









Wetland Function-Value Evaluation Form









Wetland I.D.	110614 JC 004 PFO
Complex Notes	Forms complex with 110614 JC 004 PSS
Latitude	41.11536153
Longitude	-75.67809973
Prepared by	W. Anderson, T. Lipp
Date	4/25/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	2.76 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	4,000 ft.
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	13, 15	Spring seeps observed in wetland.
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	1, 4, 5, 7, 9	
Nutrient Removal	Yes	No	5, 7	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	110614 JC 002B_PFO
Complex Notes	
Latitude	41.11141019
Longitude	-75.67584713
Prepared by	W. Anderson, T. Lipp
Date	4/25/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.03 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest
Distance to nearest roadway or other development	3200 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes			
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	102214_JC_001_PEM
Complex Notes	forms complex with 102114_JC_001A_PSS, 102114_JC_001B_PFO and, 102114_JC_001_PFO
Latitude	41.07139763
Longitude	-75.65274413
Prepared by	W. Anderson, T. Lipp *
Date	4/25/2017
Wetland Impact Type	See impact table
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.12 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	0 ft.
Dominant wetland systems present	PEM/PSS/PFO
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	4

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes	Yes	7, 8, 9, 13	
Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 13, 18	
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	4, 5, 7, 9, 10, 13, 16	
Nutrient Removal	Yes	Yes	3, 5, 7, 8, 9, 10, 11, 13	
Production Export	Yes	Yes	1, 2, 4, 7, 8,	
Sediment/Shoreline Stabilization	Yes	No	3, 4, 7, 13, 15	
Wildlife Habitat	Yes	Yes	3, 4, 5, 7, 8	
Recreation	No			
Educational/Scientific Value	No			
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	112414 JC 004 PFO
Complex Notes	
Latitude	41.0807245
Longitude	-75.66481978
Prepared by	W. Anderson, T. Lipp
Date	4/25/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	5.58 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Highway
Distance to nearest roadway or other development	25 ft.
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	Yes	Yes	1, 2, 4, 7, 8	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		3, 4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	082515 BT 004 PEM
Complex Notes	
Latitude	41.0819609
Longitude	-75.66591533
Prepared by	W. Anderson, T. Lipp
Date	4/25/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest
Distance to nearest roadway or other development	900 ft.
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		3, 4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	082515 BT 003 PEM
Complex Notes	
Latitude	41.08189419
Longitude	-75.66313061
Prepared by	W. Anderson, T. Lipp
Date	4/25/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.01 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest
Distance to nearest roadway or other development	625 ft.
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		3, 4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	102314 JC 004 PEM			
Latitude	41.080274			
Longitude	-75.658926			
Prepared by	David Brightbill			
Date	8/16/2018			
Wetland Impact Type	See Impact Table			
Wetland Impact Area	See Impact Table *			
Evaluation based on: Office or Field? (select)	Office *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	See Impact Table			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	Highway			
Distance to nearest roadway or other development	15 feet			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)	No			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No		
 Floodflow Alteration	Yes	Yes	9, 18	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	Yes	1, 2	
Nutrient Removal	Yes	No	5, 9	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No	3	
 Wildlife Habitat	No	No		In between East and West bound lanes for Route 80
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	102314_JC_002_PSS
Complex Notes	Forms complex with 102314_JC_001_PEM and 102314_JC_002_PFO
Latitude	41.07697599
Longitude	-75.65642037
Prepared by	W. Anderson, T. Lipp
Date	4/26/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	15.47 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	0 ft.
