

**EARLY NOTICE AND PUBLIC EXPLANATION OF  
A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND**

**TOWN OF UNION BRIXIUS CREEK STREAM BANK RESTORATION PROJECT  
BROOME COUNTY, NY**

**TOWN OF UNION PATTERSON CREEK STREAM BANK RESTORATION PROJECT  
BROOME COUNTY, NY**

Thomas King, Assistant General Counsel and Certifying Officer Governor's  
Office of Storm Recovery  
99 Washington Avenue, Suite 1224  
Albany, NY 12260

**NOTIFICATION OF ACTIVITY IN A FLOODPLAIN**

To: All interested Agencies, Groups, and Individuals

This is to give notice that the Governor's Office of Storm Recovery (GOSR) is conducting an evaluation as required by Executive Order 11988 and Executive Order 11990 in accordance with U.S. Department of Housing and Urban Renewal (HUD) regulations under 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands, to determine the potential effects that its activities in the floodplain and wetland would have on the human environment.

**Brixius Creek Stream Bank Restoration**

During Hurricane Irene and Tropical Storm Lee, excessive rainfall led to flash flooding that caused the banks of the Brixius Creek to erode. The creek is in need of repair in order to increase resiliency in key areas of the creek. Bank stabilization and erosion control are required in order for the Town and residents living along the creek to recover. The proposed improvements will help mitigate damage caused by flooding in future storm events, while stabilizing stream banks, reducing erosion and decreasing sediment deposit downstream.

The project involves the placement of heavy stacked stone to mitigate soil erosion along approximately 790 feet of Brixius Creek beginning east of Christopher Street and ending at the western edge of N. McKinley Avenue. Three specific sections have been selected as areas where restoration efforts will be made. Improvements to the stream banks include the placement of stone fill, the construction of earth berms, and the construction of stone check dams. Work includes the construction of a 900 cubic foot debris basin with stone weirs. Also work is to include cleaning the invert of two road crossing culverts (approximately 250 lineal feet). The project involves 0.06 acres located in the floodplain, within the Village of Endicott.

**Patterson Creek Stream Bank Restoration**

During Hurricane Irene and Tropical Storm Lee, excessive rainfall led to flash flooding that caused the banks of the Patterson Creek to erode. The creek is in need of repair in order to increase resiliency in key areas of the creek. Bank stabilization and erosion control are required in order for the Town and residents living along the creek to recover. The proposed improvements will help mitigate damage caused by flooding in future storm events, while stabilizing stream banks,

reducing erosion and decreasing sediment deposit downstream.

The project involves the construction of a doweled stacked stone wall to a height above the 100 year event or equal to the adjoining backyard and grassed slope above that, within an approximate 205 foot long section of Patterson Creek, beginning 85 feet north of Watson Boulevard. Work in this section also includes the removal of three trees, removal of a low hanging branch which extends into the stream channel and acts as a debris catch, and the removal of un-vegetated gravel bars along the length of the new wall to 6 inches above the water's elevation at time of construction. The second section of Patterson Creek selected for improvements is approximately 650 feet in length, beginning 200 feet north of Smith Drive. Work in this section involves the construction of a doweled stacked stone wall to a height above the 100 year event or equal to the adjoining backyard and grassed slope above that. Work in this section also includes the removal of a failing retaining wall, as well as four trees and a piece of existing concrete sitting in the stream. The project involves 0.9 acres located in the floodplain.

Funding for the projects will be provided by the HUD Community Development Block Grant – Disaster Recovery (CDBG-DR) program for storm recovery activities in New York State.

A floodplains map based on the FEMA Base Flood Elevation Maps and wetlands maps based on the National Wetland Inventory and New York State Department of Environmental Conservation (NYSDEC) data have been prepared for these projects and are available for review at <http://www.stormrecovery.ny.gov/environmental-docs>.

