to any of these resources will be quantified and presented in the appropriate permit applications, if any are required.

5.0 REFERENCES

- Browne, Steve, Scott Latham, Diane Goetke, Nancy Heaslip, Ted Kerpez, Ken Kogut, Steve Sanford, Dan Spada 1995. New York State Freshwater Wetlands Delineation Manual. Available at: http://www.dec.ny.gov/docs/wildlife_pdf/wdelman.pdf. Accessed March 5, 2020.
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**APPENDIX A
FIGURES**



Legend

- Borger Replacement Project
- Limit of Disturbance

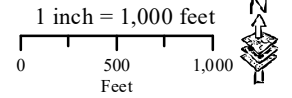


Figure 1.

USGS Site Map of the
Borger Replacement Project

Tompkins County, New York
March 2020

SHEET 1 of 1

Prepared By: **TETRA TECH**

Prepared For: **Dominion Energy**

Source: Aerials and Roads from ESRI available online.



- Legend**
- Borger Replacement
 - Project Limit of Disturbance
 - USFWS National Wetland Inventory (NWI)
 - NYSDEC Freshwater Wetland (FWW)
 - National Hydrography Dataset (NHD)

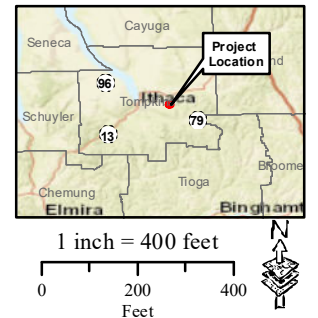


Figure 2.
 Mapped NWI Features,
 NHD Flowlines, and
 NYSDEC Freshwater Wetlands

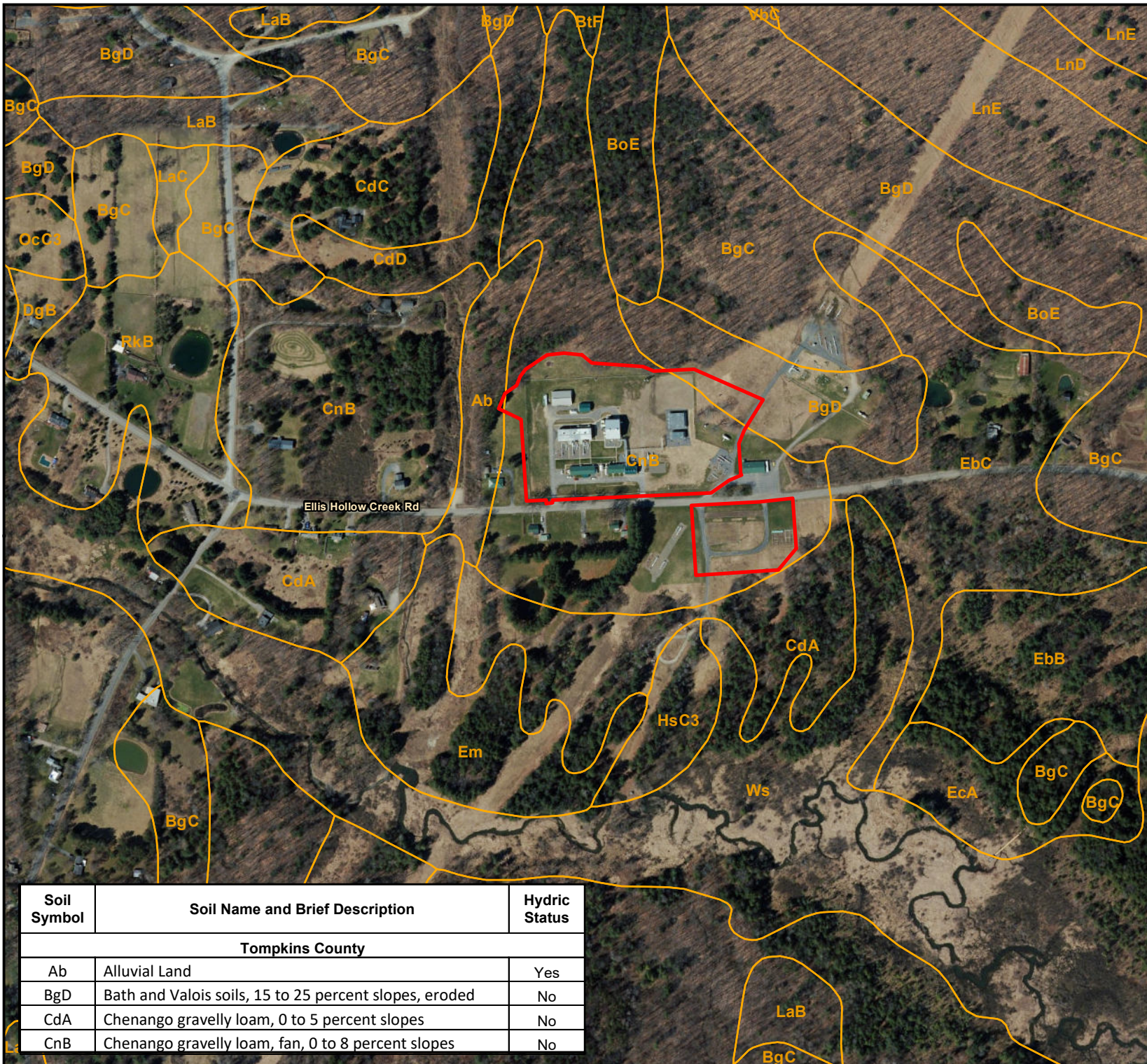
Tompkins County, New York
 March 2020

SHEET 1 of 1

Prepared By: **TETRA TECH**

Prepared For: **Dominion Energy Transmission, Inc.**

Source: Aerials and Roads from ESRI available online.



