

Fraser to Coopers Corners 345 kV Reconductoring

**Non-Article VII Filing Requirements
Attachments**

**Attachment D
Environmental Assessment Form**

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617.20
Appendix A
State Environmental Quality Review
FULL ENVIRONMENTAL ASSESSMENT FORM

Purpose: The full EAF is designed to help applicants and agencies determine, in an orderly manner, whether a project or action may be significant. The question of whether an action may be significant is not always easy to answer. Frequently, there are aspects of a project that are subjective or unmeasurable. It is also understood that those who determine significance may have little or no formal knowledge of the environment or may not be technically expert in environmental analysis. In addition, many who have knowledge in one particular area may not be aware of the broader concerns affecting the question of significance.

The full EAF is intended to provide a method whereby applicants and agencies can be assured that the determination process has been orderly, comprehensive in nature, yet flexible enough to allow introduction of information to fit a project or action.

Full EAF Components: The full EAF is comprised of three parts:

- Part 1:** Provides objective data and information about a given project and its site. By identifying basic project data, it assists a reviewer in the analysis that takes place in Parts 2 and 3.
- Part 2:** Focuses on identifying the range of possible impacts that may occur from a project or action. It provides guidance as to whether an impact is likely to be considered small to moderate or whether it is a potentially-large impact. The form also identifies whether an impact can be mitigated or reduced.
- Part 3:** If any impact in Part 2 is identified as potentially-large, then Part 3 is used to evaluate whether or not the impact is actually important.

THIS AREA FOR LEAD AGENCY USE ONLY

DETERMINATION OF SIGNIFICANCE -- Type 1 and Unlisted Actions

Identify the Portions of EAF completed for this project:

Part 1

Part 2

Part 3

Upon review of the information recorded on this EAF (Parts 1 and 2 and 3 if appropriate), and any other supporting information, and considering both the magnitude and importance of each impact, it is reasonably determined by the lead agency that:

- A. The project will not result in any large and important impact(s) and, therefore, is one which **will not** have a significant impact on the environment, therefore **a negative declaration will be prepared.**
- B. Although the project could have a significant effect on the environment, there will not be a significant effect for this Unlisted Action because the mitigation measures described in PART 3 have been required, therefore **a CONDITIONED negative declaration will be prepared.***
- C. The project may result in one or more large and important impacts that may have a significant impact on the environment, therefore **a positive declaration will be prepared.**

*A Conditioned Negative Declaration is only valid for Unlisted Actions

COMPONENT

Name of Action

Name of Lead Agency

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

Signature of Preparer (If different from responsible officer)

PART 1--PROJECT INFORMATION

Prepared by Project Sponsor

NOTICE: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire form, Parts A through E. Answers to these questions will be considered as part of the application for approval and may be subject to further verification and public review. Provide any additional information you believe will be needed to complete Parts 2 and 3.

It is expected that completion of the full EAF will be dependent on information currently available and will not involve new studies, research or investigation. If information requiring such additional work is unavailable, so indicate and specify each instance.

Name of Action

Location of Action (include Street Address, Municipality and County)

Name of Applicant/Sponsor

Address

City / PO

State

Zip Code

Business Telephone

Name of Owner (if different)

Address

City / PO

State

Zip Code

Business Telephone

Description of Action:

Please Complete Each Question--Indicate N.A. if not applicable

A. SITE DESCRIPTION

Physical setting of overall project, both developed and undeveloped areas.

1. Present Land Use: Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Other

2. Total acreage of project area: acres.(Based on GIS calculations and assume maximum ROW of 150 ft)

APPROXIMATE ACREAGE	PRESENTLY	AFTER COMPLETION
Meadow or Brushland (Non-agricultural)	acres	acres
Forested	acres	acres
Agricultural (Includes orchards, cropland, pasture, etc.)	acres	acres
Wetland (Freshwater or tidal as per Articles 24,25 of ECL)	acres	acres
Water Surface Area	acres	acres
Unvegetated (Rock, earth or fill)	acres	acres
Roads, buildings and other paved surfaces	acres	acres
Other (Indicate type)	acres	acres

*Forested area consists of spanned valleys

3. What is predominant soil type(s) on project site?

- a. Soil drainage: Well drained % of site Moderately well drained % of site.
 Poorly drained % of site

b. If any agricultural land is involved, how many acres of soil are classified within soil group 1 through 4 of the NYS Land Classification System? acres (see 1 NYCRR 370).

4. Are there bedrock outcroppings on project site? Yes No

a. What is depth to bedrock (in feet) See Narrative and Table 1

5. Approximate percentage of proposed project site with slopes: See Narrative and Table 1

0-10% % 10- 15% % 15% or greater %

6. Is project substantially contiguous to, or contain a building, site, or district, listed on the State or National Registers of Historic Places? Yes No See Narrative

7. Is project substantially contiguous to a site listed on the Register of National Natural Landmarks? Yes No

8. What is the depth of the water table? (in feet) see attached table

9. Is site located over a primary, principal, or sole source aquifer? Yes No See Narrative

10. Do hunting, fishing or shell fishing opportunities presently exist in the project area? Yes No See Narrative

11. Does project site contain any species of plant or animal life that is identified as threatened or endangered? Yes No

According to:

Identify each species:

12. Are there any unique or unusual land forms on the project site? (i.e., cliffs, dunes, other geological formations?)

Yes No per NYSDEC Environmental Resource Mapper

Describe:

13. Is the project site presently used by the community or neighborhood as an open space or recreation area?

Yes No

If yes, explain:

14. Does the present site include scenic views known to be important to the community? Yes No

15. Streams within or contiguous to project area:

a. Name of Stream and name of River to which it is tributary

16. Lakes, ponds, wetland areas within or contiguous to project area:

b. Size (in acres):

17. Is the site served by existing public utilities? Yes No
- a. If **YES**, does sufficient capacity exist to allow connection? Yes No
- b. If **YES**, will improvements be necessary to allow connection? Yes No
18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? Yes No See narrative
19. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL, and 6 NYCRR 617? Yes No Per NYSDEC Website
20. Has the site ever been used for the disposal of solid or hazardous wastes? Yes No

B. Project Description See narrative

1. Physical dimensions and scale of project (fill in dimensions as appropriate).
- a. Total contiguous acreage owned or controlled by project sponsor: acres. (150 ft ROW was assumed)
- b. Project acreage to be developed: acres initially; acres ultimately.
- c. Project acreage to remain undeveloped: acres.
- d. Length of project, in miles: (if appropriate)
- e. If the project is an expansion, indicate percent of expansion proposed. %
- f. Number of off-street parking spaces existing ; proposed
- g. Maximum vehicular trips generated per hour: (upon completion of project)?
- h. If residential: Number and type of housing units:
- | | One Family | Two Family | Multiple Family | Condominium |
|------------|------------|------------|-----------------|-------------|
| Initially | | | | |
| Ultimately | | | | |
- i. Dimensions (in feet) of largest proposed structure: height; width; length.
- j. Linear feet of frontage along a public thoroughfare project will occupy is? ft.
2. How much natural material (i.e. rock, earth, etc.) will be removed from the site? tons/cubic yards.
3. Will disturbed areas be reclaimed Yes No N/A
- a. If yes, for what intended purpose is the site being reclaimed?
- b. Will topsoil be stockpiled for reclamation? Yes No
- c. Will upper subsoil be stockpiled for reclamation? Yes No
4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site? acres. See Narrative

5. Will any mature forest (over 100 years old) or other locally-important vegetation be removed by this project?

Yes No

6. If single phase project: Anticipated period of construction: months, (including demolition)

7. If multi-phased:

a. Total number of phases anticipated (number)

b. Anticipated date of commencement phase 1: month year, (including demolition)

c. Approximate completion date of final phase: month year.

d. Is phase 1 functionally dependent on subsequent phases? Yes No

8. Will blasting occur during construction? Yes No

9. Number of jobs generated: during construction ; after project is complete

10. Number of jobs eliminated by this project .

11. Will project require relocation of any projects or facilities? Yes No

If yes, explain:

12. Is surface liquid waste disposal involved? Yes No

a. If yes, indicate type of waste (sewage, industrial, etc) and amount

b. Name of water body into which effluent will be discharged

13. Is subsurface liquid waste disposal involved? Yes No Type

14. Will surface area of an existing water body increase or decrease by proposal? Yes No

If yes, explain:

15. Is project or any portion of project located in a 100 year flood plain? Yes No See Narrative

16. Will the project generate solid waste? Yes No See Narrative

a. If yes, what is the amount per month? tons

b. If yes, will an existing solid waste facility be used? Yes No

c. If yes, give name ; location

d. Will any wastes not go into a sewage disposal system or into a sanitary landfill? Yes No

e. If yes, explain:

17. Will the project involve the disposal of solid waste? Yes No

a. If yes, what is the anticipated rate of disposal? tons/month.

b. If yes, what is the anticipated site life? years.

18. Will project use herbicides or pesticides? Yes No

19. Will project routinely produce odors (more than one hour per day)? Yes No

20. Will project produce operating noise exceeding the local ambient noise levels? Yes No See Narrative

21. Will project result in an increase in energy use? Yes No

If yes, indicate type(s)

22. If water supply is from wells, indicate pumping capacity gallons/minute.

23. Total anticipated water usage per day gallons/day.

24. Does project involve Local, State or Federal funding? Yes No

If yes, explain:

25. Approvals Required: See Narrative

Type

Submittal Date

City, Town, Village Board Yes No

City, Town, Village Planning Board Yes No

City, Town Zoning Board Yes No

City, County Health Department Yes No

Other Local Agencies Yes No

Other Regional Agencies Yes No

State Agencies Yes No

Catskill Forest Preserve n/a

Federal Agencies Yes No

C. Zoning and Planning Information

1. Does proposed action involve a planning or zoning decision? Yes No

If Yes, indicate decision required:

Zoning amendment

Zoning variance

New/revision of master plan

Subdivision

Site plan

Special use permit

Resource management plan

Other

2. What is the zoning classification(s) of the site?

3. What is the maximum potential development of the site if developed as permitted by the present zoning?

4. What is the proposed zoning of the site?

5. What is the maximum potential development of the site if developed as permitted by the proposed zoning?

6. Is the proposed action consistent with the recommended uses in adopted local land use plans? Yes No

7. What are the predominant land use(s) and zoning classifications within a ¼ mile radius of proposed action?

8. Is the proposed action compatible with adjoining/surrounding land uses with a ¼ mile? Yes No

9. If the proposed action is the subdivision of land, how many lots are proposed?

a. What is the minimum lot size proposed?

10. Will proposed action require any authorization(s) for the formation of sewer or water districts? Yes No

11. Will the proposed action create a demand for any community provided services (recreation, education, police, fire protection)?

Yes No

a. If yes, is existing capacity sufficient to handle projected demand? Yes No

12. Will the proposed action result in the generation of traffic significantly above present levels? Yes No

a. If yes, is the existing road network adequate to handle the additional traffic. Yes No

D. Informational Details See Narrative

Attach any additional information as may be needed to clarify your project. If there are or may be any adverse impacts associated with your proposal, please discuss such impacts and the measures which you propose to mitigate or avoid them.

E. Verification

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

Applicant/Sponsor Name NYSEG, By: Carol Howland Date 9/16/2013

Signature Carol A. Howland

Title Lead Analyst - Environmental, Health & Safety Compliance

If the action is in the Coastal Area, and you are a state agency, complete the Coastal Assessment Form before proceeding with this assessment.

Attachment 1

Narrative Supplement to Full Environmental Assessment Form

**Marcy South Series Compensation and
Fraser to Coopers Corners Reconductoring – NYSEG Non-Article VII Component
Delaware and Sullivan Counties, New York**

NARRATIVE SUPPLEMENT TO FULL ENVIRONMENTAL ASSESSMENT FORM

September 23, 2013

Introduction

This narrative supplements the information provided in the Full Environmental Assessment Form dated September 20, 2013 and prepared for the New York State Electric & Gas Corporation (“NYSEG”) Action entitled Marcy South Series Compensation and Fraser to Coopers Corners Reconductoring – NYSEG Non-Article VII Component.

Full EAF – Section D. Informational Details

EAF page 2 . DESCRIPTION of ACTION

The MSSC project includes reconductoring of 21.8 miles of the approximately 46.64 mile existing Fraser-Coopers Corners 345kV line (FCC-33) using primarily existing structures. The MSSC project also includes the installation of three series capacitor banks (SC banks); one at the Marcy substation (NYPA) and two at the Fraser substation (NYPA and NYSEG).

The subject transmission ROW is located between the Town of Delhi in Delaware County, NY and the NYSEG-Hazel substation in the Town of Rockland, Sullivan County, NY. Based on engineering studies, it is anticipated that the project will be located within existing rights-of-way owned by NYSEG and acquisition of additional ROW will not be required. The ROW is approximately 150 feet wide. A Site Location Map is attached as Figure 1.

New York Power Authority is sponsoring the installation of series capacitor banks along its UCC2-41 line and EF24-40 line as part of the MSSC project. One capacitor bank is proposed to be installed at the Fraser substation and the other will be installed at the Marcy substation in Utica, Oneida County. NYPA's lines have a New York State Public Service Law Article VII certificate of environmental compatibility and public need and therefore the NYPA components are deemed to be SEQRA Type II Actions pursuant to 6 NYCRR 617.5(c)(35), and are subject to Public Service Commission review.

The NYSEG environmental review of the Action will consider the potential cumulative impacts of the NYPA components of the MSSC project.

NYSEG filed a Petition for Declaratory Ruling with NYS PSC for a determination that the NYSEG component of the MSSC project does not entail “construction of a major utility transmission facility” as defined by Public Service Law Section 121 and is not subject to 6 NYCRR Part 102 reporting. Accordingly, if NYS PSC issues the requested determination, it is

anticipated that the NYSDEC, among others, will have jurisdiction for permitting and approvals for this project.

EAF Item A.3. What is predominant soil type(s) on project site?

The soils in the locations of existing right-of-way are depicted on Figures 2A to 2G and summarized in Table-1. The table identifies the soils crossed by existing transmission ROW.

The soil types at the Marcy substation location are identified as 22 (Udorthents, smoothed), 813B (Gretor silt loam), 819B (Kendaia silt loam), and 790C (Conesus silt loam). The soil types in the Fraser substation location are identified as Ud (Udorthents, graded), Ur (Urban land), No (Norchip silt loam) and LaB (Lackawanna flaggy silt loam). The soils in the Marcy and Fraser substation locations are shown on Figures 2-H and 2-I, respectively.

