

CATO-11 Site ID Potential Restoration Area 3.00 (Acres) Date of Field Assessment 3/31/16 Existing Land Use Open floodplain Adjacent Land Use Forest 300 ft Distance to Nearest Road RTE Species Present? No Known Cultural Concern? No Stream Restoration Yes Opportunity? Site Currently Wetland? Yes Site Formerly Wetland? No Evidence of Disturbance No Soils Score 7 9 Hydrology Score Existing Vegetation Score 6 Geomorphic Score Surrounding Land Use Score 7 Function and Value Score Presence of Invasive Species o Score Site Disturbance Score 3 3 Ease of Access Score 9 Stormwater Influence Score Total Score 64 <u>Invasive Species Control?</u> Yes Native Plantings? Yes Restore Hydrology? No Increase Diversity? Yes Convert Open Water to No Vegetated? Convert Emergent to Yes Shrub/Forested Increase Asthetic or Yes Educational Value Other No Wetland dominated by mile a minute and low species diversity. Will require private property Notes access. Treatment of invasives and increase

diversity with native plantings.

A-18

Site ID CATO-11 Potential Restoration (linear feet) 600 3/30/16 Date Existing Land Use Open floodplain sparse trees Forested Adjacent Land Use 300 Distance to Nearest Road Perennial Stream Hydrology RTE Species Present? No Known Cultural Concern? No Wetland Restoration Opportunity? Yes **Existing Wetlands Present** Yes Evidence of Disturbance No Can Restoration be Completed in NPS Yes Area? Estimated Bank Erosion Score 8 Degree of Channel Incision Score 7 5 Existing Floodplain Access Score Opportunity for Floodplain Development Score Threat of Impact to Resources Score 5 Surrounding Vegetation Score 8 7 Land Use Score Opportunity for Ecological Lift Score 6 7 Ease of Access Surrounding Land Use Score 4

Increase Aesthetic or Educational Value? No

<u>Other</u> No

Stream appears to be flow cut and eroded, existing wetlands dominated by mile a minute. Upper left bank highly eroded. Open area in floodplain allows for realignment of channel.

66

Yes

Yes

No

No

No

Yes

Notes

Total Score

Fish Passage?

Channel Restoration?