- Legend**
- Borger Replacement Project Limit of Disturbance
 - Soils



Figure 3.

Soils Mapped within the Borger Replacement Project Limit of Disturbance

Tompkins County, New York
March 2020

SHEET 1 of 1

Prepared By: **TETRA TECH**

Prepared For: **Dominion Energy**

Source: Aerials and Roads from ESRI available online.
Soils - NRCS/USDA, Version 8 Sept 2015

Soil Symbol	Soil Name and Brief Description	Hydic Status
Tompkins County		
Ab	Alluvial Land	Yes
BgD	Bath and Valois soils, 15 to 25 percent slopes, eroded	No
CdA	Chenango gravelly loam, 0 to 5 percent slopes	No
CnB	Chenango gravelly loam, fan, 0 to 8 percent slopes	No



- Legend**
- Borger Replacement
 - Project Limit of Disturbance
 - PEM Wetland

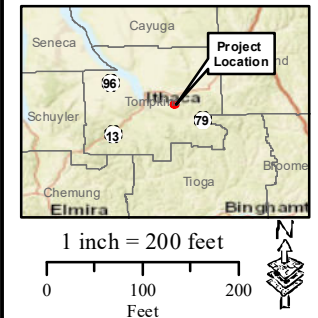


Figure 4.
 Aquatic Resources Delineated within the Borger Replacement Project Limit of Disturbance

Tompkins County, New York
 March 2020

SHEET 1 of 1

Prepared By:  **TETRA TECH**

Prepared For:  **Dominion Energy Transmission, Inc.**

Source: Aerials and Roads from ESRI available online.

**APPENDIX B
WETLAND PHOTOLOG**

WETLAND PHOTOGRAPHIC LOG

Company: Dominion Energy Transmission, Inc.
Project: Borger Replacement Project



Photographer: M. Benjovsky
Date: 02/25/2020
Direction: Northeast
Photo No.: 1
Comments:

Wetland W1 – wetland sampling point



Photographer: M. Benjovsky
Date: 02/25/2020
Direction: Northwest
Photo No.: 2
Comments:

Wetland W1 – upland sampling point

**APPENDIX C
WETLAND DATA FORMS**

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Borger City/County: Dryden, Tompkins Sampling Date: 2/25/2020
 Applicant/Owner: Dominion Energy Transfer, Inc. State: NY Sampling Point: W1-Wet
 Investigator(s): A. Sorci & M. Benjovsky Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR or MLRA): LRR:R, MLRA:14 Lat: 42.439844 Long: -76.406920 Datum: WGS84
 Soil Map Unit Name: Chenango gravelly loam, fan, 0 to 8 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>W1</u>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

Emergent wetland, fed by off-site (outside of LOD) stream to north. No streams outfall from the wetland. Located in mowed and maintained vegetated buffer outside of existing facility fence line.

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	_____ Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
_____ Water-Stained Leaves (B9)	_____ Moss Trim Lines (B16)
<input checked="" type="checkbox"/> High Water Table (A2)	_____ Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Saturation (A3)	_____ Crayfish Burrows (C8)
_____ Water Marks (B1)	_____ Saturation Visible on Aerial Imagery (C9)
_____ Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
_____ Drift Deposits (B3)	_____ Presence of Reduced Iron (C4)
_____ Algal Mat or Crust (B4)	_____ Recent Iron Reduction in Tilled Soils (C6)
_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)
_____ Sparsely Vegetated Concave Surface (B8)	_____ Microtopographic Relief (D4)
	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0-1</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
--	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W1-Wet

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
_____ = Total Cover				Prevalence Index worksheet: _____ Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
_____ = Total Cover				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
<u>Herb Stratum</u> (Plot size: <u>5ft</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Carex sp.*</u>	<u>50</u>	_____	<u>-</u>		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 height.
2. <u>Carex sp.*</u>	<u>20</u>	_____	<u>-</u>		
3. <u>Lysimachia nummularia</u>	<u>5</u>	_____	<u>FACW</u>		
4. <u>Ludwigia palustris</u>	<u>10</u>	_____	<u>OBL</u>		
5. <u>Unk. grass*</u>	<u>25</u>	_____	<u>-</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
<u>110</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
_____ = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.) *Unable to identify sedge and grass to species due to mowing, lack of new growth, and time of year.					