Dominant wetland systems present	PEM/PSS/PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	Unknown

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes	Yes	9, 10, 13, 15	
Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 9, 10, 13, 16, 18	
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	3, 4, 5, 7, 9, 10, 11, 12, 13, 14, 15, 16	
Nutrient Removal	Yes	Yes	3, 5, 7, 8, 9, 10, 11, 12, 13, 14	
Production Export	Yes	Yes	1, 2, 4, 7, 8, 9	
Sediment/Shoreline Stabilization	No			
Wildlife Habitat	Yes	Yes	4, 5, 7, 8, 9, 11, 13, 14, 15,	
Recreation	No			
Educational/Scientific Value	Yes	No	1, 2	
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	Yes		1	
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	042415_JC_1005_PEM
Complex Notes	Forms complex with 011117_GM_1001_PFO, 011117_GM_1001_PSS, and 050115_JC_1001_PFO
Latitude	41.05200101
Longitude	-75.62919542
Prepared by	W. Anderson, T. Lipp
Date	4/26/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	14.52 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	0 ft.
Dominant wetland systems present	PEM/PFO/PSS
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	Unknown
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	10, 13, 15	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	3, 4, 5, 7, 9	
Nutrient Removal	Yes	Yes	3, 5, 7, 8, 9, 10, 11	
 Production Export	Yes	Yes	1, 2, 4, 7, 8	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	4, 5, 7, 8, 9, 13, 14	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	042415 JC 1003 PSS
Complex Notes	
Latitude	41.04223613
Longitude	-75.62700836
Prepared by	W. Anderson, T. Lipp
Date	4/26/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.08 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	0 ft.
Dominant wetland systems present	PSS
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	042415_JC_1001_PFO
Complex Notes	Forms complex with 011217_GM_1002_PFO and 042415_JC_1002_PEM
Latitude	41.03117277
Longitude	-75.62459348
Prepared by	W. Anderson, T. Lipp
Date	4/27/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	19.84 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way
Distance to nearest roadway or other development	0 ft.
Dominant wetland systems present	PEM/PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	4
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	7, 9, 13, 15	
 Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 9, 10, 13	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	4, 5, 7, 9, 10, 11, 14, 15, 16	
Nutrient Removal	Yes	Yes	3, 5, 7, 8, 9, 10, 11, 12, 13	
 Production Export	Yes	No	2, 4, 7	
Sediment/Shoreline Stabilization	Yes	Yes	5, 7, 12, 13, 14, 15	
 Wildlife Habitat	Yes	Yes	4, 5, 6, 7, 8, 9, 10, 13	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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Wetland Function-Value Evaluation Form









Wetland I.D.	110316 GM 1001 PEM
Complex Notes	Forms complex with 110316 GM 1001 PFO
Latitude	41.01040102
Longitude	-75.61554668
Prepared by	G. McBrien, E. Genuardi
Date	4/17/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	1.51 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	forested
Distance to nearest roadway or other development	250 ft.
Dominant wetland systems present	PEM/PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	Two
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	2, 7, 13	
 Floodflow Alteration	Yes		5, 9, 13	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes		10	
Nutrient Removal	Yes		5, 7, 12	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		5, 7	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	042115 JC 1003 PFO
Complex Notes	
Latitude	40.99660348
Longitude	-75.61118346
Prepared by	W. Anderson, T. Lipp
Date	4/27/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	1.62 acres
Human Made? (select)	Yes
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Pipeline right-of-way, Residential, Roadway
Distance to nearest roadway or other development	40 ft.