EAF Item A.4. What is depth to bedrock?

The depth to bedrock based on soil type ranges from 0-79 feet as provided in Table 1.

EAF item A.5. Approximate percentage of proposed project site with slopes:

The percentage of area by range of slopes, based on soil types crossed by the project corridor, are provided in Table 1.

- 0-10% slopes- 21%
- 10-15% slopes – 20%
- 15% or greater slopes – 59%

EAF item A.6. Is project substantially contiguous to, or contain a building, site or district, listed on the State or National Registers of Historic Places?

There are no sites listed or eligible for listing in the State and national registers of historic places that are located within the exiting ROW along the project corridor. However, the closest historic places with their distances from the exiting right-of-way are listed below:

- Dundas Castle – 0.33 miles
- Beaver Kill Covered Bridge – 0.75 miles
- Jackson-Aitken Farm – 1.5 miles

According to information accessed from the NYS Office of Parks, Recreation and Historic Preservation website (<http://pwa.parks.ny.gov/SPHINX/>) there are approximately 13 archeologically sensitive areas within the existing right-of-way and crossed by the Project.

The existing Fraser-Coopers Corners 345kV line (FCC-33) crosses portions of those archeologically sensitive areas. Given sensitivity of this information, a map is not provided. Because the project corridor consists of the existing transmission line, it is anticipated that

archaeological resources will not be disturbed. Once detailed engineering is complete, consultation with the SHPO will be conducted. A cultural resources investigation will be prepared, if required by SHPO, for the project.

EAF item A.9. Is site located over a primary, principal, or sole source aquifer?

According to NYSDEC (http://www.dec.ny.gov/images/water_images/usgsmmap.jpg) there are approximately 43.25 acres above principal aquifers in the existing right-of-way. The NYSDEC definition of a principal aquifer is an aquifer known to be highly productive or whose geology suggests abundant potential water supply, but which are not intensively used as sources of water supply by major municipal systems at the present time.

EAF item A.10. Do hunting, fishing or shell fishing opportunities presently exist in the project area?

Hunting, fishing, shell fishing opportunities are not authorized on the private NYSEG ROW. Permits are required for certain recreational activities in the Catskill Forest Preserve area.

EAF item A.11 Does project site contain any species of plant or animal life that is identified as threatened or endangered?

Rare plant and animals were identified in the project area per NYSDEC Environmental Resource Mapper (ERM). However, according to field work performed by URS in July 2013 for wetlands and invasive species surveys, no rare plant or animal species were observed.

Also, there was no threatened or endangered plant or animal species in the project area per (ERM) (<http://www.dec.ny.gov/imsmaps/ERM/viewer.htm>).

EAF item A.13. Is the project site presently used by the community or neighborhood as an open space or recreation area?

The project corridor crosses State forestlands and parklands within the Catskill Park and the Catskill Forest Preserve. The project corridor crosses approximately 227 acres of Catskill Park and approximately 7.5 acres of the Catskill Forest Preserve.

EAF item A.15. Streams within or contiguous to project area:

NYSDEC uses a stream classification system in order to identify the value and uses of watercourses in the state. A protected stream is any stream or particular portion of a stream for which any of the following classifications or standards have been adopted by the Agency: AA, AA(T), A,A(T), B, B(T), or C(T). Streams designated as (T) (trout) also include those more specifically designated as (TS) (trout spawning). Class D streams are the lowest level of classification and are not subject to protection under the NYSDEC Protection of Waters program.

Streams, along with their NYSDEC stream classification, located within the transmission corridor are depicted on Figures 3A to 3G and listed below.

NAME	TRIBUTARY TO	NYSDEC CLASSIFICATION
• Bagley Brook	Delaware River West Branch	C, C(TS)
• Unnamed Tributary 1	Unnamed Tributary 4	C, C(T)
• Unnamed Tributary 2	Unnamed Tributary 4	C, C
• Unnamed Tributary 3	Unnamed Tributary 4	C, C(T,S)
• Unnamed Tributary 4	Pepacton Reservoir	C, C(T,S)
• Bryden Hill Brook	Pepacton Reservoir	A, A(T)
• Murphy Hill Brook	Pepacton Reservoir	A, A(T)
• Unnamed Tributary 5	Holliday Brook	C, C(T, S)
• Unnamed Tributary 6	Holliday Brook	C, C(T, S)
• Holliday Brook	Pepacton Reservoir	C, C(T)
• Unnamed Tributary 7	Berry Brook	C, C(T)
• Unnamed Tributary 8	Berry Brook	C, C
• Berry Brook	Beaver Kill	C, C(TS)
• Beaver Kill	Willowemoc Creek	C, C(T)
• Unnamed Tributary 9	Beaver Kill	B,B

The closest mapped stream in the vicinity of the Fraser substation is located to the south of the substation and has a NY Stream class and standard of C,C(T) as shown on Figure 3-I. As shown on Figure 3-H, Crane creek is the closest water body and located adjacent to the Marcy substation having a NY Stream class and standard of C, C.

EAF item A.16. Lakes, ponds, wetland areas within or contiguous to project area:

There are approximately 12 acres of lakes (Pepacton Reservoir) and approximately 2 acres of ponds crossed by the existing transmission ROW to be reconductored. There are no lakes or ponds located in the immediate vicinity of the Marcy substation and one NYSDEC classified lake in close proximity to the Fraser substation.

Wetlands located within the project corridor are depicted on Figures 3A to 3G (US Fish and Wildlife Service mapped National Wetland Inventory, NYS DEC Freshwater Wetlands). The project corridor crosses approximately 2.3 acres of mapped NWI wetlands in seven locations. There are no designated NYS DEC freshwater wetlands crossed by the project. The closest DEC wetland is approximately 750 feet to the west of the project corridor as shown on Figure 3G.

In July 2013, URS conducted a field delineation and identified 19 wetland areas (approximately 7.7 acres) crossed by the project ROW.

There is one NWI mapped wetland located approximately 525 feet to the east from the center of the Fraser substation location. The Fraser capacitor bank will be designed to avoid impact to the nearby NWI wetland. The nearest NYSDEC wetland to the Fraser substation location is located approximately 1,855 feet to the east from the center of the substation. There are no mapped wetlands located at the Marcy substation location as shown on Figure 3-H. The Marcy substation

is approximately 3 miles from the nearest 100yr floodzone and is approximately 1.5 miles from the nearest DEC Wetland. Also, Oneida County (which is where Marcy South is located) is not mapped as part of the NWI wetland inventory.

EAF item A.18. Is the site located in an agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304?

According to the Cornell University Geospatial Information Repository Website (<http://cugir.mannlib.cornell.edu/datatheme.jsp?id=2>), approximately 2,250 feet of the project corridor in Sullivan County crosses through areas of overlapping agricultural districts 1 and 4 consisting of approximately 14.36 acres.

EAF item B.1. Physical dimensions and scale of project (fill in dimensions as appropriate).

The reconductoring project will primarily be limited to use of existing structures on existing cleared transmission ROW. It is anticipated that 13 structures will be replaced for maintenance purposes and that three structures may be replaced or raised as part of the reconductoring. The replacement and/or raised structures will not exceed the existing structure height by more than 10 feet.

The MSSC project will also include three capacitor improvements; one at the Marcy substation (NYPA) and two at the Fraser substation (NYPA and NYSEG). The improvements will take place on footprints of approximately 260 feet by 260 feet.

EAF item B.4. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site?

The MSSC project proposes using an existing transmission ROW without the construction of additional transmission structures and therefore, it is anticipated that the reconductoring project will not require substantial additional clearing with the existing ROW.

The addition of the NYSEG series capacitor bank will require approximately 1.5 acres of land.

EAF item B.15. Is project or any portion of project located in a 100 year flood plain?

Figure 4 depicts the regulatory floodplains in the Towns of Delhi, Hamden, and Colchester of Delaware County and Town Rockland of Sullivan County as mapped by FEMA under the National Flood Insurance Program. The associated community numbers with the effective dates for each town are listed below.

Town	Community Number	Effective Date
Delaware County		
Dehli	360193	6/19/2012
Hamden	360200	6/19/2012
Colchester	360191	6/19/2012
Sullivan County		
Rockland	360829	2/18/2011

Figure 4 indicates that existing transmission ROW cross the FEMA mapped 100-year flood plain in approximately three locations. There are no FEMA mapped 100-year flood plains in the vicinity of the Fraser substation. Because primarily existing structures will be utilized, the reconductoring activities are not expected to result in any physical alteration within the designated floodplains. The Marcy substation is approximately 3 miles from the nearest FEMA mapped 100-yr floodplain

EAF item B.16. Will the project generate solid waste?

No solid waste will be generated from operations. However, during construction, waste materials from construction activities will be removed from the site and disposed of in accordance with applicable State and Local regulations.

EAF item B.20. Will project produce operating noise exceeding the local ambient noise levels?

Any noise associated with the construction, operation and maintenance will be limited to temporary construction activities.

EAF ITEM B.25 Approvals Required:

City, Town, Village Board

No approvals and permits are anticipated from local legislative boards.

City, Town, Village Planning Board

Site Plan review is anticipated to be required for work at the Fraser substation in the Town of Delhi, Delaware County.

City, Town Zoning Board

No approvals or permits are anticipated from the municipal Zoning Boards of Appeal.

City, County Health Department

No approvals are required from the County Health Departments.

Other Local Agencies

Local and County Highway Departments: Any temporary or permanent improvements on local or county highways for corridor access and/or transmission line crossings will require coordination with the appropriate officials and potentially permits to work on the public right-of-way. The following highway crossings have been identified:

Delaware County

- Town of Delhi:
 - County Highway 2,
 - E. Terry Clove Road

- Town of Hamden:
 - Ed Wright Road,
 - Stevens Road,
 - un-named road

- Town of Colchester
 - Coles Clove,
 - Edwards Road,
 - NYC Road,
 - Murphy Hill Road,
 - NY 206 / NY 30,
 - Holiday Brook Road

Sullivan County

- Town of Rockland:
 - Craige Clair Road
 - Burnt Hill Road
 - Amber Lake Road
 - Old Route 17

Other Regional Agencies

New York City Department of Environmental Protection (DEP)

- Review of SWPPP

Delaware River Basin Commission (DRBC)

- Water Quality (consultation with NYSDEC)

State Agencies

New York State Department of Transportation (NYSDOT)

- Highway work permit

New York State Department of Environmental Conservation (NYSDEC) will have primary jurisdiction for:

- State Pollution Discharge Elimination System (SPDES) (General Permits or Individual Permit)
- Temporary Revocable Permit for activity in the Catskill Park/Forest Preserve
- Regulated under Article 15 – Protection of Waters Program
- Wetlands- Article 24

Figure 5 depicts State and Federal forestlands and parklands in relationship to the existing transmission ROW.

State Historic Preservation Office (SHPO)

- Cultural Resources clearance

Federal Agencies

United States Army Corps of Engineers (USACE)

- Nationwide permit
- Regulated under Sections 404 of Clean Water Act (CWA)

United States Fish and Wildlife Services (USFWS)

- Consultation

EAF ITEM C. 1. Does proposed action involve a planning or zoning decision?

The reconductoring project will primarily be limited to use of existing structures on the existing cleared transmission ROW. Therefore, the reconductoring will not result in a change of use or increase in intensity and will not require a change in zoning. The proposed NYSEG series capacitor at the Fraser substation may require a Special Use Permit and would be subject to Town of Delhi Planning Board Site Plan review.

EAF item C.7. What are the predominant land use(s) and zoning classifications within a ¼ mile radius of proposed action?

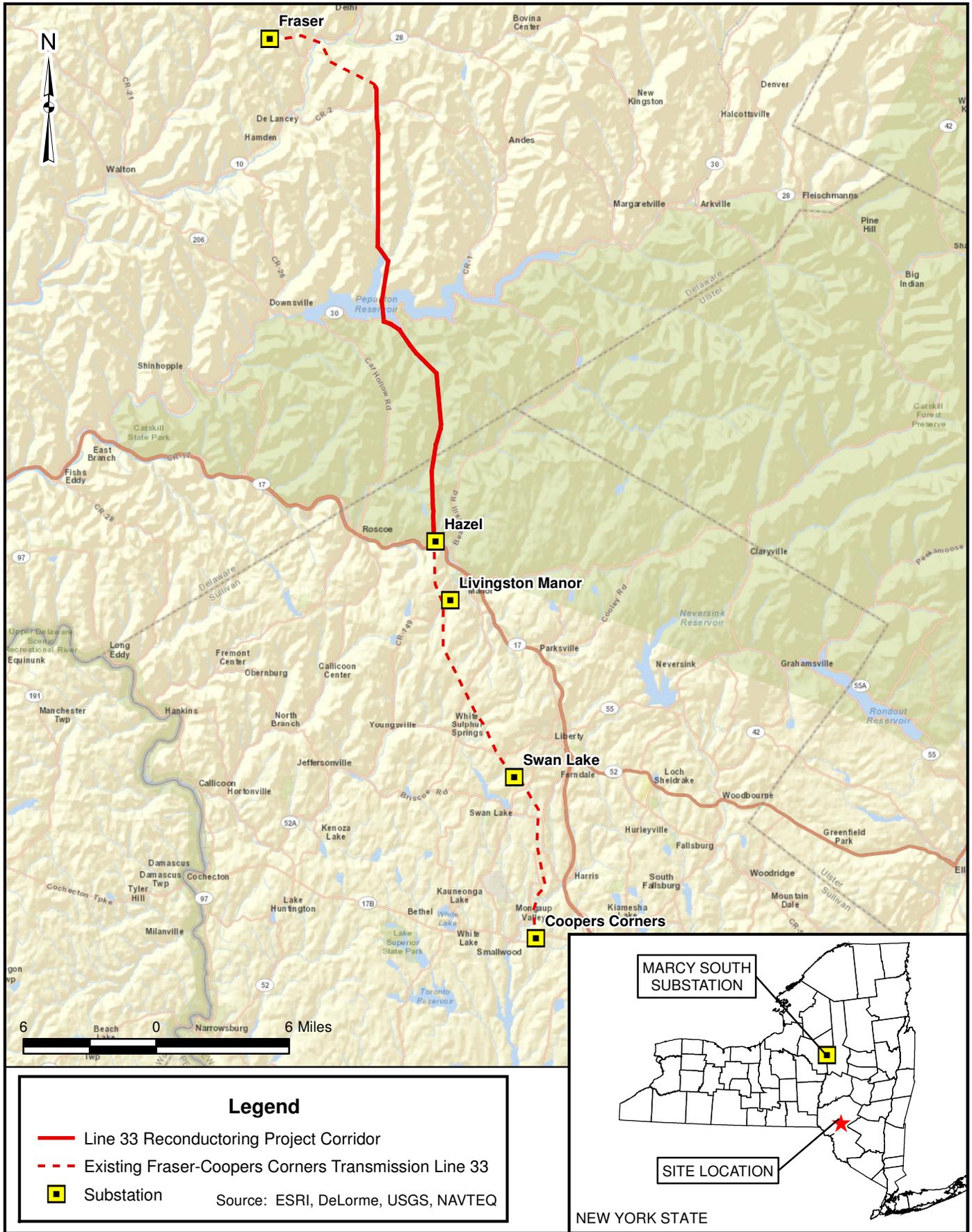
The existing land use patterns are based on available community data, and review of aerial imagery. The following land uses were identified within ¼ mile of the project ROW:

- agriculture
- commercial
- forest land
- industrial
- park land (Catskill Park/Forest Preserve)
- rural undeveloped
- rural residential
- vacant land

Attachment 2

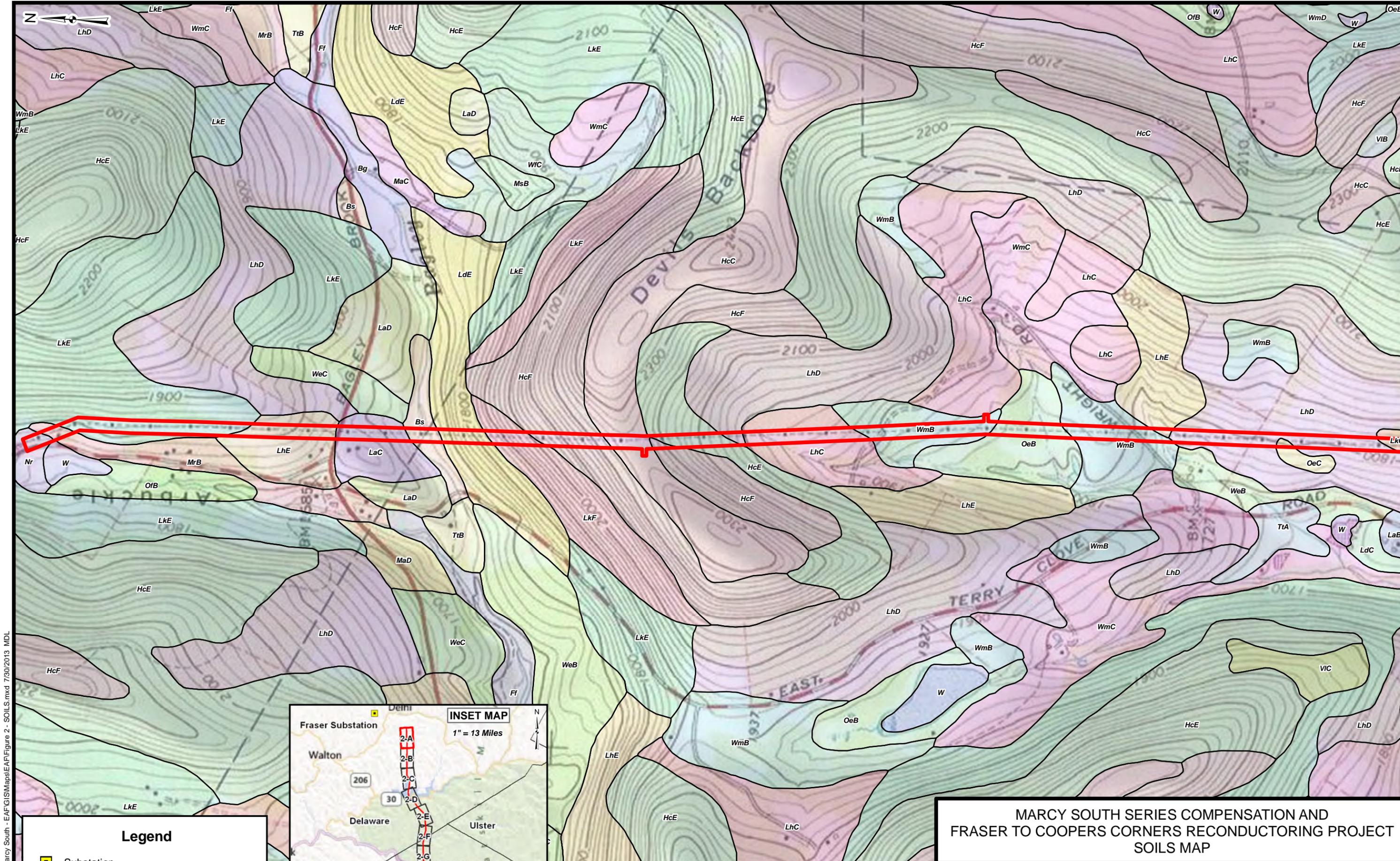
Full Environmental Assessment Form

Figures



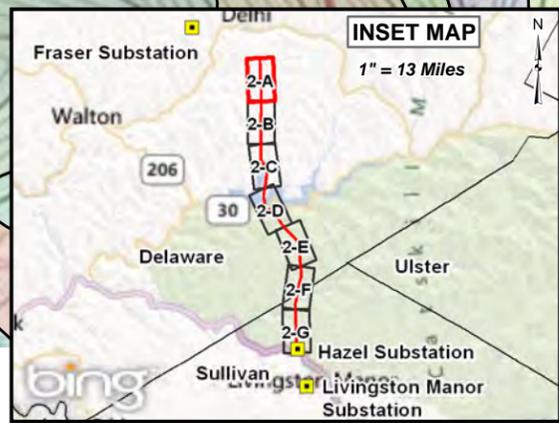
MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT SITE LOCATION

**FIGURE 1
JULY 29, 2013**



Legend

-  Substation
-  Line 33 Reconductoring Project Corridor



Source:
© 2011 National Geographic Society

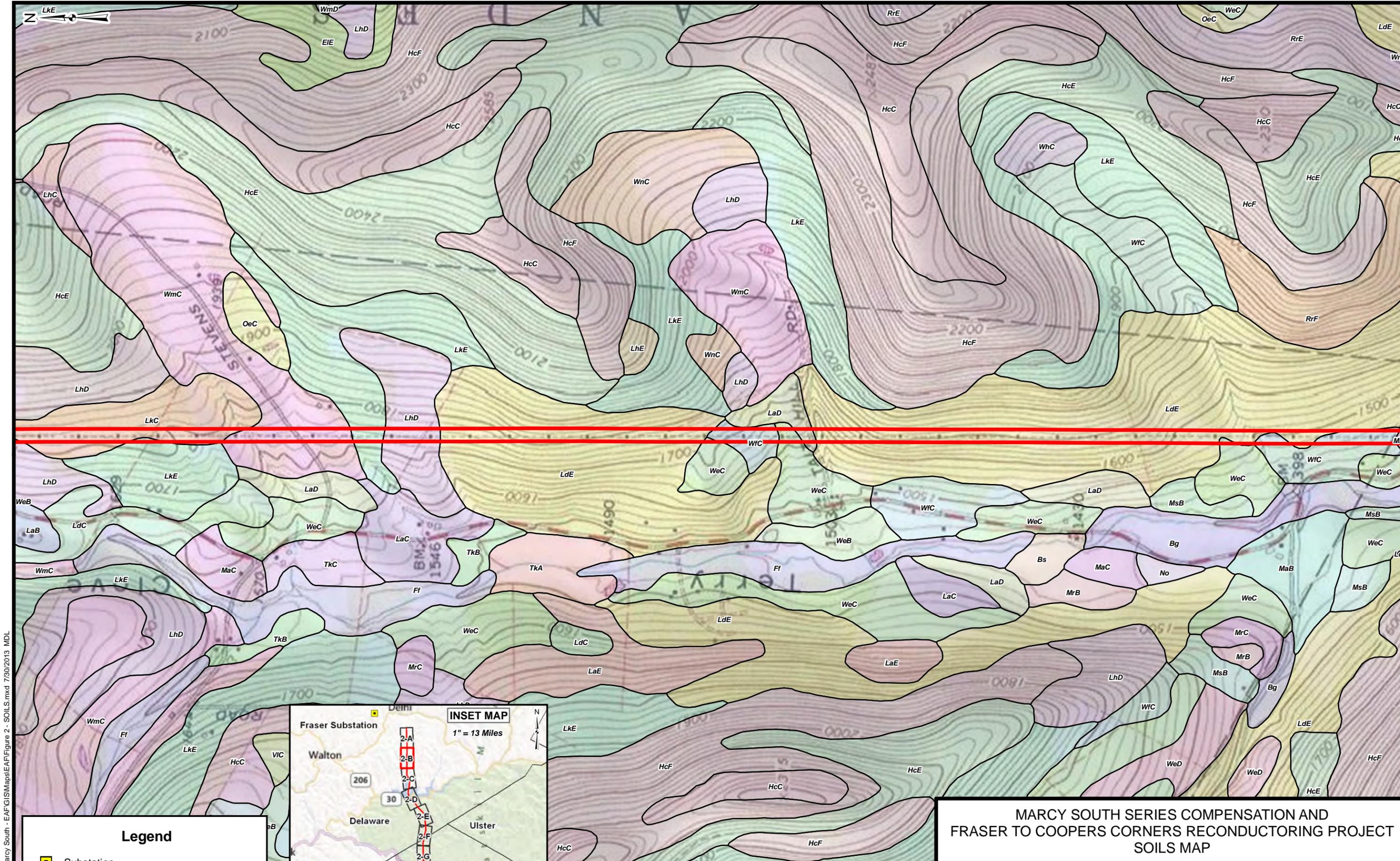


MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT SOILS MAP



FIGURE 2-A
JULY 29, 2013

I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 2 - SOILS.mxd 7/30/2013 MDL



I:\1172956\Marcy South - EAF\GIS\Maps\EA\Figure 2 - SOILS.mxd 7/30/2013 MDL

Legend

- Substation
- Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

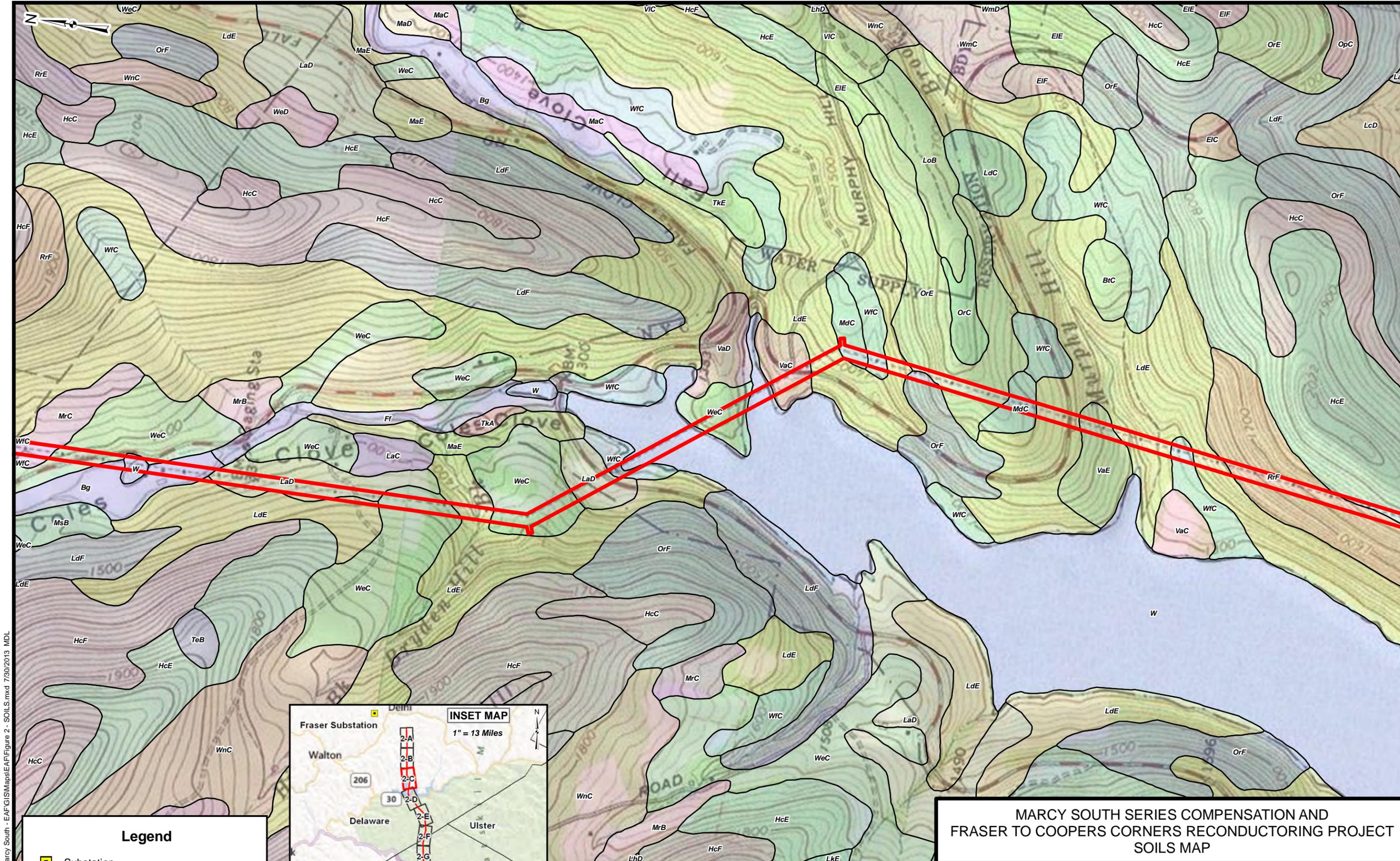
Source:
© 2011 National Geographic Society

