Photo log attached?

Yes



Upstream photograph.



Stream substrate.



Downstream photograph.



Under cut bank and development of stream substrate begins.



Under cut bank with an absence of vegetation within the stream bed.



Stream substrate and vegetation transition.



Stream substrate.

Project	21028 Hoffman Falls Wetland Delineation
ID	351081
Survey Date	06/01/2023
User	Bennett Amberger
General Information	
Project ID #	93-ST001-2
Site Name	21028 Hoffman Falls
Date	06/01/2023
Time	12:04 PM
Location	
Latitude	42.94529167
Longitude	-75.75552433
nvestigator(s)	RS GH
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	The surrounding land is successional scrub-shrub that borders residential properties. Moderate baseflow observed during the delineation.
Step 2: Site conditions during	g field assessment
Describe Site Condition	This stream flows under a road via culvert. No other observations of man-made or natural disturbances were observed during the delineation.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	×
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	x
Shelving	Present
Shelving Indicator Location	a
Other Shelving Indicators	
Channel bar	Present
Channel Bar Indicator Location	X
Other Channel Indicators	unvegetated, vegetation transition (go to veg. indicators), sediment transition (go to sed.
	indicators)

Location	
Vegetation Transition Indicator Location	x
Sediment Transition Indicator Location	b
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	Present
Soil Development Indicator Location	x
Changes in character of soil	Present
Changes in character of soil Indicator Location	x
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	vegetation absent to:, woody shrubs to:
vegetation absent to:	woody shrubs
woody shrubs to:	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	x

Ancillary Indicators

Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:
Wracking Indicator Location	b
Presence of Large Wood Indicator Location	b
Other observed indicators?	No

Step 4: Additional Information

Is additional information needed to support this determination?

No

Step 5: Rationale

Describe rationale for location of OHWM

The OHWM occurs where undercut banks are developed, a vegetation transition occurs, and where stream substrate and sorting forms. These indicators were the most consistent of those observed and persisted throughout the entire reach of the delineated stream.

Additional observations or notes

Photos

Photo log attached?

Yes



Upstream photograph.



Stream substrate, looking downstream.



Undercut bank.



Transition in substrate type and point bar.



Undercut bank with wracking of organic material.



Undercut bank, with stream substrate



Point bar with sorted stream substrate.

Project	21028 Hoffman Falls Wetland Delineation
ID	352398
Survey Date	06/01/2023
Jser	Rachael Foote
General Information	Rachael Foote
Project ID #	93-ST002
Site Name	Hoffman Falls
Date	06/01/2023
1.00	Control to the second
Time	11:35 AM
Location	42.04527447
Latitude	42.94537117
Longitude	-75.754421
nvestigator(s)	BA GH RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Adjacent land use is residential property and scrub-shrub wetland complex. Stream flow into DEC mapped class C(T) stream. Moderate baseflow was observed during the delineation.
Step 2: Site conditions during	g field assessment
Describe Site Condition	This stream crosses a driveway via culvert.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope ndicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	Present
Shelving Indicator Location	x
Other Shelving Indicators	man-made berms or levees
Man-made berms or levees ndicator Location	a
Channel bar	Present
Channel Bar Indicator Location	b

Other Channel Indicators

unvegetated

Unvegetated Indicator Location	b
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b·
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	b
Other changes in particle- sized distribution	transition
transition from	Silt to gravel
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	х
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	х
Other observed indicators?	No
Step 4: Additional Information	n.
Is additional information needed to support this	No

Step 5: Rationale

Describe rationale for location of OHWM

The OHWM occurs where vegetation transitions from absent to woody shrubs, at the break in slope, and at the extent of wracking. These indicators were the most persistent of those observed throughout the entire reach of the delineated stream.

Additional observations or notes

Photos

Photo log attached?

Yes



Dense vegetation within stream channel.



Streambed and substrate with break in slope and transition in vegetation present.



Stream substrate, with some wracking visible.



Undercut bank with some wracking.



Photo of stream flowing within the PSS wetland complex.



