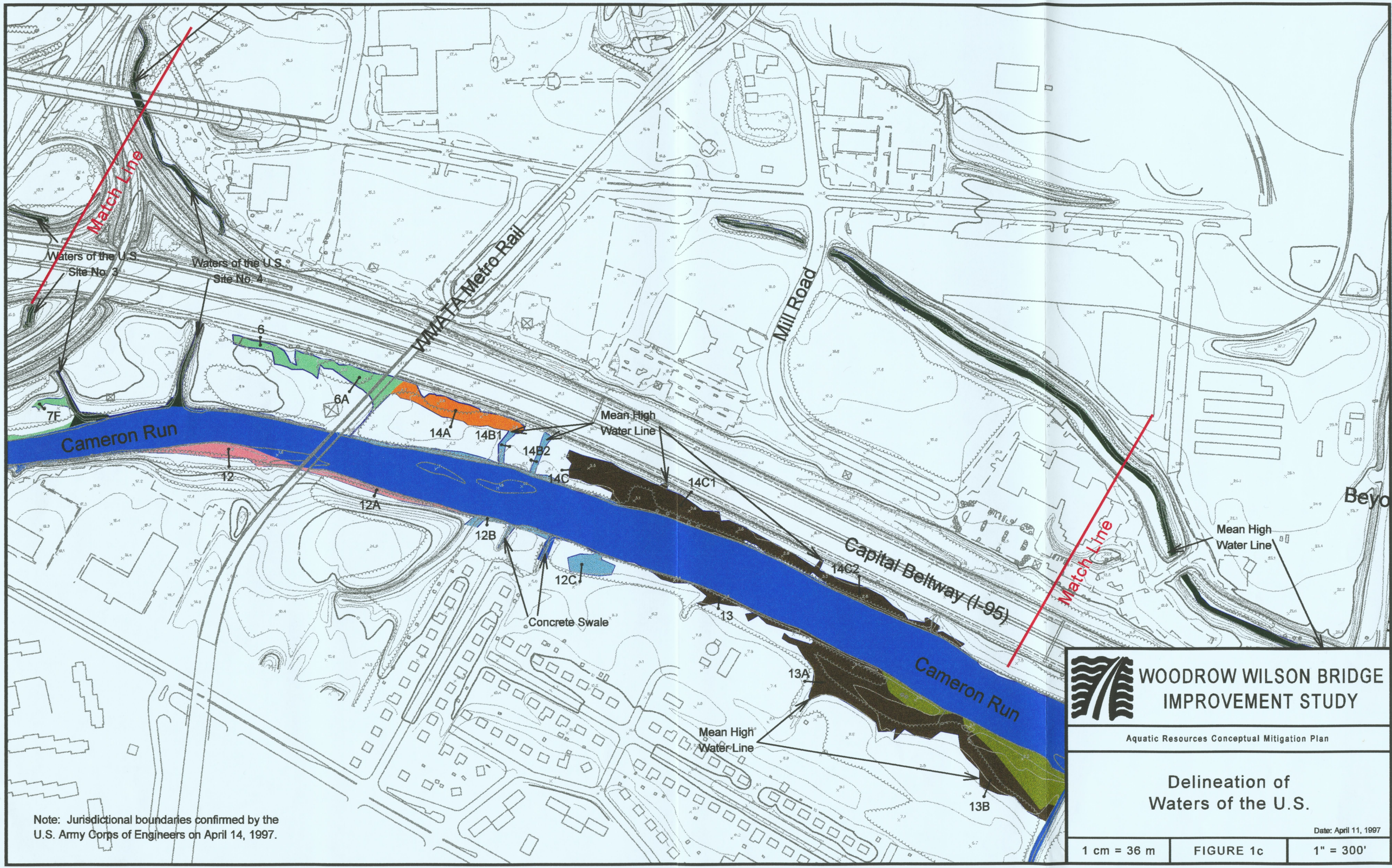
ATTACHMENT 1 – MAPS AND DATASHEETS FROM WOODROW WILSON BRIDGE PROJECT – 1997 AND 1999 WETLAND DELINEATION