1,000 0 1,000 Feet

**MARCY SOUTH SERIES COMPENSATION AND
FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT
SOILS MAP**



**FIGURE 2-B
JULY 29, 2013**



I:\1172956\Marcy South - EAF\GIS\Maps\EA\Figure 2 - SOILS.mxd 7/30/2013 MDL

Legend

- Substation
- Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

Source:
© 2011 National Geographic Society

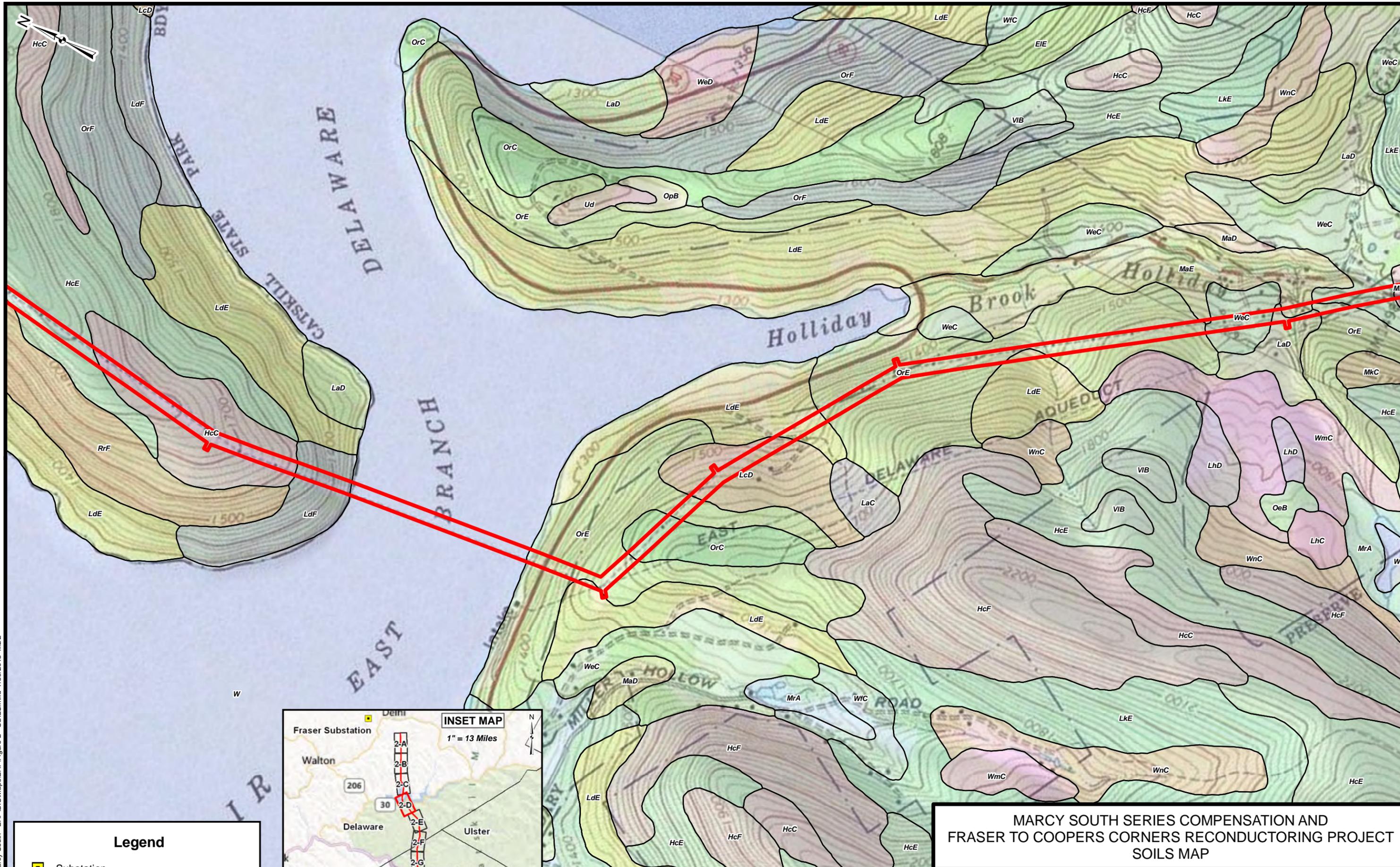
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**MARCY SOUTH SERIES COMPENSATION AND
FRASER TO COOPERS CORNERS RECONDUCTING PROJECT
SOILS MAP**



**FIGURE 2-C
JULY 29, 2013**

I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 2 - SOILS.mxd 7/30/2013 MDL



Legend

-  Substation
-  Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

Fraser Substation
Walton
Delaware
Ulster
Sullivan
Livingston Manor Substation

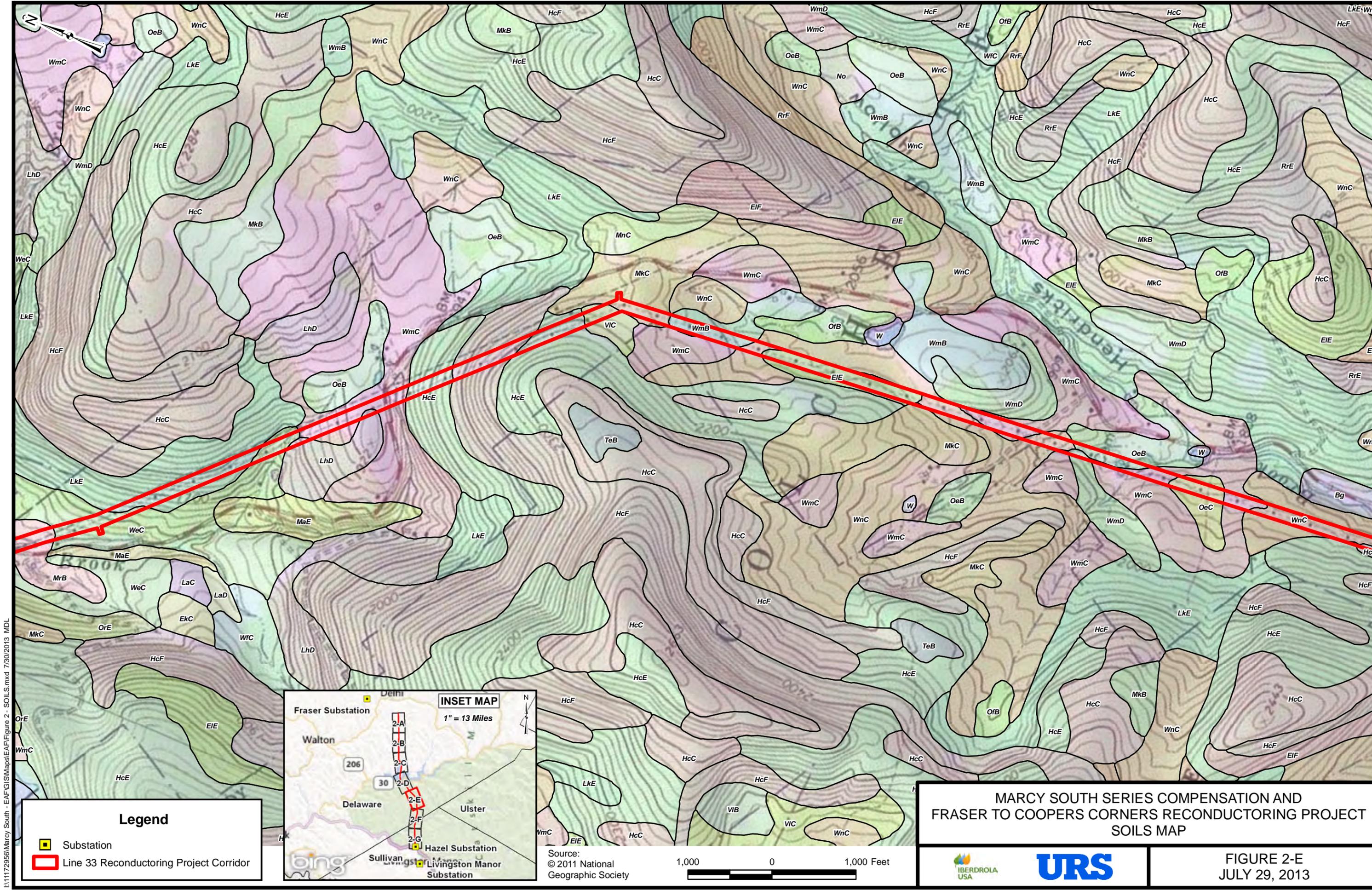
Source:
© 2011 National Geographic Society

1,000 0 1,000 Feet

MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT SOILS MAP



FIGURE 2-D
JULY 29, 2013



I:\1172956\Marcy South - EAF\GIS\Maps\EA\Figure 2 - SOILS.mxd 7/30/2013 MIDL

Legend

- Substation
- Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

Fraser Substation
Walton
Delaware
Ulster
Hazel Substation
Sullivan
Livingston Manor Substation

2-A
2-B
2-C
2-D
2-E
2-F
2-G

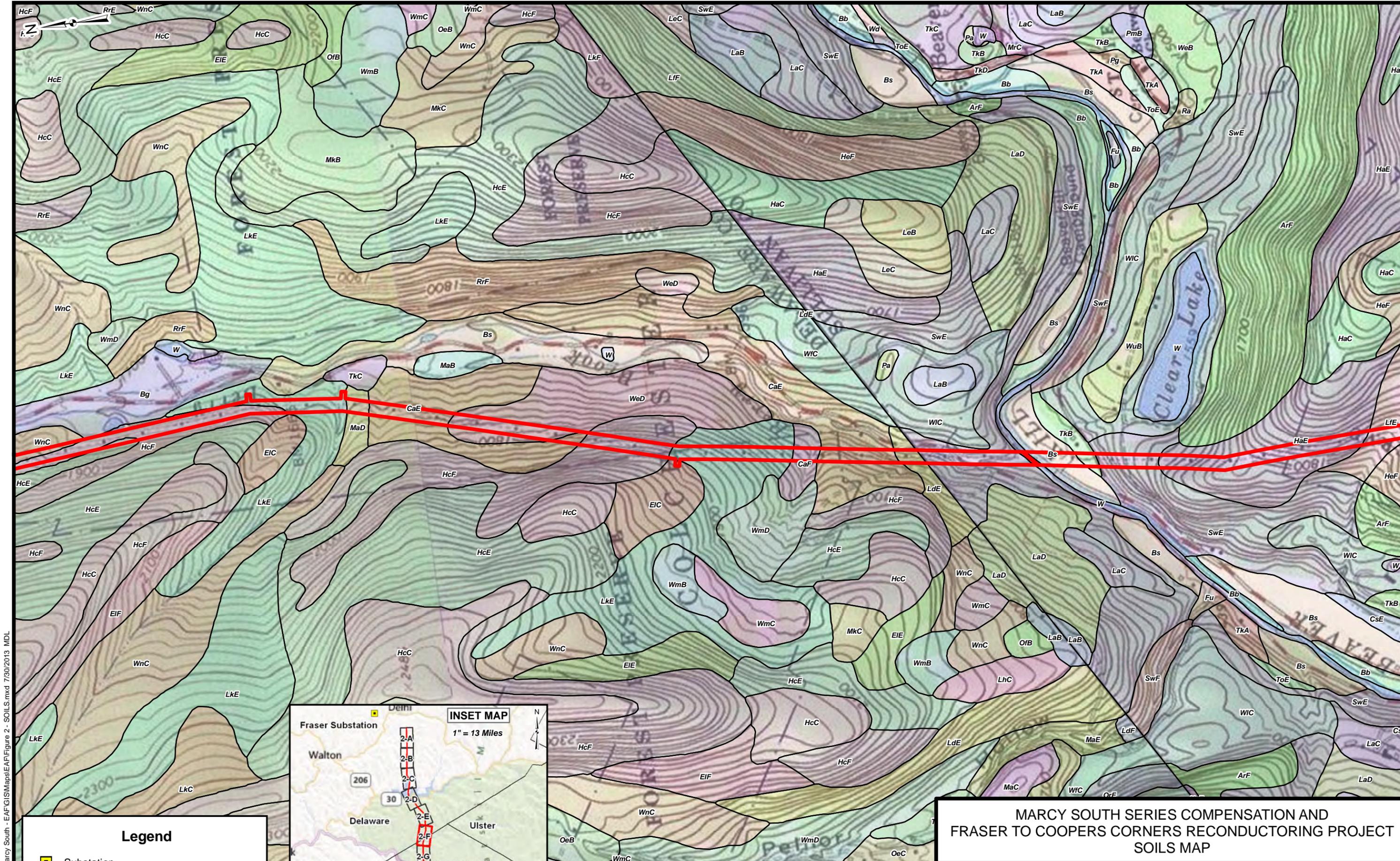
Source:
© 2011 National Geographic Society

1,000 0 1,000 Feet

MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT SOILS MAP



FIGURE 2-E
JULY 29, 2013



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Legend

-  Substation
-  Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

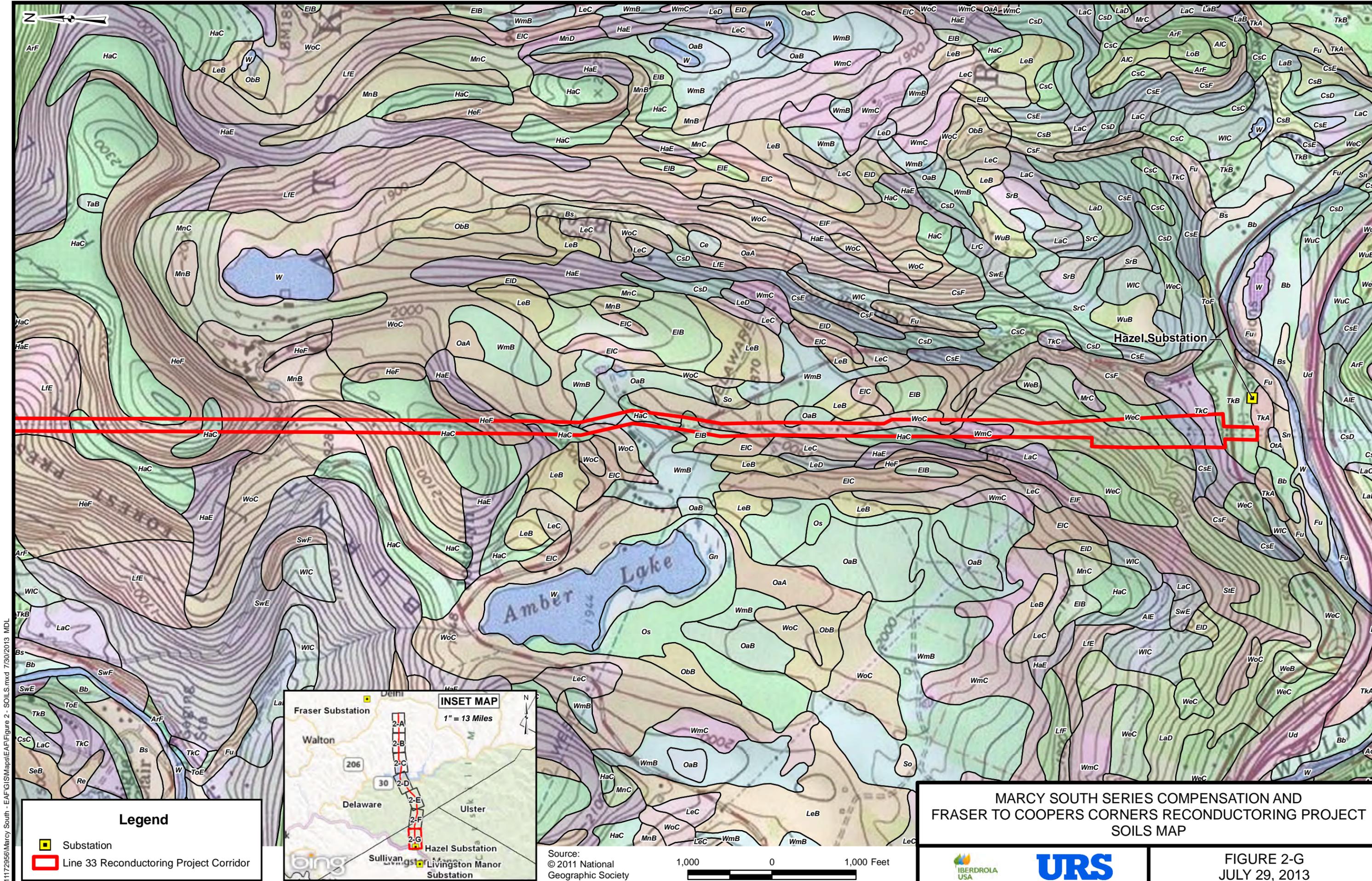
Source:
© 2011 National Geographic Society