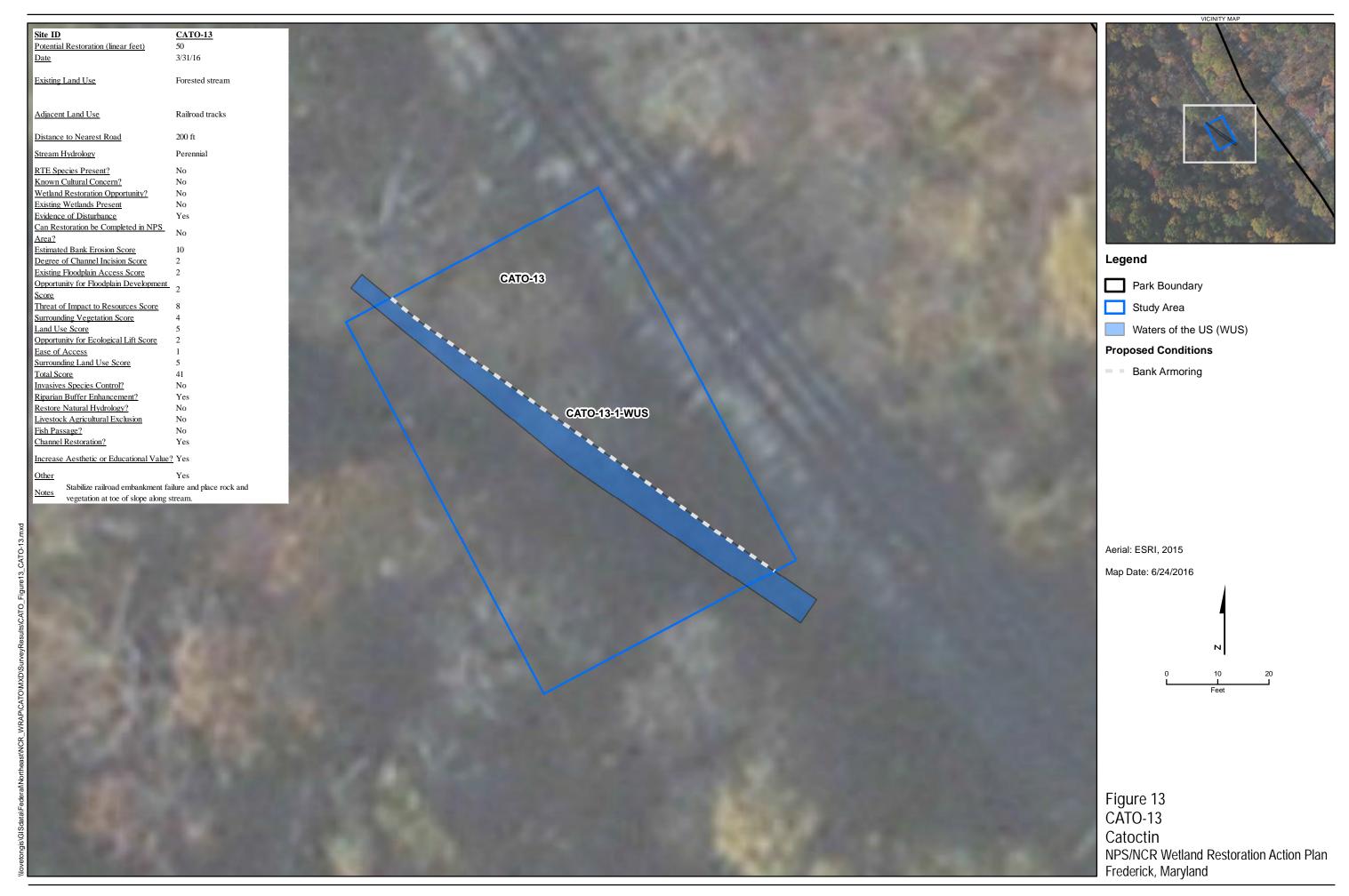
<u>Invasives Species Control?</u>

Restore Natural Hydrology?

Riparian Buffer Enhancement?

Livestock Agricultural Exclusion

Reccommendations include bank stabilization and reconnection to floodplain as well as riparian planting through floodplain. Also has existing wetlands that can be treated for invasives.

