

# **RI DEM – Blackstone River Bikeway**

**File No.:** 199300976

**City and State:** Pawtucket to North Smithfield, RI

**General Impacts:** 1.77 acres PEM, PSS, PFO (0.23 permanent, 1.54 temporary)

**Functions and Values Lost:** (From EA/SOF)

- Groundwater Recharge
- Floodflow Alteration
- Fish Habitat
- Wildlife Habitat
- Recreation

**Year(s) Mitigation Constructed:** August 1998

**Size and Type of Mitigation as Proposed:** 0.3 acre non-tidal emergent

**Proposed Functions and Values of Mitigation:**

- Nutrient Removal
- Floodflow Alteration
- Wildlife Habitat
- Recreation
- Production Export
- Sediment Retention

**Mitigation Special Condition(s):**

7. The wetland restoration and mitigation shall be performed as described in the “Blackstone River Bikeway, Army Corps of Engineers, Section 404 Wetland Mitigation Issues (Revised 3/24/97)” by Vanasse Hangen Brustlin, Inc., “Blackstone River Bikeway, Mitigation Plan, Lonsdale Marsh, Cumberland, R.I.” dated “April 2, 1997”.

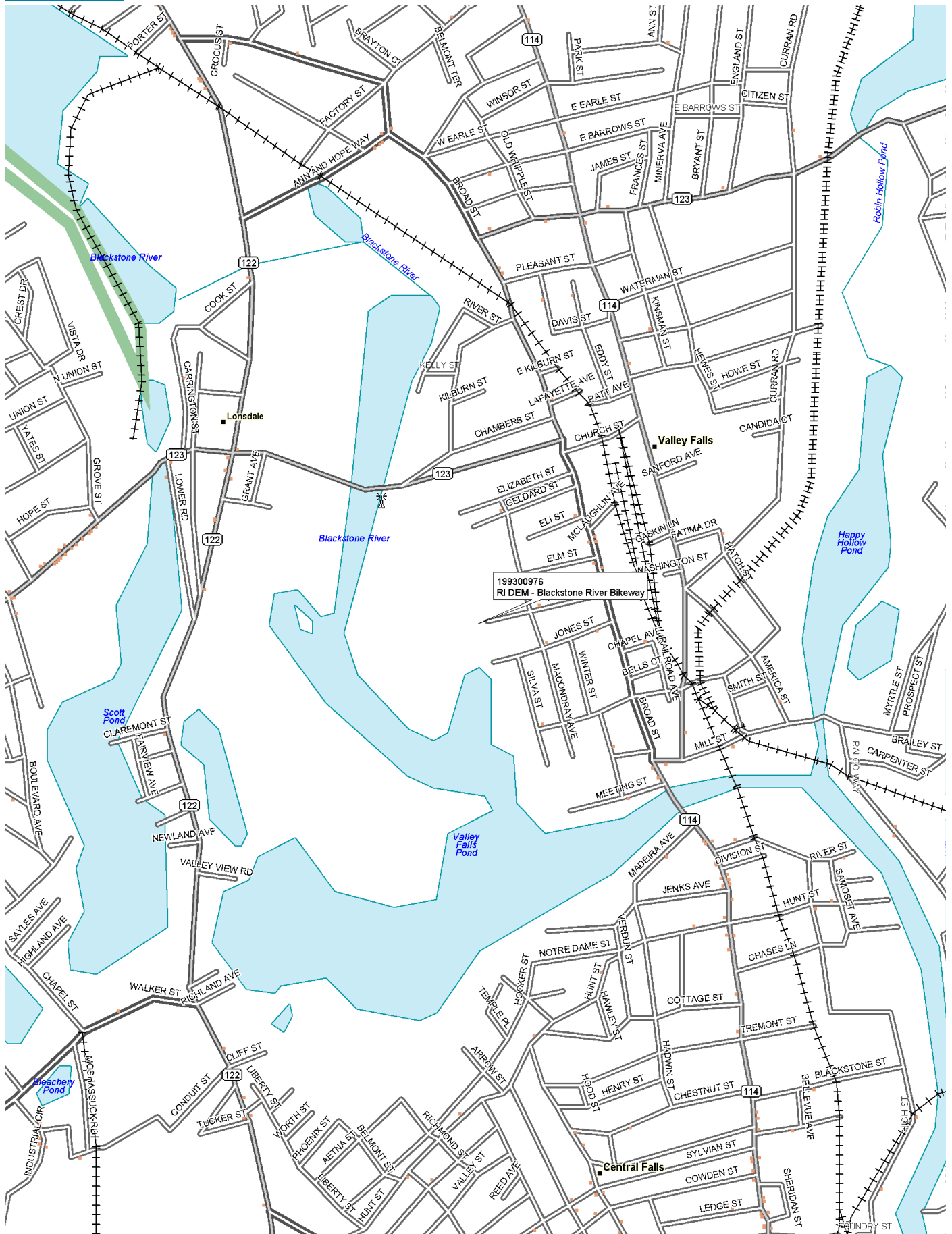
8. The goals of the mitigation are to replace those functions and values lost from the filling of approximately 0.23 acre of freshwater wetlands through wetlands restoration. If during final design, construction, etc., anything found that would affect the achievement of the mitigation goals, the permittee through their environmental consultant shall notify the Corps of Engineers, Inspection Section. Measures to help ensure success of the site shall be taken pending review and approval by the Corps.