SOIL

Sampling Point: W1-Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10 YR 4/1	90	10 YR 4/6	1 0	C	M/PL	loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- 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 _____

Remarks:
 Oxidized rhizospheres

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Borger City/County: Dryden, Tompkins Sampling Date: 2/25/2020
 Applicant/Owner: Dominion Energy Transfer, Inc. State: NY Sampling Point: W1-Up
 Investigator(s): A. Sorci & M. Benjovsky Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 5
 Subregion (LRR or MLRA): LRR:R, MLRA:14 Lat: 42.439846 Long: -76.407011 Datum: WGS84
 Soil Map Unit Name: Chenango gravelly loam, fan, 0 to 8 percent slopes NWI classification: n/a

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation , Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Mowed and maintained vegetated buffer outside of existing facility fence line.	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: W1-Up

	Absolute % Cover	Dominant Species?	Indicator Status															
Tree Stratum (Plot size: <u>30ft</u>)																		
1. <u>Acer saccharum</u>	<u>40</u>	<u>X</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)														
2. <u>Quercus rubra</u>	<u>70</u>	<u>X</u>	<u>FACU</u>															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
	<u>110</u>	= Total Cover		Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:right;">Total % Cover of:</td> <td style="width:50%; text-align:left;">Multiply by:</td> </tr> <tr> <td>OBL species <u>2</u></td> <td>x 1 = <u>2</u></td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species <u>145</u></td> <td>x 4 = <u>580</u></td> </tr> <tr> <td>UPL species <u>3</u></td> <td>x 5 = <u>15</u></td> </tr> <tr> <td>Column Totals: <u>150</u> (A)</td> <td><u>597</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.98</u>	Total % Cover of:	Multiply by:	OBL species <u>2</u>	x 1 = <u>2</u>	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species <u>145</u>	x 4 = <u>580</u>	UPL species <u>3</u>	x 5 = <u>15</u>	Column Totals: <u>150</u> (A)	<u>597</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>2</u>	x 1 = <u>2</u>																	
FACW species _____	x 2 = _____																	
FAC species _____	x 3 = _____																	
FACU species <u>145</u>	x 4 = <u>580</u>																	
UPL species <u>3</u>	x 5 = <u>15</u>																	
Column Totals: <u>150</u> (A)	<u>597</u> (B)																	
Sapling/Shrub Stratum (Plot size: <u>15ft</u>)																		
1. <u>Rosa multiflora</u>	<u>15</u>	<u>X</u>	<u>FACU</u>															
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
	<u>15</u>	= Total Cover																
Herb Stratum (Plot size: _____)																		
1. <u>Plantago lanceolata</u>	<u>10</u>		<u>FACU</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)														
2. <u>Trifolium sp.*</u>	<u>10</u>		<u>FACU</u>															
3. <u>Fragaria vesca</u>	<u>3</u>		<u>UPL</u>															
4. <u>Ludwigia palustris</u>	<u>2</u>		<u>OBL</u>															
5. <u>Unk. grass*</u>	<u>60</u>		<u>-</u>															
6. <u>Mentha sp.*</u>	<u>3</u>		<u>-</u>															
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
12. _____																		
	<u>88</u>	= Total Cover																
Woody Vine Stratum (Plot size: _____)																		
1. _____				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 height.														
2. _____																		
3. _____																		
4. _____																		
				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>														

Remarks: (Include photo numbers here or on a separate sheet.)

*Unable to identify grass to species due to mowing, lack of new growth, and time of year.

SOIL

Sampling Point: W1-Up

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10 YR 3/2	100					sandy loa	
10-18	10 YR 5/4	100					loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR R, MLRA 149B)

- Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- Thin Dark Surface (S9) (LRR R, MLRA 149B)
- Loamy Mucky Mineral (F1) (LRR K, L)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- 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 X _____

Remarks:

Additional Information for Part 1 Full EAF
2. Habitat Assessment Report

MEMO

To: David Stilwell, Project Leader, United States Fish and Wildlife Service

From: Peggy Grant, Environmental Project Manager

Cc: Frank Canneto, Environmental Consultant, Dominion Energy Services, Inc.
John H. Curry, Senior Project Engineer, Dominion Energy Services, Inc.

Date: March 27, 2020

Subject: Habitat Assessment and Preliminary Impact Determination for the Borger Replacement Project

This Technical Memorandum summarizes the results of the Habitat Assessment completed by Tetra Tech, Inc., (Tetra Tech) to support the Borger Replacement Project (Project), proposed by Dominion Energy Transmission, Inc. (DETI). The Project includes the replacement of two existing Dresser DC990 centrifugal compressor units (Borger Units 2 and 3) with two new Solar Centaur 50LS centrifugal compressor units (Borger Units 5 and 6) with oxidation catalysts at the Borger Compression Station (Borger Station). The construction workspace or limit of disturbance (LOD) will be entirely within DETI's existing property, within an 11.38-acre area. The 11.38-acre LOD will include laydown areas, parking, materials storage, and construction areas.

1.0 INTRODUCTION

Tetra Tech was contracted by DETI to conduct the habitat assessment for the Project located in Tompkins County, New York (NY) along Ellis Hollow Creek Road (Attachment 1, Figure 1). The assessment included: in-field review of habitat and its potential to be used by federally- or state- listed threatened and endangered (T&E) species within the Project LOD; and a preliminary effect determination for each species based on the official species list generated using the United States (U.S.) Fish and Wildlife Service (USFWS) *Information for Planning and Consultation* (IPaC) website (USFWS 2020). To confirm the most current New York Natural Heritage Program (NSNHP) records are used, DETI has separately submitted a request to the New York State Department of Environmental Conservation (NYSDEC) – Information Services for records of rare, threatened, and endangered or significant natural communities within the Project LOD.

The survey area for this habitat assessment and preliminary impact determination memorandum encompasses the entire Project LOD. Field surveys were conducted by Tetra Tech on behalf of DETI on February 25, 2020. The majority of the LOD is characterized as industrial given the presence of existing natural gas infrastructure (e.g., compressor, turbine, control, electrical, and auxiliary buildings; aboveground piping; asphalt driveways/parking areas; gravel driveway). Maintained lawn areas exist around natural gas infrastructure within the LOD. Attachment 1, Figure 2 provides an aerial photograph that shows the Project LOD.