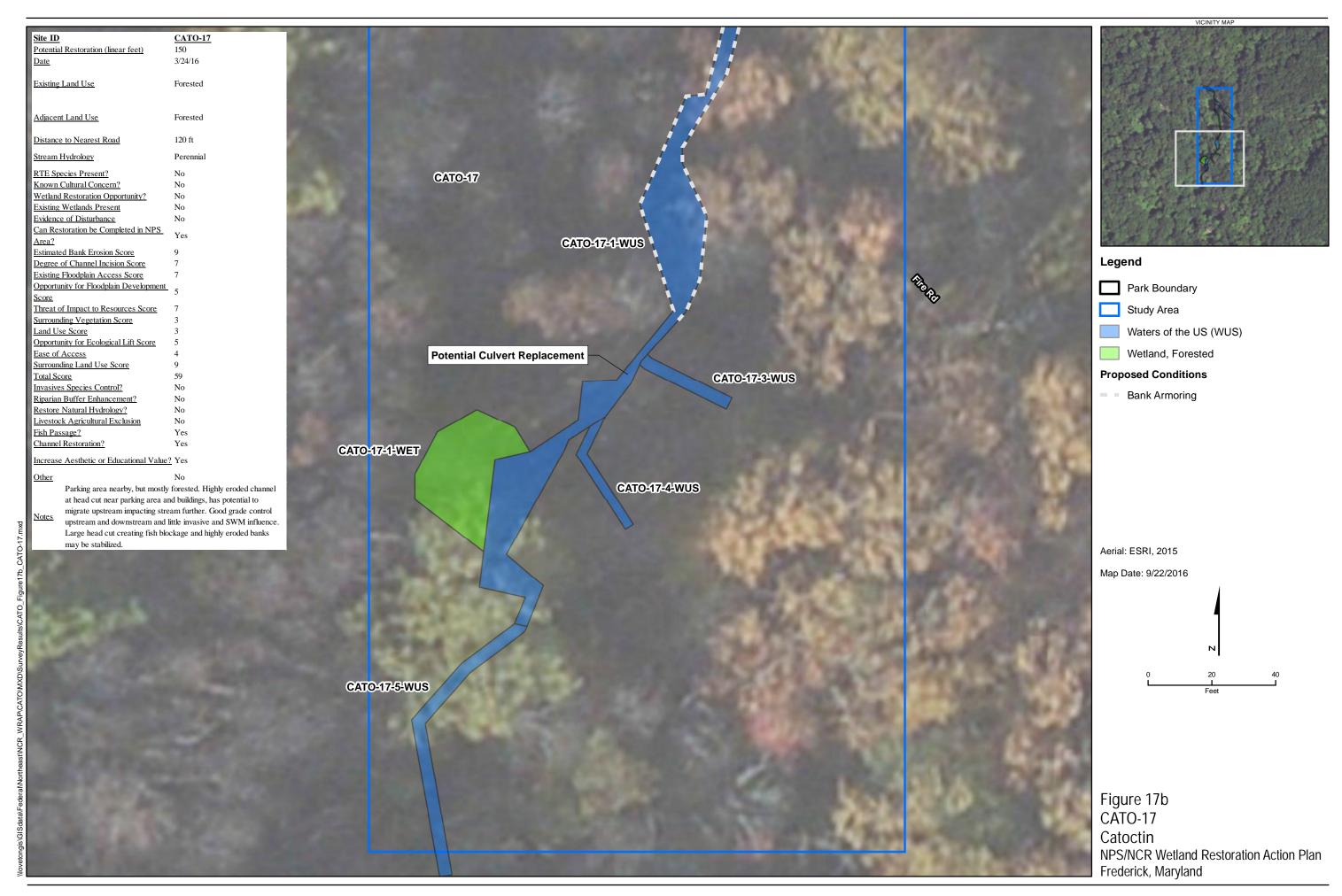


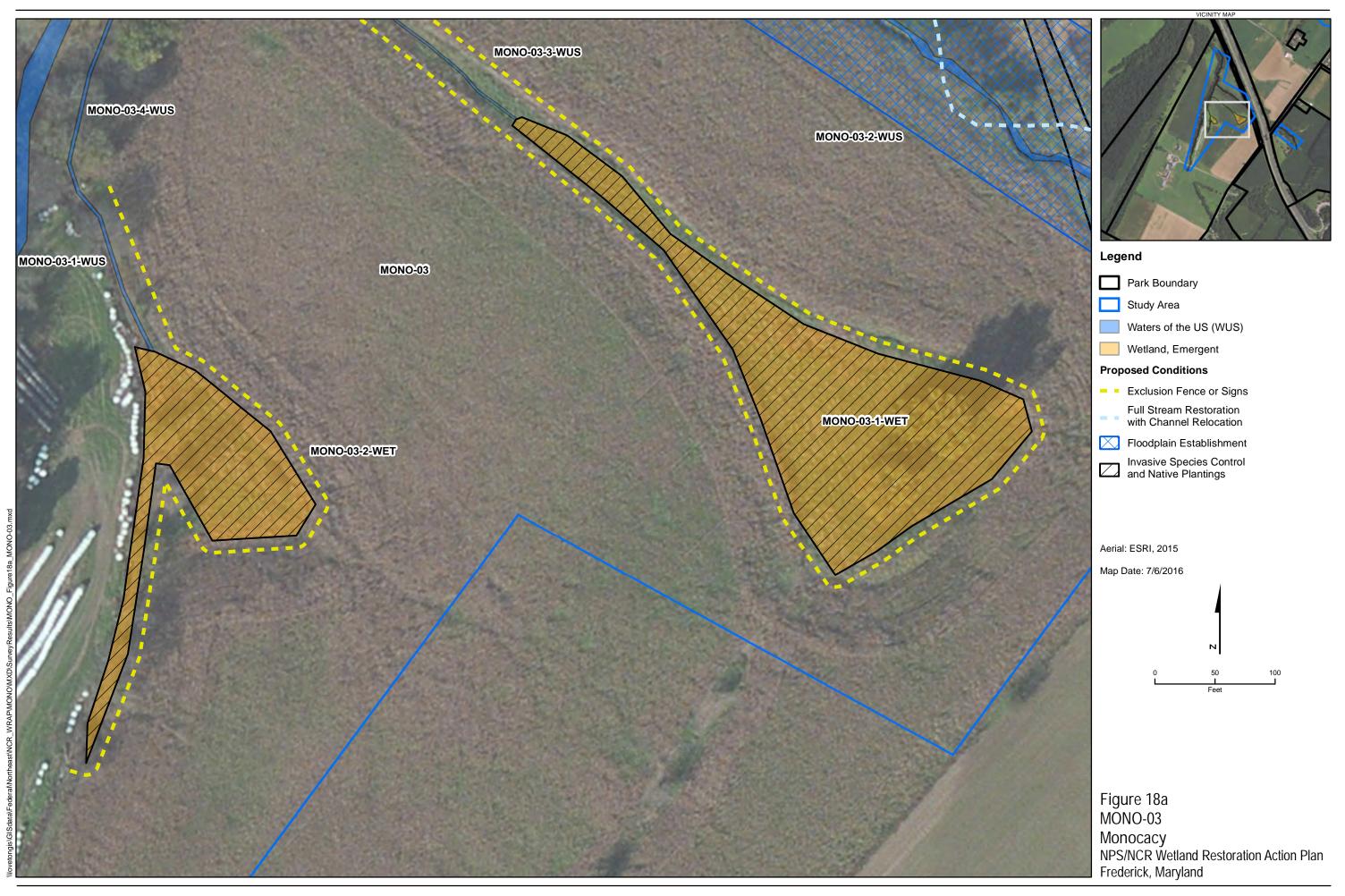


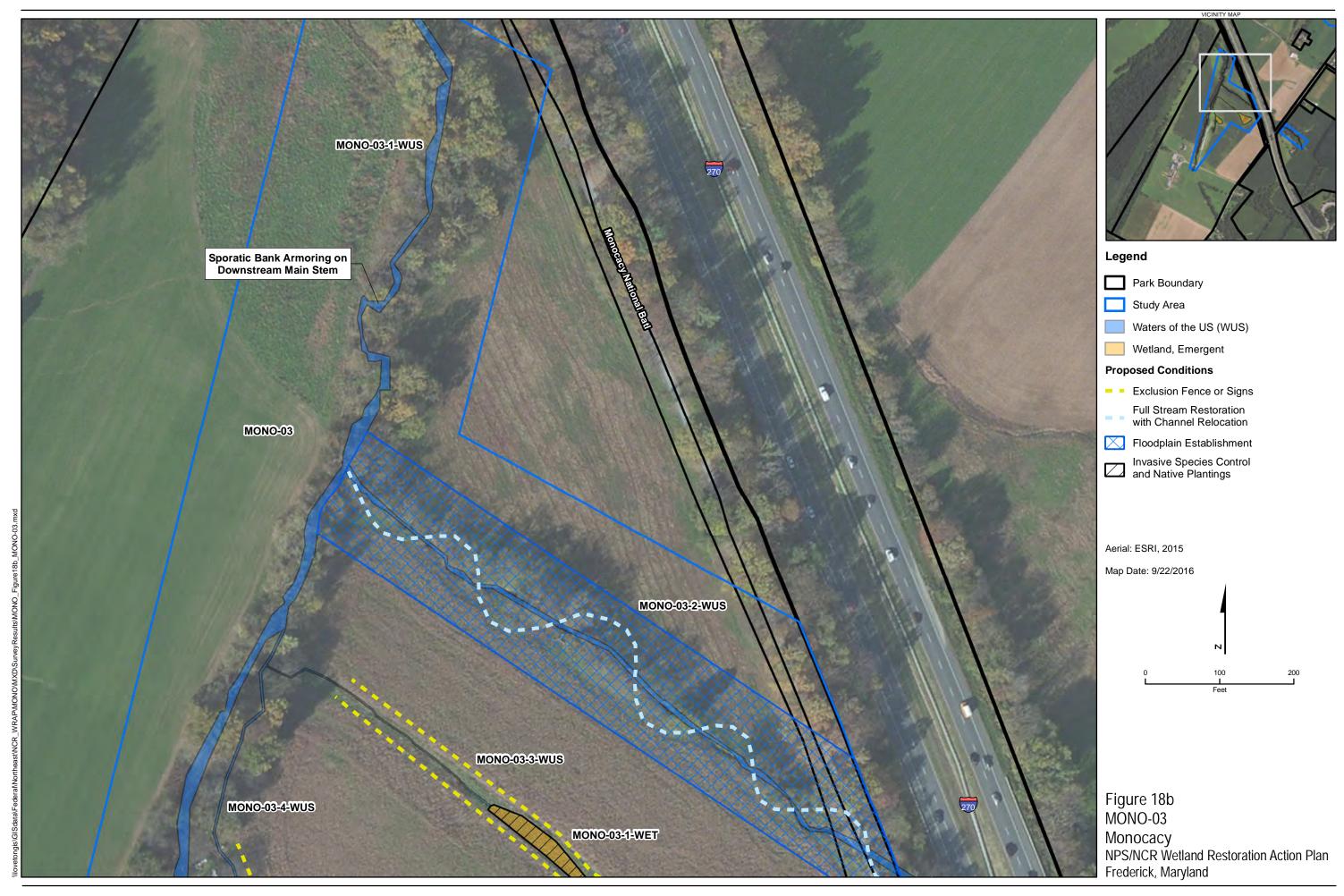


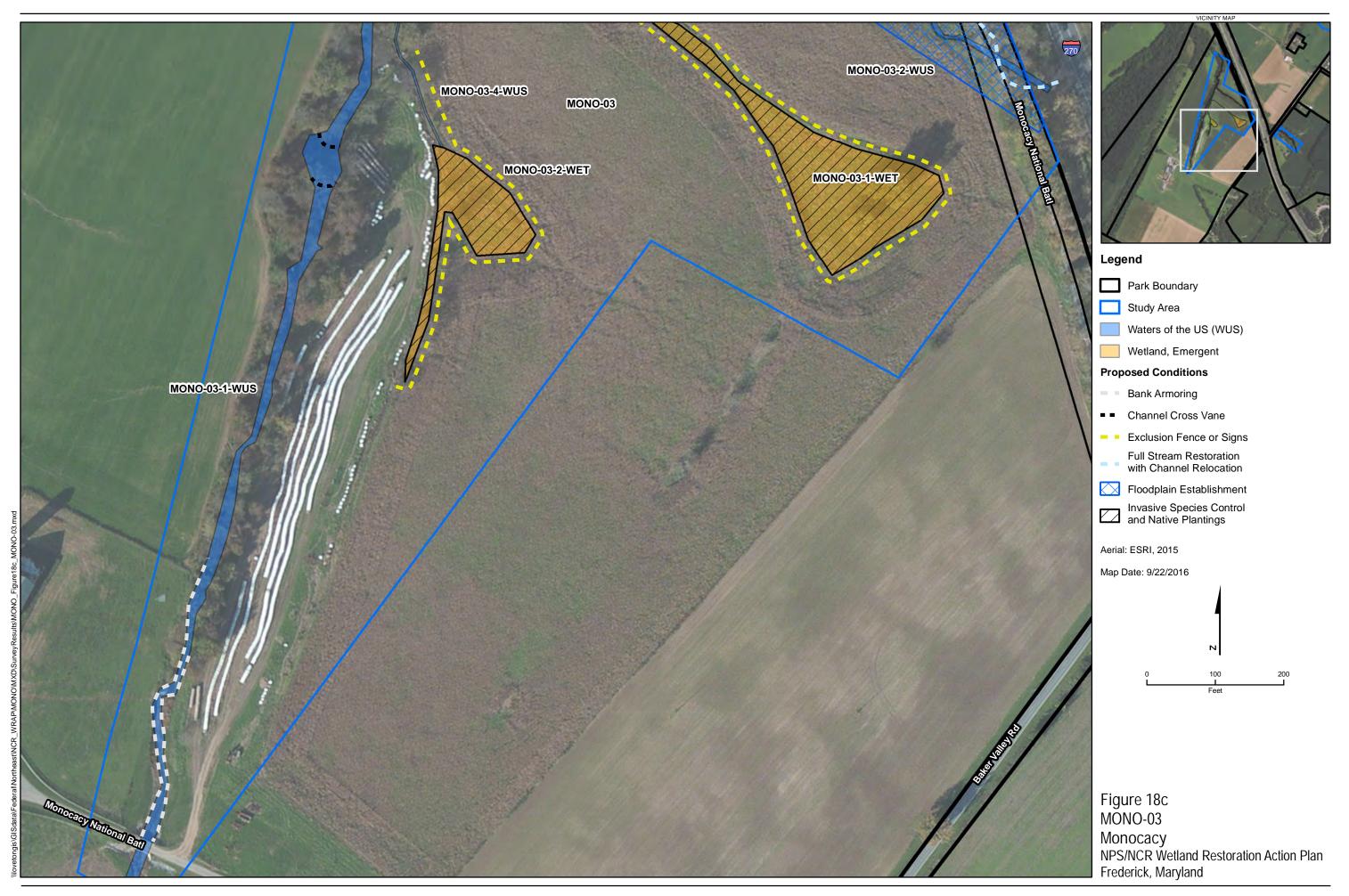












| Site ID | MONO-3 WET-1 | MONO-3 WET-2 |
|--|--------------|--------------|
| Potential Restoration Area (Acres) | 1.00 | 0.50 |
| Date of Field Assessment | 4/7/16 | 4/7/16 |