FIGURE 1a

DESCRIPTION	COWARDIN CLASS	COLOR
TIDAL FORESTED		
Palustrine, forested, broadleaf deciduous, seasonally flooded-tidal	PFO1R	
Palustrine, forested, broadleaf deciduous, semipermanently flooded-tidal	PFO1T	
Palustrine, forested, broadleaf deciduous, temporarily flooded-tidal	PFO1S	
TIDAL SCRUB-SHRUB		
Palustrine, scrub shrub, broadleaf, seasonally flooded-tidal	PSS1R	
Palustrine, scrub shrub, broadleaf, semipermanently flooded-tidal	PSS1T	
TIDAL EMERGENT		
Palustrine, emergent, persistent, semipermanently flooded-tidal	PEM1T	
Palustrine, emergent, nonpersistent, semipermanently flooded-tidal	PEM2T	
Palustrine, emergent, nonpersistent, permanently flooded-tidal	PEM2V	
Palustrine, emergent, persistent, temporarily flooded-tidal	PEM1S	
Palustrine, emergent, persistent, seasonally flooded-tidal	PEM1R	
TIDAL AQUATIC BED		
Riverine, tidal, aquatic bed	R1AB (SAV)	
TIDAL FLAT		
Riverine, tidal flat	R1FL	
RIVERINE (Waters of the U.S.)		
Riverine, tidal, open water	R1OW/UB (Potomac River)	
Riverine, tidal, unconsolidated shore	R1US	
Riverine, lower perenial, stream bed	R2SB	
Riverine, upper perenial, stream bed	R3SB	
Riverine, lower perenial, modified channel (concrete)	R2MODC	
NON TIDAL FORESTED		
Palustrine, forested, broadleaf deciduous, temporarily flooded	PFO1A	
Palustrine, forested, broadleaf deciduous, seasonally flooded	PFO1C	
NON TIDAL EMERGENT		
Palustrine, emergent, persistent, seasonally flooded	PEM1C	



Note: Jurisdictional boundaries confirmed by the U.S. Army Corps of Engineers on April 14, 1997.

WOODROW WILSON BRIDGE IMPROVEMENT STUDY

Aquatic Resources Conceptual Mitigation Plan

Delineation of Waters of the U.S.

Date: April 11, 1997

1 cm = 36 m	FIGURE 1c	1" = 300'

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study
Applicant: FHWA, VDOT, MSHA, DCDPW
Investigator: Eileen Straughan
Do Normal Circumstances exist on the site? ☒ Yes ☐ No
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No
Is the area a Problem Area? ☐ Yes ☒ No

Date: April 24, 1997
County: Fairfax
State: Virginia
Community ID:
Transect ID:
Plot ID: 12c wetland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Fraxinus pennsylvanica	Tree	FACW
Acer rubrum	Tree	FAC
Acer rubrum	Sapling	FACW+
Impatiens capensis	Herb	FACW
Eulalia viminea	Herb	FAC
Chasmanthium laxum	Herb	FAC

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 100.00%

Remarks
Sample area satisfies hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)
☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☒ No Recorded Data Available

Field Observations
Depth of surface water 2 (in.)
Depth to free water in pit surface (in.)
Depth to saturated soil surface (in.)

Primary Wetland Hydrology Indicators
☒ Inundated
☒ Saturated in Upper 12 Inches
☒ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Remarks
Field indicators of supporting wetland hydrology observed; satisfies criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 24, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 12c wetland

SOILS

Soil Map Unit Name: Mixed alluvial — Drainage Class: unknown

Soil Tax Subgroup: Unknown — Confirm Map Type: ☒ Yes ☐ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	2.5Y 4/2	10YR 5/8	com., med, distinct	clay loam, saturated
4-18	B	2.5Y 4/1	10YR 5/8	com., med, distinct	clay loam, saturated