1,000 0 1,000 Feet

MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT SOILS MAP



FIGURE 2-F
JULY 29, 2013



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Legend

- Substation
- Line 33 Reconductoring Project Corridor

INSET MAP
1" = 13 Miles

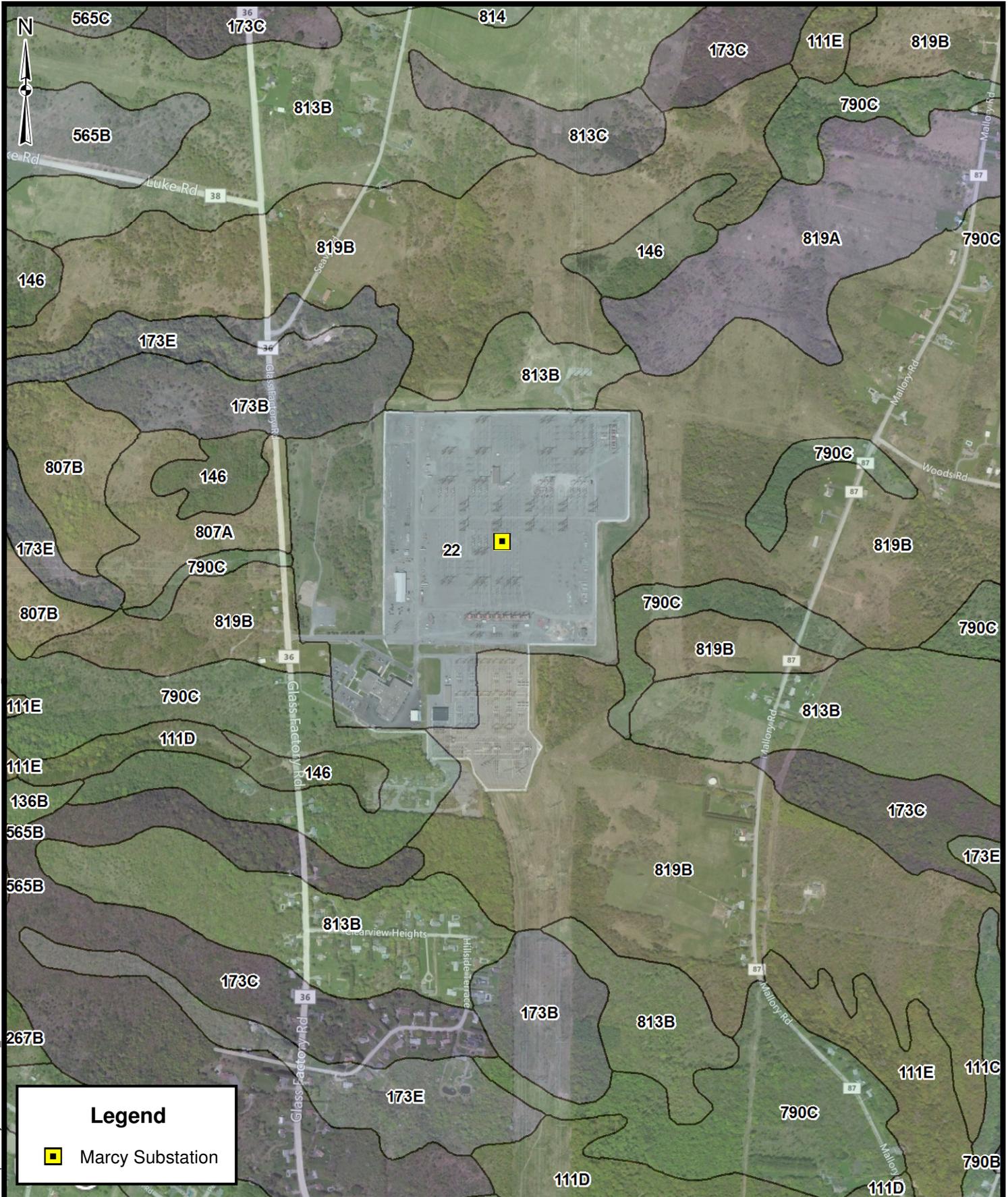
Source:
© 2011 National Geographic Society

1,000 0 1,000 Feet

MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT SOILS MAP

FIGURE 2-G
JULY 29, 2013

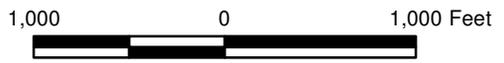
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Legend

■ Marcy Substation

SOURCES:
 Bing Maps Hybrid © 2010 Microsoft Corporation
 Soil Survey of Oneida County, 2011



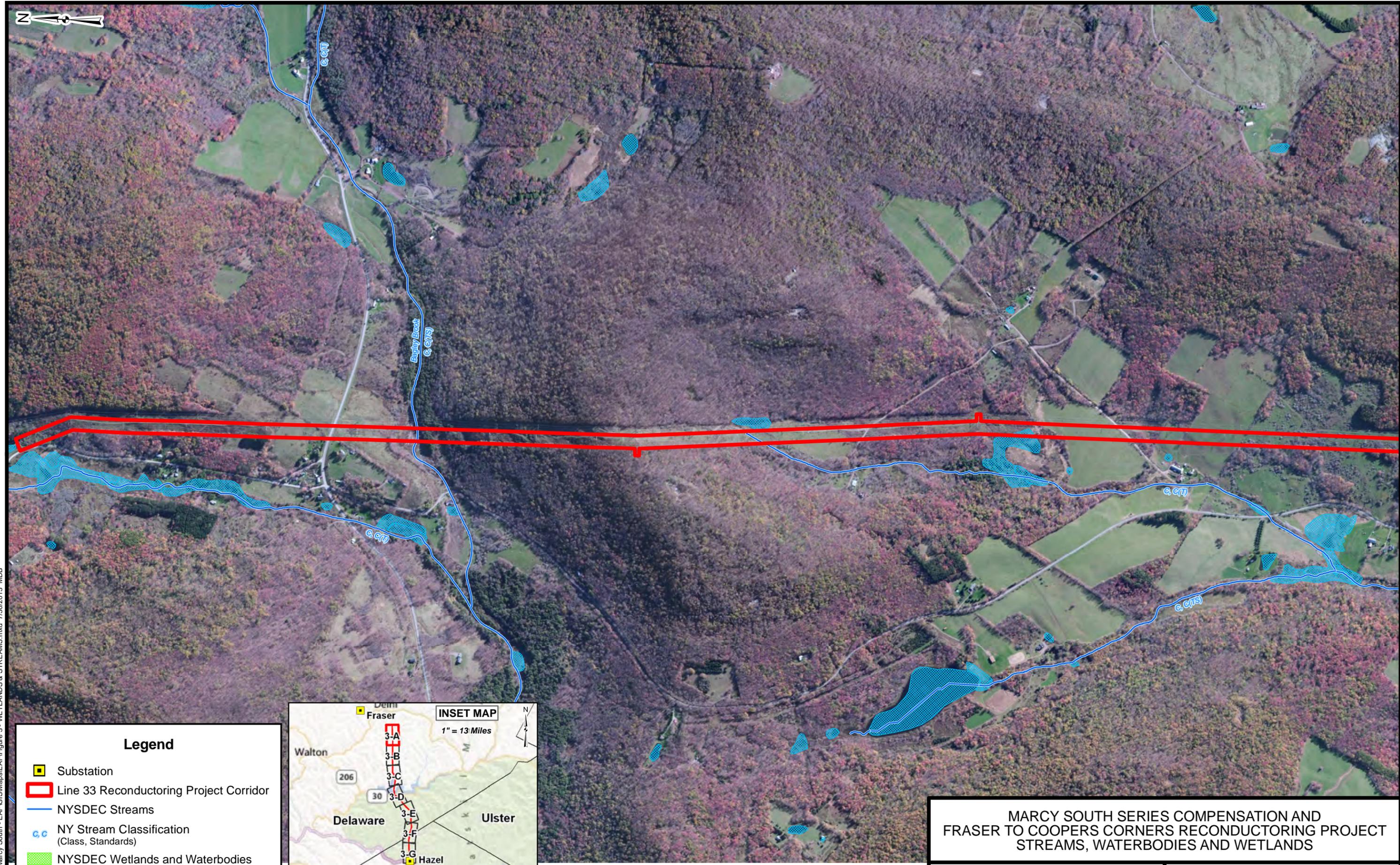
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MARCY SOUTH SERIES COMPENSATION & FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT SOILS MAP-MARCY SUBSTATION

**FIGURE 2-H
 AUGUST 16, 2013**

I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 3 - WETLANDS & STREAMS.mxd 7/30/2013 MDB



Legend

- Substation
- Line 33 Reconductoring Project Corridor
- NYSDEC Streams
- NY Stream Classification (Class, Standards)
- NYSDEC Wetlands and Waterbodies
- NWI Wetlands and Waterbodies

INSET MAP
1" = 13 Miles

Delaware Ulster

Walton

Livingston Manor Sullivan

206 30

Source: ESRI World Imagery



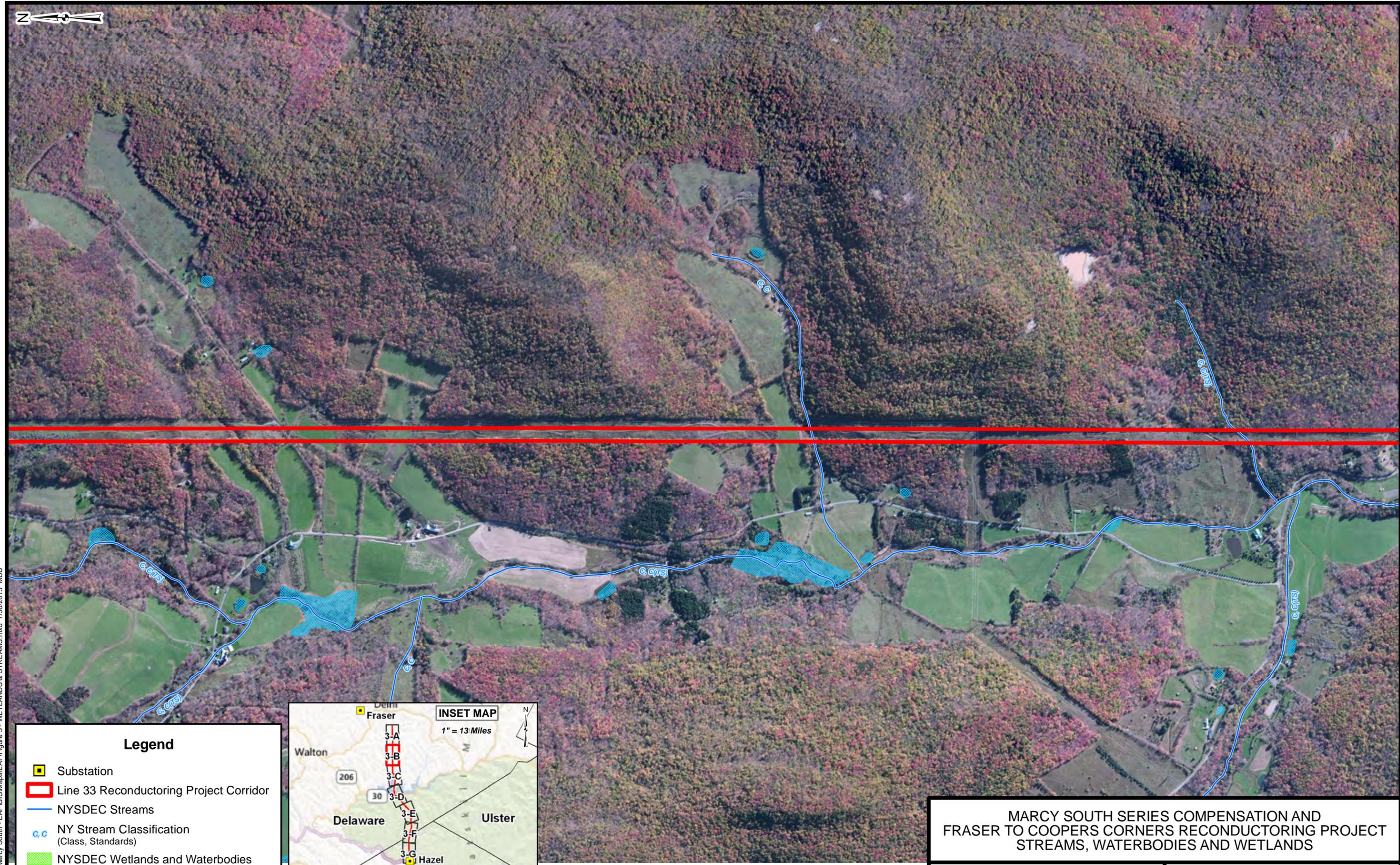
MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-A
JULY 29, 2013