| Existing Land Use | Agricultural | Agricultural |
| Adjacent Land Use | Agricultural | Agricultural |
| Distance to Nearest Road | 100 | 200 |
| RTE Species Present? | No | No |
| Known Cultural Concern? | No | No |
| Stream Restoration Opportunity? | No | Yes |
| Site Currently Wetland? | Yes | Yes |
| Site Formerly Wetland? | Yes | Yes |
| Evidence of Disturbance | Yes | Yes |
| Soils Score | 10 | 9 |
| Hydrology Score | 10 | 10 |
| Existing Vegetation Score | 8 | 8 |
| Geomorphic Score | 9 | 9 |
| Surrounding Land Use Score | 8 | 6 |
| Function and Value Score | 6 | 6 |
| <u>Presence of Invasive Species</u> Score | 5 | 6 |
| Site Disturbance Score | 8 | 8 |
| Ease of Access Score | 8 | 7 |
| Stormwater Influence Score | 7 | 7 |
| Total Score | 79 | 76 |
| Invasive Species Control? | Yes | Yes |
| Native Plantings? | Yes | Yes |
| Restore Hydrology? | No | No |
| Increase Diversity? | Yes | Yes |
| Convert Open Water to | No | No |
| Vegetated? | NO | NO |
| Convert Emergent to Shrub/Forested | Yes | Yes |
| Increase Asthetic or Educational Value | Yes | Yes |
| Other | No | No |

Wetland seep in middle of agricultural field.