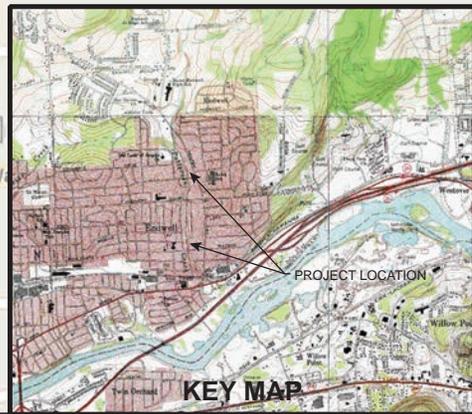
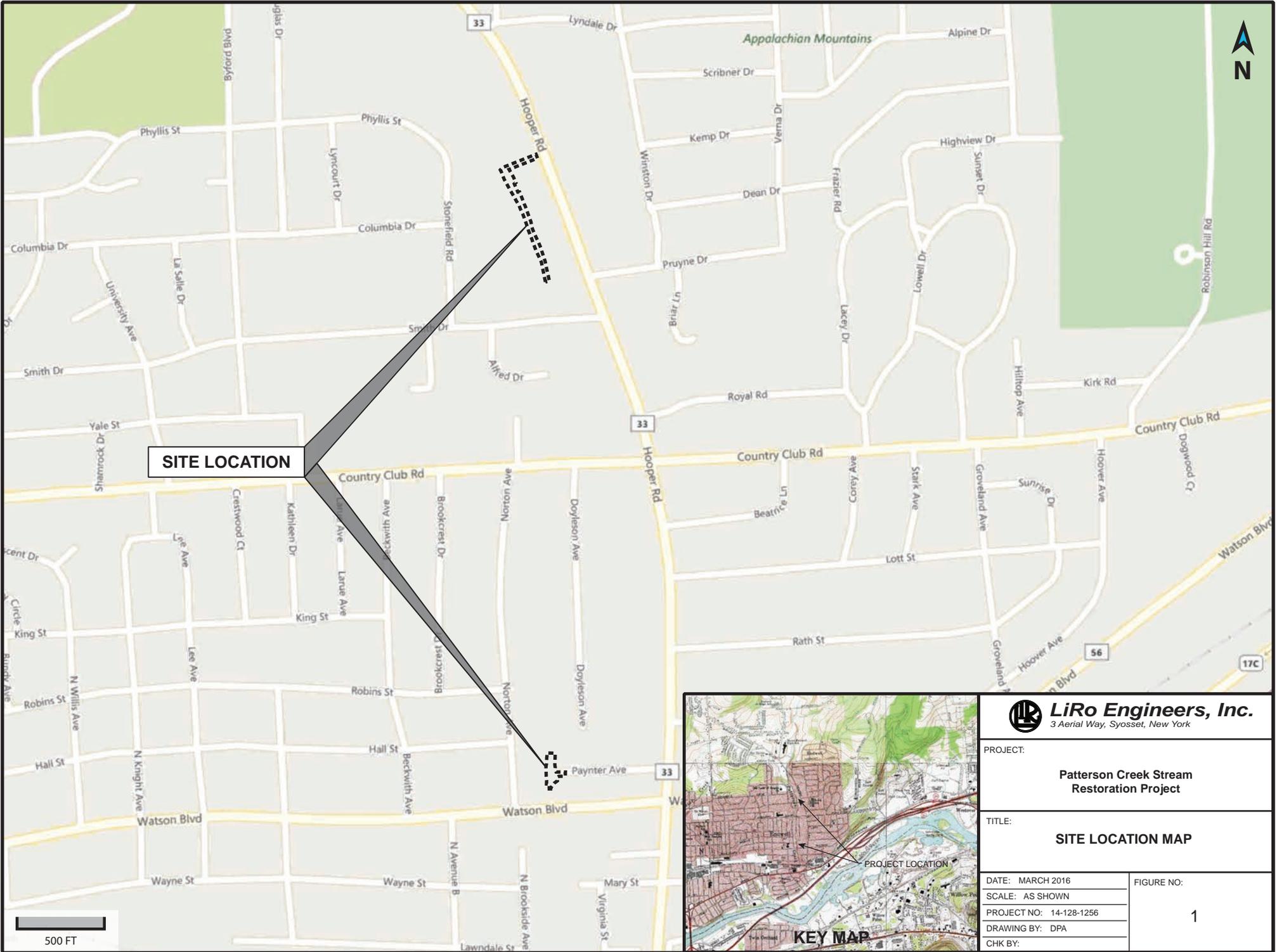
There are three primary purposes for this notice. First, people who may be affected by activities in floodplains or wetlands and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, adequate public notice is an important public education tool. The dissemination of information about floodplains and wetlands facilitates and enhances Federal efforts to reduce the risks associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in floodplains or wetlands, it must inform those who may be put at greater or continued risk.