Break in slope visible in upstream facing photograph.

Project	21028 Hoffman Falls Wetland Delineation
ID	352399
Survey Date	06/01/2023
User	Rachael Foote
General Information	
Project ID #	93-ST003A
Site Name	Hoffman Falls
Date	06/01/2023
Time	03:51 PM
Location	
Latitude	42.94406717
Longitude	-75.75733133
Datum	NAD83/2011
Investigator(s)	BA GH RS
Step 1: Site overview from rer	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent precipitation within past 72+ hrs. Adjacent land use is a mix of active agriculture, residential property, and forested uplands. Moderate to low baseflow was observed during delineation.
Step 2: Site conditions during	field assessment
Describe Site Condition	This stream occurs within a man-made ditch and flows through multiple culverts.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	
Shelving	Present
Shelving Indicator Location	a
Other Shelving Indicators	man-made berms or levees
Man-made berms or levees Indicator Location	x
Channel bar	Present
Channel Bar Indicator Location	x
Other Channel Indicators	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator	

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs at the development of alternate channel bars, and where absent vegetation transitions to forbs. These indicators persist throughout the delineated reach of this stream.
Additional observations or notes	Fish present and natural development of alternate bars present.
Photos	
Photo log attached?	Yes



Upstream photo, with vegetation transition present.



Downstream photo, with vegetation transition present.



Stream substrate.

Rapid Ordinary riigii We	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	352964
Survey Date	06/02/2023
User	Rachael Foote
General Information	
Project ID #	93-ST004
Site Name	Hoffman Falls
Date	06/02/2023
Time	01:06 PM
Location	
Latitude	42.91965967
Longitude	-75.63540467
Datum	NAD83/2011
Investigator(s)	RF RS
Step 1: Site overview from ren	note and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Topographic mapping indicates the presence of a channel within forest.
Step 2: Site conditions during	field assessment
Describe Site Condition	Stream gradient is steep in several areas of the stream reach. No flow at the time of delineation. possibly previously ditched.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	×
Other break in slope indicators	on the bank
On the bank Indicator Location	x
Shelving	Present
Shelving Indicator Location	x
Other Shelving Indicators	shelf at top of bank
	V
shelf at top of bank Indicator Location	

Location

Channel Bar Indicator

X

Other Channel Indicators	vegetation transition (go to veg. indicators)
Vegetation Transition Indicator Location	b
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	Present
Soil Development Indicator Location	a
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Information	
Is additional information needed to support this determination?	No
Step 5: Rationale	

Additional observations or notes

Photos

Photo log attached?

Yes



Break in slope, change in particle size distribution.



wracking, change in particle size distribution, break in slope.



wracking, Break in slope, change in particle size distribution, change in vegetation,



break in slope, intact roots,



substrate.

Project	21028 Hoffman Falls Wetland Delineation
ID	354990
Survey Date	06/02/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST004
Site Name	Hoffman Falls
Date	06/02/2023
Time	11:21 AM
Location	
Latitude	42.91929183
Longitude	-75.63949367
Datum	NAD83/2011
Investigator(s)	BA, GH
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	The adjacent land use is primarily forested wetland and active agriculture. Low baseflow was observed during the delineation
Step 2: Site conditions during	g field assessment
Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	on the bank, undercut bank
On the bank Indicator Location	X
Undercut Bank Indicator Location	X
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator	b

Location

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.), bedforms (e.g., imbricated clasts, gravel sheets, etc.), erosional bedload indicators (e.g., obstacle marks, scour, smoothing, etc.)
Deposition Bedload Indicator Location	b
Bedforms Indicator Location	b
Erosional Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	b
Other changes in particle- sized distribution	transition
transition from	Silt to cobble/gravel to bedrock
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	vegetation absent to:
egetation absent to:	forbs
legetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:, Leaf litter disturbed or washed away:, Water staining:, Weathered clasts or bedrock:
Wracking Indicator Location	b
Presence of Large Wood Indicator Location	а
Leaf Litter Indicator Location	x
Water Staining Indicator Location	b
Weathered clasts or bedrock	h

Other observed indicators?