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

Indicators of reducing soil conditions; area satisfies hydric soils criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☒ Yes ☐ No

Hydric Soils Present? ☒ Yes ☐ No

Is this Sampling within a Wetland? ☒ Yes ☐ No

Remarks

Sample area does satisfy three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study

Applicant: FHWA, VDOT, MSHA, DCDPW

Investigator: Eileen Straughan

Do Normal Circumstances exist on the site? ☒ Yes ☐ No

Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No

Is the area a Problem Area? ☐ Yes ☒ No

Date: April 10, 1997

County: FAirfax

State: Virginia

Community ID:

Transect ID:

Plot ID: 12c upland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Betula nigra	Tree	FACW
Acer negundo	Sapling	FAC+
Acer negundo	Shrub	FAC+
Acer negundo	Herb	FAC+
Lonicera japonica	Herb	FAC-
Impatiens capensis	Herb	FACW
Allium canadense	Herb	FACU

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 71.43%

If the FAC-neutral test is used, this data provides a secondary indicator of wetland hydrology

Remarks

Sample area satisfies hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☒ No Recorded Data Available

Field Observations

Depth of surface water none (in.)

Depth to free water in pit >18 (in.)

Depth to saturated soil > 18 (in.)

Primary Wetland Hydrology Indicators

☐ Inundated
☐ Saturated in Upper 12 Inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Remarks

No indicators of supporting wetland hydrology observed; does not satisfy criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 10, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: FAirfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 12c upland

SOILS

Soil Map Unit Name: Mixed alluvial — Drainage Class: unknown

Soil Tax Subgroup: Unknown — Confirm Map Type: ☒ Yes ☐ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 4/2			silt loam, dry
4-18	B	10YR 4/4			clay loam , moist

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

No field indicators of reducing soil conditions present. Soil does not satisfy hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

Is this Sampling within a Wetland? ☐ Yes ☒ No

Remarks

Sample area does not satisfy three mandatory wetland criteria.
The upland data plot for 12b up and 12c up are the same. Upland sample was taken on the piece of upland separating the two adjacent wetland areas.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 24, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13 wetland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Acer negundo	Tree	FAC:
Acer rubrum	Sapling	FAC
Acer negundo	Sapling	FAC+
Cornus amomum	Shrub	FACW
Lonicera japonica	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 80.00%

If the FAC-neutral test is used, this data provides a secondary indicator of wetland hydrology

Remarks

Sample area satisfies hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations

Depth of surface water 2 (in.)

Depth to free water in pit surface (in.)

Depth to saturated soil surface (in.)

Primary Wetland Hydrology Indicators

- ☒ Inundated
- ☒ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks

Field indicators of supporting wetland hydrology observed; satisfies criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 24, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13 wetland

SOILS

Soil Map Unit Name: Unmapped

Drainage Class: unknown

Soil Tax Subgroup: Unknown

Confirm Map Type: ☐ Yes ☒ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 3/1	none	none	clay loam, saturated
4-18	B	5GY 3/1	none	none	clay loam, saturated

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☒ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☒ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

Sulfidic odor in surface layer. Field indicators of reducing soil conditions; sample area satisfies hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☒ Yes ☐ No

Hydric Soils Present? ☒ Yes ☐ No

Is this Sampling within a Wetland? ☒ Yes ☐ No

Remarks

Sample area satisfies all three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 10, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13 upland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Robinia pseudoacacia	Tree	FACU-
Platanus occidentalis	Tree	FACW-
Robinia pseudoacacia	Herb	FACU-
Lonicera japonica	Herb	FAC-
Geum canadense	Herb	FACU

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 20.00%

If the FAC-neutral test is used, this data does NOT provide a secondary indicator of wetland hydrology

Remarks

Sample area does not satisfy hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations

Depth of surface water none (in.)

Depth to free water in pit >18 (in.)

Depth to saturated soil > 18 (in.)