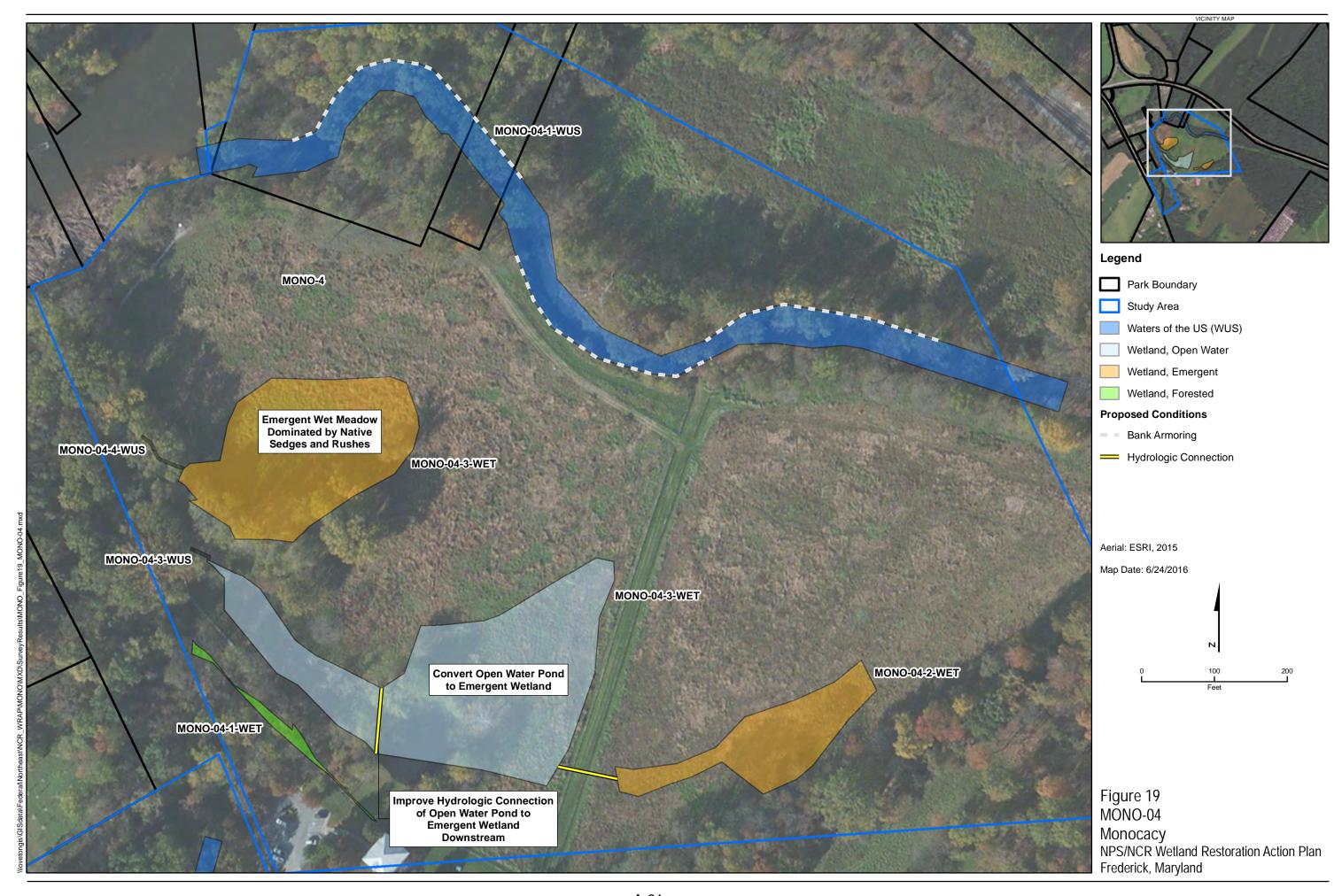
native plantings with invasive control.

Notes

Vegetation disturbed and dominated by thistle,

Agricultural practices have degraded wetland Vegetation disturbed and dominated by thistle, fescue, and rye. Fence or agricultural exclusion and partive plantings with invasive control.

| Site ID Potential Restoration (linear feet) Date | <u>MONO-3</u> 2300 4/7/16 | MONO-3 stream 2 1000 4/7/16 | |
|---|---------------------------------|--|--|
| Existing Land Use | Agricultural | Old field | |
| Adjacent Land Use | Agricultural | Agricultural | |
| Distance to Nearest Road | 200 | 50 | |
| Stream Hydrology | Perennial | Perennial | |
| RTE Species Present? | No | No | |
| Known Cultural Concern? | No | No | |
| Wetland Restoration Opportunity? | Yes | Yes | |
| Existing Wetlands Present | Yes | Yes | |
| Evidence of Disturbance | Yes | Yes | |
| Can Restoration be Completed in NPS Area? | Yes | Yes | |
| Estimated Bank Erosion Score | 8 | 10 | |
| Degree of Channel Incision Score | 7 | 10 | |
| Existing Floodplain Access Score | 6 | 10 | |
| Opportunity for Floodplain Development Score | 6 | 9 | |
| Threat of Impact to Resources Score | 7 | 9 | |
| Surrounding Vegetation Score | 5 | 8 | |
| Land Use Score | 8 | 8 | |
| Opportunity for Ecological Lift Score | 6 | 8 | |
| Ease of Access | 6 | 8 | |
| Surrounding Land Use Score | 5 | 6 | |
| Total Score | 64 | 86 | |
| Invasives Species Control? | No | No | |
| Riparian Buffer Enhancement? | Yes | Yes | |
| Restore Natural Hydrology? | No | Yes | |
| Livestock Agricultural Exclusion | No | No | |
| Fish Passage? | No | No | |
| Channel Restoration? | Yes | Yes | |
| Increase Aesthetic or Educational Value | <u>?</u> Yes | Yes | |
| Other | No | No | |
| Notes separate forms. Reccommend full channel restoration including | | Highly eroded and extremely incised stream channel with very low sinuosity and riparian buffer. Full stream restoration potential. | |