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	1

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 9, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	Yes	No	2, 4	
Sediment/Shoreline Stabilization	Yes	No	2, 5	
 Wildlife Habitat	Yes	Yes	1, 4, 5, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	042315_JC_1001_PFO
Complex Notes	Forms complex with 042315_JC_1002_PEM and 042315_JC_1003_PEM
Latitude	40.98274871
Longitude	-75.62002514
Prepared by	E. Genuardi, G. McBrien
Date	4/28/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	
Total Area of Wetland	9.79 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"
Adjacent land use	BUCKEYE ROW and RESIDENTIAL
Distance to nearest roadway or other development	1 FT
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	Four
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes		4, 7, 9, 15	
Floodflow Alteration	Yes		2, 5, 6, 7, 8, 13, 18	
Fish and Shellfish Habitat	Yes		1, 2, 8	
Sediment/Toxicant Retention	Yes	Yes	1, 3, 4, 5, 10, 11, 14, 15, 16	
Nutrient Removal	Yes		2, 3, 5, 7, 8, 10, 14	
Production Export	Yes		1, 2, 4, 7, 8, 12	
Sediment/Shoreline Stabilization	Yes		1, 12, 13, 14	
Wildlife Habitat	Yes		4, 8, 11, 13, 19	
Recreation	No			
Educational/Scientific Value				
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	042315 JC 1004 PFO
Complex Notes	
Latitude	40.97237156
Longitude	-75.62641667
Prepared by	N. Jones, W. Anderson
Date	4/18/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.16 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Mature Forest, Pipeline ROW
Distance to nearest roadway or other development	300 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 2, 15	
 Floodflow Alteration	Yes	Yes	1, 5, 9	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2	
Nutrient Removal	Yes	No	4	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	010716 GM 1001 VP
Complex Notes	
Latitude	40.97006211
Longitude	-75.62743273
Prepared by	N. Jones, W. Anderson
Date	4/18/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.03 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Mature Forest, roadway
Distance to nearest roadway or other development	50 feet
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 2, 15	
 Floodflow Alteration	Yes	Yes	1, 5, 9	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2	
Nutrient Removal	Yes	No	4	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	060117_MB_1001			
Latitude				
Longitude				
Prepared by	M. Benfer, J.Dancho *			
Date	6/1/2017 *			
Wetland Impact Type				
Wetland Impact Area				
Evaluation based on: Office or Field? (select)				
Corps manual wetland delineation completed? (select)				
Total Area of Wetland				
Human Made? (select)				
Is wetland part of a wildlife corridor or "habitat island"? (select)				
Adjacent land use				
Distance to nearest roadway or other development				
Dominant wetland systems present				
Contiguous undeveloped buffer zone present? (select)				
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2,6,7,8	
 Floodflow Alteration	Yes		3,5,6,8,9,10,13,18	
 Fish and Shellfish Habitat	Yes		1,4,8,14,15,16	
Sediment/Toxicant Retention	Yes		1,2,3,5,9,10,16	
Nutrient Removal	Yes		3,4,5,8,9,11,13	
 Production Export	Yes		2,4,7,12	
Sediment/Shoreline Stabilization	Yes		2,3,4,6,7,12,13,14	
 Wildlife Habitat	Yes		6,7,8,11,13,17,19,20	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	060217_MB_1001			
Latitude				
Longitude				
Prepared by	M. Benfer, J.Dancho			
Date	6/2/2017			
Wetland Impact Type				
Wetland Impact Area				
Evaluation based on: Office or Field? (select)				
Corps manual wetland delineation completed? (select)				
Total Area of Wetland				
Human Made? (select)				
Is wetland part of a wildlife corridor or "habitat island"? (select)				
Adjacent land use				
Distance to nearest roadway or other development				
Dominant wetland systems present				
Contiguous undeveloped buffer zone present? (select)				
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2,4,6,7	
 Floodflow Alteration	Yes		3,5,6,8,9,10,13,18	
 Fish and Shellfish Habitat	Yes		1,4,8,14,15,16	
Sediment/Toxicant Retention	Yes		1,2,3,5,9,10,16	
Nutrient Removal	Yes		3,4,6,8,9,13	
 Production Export	Yes		2,7,12	
Sediment/Shoreline Stabilization	Yes		2,3,4,6,7,12,14,15	
 Wildlife Habitat	Yes		6,7,11,13,17	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	050615_JC_1001_PFO
Complex Notes	Forms complex with 011116_GM_1001_PFO
Latitude	40.95462555
Longitude	-75.63061491
Prepared by	N. Jones / B. Thompson
Date	4/4/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	8.92 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forested wetlands, Forested uplands, Pipeline and Powerline ROW