Step 4: Additional Information

Is additional information needed to support this determination?

No

No

Step 5: Rationale

Describe rationale for location of OHWM

The OHWM occurs at the break in slope with exposed roots in intact soil layer, where absent vegetation transitions to forbs, and where leaf litter has been washed away. These indicators were the most consistent and persisted throughout the entire reach of the delineated stream.

Additional observations or notes

Photos

Photo log attached?

Yes



Upstream photograph with break in slope and vegetation transition present.



Downstream photograph with exposed root layer within intact soil layer present.



Stream substrate photo.



Exposed roots within intact soils layer and break in slope present.



Presence of woody material above the OHWM.



Evidence of bedload erosional forces occurring below the OHWM within bedrock substrate of streambed.



Stream substrate photo.

Project	21028 Hoffman Falls Wetland Delineation
Project	And the state of t
ID .	355005
Survey Date	06/02/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST005
Site Name	Hoffman Falls
Date	06/02/2023
Time	12:42 PM
Location	
Latitude	42.91962217
Longitude	-75.63950117
Datum	NAD83/2011
Investigator(s)	BA GH
Step 1: Site overview from re	emote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	The adjacent land use is primarily forested wetland and active agriculture. Low baseflow was observed during the delineation
Step 2: Site conditions during	g field assessment
Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	on the bank
On the bank Indicator Location	x
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	

Soil development

Changes in character of soil	Present
Changes in character of soil Indicator Location	x
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	x
Other changes in particle- sized distribution	transition
transition from	Silt to cobble/gravel
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X .
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Leaf litter disturbed or washed away:, Water staining:
Leaf Litter Indicator Location	x
Water Staining Indicator Location	a
Other observed indicators?	
Step 4: Additional Information	
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs at the break in slope, where soil character development and sorting begins, and where absent vegetation transitions to forbs. These indicators were the most consistent and persisted throughout the entire reach of the delineated stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Stream substrate, with water staining above the OHWM.



Upstream photograph with transition in vegetation.



Stream substrate, with change in soil character.



Downstream photograph, with vegetation transition present.

Project	21028 Hoffman Falls Wetland Delineation
ID	355672
Survey Date	06/06/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST002-2
Site Name	Hoffman Falls
Date	05/31/2023
Time	11:40 AM
Location	
Latitude	42.94250633
Longitude	-75.759507
Investigator(s)	BA, GH
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Stream exists within forested area adjacet to active agriculture. Stream corresponds to NYSDEC mapped class C stream.
Step 2: Site conditions during	field assessment
Describe Site Condition	Stream connects to wetlands 33-W005 and 33-W003.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	х
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	
Channel bar	Present
Channel Bar Indicator Location	b
Other Channel Indicators	
Instream bedforms and other bedload transport evidence	Present

Location

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	x
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	х
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	х
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Information	n en
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM occurs at extent of wracking, break in slope at undercut banks further downstream.
Additional observations or	

Photo log attached?

Yes



Break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size distribution, change in vegetation type and density.



Change in vegetation type and density, change in particle size distribution.



Break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size distribution, change in vegetation type and density.

Project	21028 Hoffman Falls Wetland Delineation
D	356371
Survey Date	06/06/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST006
Site Name	Hoffman Falls
Date	06/06/2023
Time	03:31 PM
Location	
Latitude	42.91376783
Longitude	-75.6406
Datum	NAD83/2011
Investigator(s)	BA, ME
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Lies within wetland, typical flow conditions at time of survey.
Step 2: Site conditions during	field assessment
Describe Site Condition	Lies within wetland, no apparent man made disturbance.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	a
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	

Mudcracks

Present

Mudcracks Indicator Location	b
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	х
General Vegetation Change	vegetation absent to:
vegetation absent to:	graminoids
Vegetation matted down and/or bent:	Present
Matted/Bent Vegetation Indicator Location	b
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Water staining:
Wracking Indicator Location	b
Water Staining Indicator Location	b
Other observed indicators?	
Step 4: Additional Information	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Un-vegetated stream channel with vegetation that is bent down. It is diffusive through a wetland as it flows south.
Additional observations or notes	
Photos	
Photo log attached?	Yes



Mud cracks.