2.0 METHODS

Tetra Tech completed background searches and information requests on behalf of DETI regarding the potential presence of listed threatened or endangered species within the LOD. For federally-listed species, Tetra Tech consulted the USFWS IPaC module, available through the online dashboard (USFWS 2020). For state-listed species, a query was submitted using the NYSDEC Environmental Assessment Form (EAF) Mapper for records of protected species within or in the vicinity of the Project LOD (NYSDEC 2020a). An individual search of NYSDEC Environmental Resource Mapper (NYSDEC 2020b) was conducted for T&E species that could potentially occur in the Project area.

Prior to the field effort, Tetra Tech biologists reviewed available information on habitat requirements and preferences for the northern long-eared bat (NLEB) (*Myotis septentrionalis*), including publicly available data such as the NYSDEC and USFWS web sites. In conjunction with in-field aquatic resource surveys, Tetra Tech noted suitable habitats (if present) for both of the species of concern.

For NLEB, Tetra Tech specifically noted that no forested areas are within the Project LOD. Forested stands exist outside of and north of the Project LOD. Tetra Tech assessed the overall quality of those forested stands for NLEB. Several criteria were evaluated, such as tree species composition, stand age, prevalence of sloughing bark, cavities, crevices, and other forest features that are known to serve as bat roosts. They also noted any other wildlife observed during the course of the field survey. Trees within the east portion of the north LOD are located within the Project LOD.

3.0 RESULTS AND PROTECTED SPECIES IMPACT ASSESSMENT

3.1 Vegetation Communities and Land Uses

The land uses/vegetative communities within the Project LOD include industrial land, open land, and palustrine emergent wetland. The majority of the LOD is comprised of industrial land, inclusive of existing aboveground Borger Station facilities with maintained lawn areas. The land uses/vegetative communities are characterized as follows:

Industrial Land

Industrial land consists of a manicured lawn with easy accessibility and clear visibility. Industrial land uses have been present for multiple (30+) years. The lawn is comprised of clover (*Trifolium* sp.) and an unknown grass that could not be identified due to mowing, lack of new growth, and time of year. Other species present include narrowleaf plantain (*Plantago lanceolata*), woodland strawberry (*Fragaria vesca*), marsh seedbox (*Ludwigia palustris*), and mint (*Mentha* sp.).

Open Land

Open land within the Project LOD is comprised of successional old field without an overstory or consistent vertical structure. The vegetation in this area is managed seasonally by mechanical means (e.g., mowing). Five (5) trees are located within the open land and include red oak (*Quercus rubra*), red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), and ash (*Fraxinus* spp.). Trees within the forested stand north of the north LOD and trees along the north extent of Ellis Hollow Creek Road are not located within the Project LOD as confirmed during the February 2020 field survey.

Palustrine Emergent Wetland

One palustrine emergent wetland was identified and delineated within the Project LOD. The portion of the wetland within the Project LOD is approximately 397 square feet. Vegetation in this wetland includes marsh seedbox, moneywort (*Lysimachia nummularia*), and *Carex* sp. The wetland receives water from a stream outside the Project LOD as delineated by Tetra Tech for a previous project (Tetra Tech 2014).

3.2 Northern Long-eared Bat

Based on review of the USFWS IPaC website, the NLEB (USFWS 2020) has the potential to occur in Tompkins County. The NYSDEC EAF mapper identified no species listed as endangered, threatened, or species of special concern within the Project LOD. Furthermore, the NYSDEC EAF mapper indicated the Project LOD is not within natural communities or critical environmental areas (NYSDEC 2020a). The NYSDEC Environmental Resource Mapper indicated the LOD is not within the vicinity of state-listed rare, threatened, or endangered species.

4.0 PROTECTED SPECIES IMPACT ASSESSMENTS

4.1 Northern Long-Eared Bat

4.1.1. Natural History

The NLEB spends the winter hibernating in caves and underground mines of the state and individuals may travel up to 35 miles from their summer habitat for hibernation. During the summer, it uses almost any forested habitat including adjacent open areas for foraging and spends the day roosting in natural cavities and hollow trees (USFWS 2015). This species tends to be more opportunistic when identifying roosting sites than many other bat species. Summer roost habitat, including maternity roosts, includes tree cavities and exfoliating bark/snags in mature deciduous/mixed forests and also human structures (Perkins 2019). The NLEB typically forages at night in forests under the canopy but above the understory, or in small openings, or along streams (Perkins 2019). It feeds on night-flying insects including caddisflies, moths, beetles, flies, and leafhoppers (USFWS 2015).

Summer habitats for NLEB have not been well-defined by scientific research; almost any forested areas will serve as foraging and roosting habitat. The species can forage over waterbodies (streams and pond features) as well as under canopy and along forest edges. The Project LOD lacks potential habitat for this species. Potential habitat for this species is present in the forested stands north of the Project LOD. NYSDEC datasets revealed that there are no known winter habitats (hibernacula) in the vicinity of the Project area (NYSDEC 2018).

4.1.2 NLEB 4(d) Rule

In January 2016, the NLEB was listed as Threatened under the Endangered Species Act, with a 4(d) rule. Whether a federal nexus is imposed on the Project or not, according to the USFWS *Key to the Northern Long-Eared Bat 4(d) Rule* (USFWS 2016a and 2016b), the proposed activity is exempt from incidental take, as long as no trees within 150 feet of a known roost are cleared between June 1 and July 31, and no trees are cleared within 0.25 miles of a hibernacula. However, USFWS lost a legal challenge to that listing (Westlaw 2020) and will be reassessing the protected status of NLEB in the upcoming months.