## **PUBLIC COMMENTS**

Any individual, group, or agency may submit written comments on the proposed action or a request for further information to Thomas King, Assistant General Counsel and Certifying Officer, Governor's Office of Storm Recovery, 99 Washington Avenue, Suite 1224, Albany, NY 12260; email: NYSCDBG\_DR\_ER@nyshcr.org. All comments received by May 13, 2016 will be considered.

Thomas King, Assistant General Counsel and Certifying Officer

April 27, 2016



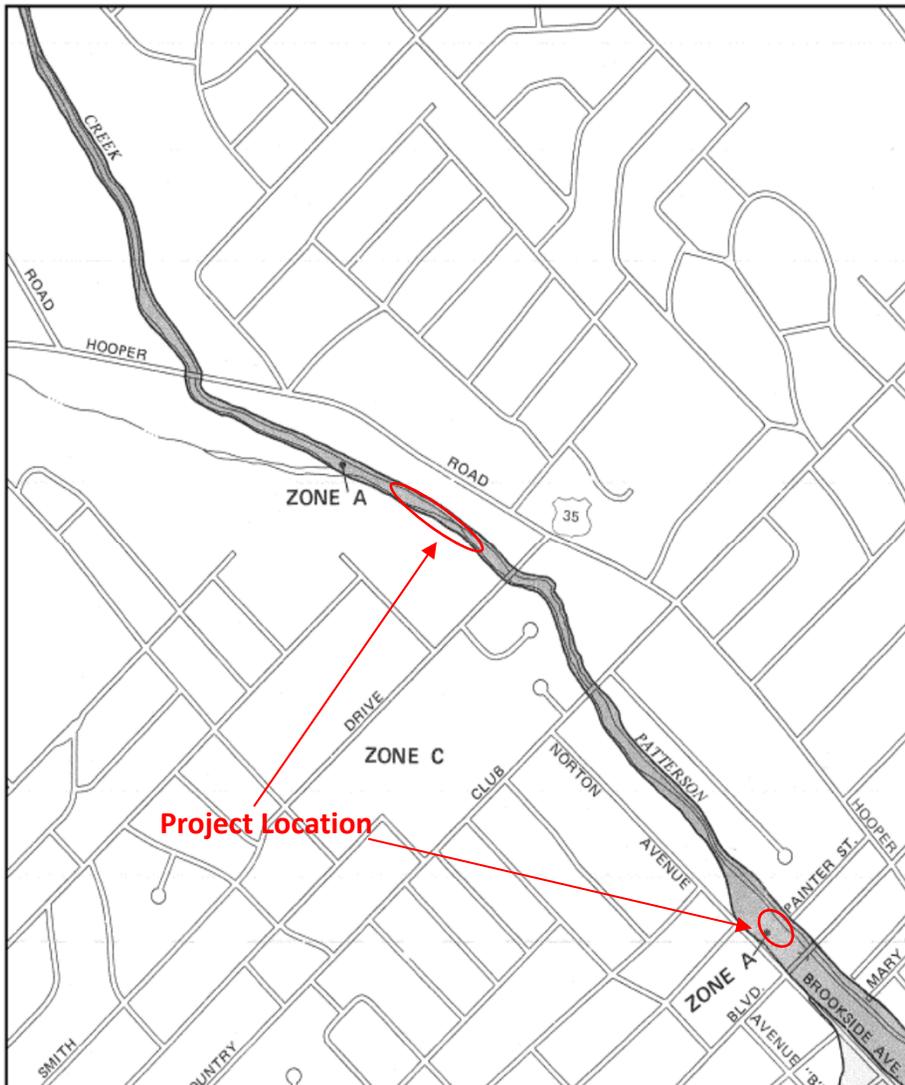
**LiRo Engineers, Inc.**  
 3 Aerial Way, Syosset, New York