| Site ID | MONO-4 WET-1 | MONO-4 WET-2 |
|--|---------------------------------------|------------------------|
| Potential Restoration Area | 1.50 | 3.00 |
| (Acres) | 4/6/2016 | 4/6/2016 |
| Date of Field Assessment | 4/6/2016 | 4/6/2016 |
| Existing Land Use | Meadow | Meadow |
| Adjacent Land Use | Forest, meadow, park service property | Park service buildings |
| Distance to Nearest Road | 250 | 250 |
| RTE Species Present? | No | No |
| Known Cultural Concern? | No | No |
| Stream Restoration Opportunity? | No | Yes |
| Site Currently Wetland? | Yes | Yes |
| Site Formerly Wetland? | Yes | Yes |
| Evidence of Disturbance | Yes | Yes |
| Soils Score | 8 | 8 |
| Hydrology Score | 8 | 7 |
| Existing Vegetation Score | 8 | 7 |
| Geomorphic Score | 8 | 8 |
| Surrounding Land Use Score | 7 | 7 |
| Function and Value Score | 7 | 5 |
| Presence of Invasive Species | · 4 | 5 |
| Score | | |
| Site Disturbance Score | 3 | 4 |
| Ease of Access Score | 8 | 7 |
| Stormwater Influence Score | 4 | 5 |
| Total Score | 65 | 63 |
| Invasive Species Control? | No | No |
| Native Plantings? | Yes | Yes |
| Restore Hydrology? | Yes | Yes |
| Increase Diversity? | Yes | Yes |
| Convert Open Water to Vegetated? | No | Yes |
| Convert Emergent to Shrub/Forested | Yes | Yes |
| Increase Asthetic or Educational Value | Yes | Yes |
| Other | No | No |

Wetland surrounded by meadow. Separated from other wetland by raised grass path likely used to be impoundment. Ground water likely present. Soils connected and wetland area was much larger. saturated at approximately 10". Some trees around the saturated at approximately 10 of the saturated at approximately

Notes

Sparsely vegetated with grasses. Partially developed park service land. Historic wetland that is functioning at lower capacity. Raise grass path and surrounding development. Create PSS wetland, connect to other wetland.

Small open water pond likely man made impoundment. Ground water likely present. Soils saturated at approximately 10". Some trees around pond. Low, concave, disconnected flood plain. Open meadow and park service maintained grounds. Existing wetland opportunity to increase function. Believed to have been connected to WET1 historically.

Site ID MONO 4 WUS1

Potential Restoration (linear feet) 1100 Date 4/6/2016

Existing Land Use Old field, riparian forest

Meadow, CSX rail line, park

Adjacent Land Use

service property

1000 Distance to Nearest Road

Perennial Stream Hydrology

RTE Species Present? No Known Cultural Concern? No Wetland Restoration Opportunity? Yes Existing Wetlands Present No Evidence of Disturbance No Can Restoration be Completed in NPS Yes

Area?

Estimated Bank Erosion Score 8 8 Degree of Channel Incision Score 7 Existing Floodplain Access Score Opportunity for Floodplain Development <u>Score</u>

Notes

Threat of Impact to Resources Score 4 Surrounding Vegetation Score 5 7 Land Use Score Opportunity for Ecological Lift Score 8 4 Ease of Access 7 Surrounding Land Use Score 67 Total Score <u>Invasives Species Control?</u> No Riparian Buffer Enhancement? Yes Restore Natural Hydrology? Yes Livestock Agricultural Exclusion No Fish Passage? No Channel Restoration? Yes

Increase Aesthetic or Educational Value? Yes

Other No

> Stream is disconnected from floodplain. Wet meadows were observed in open meadow adjacent to stream Only in some small sections. Immediate surrounding is forest but beyond narrow riparian strip ismeadow. Reduce erosion and sedimentation, increase habitat and forested buffer. Access over meadow.

Nearest road is 1000 ft.