4.1.3 Proposed Activities

No potential NLEB habitat is present within the LOD. Although some trees are present within the LOD, no trees will be cleared for construction and operation of the Project.

4.1.4 Habitat Assessment

The only potential habitat for NLEB is located within the cluster of five (5) trees along the northeast boundary of the Project LOD. The cluster of trees is located within the Borger Station operational area. The cluster is comprised of red oak, red maple, sugar maple, and ash. Although the trees are mature, they are widely-spaced, lack suitably peeling bark, and lack a closed understory. NLEBs do not prefer these conditions. An aerial photograph of this area is provided in Attachment 1, Figure 2 and a photograph of the trees is provided in Attachment 2.

4.1.5 Impact Determination

It is reasonably likely that NLEB will be listed as Endangered following the required reclassification review. For the interim, Tetra Tech and DETI will follow the existing listing determination and adhere to guidelines for minimizing impacts to NLEB.

No NLEB occurrences have been documented in the Town of Dryden, Tompkins County, NY (NYSDEC 2018). The tree cluster in the northeast portion of the Project LOD is not suitable NLEB habitat and therefore is unlikely to be used by NLEB. No tree clearing is proposed for the Project. Forested areas north of the LOD are completely outside the Project LOD and will not be impacted. Due to the low likelihood of use of the Project LOD by the NLEB, and because no trees will be removed for construction or operation of the Project, the Project is expected to have **no effect on the northern long-eared bat**.

5.0 SUMMARY

DETI contracted Tetra Tech to evaluate impacts to federally- and state-protected species and their habitats during construction and operation of the Borger Replacement Project. Based on the lack of NLEB occurrence data and lack of suitable NLEB habitat, the federal- and state-listed Threatened NLEB is not likely to be present within the LOD. The Project involves no tree clearing. Further, based on the proposed Project activities and criteria within the 4(d) exemption, any take resulting from the proposed Project is not prohibited.

Attachment 1 Figure 1 – USGS Site Map of the Borger Replacement Project
Figure 2 – Vegetation Associates and Land Uses within the Borger Replacement Project
Limit of Disturbance

Attachment 2 Photograph of Mature Trees within the Project Limit of Disturbance

End of Memorandum

REFERENCES

New York State Department of Environmental Conservation (NYSDEC). 2018. Northern Long-eared Bat Occurrences by Town. June 28, 2018. Available at: https://www.dec.ny.gov/docs/wildlife_pdf/nlebtowns.pdf. Accessed March 9, 2020.

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Perkins, K. A. 2019. Northern Long-eared Bat Conservation Guide. New York Natural Heritage Program, NYS Department of Environmental Conservation, Albany, NY. Available at: <https://guides.nynhp.org/northern-long-eared-bat/>. Accessed March 9, 2020.

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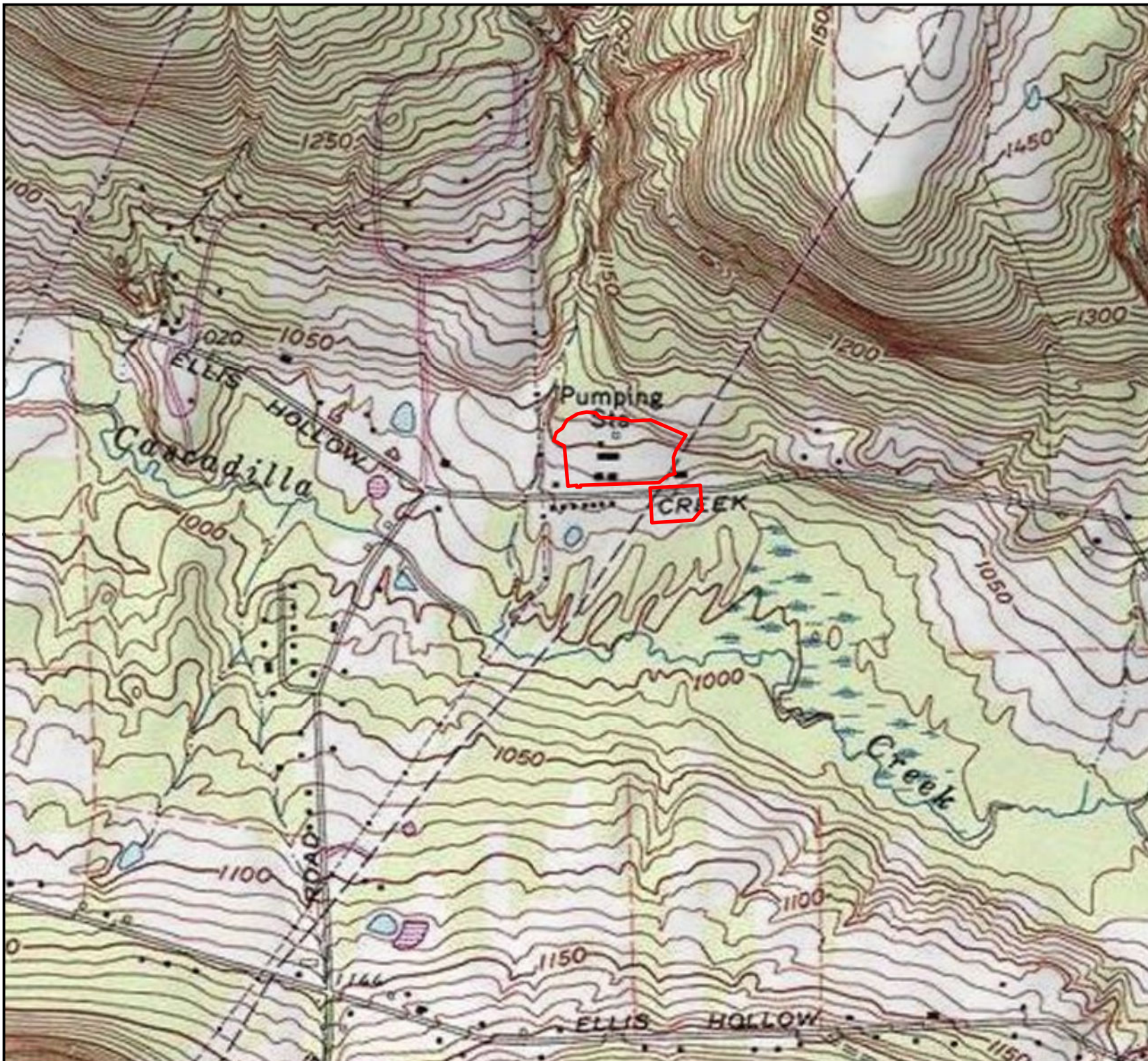
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Legend