PROJECT:  
**Patterson Creek Stream  
 Restoration Project**

TITLE:  
**SITE LOCATION MAP**

DATE: MARCH 2016  
 SCALE: AS SHOWN  
 PROJECT NO: 14-128-1256  
 DRAWING BY: DPA  
 CHK BY:

FIGURE NO:  
 1



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM  
FLOOD INSURANCE RATE MAP  
TOWN OF UNION,  
NEW YORK  
BROOME COUNTY**

PANEL 25 OF 35  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER

860056-0025-B

MAP REVISED

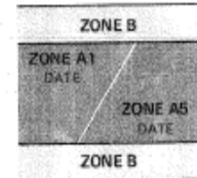
NOVEMBER 21, 1980



federal emergency management agency  
federal insurance administration

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

**KEY TO SYMBOLS**



ZONE DESIGNATIONS\* WITH  
DATE OF IDENTIFICATION  
i.e., 12/2/74

Base Flood Elevation Line  
with elevation in feet

513

Base Flood Elevation  
where uniform within zone

(E.L. 987' MSL)

Elevation Reference Mark

RM7

River Mile

M1.5

**\*EXPLANATION OF ZONE DESIGNATIONS**

A flood insurance map displays the zone designations for a community according to areas of designated flood hazards. The zone designations used by FIA are:

Zone	Explanation
A	Area of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Area of 100-year shallow flooding; flood depth 1 to 3 feet; product of flood depth (feet) and velocity (feet per second) less than 15.
A1-A30	Area of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Area of 100-year flood to be protected by a flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Area between limits of 100-year flood and 500-year flood; areas of 100-year shallow flooding where depth less than 1 foot.
C	Area outside 500-year flood.
D	Area of undetermined, but possible, flood hazards.
V	Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
VO	Area of 100-year shallow flooding with velocity; flood depth 1 to 3 feet; product of depth (feet) and velocity (feet per second) more than 15.
V1-V30	Area of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