I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 3 - WETLANDS & STREAMS.mxd 7/30/2013 MDB



Legend

-  Substation
-  Line 33 Reconducting Project Corridor
-  NYSDEC Streams
-  NY Stream Classification (Class, Standards)
-  NYSDEC Wetlands and Waterbodies
-  NWI Wetlands and Waterbodies



Source: ESRI World Imagery

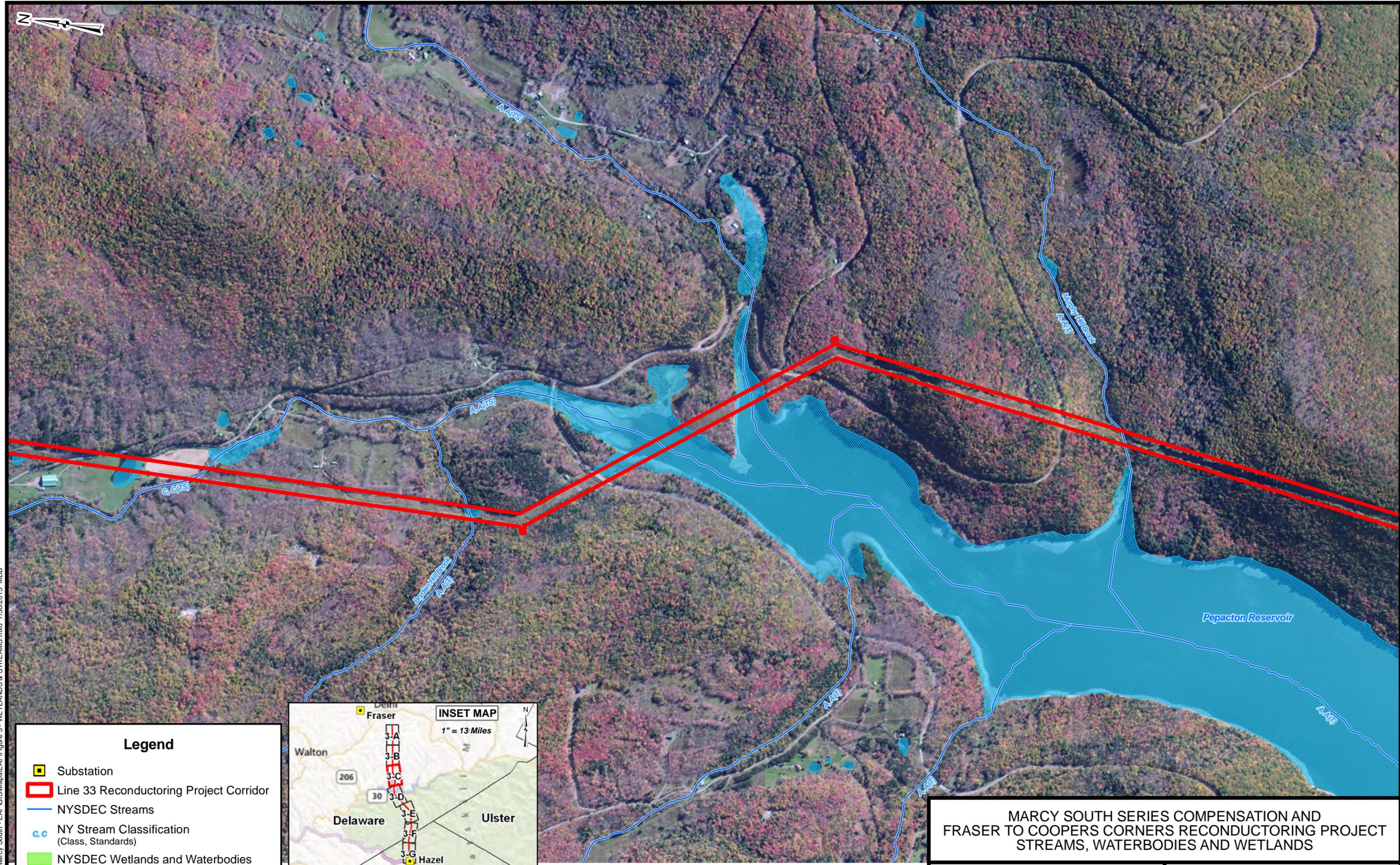


MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-B
JULY 29, 2013

I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 3 - WETLANDS & STREAMS.mxd 7/30/2013 MDB



Legend

- Substation
- Line 33 Reconductoring Project Corridor
- NYSDEC Streams
- NY Stream Classification (Class, Standards)
- NYSDEC Wetlands and Waterbodies
- NWI Wetlands and Waterbodies

INSET MAP
1" = 13 Miles

Walton
206
30
3-A
3-B
3-C
3-D
3-E
3-F
3-G
Delaware
Ulster
Livingston Manor
Sullivan
Fraser
Hazel

Source: ESRI World Imagery

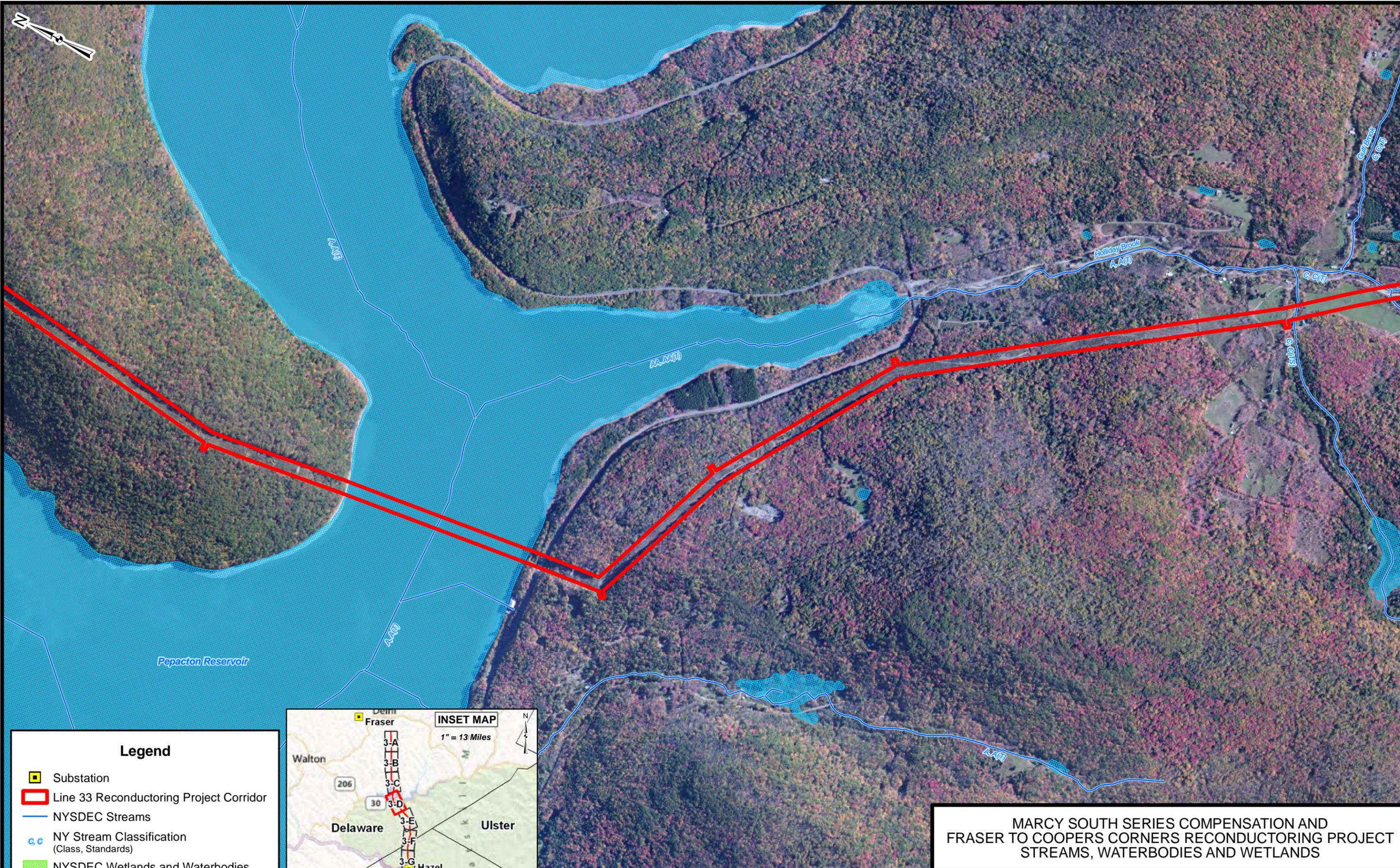


MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-C
JULY 29, 2013

I:\1172956\Marcy South - EAF\GIS\Maps\EAF\Figure 3 - WETLANDS & STREAMS.mxd 7/30/2013 MDB



Legend

- Substation
- Line 33 Reconductoring Project Corridor
- NYSDEC Streams
- NY Stream Classification (Class, Standards)
- NYSDEC Wetlands and Waterbodies
- NWI Wetlands and Waterbodies



Source: ESRI World Imagery

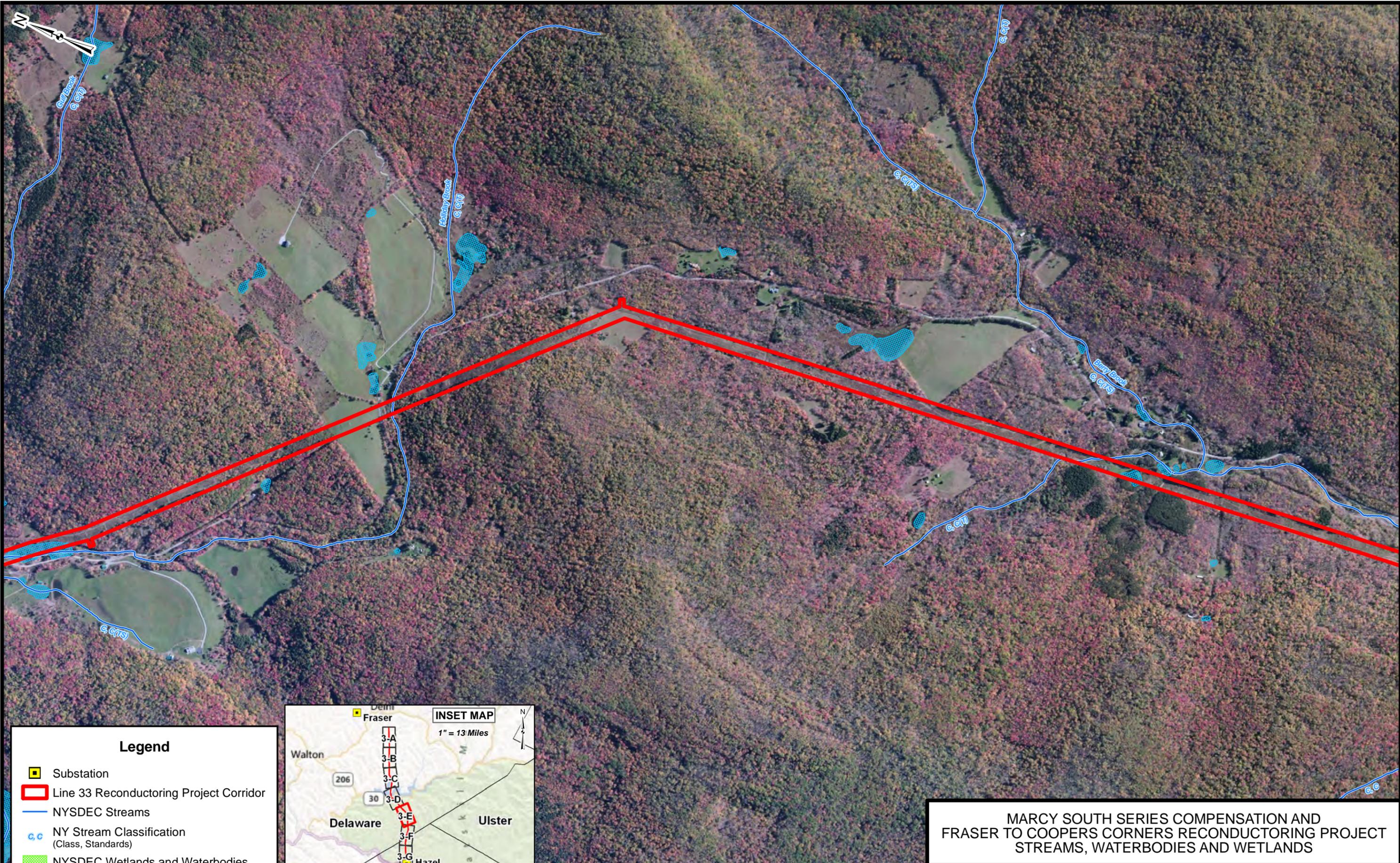


**MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT
STREAMS, WATERBODIES AND WETLANDS**



**FIGURE 3-D
JULY 29, 2013**

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Legend

- Substation
- Line 33 Reconductoring Project Corridor
- NYSDEC Streams
- NY Stream Classification (Class, Standards)
- NYSDEC Wetlands and Waterbodies
- NWI Wetlands and Waterbodies