Break in slope



Mud cracks, change in vegetation type and density.



Mud cracks.



Mudcracks, change in vegetation density, break in slope.

Project	21028 Hoffman Falls Wetland Delineation
ID	356372
Survey Date	06/06/2023
User	Bennett Amberger
General Information	
Project ID #	26-ST001
Site Name	Hoffman Falls
Date	06/06/2023
Time	04:07 PM
Location	
Latitude	42.9133045
Longitude	-75.64111783
Datum	NAD83/2011
Investigator(s)	BA, AL, ME
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	surrounding area is previously developed agriculture.
Step 2: Site conditions during	g field assessment
Describe Site Condition	fed via culvert under roadway, joins with wetland at southern tip.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
nstream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
2011 development	

Mudcracks

Changes in character of soil

Present

Mudcracks Indicator b Location Changes in particle-sized distribution **Vegetation Indicators** Change in vegetation type and/or density Vegetation matted down Present and/or bent: Matted/Bent Vegetation X Indicator Location Exposed roots below intact soil layer: **Ancillary Indicators Ancillary Indicators** Other observed indicators? No Step 4: Additional Information Is additional information No needed to support this determination? Step 5: Rationale Describe rationale for Break in slope was present at the OHWM throughout the entire reach of stream. Matted location of OHWM vegetation and mudcracks were noted below the OHWM in the streambed. Additional observations or notes Photos

Photo log attached?

Photos

Yes





stream hidden under vegetation.



stream hidden under vegetation.



mud cracks near culvert, change in vegetation.



change in vegetation, mud cracks, break in slope



change in vegetation.

En La Carta de Carta	
Project	21028 Hoffman Falls Wetland Delineation
ID	355513
Survey Date	06/12/2023
User	Megan Aubertine
General Information	
Project ID #	10-ST002
Site Name	Hoffman Falls 21028
Date	06/12/2023
Time	03:19 PM
Location	
Latitude	42.91699017
Longitude	-75.66919967
Investigator(s)	RN MA
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Low area between agricultural field and successional slope.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Rain within the past day. Drains culvert and flows into wetland.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	Х
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	

Changes in particle-sized

distribution

Vegetation Indicators

Change in vegetation type and/or density

Present

Vegetation Indicator

Location

X

General Vegetation Change

vegetation absent to:

vegetation absent to:

woody shrubs

Vegetation matted down

and/or bent:

Exposed roots below intact

soil layer:

Ancillary Indicators

Ancillary Indicators

Other observed indicators?

No

Step 4: Additional Information

Is additional information needed to support this determination?

No

Step 5: Rationale

Describe rationale for location of OHWM

Break in slope with vegetation absent to woody shrubs along entirety of stream at the OHWM.

Additional observations or

notes

Photos

Photo log attached?



Change in vegetation.



subtle break in slope and change in vegetation.



Change in vegetation.

	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	360271
Survey Date	06/21/2023
User	Josh Bean
General Information	
Project ID #	66-ST004
Site Name	Hoffman Falls
Date	06/21/2023
Time	02:40 PM
Location	
Latitude	42.94974439
Longitude	-75.74348518
Datum	WGS84
Investigator(s)	JB, AT
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	surrounding area is upland forest with trails running through. typical flow conditions at time of survey.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Low base flow. Cobble, gravel, sandy substrate, no barriers impacting flow. Bordered by dense scrub shrub riparian habitat
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	

Soil development

Mudcracks	P
Changes in particle-sized distribution	Present
Changes in particle-sized	X
distribution Indicator Location	
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Break in slope and change in vegetation type and density were both the strongest indicators for stream OHWM.
Additional observations or notes	
Photos	
Photo log attached?	Yes
-1	



View of change in vegetation type.