**Remarks:**

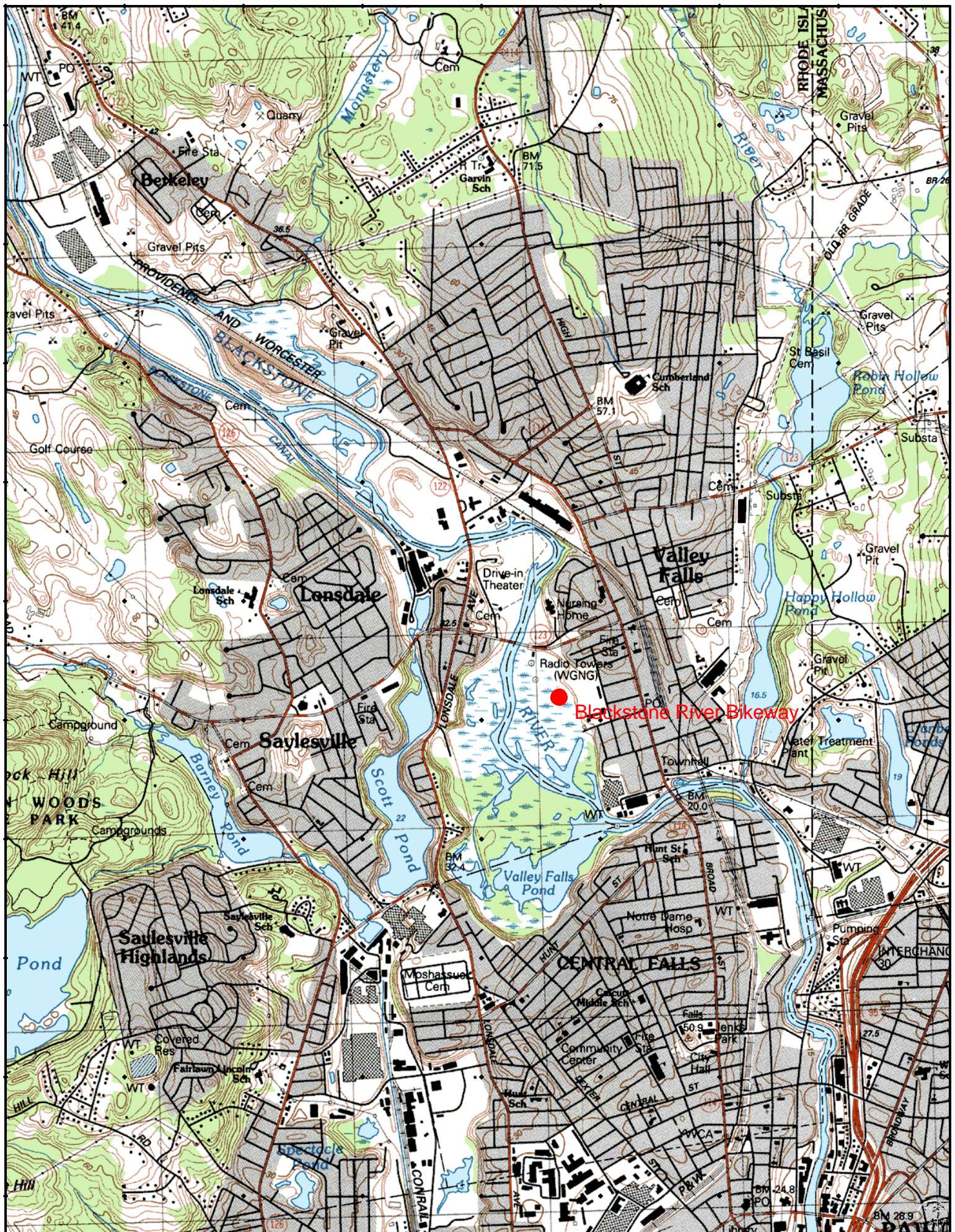
None

**Directions:**

Take 128/95 south toward Dedham/Providence, RI. Stay on I-95 by exiting right in the Dedham area. Take exit 3, Route 123. Turn onto Broad Street then onto Jones Street.