**Patterson Creek Stream Bank  
Restoration Project  
Union, New York**

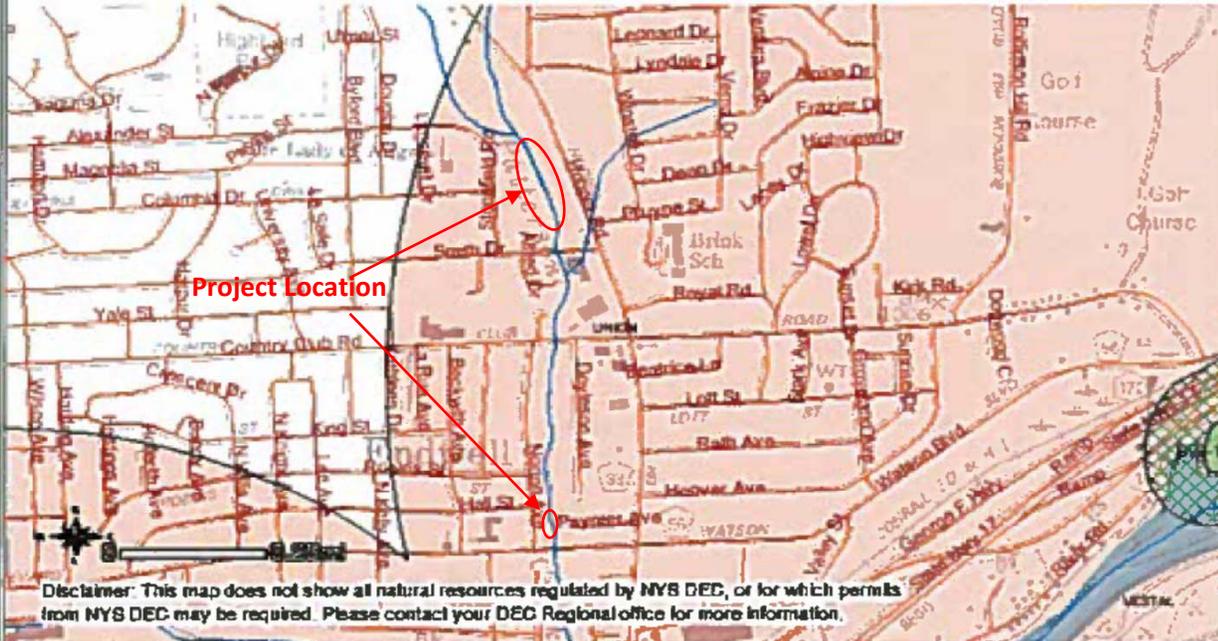


Flood Insurance  
Rate Map  
FIGURE 2

# Patterson Creek Stream Bank Restoration Project

## Visible Layers

-  Classified Streams
-  Classified Ponds
-  State-Regulated Freshwater Wetlands
-  Wetland Checkzone
-  State-Regulated Freshwater Wetlands
-  Rare Plants and Rare Animals
-  Significant Natural Communities Buffered
-  Natural Communities Nearby
-  Significant Natural Communities
-  Interstate Highways
-  Adirondack Park Boundary
-  Counties



Disclaimer: This map does not show all natural resources regulated by NYS DEC, or for which permits from NYS DEC may be required. Please contact your DEC Regional office for more information.

MinX: 414279, MaxX: 417388, MinY: 4664015, MaxY: 4662420



**Patterson Creek Stream Bank  
Restoration Project**  
Union, New York

---



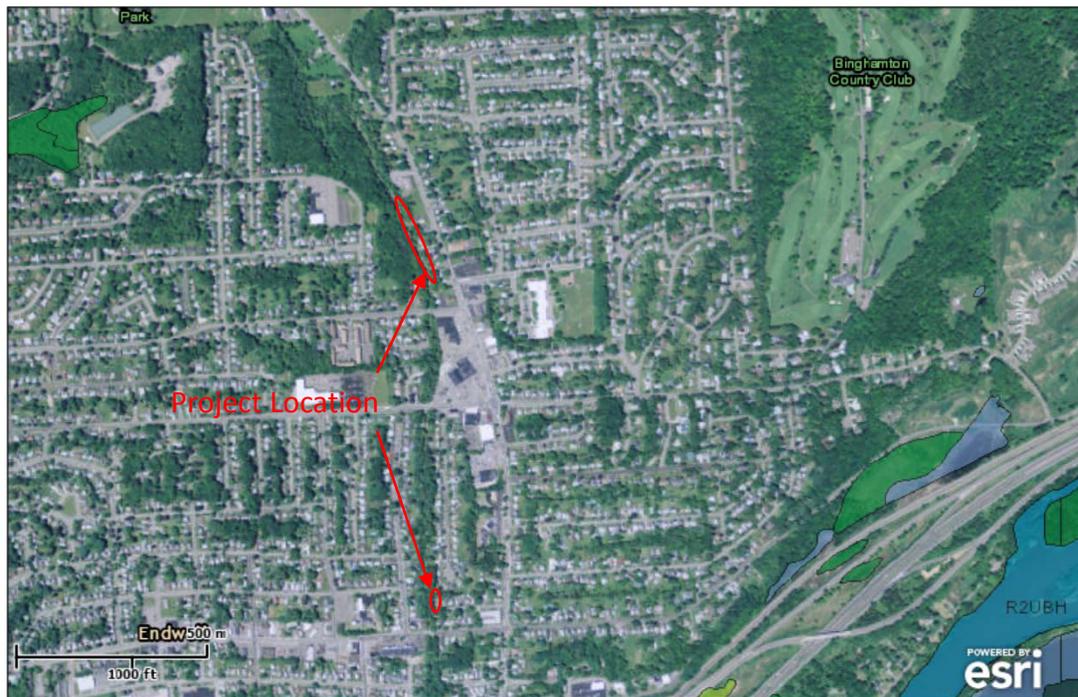
NYSDEC  
Wetlands Map



**U.S. Fish and Wildlife Service**  
**National Wetlands Inventory**

**Patterson Creek  
 Stream Bank  
 Restoration**

Mar 15, 2016



**Wetlands**

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

**Riparian**

- Herbaceous
- Forested/Shrub

**Riparian Status**

- Digital Data

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



**Patterson Creek Stream Bank  
 Restoration Project**  
 Union, New York



USFWS  
 Wetlands Map