Primary Wetland Hydrology Indicators

- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks

No indicators of supporting wetland hydrology observed; does not satisfy criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 10, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13 upland

SOILS

Soil Map Unit Name: Unmapped — Drainage Class: unknown

Soil Tax Subgroup: Unknown — Confirm Map Type: ☐ Yes ☐ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18	B	10YR 4/4	none		sandy loam,moist

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

No field indicators of reducing soil conditions present. Sample area does not satisfy hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

Is this Sampling within a Wetland? ☐ Yes ☒ No

Remarks

Sample area does not satisfy all three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 24, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13a wetland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Acer rubrum	Tree	FAC
Platanus occidentalis	Tree	FACW-
Nyssa sylvatica	Sapling	FACW+
Toxicodendron radicans	Vine	FAC
Toxicodendron vernix	Shrub	OBL
Ulmus americana	Shrub	FACW-
Lonicera japonica	Herb	FAC-

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 85.71%

If the FAC-neutral test is used, this data provides a secondary indicator of wetland hydrology

Remarks

Sample area satisfies hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations

Depth of surface water none (in.)

Depth to free water in pit 5 (in.)

Depth to saturated soil surface (in.)

Primary Wetland Hydrology Indicators

- ☐ Inundated
- ☒ Saturated in Upper 12 Inches
- ☒ Water Marks
- ☒ Drift Lines
- ☒ Sediment Deposits
- ☒ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks

Field indicators of supporting wetland hydrology observed; satisfies criterion.
Area inundated by daily tide.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 24, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13a wetland

SOILS

Soil Map Unit Name: Mixed alluvial

Drainage Class: unknown

Soil Tax Subgroup: Unknown

Confirm Map Type: ☒ Yes ☐ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	A	10YR 4/3	7.5YR 4/6	few, med., faint	silt loam, part. decomposed org. matter
2-16	B	5Y 3/1	10YR 4/4	few, course, prominent	silt loam, saturated
16-21	B2	5Y 6/2			sandy loam, saturated

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

Sample area satisfies hydric soils criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☒ Yes ☐ No

Hydric Soils Present? ☒ Yes ☐ No

Is this Sampling within a Wetland? ☒ Yes ☐ No

Remarks

Sample area does satisfy three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study
Applicant: FHWA, VDOT, MSHA, DCDPW
Investigator: Eileen Straughan
Do Normal Circumstances exist on the site? ☒ Yes ☐ No
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No
Is the area a Problem Area? ☐ Yes ☒ No

Date: April 11, 1997
County: City of Alexandria
State: Virginia
Community ID:
Transect ID:
Plot ID: 13a upland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Quercus sp	Tree	UNK
Prunus serotina	Tree	FACU
Prunus serotina	Sapling	FACU
Smilax rotundifolia	Vine	FAC
Lonicera japonica	Herb	FAC-
Allium canadense	Herb	FACU

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 16.67%

If the FAC-neutral test is used, this data does NOT provide a secondary indicator of wetland hydrology

Remarks
Sample area does not satisfy hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)
- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations
Depth of surface water none (in.)
Depth to free water in pit >18 (in.)
Depth to saturated soil > 18 (in.)

Primary Wetland Hydrology Indicators
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators
- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks
No indicators of supporting wetland hydrology observed; does not satisfy criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study
Applicant: FHWA, VDOT, MSHA, DCDPW
Investigator: Eileen Straughan
Do Normal Circumstances exist on the site? ☒ Yes ☐ No
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No
Is the area a Problem Area? ☐ Yes ☒ No

Date: April 11, 1997
County: City of Alexandria
State: Virginia
Community ID:
Transect ID:
Plot ID: 13a upland

SOILS

Soil Map Unit Name: Mixed alluvial
Drainage Class: poor
Soil Tax Subgroup: Unknown
Confirm Map Type: ☐ Yes ☒ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12	A	10YR 5/6			sandy clay, moist
12-18	B	10YR 5/3	7.5YR 5/8	few, coarse, prominent	sandy clay, moist