- Borger Replacement Project
- Limit of Disturbance

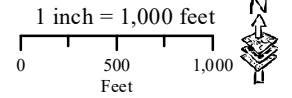


Figure 1.

USGS Site Map of the
Borger Replacement Project

Tompkins County, New York
March 2020

SHEET 1 of 1

Prepared By: **TETRA TECH**

Prepared For: **Dominion Energy**

Source: Aerials and Roads from ESRI available online.



- Legend**
- Borger Replacement
 - Project Limit of Disturbance
 - Industrial
 - Open Land
 - Palustrine Emergent Wetland

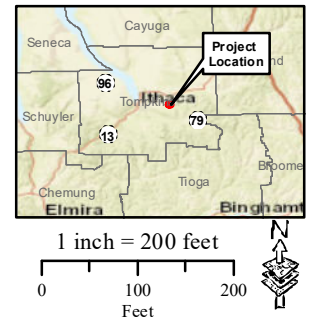


Figure 2.
 Vegetation Associations and Land Uses within the Borger Replacement Project Limit of Disturbance
 Tompkins County, New York
 March 2020

SHEET 1 of 1

Prepared By:  **TETRA TECH**

Prepared For:  **Dominion Energy Transmission, Inc.**

Source: Aerials and Roads from ESRI available online.

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WETLAND PHOTOGRAPHIC LOG

Company: Dominion Energy Transmission, Inc.
Project: Borger Replacement Project



Photographer: M. Benjovsky
Date: 02/25/2020
Direction: South
Photo No.: 1
Comments:

Mature trees within the east portion of the north limit of disturbance

Photographer:
Date:
Direction:
Photo No.:
Comments:

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United States Department of the Interior



FISH AND WILDLIFE SERVICE

New York Field Office

3817 Luker Road

Cortland, NY 13045

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo>

To: Richard Gangle c/o Frank Canneto

Date: 3/31/2020

USFWS File No: 202247

Regarding your: Letter Fax Email

Dated: 3/27/2020

For project: Borger Compressor Station

Located: _____

In Town/County: Town of Dryden, Tompkins County, NY

Pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*), the U.S. Fish and Wildlife Service:

Acknowledges receipt of your “no effect” and/or no impact determination. No further ESA coordination or consultation is required.

Acknowledges receipt of your determination. Please provide a copy of your determination and supporting materials to any involved Federal agency for their final ESA determination.

Is taking no action pursuant to ESA or any legislation at this time, but would like to be kept informed of project developments.

As a reminder, until the proposed project is complete, we recommend that you check our website (<http://www.fws.gov/northeast/nyfo/es/section7.htm>) every 90 days from the date of this letter to ensure that listed species presence/absence information for the proposed project is current. Should project plans change or if additional information on listed or proposed species or critical habitat becomes available, this determination may be reconsidered.

USFWS Contact(s): _____

Supervisor: **ROBYN NIVER** Digitally signed by ROBYN NIVER
Date: 2020.03.31 06:58:51 -04'00' Date: _____

Additional Information for Part 1 Full EAF

3. OPRHP Determination



Andrew M. Cuomo
Governor

Rose Harvey
Commissioner

New York State Office of Parks, Recreation and Historic Preservation

Division for Historic Preservation
P.O. Box 189, Waterford, New York 12188-0189
518-237-8643

22 July 2014

Mr. Francisco Canneto
Dominion Transmission, Inc.
5000 Dominion Boulevard
Glen Allen, VA 23060

Re: FERC
Dominion Transmission New Market Project
Town of Veteran, Chemung County
Town of Frankfort, Herkimer County
Town of Georgetown, Madison County
Town of Minden, Montgomery County
Town of Rotterdam, Schenectady County
Town of Dryden, Tompkins County
14PR02199 / CP14-497

Dear Mr. Canneto:

The State Historic Preservation Office (SHPO) has reviewed the information submitted for this project (*Phase I Cultural Resources Investigation Report, New Market Project, Chemung, Tompkins, Madison, Herkimer, Montgomery, and Schenectady Counties, New York*, dated May 2014, prepared by Tetra Tech, Inc.). Our review has been in accordance with Section 106 of the National Historic Preservation Act and relevant implementing regulations.