INSET MAP
1" = 13 Miles

Source: ESRI World Imagery



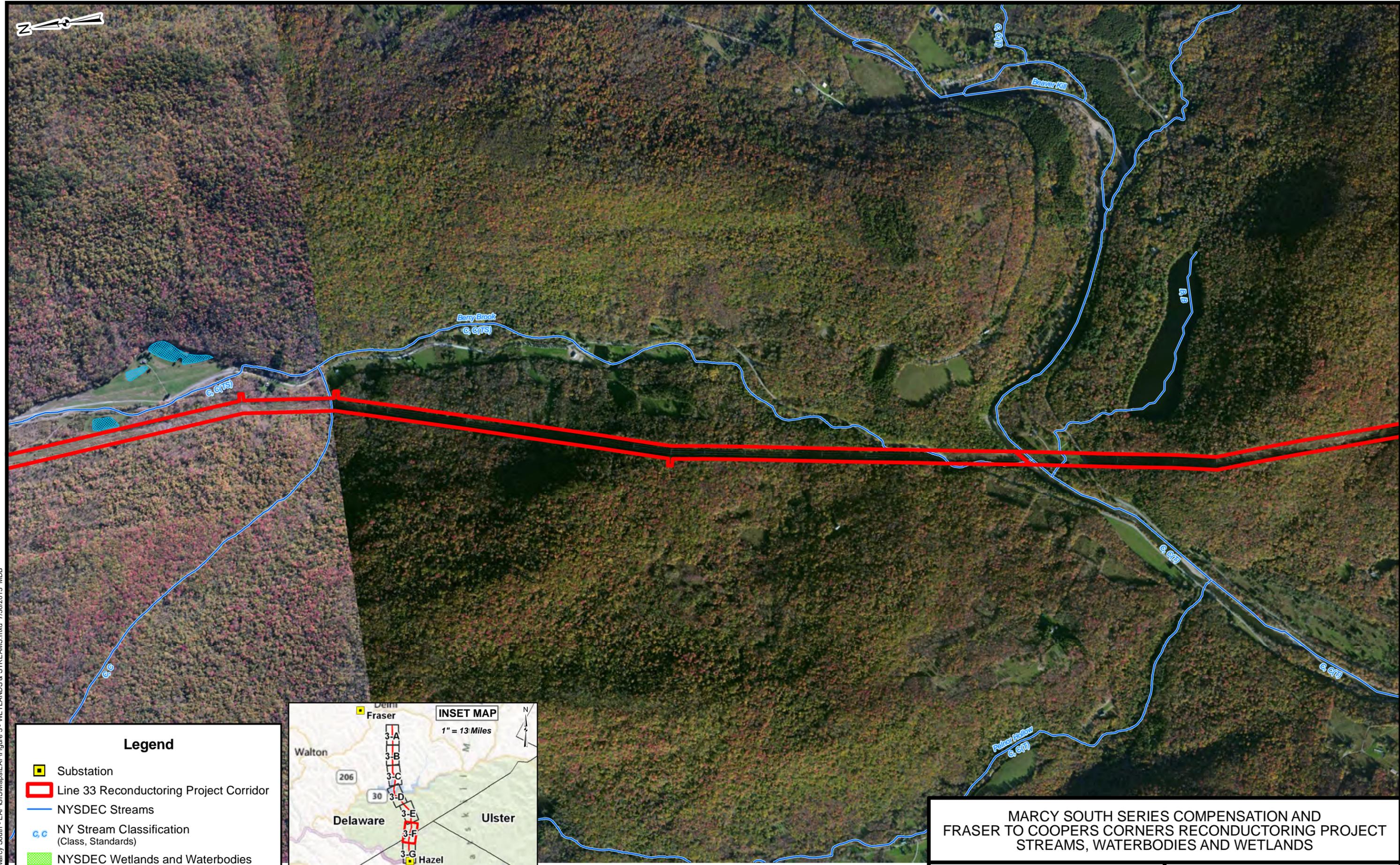
MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-E
JULY 29, 2013



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Legend

-  Substation
-  Line 33 Reconstructing Project Corridor
-  NYSDEC Streams
-  NY Stream Classification (Class, Standards)
-  NYSDEC Wetlands and Waterbodies
-  NWI Wetlands and Waterbodies



Source: ESRI World Imagery



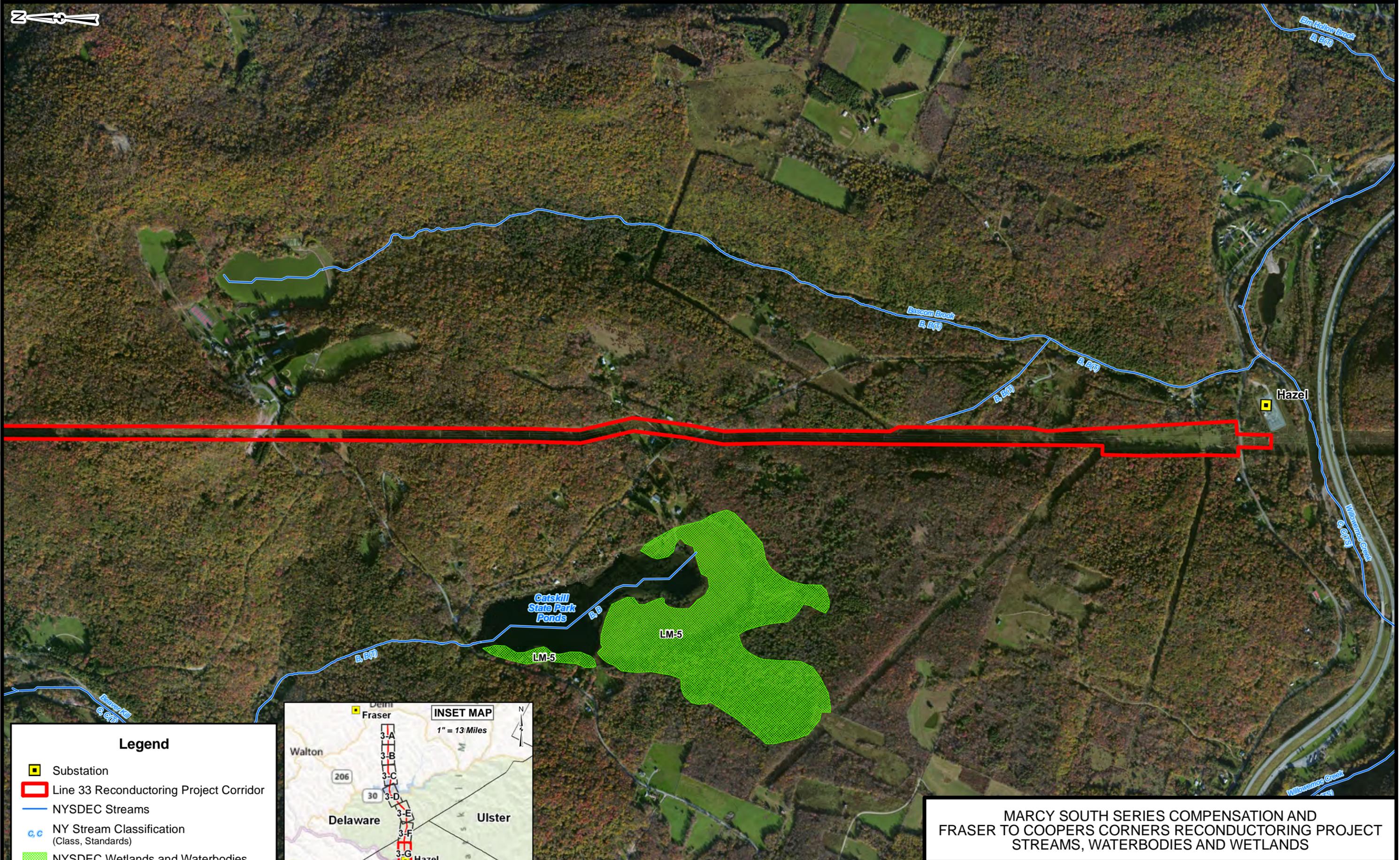
MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONSTRUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-F
JULY 29, 2013



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Legend

- Substation
- Line 33 Reconductoring Project Corridor
- NYSDEC Streams
- NY Stream Classification (Class, Standards)
- NYSDEC Wetlands and Waterbodies
- NWI Wetlands and Waterbodies



Source: ESRI World Imagery



MARCY SOUTH SERIES COMPENSATION AND FRASER TO COOPERS CORNERS RECONDUCTING PROJECT STREAMS, WATERBODIES AND WETLANDS



FIGURE 3-G
JULY 29, 2013

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Legend

- Marcy Substation
- Stream (Class, Standard)
- State Freshwater Wetlands (None Found)

SOURCES:
 Bing Maps Hybrid © 2010 Microsoft Corporation
 NYS Dept. of Environmental Conservation

NOTE:
 National Wetland Inventory (NWI) maps
 are not available for Oneida County

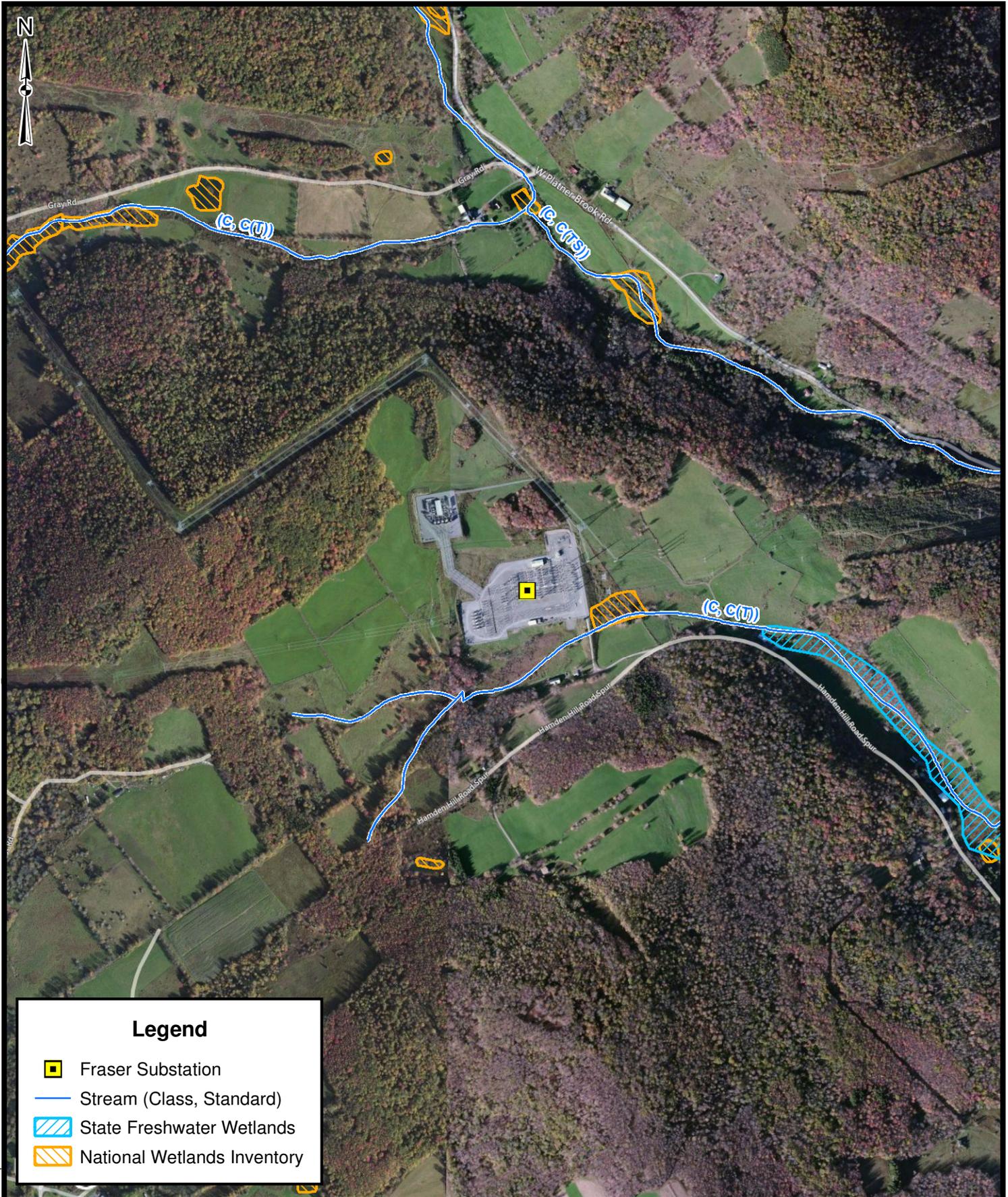


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**MARCY SOUTH SERIES COMPENSATION & FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT
 STREAMS & WETLANDS-MARCY SUBSTATION**

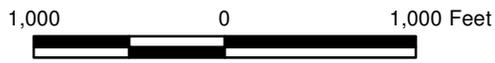
**FIGURE 3-H
 AUGUST 16, 2013**



Legend

-  Fraser Substation
-  Stream (Class, Standard)
-  State Freshwater Wetlands
-  National Wetlands Inventory

SOURCES:
 Bing Maps Hybrid © 2010 Microsoft Corporation
 NYS Dept. of Environmental Conservation
 US Fish and Wildlife Service