Distance to nearest roadway or other development	500 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	9, 13, 15	
 Floodflow Alteration	Yes	No	2, 5, 7, 13, 16	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	Yes	1, 2, 6, 10, 11, 14, 15	
Nutrient Removal	Yes	No	4, 9, 12	
 Production Export	Yes	No	1, 4, 7	
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	No	1, 5, 8	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	061615_DB_1002_PFO
Complex Notes	Forms complex with 061615_DB_1003_PSS
Latitude	40.94727042
Longitude	-75.63273248
Prepared by	N. Jones / B. Thompson
Date	4/4/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	2.42 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forested wetland and upland areas and pipeline and transmission ROW
Distance to nearest roadway or other development	500 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	9, 13, 15	
 Floodflow Alteration	Yes	No	2, 5, 7, 13, 16	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	Yes	1, 2, 6, 10, 11, 14, 15	
Nutrient Removal	Yes	No	4, 9, 12	
 Production Export	Yes	No	1, 4, 7	
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	No	1, 5, 8	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	061615 DB 1001 PEM
Complex Notes	
Latitude	40.94310291
Longitude	-75.63446546
Prepared by	N. Jones / B. Thompson
Date	4/4/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.21 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forested wetlands, Forested uplands, Pipeline and Powerline ROW
Distance to nearest roadway or other development	500 feet
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	9, 15	
 Floodflow Alteration	Yes	Yes	2, 5, 7, 13, 16	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	Yes	1, 2, 6, 10, 11, 14, 15	
Nutrient Removal	Yes	No	4, 9, 12	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	No	5, 8	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	020117 GM 1006 PFO
Complex Notes	
Latitude	40.90273812
Longitude	-75.59933179
Prepared by	N. Jones / B. Thompson
Date	4/5/2017
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table *
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	1.09 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Mature Forest
Distance to nearest roadway or other development	500 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 2, 7,13,15	
 Floodflow Alteration	Yes	No	2, 3, 5, 7	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2, 6	
Nutrient Removal	Yes	No	4	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	020117_GM_1001_PUB			
Latitude	40.90197674			
Longitude	-75.59401056			
Prepared by	N. Jones / B. Thompson			
Date	4/5/2017			
Wetland Impact Type	See impact table			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.1 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Mature forest			
Distance to nearest roadway or other development	1000 feet			
Dominant wetland systems present	PUB			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 2, 7,13,15	
 Floodflow Alteration	Yes	No	2, 3, 5, 7	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2, 6	
Nutrient Removal	Yes	No	4	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	041018 WA 002 PSS			
Latitude	40.874201			
Longitude	-75.544589			
Prepared by	W. Anderson, M. Tarnowski			
Date	4/10/2018			
Wetland Impact Type	See impact table			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.08			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Roadway, Residential			
Distance to nearest roadway or other development	100			
Dominant wetland systems present	PSS			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	2, 7, 10, 13, 15	
 Floodflow Alteration	No	No		
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	No	No		
Nutrient Removal	No	No		
 Production Export	Yes	No	2, 4, 7, 10	
Sediment/Shoreline Stabilization	Yes	No	1, 2, 6, 13	
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	052915_JC_1001_PEM
Complex Notes	0
Latitude	40.87216043
Longitude	-75.54160762
Prepared by	WRA
Date	6/6/2017
Wetland Impact Type	
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.18 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, roadway
Distance to nearest roadway or other development	50'
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	1

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	No			
Floodflow Alteration	Yes	Yes	5, 6, 9, 13, 18	
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
Production Export	No			
Sediment/Shoreline Stabilization	Yes	Yes	2, 3, 4, 12, 13, 15	
Wildlife Habitat	No			
Recreation	No			