Based on the information provided, SHPO recommends that the planned project will have **No Effect** on historic properties listed or eligible for listing on the National Register of Historic Places. This recommendation pertains only to the Area of Potential Effects (APE) examined during the above-referenced investigation. It is not applicable to any other portion of the project property. Should the project design be changed SHPO recommends further consultation with this office.

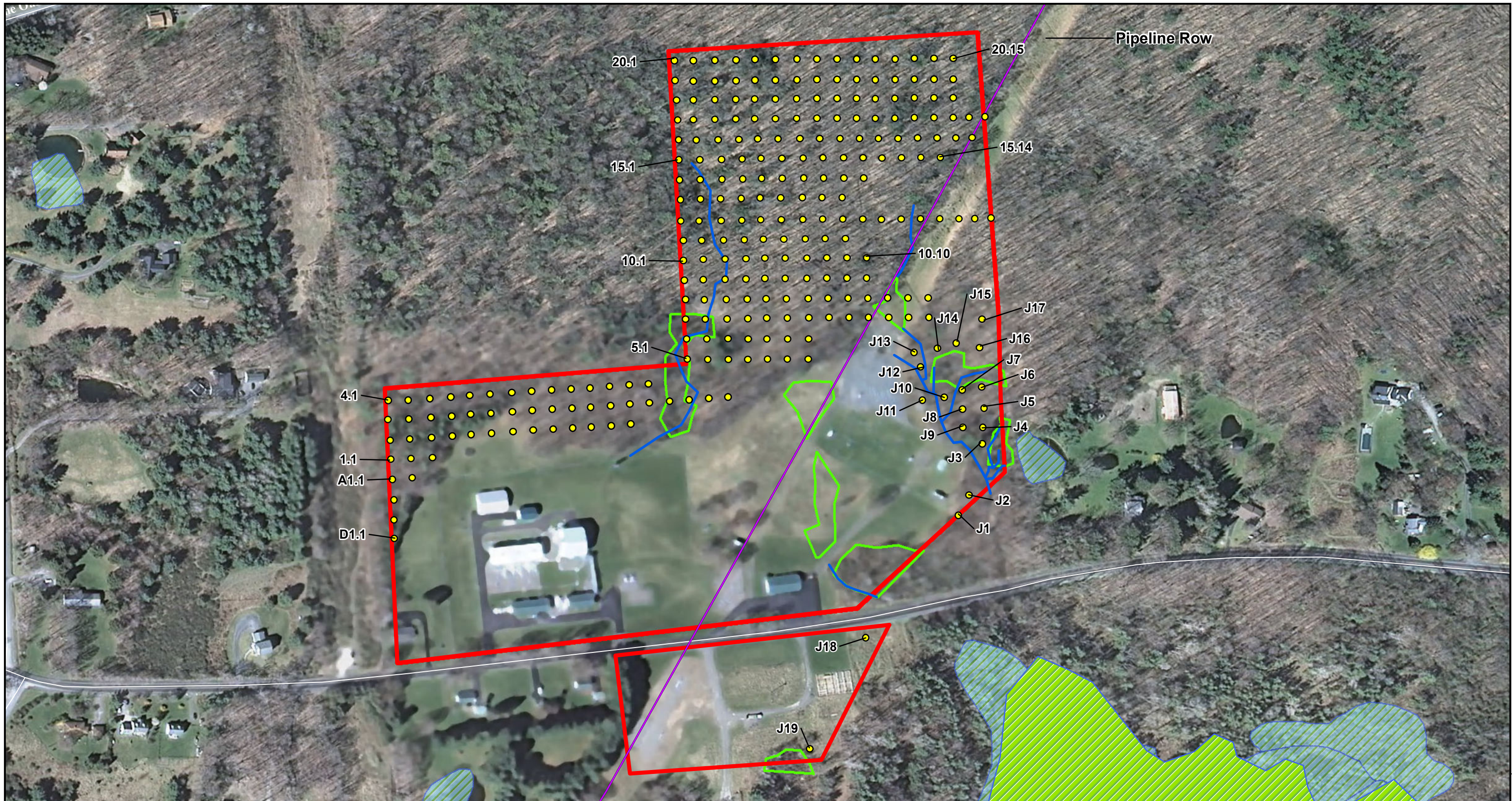
These comments are those of the Division for Historic Preservation and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

If you have any questions please don't hesitate to contact me.

Sincerely,

Philip A. Perazio, Historic Preservation Program Analyst – Archaeology Unit
Phone: 518-237-8643 x3276; FAX: 518-233-9049
Email: Philip.Perazio@parks.ny.gov

Cc: FERC (via eFiling)
Robert Peltier, Tetra Tech (via email)



Project Location

Source: Source: ESRI World Imagery; Imagery taken 03/21/2012. Survey data, Tetra Tech, April 2014.

Negative Shovel Test (ST)	NYSDEC Freshwater Wetland (FWW)
Dominion's Existing Transmission Pipeline	USFWS National Wetland Inventory (NWI)
Delineated Culvert	Delineated Wetland
Delineated Pond	Project Boundary
Delineated Stream	

0 50 100 200 Feet

0 12 24 48 Meters

Figure 1. Phase I Cultural Resource Investigation Map for the Existing Borger Compressor Station Tompkins County, New York

Prepared For: Dominion Transmission, Inc.