## MITIGATION SITE FIELD DATA FORM

**Site Name:** Blackstone River Bikeway **File No. :** 199300976

**City/Town:** Cumberland **State:** RI **Waterbody:** Blackstone River

**Monitor(s):** Keith Wright, Kathleen McKee **Date:** 6-20-02

**Was site constructed?**      yes

**Is site wetland?**              yes

**Size of proposed wetland:** 0.3 acre

**Actual size of wetland:** same

**Landscape position:** river plain

**Lat/Long Points:** 41.96897N W071.33757

**Saved GPS Waypoint name:** BLA

**GPS Tracking Log Name:** N/A

**Perimeter:** TBD

**Surrounding land use:**

Forest and contiguous PEM wetland

**Is wetland function compromised by  
surrounding land use?**

No

**Plant health:**

Very good

**Invasive Species:**

*Lythrum salicaria*

**Wildlife Use:**

Green frog, snails, muskrat,

large animal's sleeping depression;

herbivory such as dogwood trees had chew marks

### Plants

*Acer rubrum*

*Carex* sp. (ovales)

*Cornus amomum*

*Eupatorium perfoliatum*

*Fraxinus* sp.

*Juncus effusus*

*Lythrum salicaria*

*Platanus occidentalis*

*Pontederia cordata*

*Rumex crispus*

*Scirpus cyperinus*

*Solidago* sp.

*Toxicodendron radicans*

**Soils Data:**

DEPTH	HORIZON	MATRIX	REDOX	COMMENTS
0 – 6.5"	A			
6.5 – 14.5	fill			grayish/white/black debris, shale
14.5 – 16.5	A2	7.5YR 2.5/1		silt loam, black/brown
16.5 – 19	B	10YR 2/1		black loam

**Sketch approximate mitigation site, noting areas and types of wetlands, waters, other features, landscape position, landmarks, etc., and data and photo point(s):**

See field notes

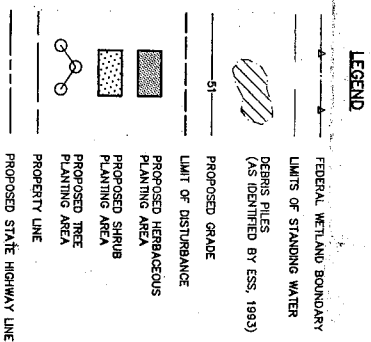
**Overall Description of site:**

The site is difficult to locate as there is no obvious border between the mitigation site and the rest of the marsh. A bordering gravel path leads to the site. It was found most easily by the location of a sediment trap; also note position of radio antenna in distance in relation to this device.

There was sixty square feet of open water surrounded by cattails. The site was predominantly comprised of *Juncus effusus*. Diversity increases as distance from open water area increases.

**Comments, problems, recommendations:**

None.



## DEPARTMENT OF TRANSPORTATION

WETLAND RESTORATION PLAN

LONSDALE MARSH,  
CUMBERLAND, R.I.

## PLAN

[illegible]

# Wetland Function-Value Evaluation Form

Total area of wetland 0.3 ac Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use forest, PEM, residential Distance to nearest roadway or other development 50 feet

Dominant wetland systems present POW, PEM Contiguous undeveloped buffer zone present 100%

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? low

How many tributaries contribute to the wetland? 0 (?) Wildlife & vegetation diversity/abundance (see attached list)

Blackstone River Bikeway  
Wetland I.D. 199300976













Latitude N41.96897 Longitude W71.33757

Prepared by: RL PM Date 5/14/03

Wetland Impact:  
Type \_\_\_\_\_ Area \_\_\_\_\_

Evaluation based on:  
Office X Field \_\_\_\_\_

Corps manual wetland delineation  
completed? Y \_\_\_\_\_ N X

Function/Value	Suitability Y N		Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	X				probably recharge
 Floodflow Alteration	X			X	in Blackstone River floodplain
 Fish and Shellfish Habitat		X			
 Sediment/Toxicant Retention	X				dense vegetation
 Nutrient Removal	X				dense vegetation, in floodplain
 Production Export	X				in floodplain
 Sediment/Shoreline Stabilization		X			
 Wildlife Habitat	X			X	frogs, snails, deer, muskrat, signs of herbivory
 Recreation		X			
 Educational/Scientific Value		X			
 Uniqueness/Heritage		X			
 Visual Quality/Aesthetics		X			
<b>ES</b> Endangered Species Habitat		X			none known
Other					

Notes:

\* Refer to backup list of numbered considerations.



199300976  
Blackstone River  
Cumberland, RI  
6/20/02



Approaching up a foot path, site is on the right, looking northwest.



Wettest part of site is on left of photo. It consists of only 10 sq feet or so in the middle.





Wettest part of site (middle)



Looking east from west side





0 100M

0 100yd

Image courtesy of the U.S. Geological Survey  
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