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

No field indicators of reducing soil conditions present. Soil does not satisfy hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No
Wetland Hydrology Present? ☐ Yes ☒ No
Hydric Soils Present? ☐ Yes ☒ No
Is this Sampling within a Wetland? ☐ Yes ☒ No

Remarks

Sample area does not satisfy three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 11, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13b wetland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Platanus occidentalis	Tree	FACW-
Acer saccharinum	Tree	FACW
Toxicodendron vernix	Shrub	OBL
Lonicera japonica	Herb	FAC-
Impatiens capensis	Herb	FACW

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 80.00%

If the FAC-neutral test is used, this data provides a secondary indicator of wetland hydrology

Remarks

Sample area satisfies hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations

Depth of surface water none (in.)

Depth to free water in pit 8 (in.)

Depth to saturated soil 4 (in.)

Primary Wetland Hydrology Indicators

- ☐ Inundated
- ☒ Saturated in Upper 12 Inches
- ☒ Water Marks
- ☒ Drift Lines
- ☒ Sediment Deposits
- ☒ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks

Field indicators of supporting wetland hydrology observed; satisfies criterion.
Area inundated by daily tide.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 11, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13b wetland

SOILS

Soil Map Unit Name: Unmapped

Drainage Class: unknown

Soil Tax Subgroup: Unknown

Confirm Map Type: ☐ Yes ☐ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	A	10YR 3/2	7.5YR 4/6	few, fine, prom.	silt loam, moist
8-14	B	2.5Y 5/2	10YR 5/6 /	few, fine, prom.	clay loam, saturated
			N 2.5/1	com., med., prom.	
14+	refusal				auger/shovel refusal @ 14"

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☒ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

Indicators of reducing soil conditions; area satisfies hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☒ Yes ☐ No

Hydric Soils Present? ☒ Yes ☐ No

Is this Sampling within a Wetland? ☒ Yes ☐ No

Remarks

Sample area satisfies all three mandatory wetland criteria.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 11, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13b upland

VEGETATION

Dominant Plant Species	Stratum	Indicator
Platanus occidentalis	Tree	FACW-
Populus deltoides	Tree	FAC
Prunus serotina	Sapling	FACU
Rosa multiflora	Shrub	FACU
Lonicera japonica	Herb	FAC-
Smilax rotundifolia	Vine	FAC

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 50.00%

If the FAC-neutral test is used, this data does NOT provide a secondary indicator of wetland hydrology

Remarks

Sample area does not satisfy hydrophytic vegetation criterion.

HYDROLOGY

Recorded Data (explain in remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

Field Observations

Depth of surface water none (in.)

Depth to free water in pit >18 (in.)

Depth to saturated soil > 18 (in.)

Primary Wetland Hydrology Indicators

- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Wetland Hydrology Indicators

- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks

No indicators of supporting wetland hydrology observed; does not satisfy criterion.

CORPS DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Woodrow Wilson Bridge Improvement Study	Date: April 11, 1997
Applicant: FHWA, VDOT, MSHA, DCDPW	County: Fairfax
Investigator: Eileen Straughan	State: Virginia
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID:
Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No	Transect ID:
Is the area a Problem Area? ☐ Yes ☒ No	Plot ID: 13b upland

SOILS

Soil Map Unit Name: Mixed alluvium — Drainage Class: poor

Soil Tax Subgroup: Unknown — Confirm Map Type: ☐ Yes ☒ No

Soil Profile Description:

Depth (inches)	Horizon	Matrix Color (munsell moist)	Mottle Colors (munsell moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10	A	10YR 4/4	None		silt loam, moist
10-20	B	2.5YR 4/3	None		clay loam, moist

Soil Indicators

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Hydric Soils List
- ☐ Other (explain in Remarks)

Remarks

No field indicators of reducing soil conditions present. Soil does not satisfy hydric soil criterion.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

Is this Sampling within a Wetland? ☐ Yes ☒ No

Remarks

Sample area does not satisfy three mandatory wetland criteria.