Educational/Scientific Value	No			
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	051115_JC_1001_PEM
Complex Notes	
Latitude	40.86556566
Longitude	-75.53823157
Prepared by	WRA
Date	6/6/2017
Wetland Impact Type	
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.26 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Residential, forest, roadway
Distance to nearest roadway or other development	0'
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	1

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes	No	2, 7, 15	
Floodflow Alteration	Yes	Yes	5, 6, 9, 13, 18	
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
Production Export	No			
Sediment/Shoreline Stabilization	Yes	Yes	2, 3, 4, 12, 13, 15	
Wildlife Habitat	No			
Recreation	No			
Educational/Scientific Value	No			
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	090914 WA 001 PSS			
Latitude	40.837772			
Longitude	-75.509236			
Prepared by	W. Anderson, D. Brightbill			
Date	3/30/2018			
Wetland Impact Type	See impact table			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.22			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Agriculture			
Distance to nearest roadway or other development	40			
Dominant wetland systems present	PSS			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	Yes	No	3,5,6	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	1,2	
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	No	3	
 Wildlife Habitat	Yes	Yes	4,5,8,13	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	90914 WA 002 PSS			
Latitude	40.83713525			
Longitude	-75.50873627			
Prepared by	David Brightbill			
Date	8/16/2018			
Wetland Impact Type	See Impact Table			
Wetland Impact Area	See Impact Table *			
Evaluation based on: Office or Field? (select)	Office *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.02 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Roadway, Railroad			
Distance to nearest roadway or other development	10'			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 9	
 Floodflow Alteration	Yes	Yes	3, 5, 6, 10, 13	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	10	
Nutrient Removal	Yes	No	8, 9	
 Production Export	No	No		
Sediment/Shoreline Stabilization	Yes	No	3, 4,	
 Wildlife Habitat	Yes	Yes	3, 4, 5, 7	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	041117_GM_1001_PFO_PSS (North side of stream)			
Latitude	40.82439			
Longitude	-75.499285			
Prepared by	G. McBrien, E. Genuardi			
Date	4/12/2017			
Wetland Impact Type	See impact table			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.34 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	forested, agricultural, residential			
Distance to nearest roadway or other development	30 ft from driveway on west side of study area			
Dominant wetland systems present	PFO, PSS, PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 6, 7, 12, 13	
 Floodflow Alteration	Yes		16, 18	
 Fish and Shellfish Habitat	Yes		1, 4, 8, 9	
Sediment/Toxicant Retention	Yes		4, 13, 14	
Nutrient Removal	Yes		5, 6, 7, 8, 9	
 Production Export	Yes		2, 4, 7, 8	
Sediment/Shoreline Stabilization	Yes		2, 5, 7, 12, 14	
 Wildlife Habitat	Yes	Yes	7, 8, 13, 16, 17	
Recreation	Yes		3	
 Educational/Scientific Value	Yes		2	
 Uniqueness/Heritage	Yes		7	
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	Yes		2	bog turtle
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	072618 WA 001 PEM			
Latitude	40.821835			
Longitude	-75.479249			
Prepared by	W. Anderson, B. Cooper			
Date	7/26/2018			
Wetland Impact Type	See Impact Table			
Wetland Impact Area	See Impact Table			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.45 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Power line ROW			
Distance to nearest roadway or other development	0 ft.			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 4, 7, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	3, 4, 5, 7, 8, 14, 17	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	072618 WA 002 PEM			
Latitude	40.821385			
Longitude	-75.479349			
Prepared by	W. Anderson, B. Cooper			
Date	7/26/2018			
Wetland Impact Type	See impact Table			
Wetland Impact Area	See impact Table ²			
Evaluation based on: Office or Field? (select)	Field *			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.04 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Power line ROW			
Distance to nearest roadway or other development	90 ft.			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	1, 4, 7, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	No	2, 3, 5, 12, 15	
 Wildlife Habitat	Yes	Yes	3, 4, 5, 7, 8, 14, 17	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1