Prepared By: TETRA TECH

Date: 5/7/14

C:\GIS\Files\Dominion\MapDocs\CR\figure16_new.mxd

Additional Information for Part 1 Full EAF

4. US Army Corps of Engineers

No Permit Determination



DEPARTMENT OF THE ARMY
BUFFALO DISTRICT, CORPS OF ENGINEERS
1776 NIAGARA STREET
BUFFALO, NEW YORK 14207-3199

REPLY TO
ATTENTION OF:

April 25, 2020

Regulatory Branch

SUBJECT: Determination of No Permit Required, Department of Army Application No. 2014-00513

Dominion Energy Transmission, Inc.
707 East Main Street
Richmond, Virginia 23219
Attn: Brian Wright

Dear Mr. Wright:

This pertains to your proposal to replace two existing Dresser DC990 centrifugal compressor units (Borger Units 2 and 3) with two new Solar Centaur 50LS centrifugal compressor units (Borger Units 5 and 6) with oxidation catalysts. Work also includes temporary workspace, parking areas, and laydown areas and construction of a security fence, all within the existing property comprised of the Borger Station operational area. The project is located at 219 Ellis Hollow Creek Road, Town of Dryden, Tompkins County, New York

One 0.02-acre emergent wetland was identified on the site which is part of the area where the fence is proposed, where either timber matting or biomats would be used to protect the area during fence installation. The use of mats in a wetland is not considered as fill.

Under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), a permit is required for any structure or work that takes placed in, under, or over a navigable water, or wetlands adjacent to navigable waters of the United States (WOUS). Under Section 404 of the Clean Water Act (CWA), the U.S. Army Corps of Engineers regulates the discharge of dredged or fill material into WOUS, including wetlands. Certain types of excavation activities are defined as discharges of dredged material when they occur in WOUS. For instance, land clearing using mechanized equipment, ditching, channelization and other types of excavation when performed in such waters, including wetlands, would likely be regulated under Section 404 of the CWA.

I have reviewed the information which accompanied your application and have determined that a Department of the Army (DA) permit is not required. Should you modify your proposal to entail work in navigable waters or a discharge of dredged or fill material into a WOUS you must contact this office regarding DA permit requirements. Although a permit is not required, we request that proper measures be taken to prevent unintentional discharges from entering the waterway.

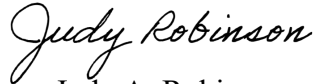
You are encouraged to contact the appropriate state and local governmental officials to ensure that the proposed work complies with their requirements.

Regulatory Branch

SUBJECT: Determination of No Permit Required, Department of Army Application No. 2014-00513

Questions pertaining to this matter should be directed to me at 716-879-6330, by writing to the following address: U.S. Army Corps of Engineers, 7413 County House Road, Auburn, New York 13021, or by e-mail at: judy.a.robinson@usace.army.mil.

Sincerely,

A handwritten signature in cursive script that reads "Judy Robinson".

Judy A. Robinson
Biologist

Encl.

cc: Francisco Canneto, Dominion Energy Services
Peggy Grant, Tetra Tech

Additional Information for Part 1 Full EAF
5. Summary of Air Emissions

Air Emission Summary
Borger Replacement Project
June 5, 2020

Dominion Energy Transmission, Inc. (DETI) has applied for a New York State Department of Environmental Conservation (NYSDEC) air permit renewal and modification to their existing Title V air permit for the Borger Replacement Project. In summary, the proposed action will result in significant reductions in air emissions at the facility.

The reduced air emissions are summarized in the following table based on the annual “potential to emit” which assumes continuous operation of the compressor station. In practice, the Borger facility has a low annual utilization rate, so the “actual” annual emissions are anticipated to be approximately 20% of the emission rate total based on past operational history.

Air Contaminant	Existing Potential to Emit (Tons/Year)	Proposed Potential to Emit (Tons/Year)	Net Change (Tons/Year)	% Change
Hazardous Air Pollutants (HAPs)	0.49	0.36	-0.13	-26.53%
Oxides of Nitrogen (NOX)	220.1	58.2	-161.9	-73.56%
Carbon Monoxide (CO)	30.1	8.4	-21.7	-72.09%
Carbon Dioxide Equivalents (CO2e)	83,794	108,858	25,064	+29.91%

The above table demonstrates that the proposed Borger Replacement Project will result in large reductions in emissions of criteria pollutants including oxides of nitrogen (NOX) and carbon monoxide (CO) which have health-based air emission standards. The new units will operate much cleaner than the old units being replaced.

The NOX reduction below 100 tons/year is anticipated to change the facility's NYSDEC air permitting status such that it will no longer be regulated as a Title V facility (Major Source of air emissions), and instead will be regulated under a State Facility Permit (Minor Source of air emissions) without having to cap emissions.

The hazardous air pollutants (HAPs) reduction from 0.49 to 0.36 tons/year similarly represents a significant reduction.

It is noted that carbon dioxide equivalents (CO₂e) is not a criteria pollutant, and from an air permitting perspective the increase in CO₂e from 83,794 to 108,858 tons/year is not considered to be significant, as the increased CO₂e emission rate will not impact the ability of the facility to be regulated under a State Facility Permit.