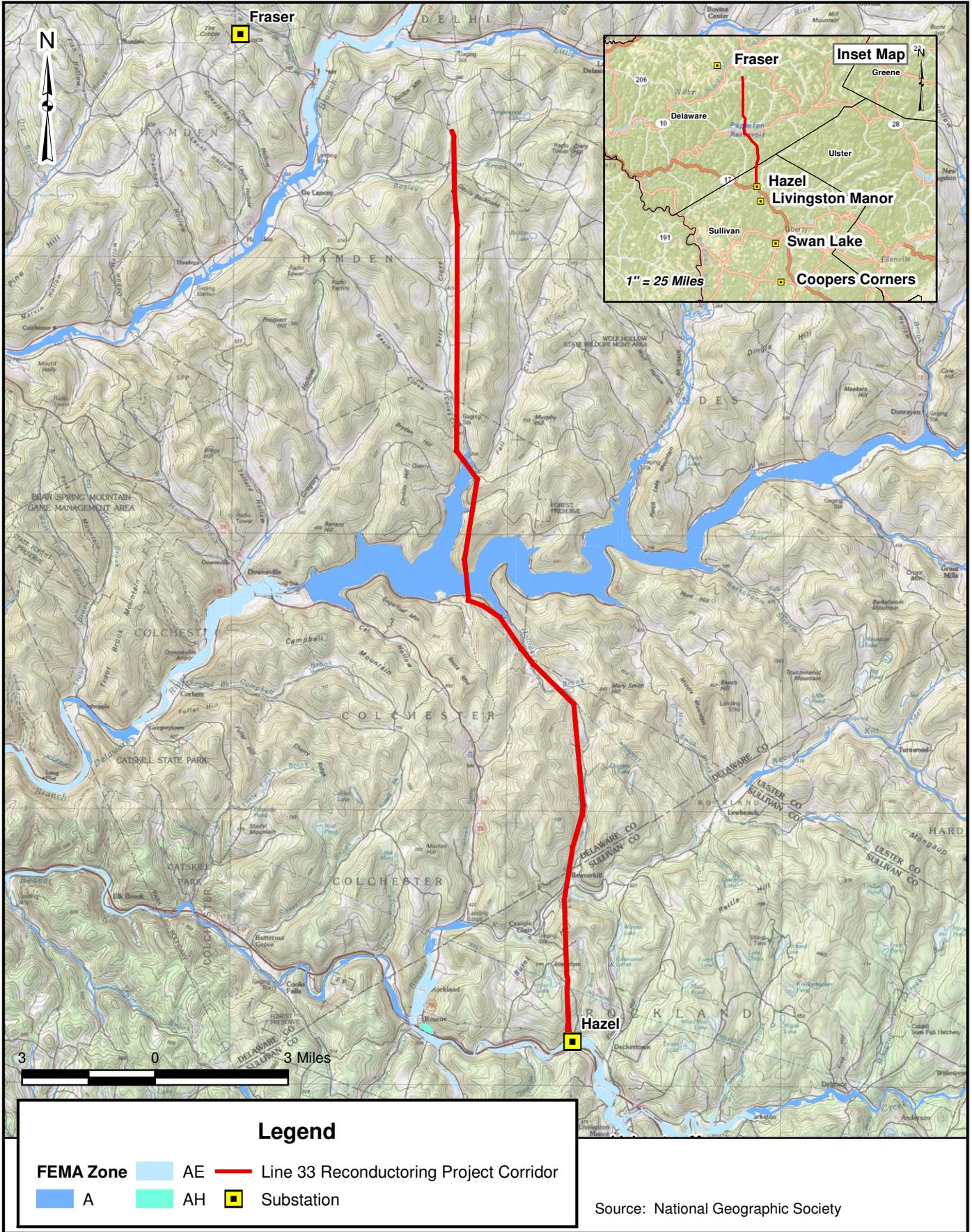


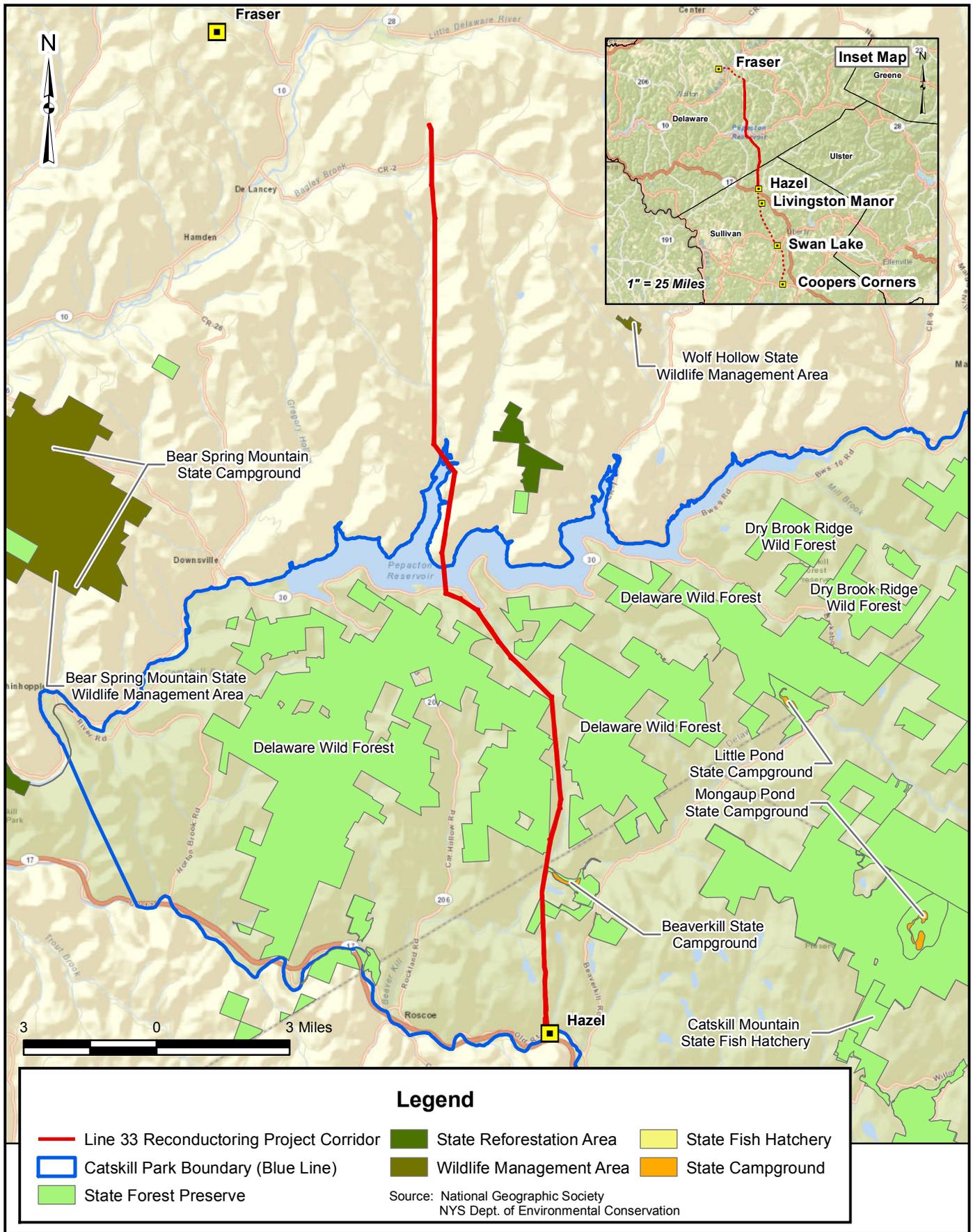
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**MARCY SOUTH SERIES COMPENSATION & FRASER TO COOPERS CORNERS RECONDUCTORING PROJECT
 STREAMS & WETLANDS-FRASER SUBSTATION**

**FIGURE 3-1
 AUGUST 16, 2013**





Attachment 3

Full Environmental Assessment Form

Table

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TABLE 1- SOILS

Map Unit Symbol	Acres along project corridor	Drainage Class-Dominant Condition	NYS Land Classification System	Map Unit Name	Depth to Bedrock-Minimum	Depth-Annual-Minimum	Hydric Classification Presence
Bg	2.79625785285	Well drained	2	Barbour-Trestle complex	n.a.	137	Partially hydric
Bs	3.14293603266	Somewhat poorly drained	5	Bash silt loam	n.a.	31	Partially hydric
CaE	7.14967250383	Well drained	10	Cadosia extremely channery loam, 15 to 35 percent slopes, very bouldery	n.a.	n.a.	Not hydric
CaF	1.04814900106	Well drained	10	Cadosia extremely channery loam, 35 to 70 percent slopes, very bouldery	n.a.	n.a.	Not hydric
CsE	2.14614410001	Well drained	8	Cheshire channery loam, 25 to 35 percent slopes, stony	n.a.	n.a.	Not hydric
CsF	0.00059719210	Well drained	9	Cheshire channery loam, 35 to 60 percent slopes, stony	n.a.	n.a.	Not hydric
EIB	1.46349317893	Well drained	4	Elka loam, 3 to 8 percent slopes, bouldery	n.a.	n.a.	Not hydric
EIC	0.35967734382	Well drained	8	Elka-Vly channery silt loams, 3 to 15 percent slopes, very stony	79	n.a.	Unknown
EIE	6.45766621835	Well drained	8	Elka-Vly channery silt loams, 15 to 35 percent slopes, very stony	79	n.a.	Unknown
HaC	10.17791737970	Moderately well drained	8	Hawksnest-Mongaup loams, strongly sloping, very rocky	46	n.a.	Unknown
HaE	8.73789669728	Moderately well drained	8	Hawksnest-Mongaup loams, steep, very rocky	46	n.a.	Unknown
HcC	11.15923479830	Somewhat excessively drained	8	Halcott, Mongaup, and Vly soils, 2 to 15 percent slopes, very rocky	46	n.a.	Unknown
HcE	13.29562197790	Somewhat excessively drained	8	Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky	46	n.a.	Unknown
HcF	18.93059325770	Somewhat excessively drained	9	Halcott, Mongaup, and Vly soils, 35 to 70 percent slopes, very rocky	46	n.a.	Unknown
HeF	10.78630534800	n.a.	6	Hawksnest-Mongaup-Rock outcrop complex, very steep	0	n.a.	Unknown
LaC	2.87942772026	Well drained	6	Lackawanna flaggy silt loam, 8 to 15 percent slopes	n.a.	56	Unknown
LaD	18.24510270070	Well drained	7	Lackawanna flaggy silt loam, 15 to 25 percent slopes	n.a.	56	Unknown
LcD	4.38607996523	Well drained	7	Lackawanna-Morris complex, 15 to 35 percent slopes, very stony	n.a.	20	Unknown
LdE	46.05936098970	Well drained	8	Lackawanna and Bath soils, 15 to 35 percent slopes, very stony	n.a.	50	Not hydric
LdF	2.30300542979	Well drained	9	Lackawanna and Bath soils, 35 to 55 percent slopes, very stony	n.a.	50	Not hydric
LfE	3.93364848177	Well drained	8	Lewbeach silt loam, steep, very stony	n.a.	71	Not hydric
LhC	4.71317833784	Well drained	6	Lewbeach channery loam, 8 to 15 percent slopes	n.a.	46	Unknown
LhD	11.75357098810	Well drained	7	Lewbeach channery loam, 15 to 25 percent slopes	n.a.	46	Unknown
LhE	4.09345724055	Well drained	8	Lewbeach channery loam, 25 to 40 percent slopes	n.a.	46	Unknown
LkC	8.70397332695	Well drained	8	Lewbeach and Lewbath soils, 3 to 15 percent slopes, very stony	n.a.	46	Not hydric
LkE	22.87073694780	Well drained	8	Lewbeach and Lewbath soils, 15 to 35 percent slopes, very stony	n.a.	46	Not hydric
LkF	1.89870673131	Well drained	9	Lewbeach and Lewbath soils, 35 to 55 percent slopes, very stony	n.a.	46	Not hydric
MaD	0.91637602807	Well drained	6	Maplecrest gravelly silt loam, 15 to 25 percent slopes	n.a.	n.a.	Unknown
MaE	0.95053288291	Well drained	7	Maplecrest gravelly silt loam, 25 to 60 percent slopes	n.a.	n.a.	Not hydric
MdC	2.46972757057	Moderately well drained	6	Mardin channery silt loam, 8 to 15 percent slopes	n.a.	40	Unknown
MkC	2.35692946644	Moderately well drained	6	Middlebrook-Mongaup complex, 8 to 15 percent slopes	71	38	Unknown
MrB	2.88223198508	Somewhat poorly drained	6	Morris flaggy silt loam, 3 to 8 percent slopes	n.a.	20	Partially hydric
MrC	1.65732199758	Somewhat poorly drained	7	Morris flaggy silt loam, 8 to 15 percent slopes	n.a.	20	Partially hydric
Nr	0.97874873677	Poorly drained	8	Norchip silt loam, very stony	n.a.	2	Partially hydric
OaB	1.20297266322	Somewhat poorly drained	7	Onteora loam, 3 to 8 percent slopes	n.a.	18	Partially hydric
OeC	2.53391876196	Somewhat poorly drained	8	Onteora channery silt loam, 8 to 15 percent slopes	n.a.	23	Partially hydric
OrC	2.31463664335	Well drained	8	Oquaga, Lordstown, and Arnot soils, 2 to 15 percent slopes, very rocky	43	n.a.	Unknown
OrE	25.04317888180	Well drained	8	Oquaga, Lordstown, and Arnot soils, 15 to 35 percent slopes, very rocky	43	n.a.	Unknown
OrF	0.69563252181	Well drained	9	Oquaga, Lordstown, and Arnot soils, 35 to 70 percent slopes, very rocky	43	n.a.	Unknown
RrF	6.32379666422	Well drained	9	Rockrift channery loam, 35 to 70 percent slopes, very bouldery	n.a.	n.a.	Not hydric

Map Unit Symbol	Acres along project corridor	Drainage Class-Dominant Condition	NYS Land Classification System	Map Unit Name	Depth to Bedrock-Minimum	Depth-Annual-Minimum	Hydric Classification Presence
SwE	6.68179716792	Well drained	8	Swartwood and Lackawanna soils, steep, very stony	n.a.	56	Not hydric
TkA	0.04539148068	Well drained	3	Tunkhannock gravelly loam, 0 to 3 percent slopes	n.a.	n.a.	Not hydric
TkB	2.59764471257	Well drained	3	Tunkhannock gravelly loam, 3 to 8 percent slopes	n.a.	n.a.	Not hydric
TkC	1.97058862442	Well drained	5	Tunkhannock gravelly loam, 8 to 15 percent slopes	n.a.	n.a.	Not hydric
VaC	1.77455245051	Well drained	5	Valois very fine sandy loam, 8 to 15 percent slopes	n.a.	n.a.	Not hydric
VaE	1.56262317466	Well drained	8	Valois very fine sandy loam, 25 to 60 percent slopes	n.a.	n.a.	Not hydric
VIC	1.31183981805	Somewhat excessively drained	6	Vly channery silt loam, 8 to 15 percent slopes	79	n.a.	Not hydric
W	13.15605370700	n.a.	10	Water	n.a.	n.a.	Unknown
WeC	26.63975933750	Moderately well drained	6	Wellsboro channery silt loam, 8 to 15 percent slopes	n.a.	38	Unknown
WeD	4.66713667065	Moderately well drained	7	Wellsboro channery silt loam, 15 to 25 percent slopes	n.a.	38	Unknown
WfC	8.82585337603	Moderately well drained	8	Wellsboro and Mardin soils, 2 to 15 percent slopes, very stony	n.a.	38	Not hydric
WmB	13.16975522550	Moderately well drained	4	Willowemoc channery silt loam, 3 to 8 percent slopes	n.a.	43	Unknown
WmC	17.57155629200	Moderately well drained	6	Willowemoc channery silt loam, 8 to 15 percent slopes	n.a.	43	Unknown
WmD	0.44114521105	Moderately well drained	8	Willowemoc channery silt loam, 15 to 25 percent slopes	n.a.	43	Unknown
WnC	10.44548574470	Moderately well drained	8	Willowemoc and Willdin soils, 2 to 15 percent slopes, very stony	n.a.	43	Unknown
WoC	12.42202754550	Moderately well drained	6	Willowemoc silt loam, strongly sloping, very stony	n.a.	50	Unknown