Break in slope, change in vegetation type, change in particle size distribution.

Project	21028 Hoffman Falls Wetland Delineation
ID	362478
Survey Date	06/27/2023
User	Rachel Nazak
General Information	
Project ID #	05-ST002
Site Name	21020 Hoffman Falls
Date	06/27/2023
Time	08:53 AM
Location	
Latitude	42.92952033
Longitude	-75.702229
Datum	NAD83/2011
Investigator(s)	RN, JK
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Surrounding area is upland forest.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steeply sloping forested hillside, rain within the past 24hrs
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
and the second of the second o	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM exists where the break in slope and wracking are present.
Additional observations or notes	
Photos	
Photo log attached?	Yes



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.

	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	363110
Survey Date	06/28/2023
User	Rachael Foote
General Information	
Project ID #	12-ST008
Site Name	Hoffman Falls
Date	06/28/2023
Time	12:11 PM
Location	
Latitude	42.90880083
Longitude	-75.6640095
Datum	NAD83/2011
Investigator(s)	RFAT
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographi maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Neighbors active pasture and farmland. Correlates with named Callahan Brook, NYSDEC mapped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Rain in the last 24 hours.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	Present
Channel Bar Indicator Location	X
Other Channel Indicators	
Instream bedforms and	Present
other bedload transport	
other bedload transport evidence Instream bedforms Indicator Location	×

Other instream bedforms

deposition bedload indicators (e.g., poofs, riffles, steps, etc.)

and bedload transport evidence	
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	X
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	graminoids
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:, Leaf litter disturbed or washed away:
Wracking Indicator Location	X
Presence of Large Wood Indicator Location	x
Leaf Litter Indicator Location	X
Other observed indicators?	No
Step 4: Additional Information	
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	

Photo log attached?

Yes



change in vegetation type and density, break in slope.



Break in slope, change in vegetation type and density.

Project	21028 Hoffman Falls Wetland Delineation
D	365094
Survey Date	07/05/2023
User	Rachel Nazak
General Information	
Project ID #	12-ST010
Site Name	Hoffman Falls
Date	07/05/2023
Time	03:09 PM
Location	
Latitude	42.90162461
Longitude	-75.66094263
Datum	WGS84
Investigator(s)	RN RF AT
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Steeply sloping forest with valley stream/floodplain wetland at bottom.
Step 2: Site conditions during	g field assessment
Describe Site Condition	No rain within past 24hs. Stream flows into 12-ST009
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope ndicators	
Shelving	
Channel bar	
nstream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	

istribution	Present	
hanges in particle-sized istribution Indicator ocation	X	
other changes in particle- ized distribution	transition	
ransition from	Cobble to silt	
egetation Indicators		
hange in vegetation type nd/or density	Present	
egetation Indicator ocation	X	
General Vegetation Change	vegetation absent to:	
egetation absent to:	forbs	
egetation matted down nd/or bent:		
xposed roots below intact oil layer:		
ncillary Indicators		
ncillary Indicators		
Other observed indicators?	No	
tep 4: Additional Information	on	
s additional information eeded to support this etermination?	No	
tep 5: Rationale		
escribe rationale for ocation of OHWM	OHWM present at the break in slope and lack of vegetation.	
dditional observations or otes		

Photo log attached?

Photos

Yes



change in vegetation type and density, change in particle size distribution.



view showing change in particle size of stream bed, vegetation transition, and break in slope.

resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and other instream bedforms and bedload transport vidence Instream bedforms and other instream bedforms and bedload transport vidence Instream bedforms and other instream bedforms and bedload transport		ater Mark (OHWM) 1.0
Survey Date 07/05/2023 User Rachel Nazak General Information Project ID # 12-5T011 Site Name Hoffman Falls Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site condition Describe Site Condition No rain in past 24hrs. 12-5T011 and 12-5T010 join to form 12-5T009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope Indicator Location Other break land sole and flow conditions from online resources Check boxes for online resources with the step of the st	Project	21028 Hoffman Falls Wetland Delineation
User Rachel Nazak General Information Project ID # 12-5T011 Site Name Hoffman Falls Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-5T011 and 12-5T010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope Indicator Location Other break in slope Indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other Instream Bedforms Indicator x Location	ID	365095
General Information Project ID # 12-5T011 Site Name Hoffman Falls Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Indicator Location Other Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedforms and bedforms and bedforms Indicators Cheri Instream bedforms and other bedforms Indicator x Location Other instream bedforms and	Survey Date	07/05/2023
Project ID # 12-ST011 Site Name Hoffman Falls Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WG584 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources site Step 2: Site condition Worain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Great in Slope Present Break in Slope Indicator Location Other Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms Indicator Location Other instream bedforms Indicators Instream bedforms Indicator Location Other instream bedforms Indicator Location	User	Rachel Nazak
Site Name Hoffman Falls Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope Indicator Location Other break in slope indicators Schelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms Indicator Location Other instream bedforms Indicator x Location	General Information	
Date 07/05/2023 Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Indicator Location Other break in slope indicator Location Other bredload transport evidence Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms Indicator And Description Indicator Location Other instream bedforms Indicator Location Other instream bedforms Indicator And Description Indicator Location Other instream bedforms Indicator Location	Project ID #	12-ST011
Time 03:22 PM Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in slope Present Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Instream bedforms Indicator Instream Bedforms Instrument Instrument Instrument Instrument Instru	Site Name	Hoffman Falls
Location Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in slope Indicator x Cotaction Other break in slope Indicators Shelving Channel bar Instream bedforms and other bedload transport widence Instream bedforms Indicator Location Other instream bedforms Indicator x Dother instream bedforms Indicator and bedload transport	Date	07/05/2023
Latitude 42.90166191 Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in slope Indicator Location Other break in slope indicator Location Cher break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport Other instream bedforms and bedload transport	Time	03:22 PM
Longitude -75.66105855 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope Indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Cother instream bedforms and bedload transport of the first ream bedforms and bedload transport of the ristream bedforms and bedload transport	Location	
Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator Location Other break in slope indicator shelving Channel bar Instream bedforms and other bedload transport Other Instream bedforms and obedload transport Other instream bedforms and obedload transport Other instream bedforms and obedload transport	Latitude	42.90166191
Investigator(s) RN RF AT Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Break in Slope Present Present Instream bedforms and other bedload transport evidence Instream bedforms Indicator LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps BEC stream flowing Eastward along valley bottom Condition Seatom of Indicators No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Break in Slope	Longitude	-75.66105855
Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope Indicator Other break in slope indicator Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Cother instream bedforms and other bedload transport evidence Instream bedforms Indicator x Cother instream bedforms and bedload transport evidence Instream bedforms and bedload transport evidence Instream bedforms and bedforms and bedload transport	Datum	WGS84
Check boxes for online resources used to evaluate site Other Other Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in Slope Present Break in Slope indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms and other instream bedforms and bedload transport Verification Other instream bedforms and bedload transport ELIDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps Instream pactic images, land use maps, other, satellite imagery, topograph maps Natural Resource Mapper DEC stream flowing Eastward along valley bottom No rain in past 24hrs. 12-ST010 join to form 12-ST009	Investigator(s)	RN RF AT
resources used to evaluate site Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and other instream bedforms and bedload transport Value of the step of th	Step 1: Site overview from rer	mote and online resources
Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Break in Slope Indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms Other instream bedforms and bedload transport	resources used to evaluate	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topograph maps
conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator x Location Other break in slope indicator x Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and other instream bedforms and bedload transport Other instream bedforms and other haddon transport Describe Site Condition and 12-ST010 join to form 12-ST009.	Other	Natural Resource Mapper
Describe Site Condition No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009. Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms and bedload transport Other instream bedforms and bedload transport	Describe land use and flow conditions from online resources.	DEC stream flowing Eastward along valley bottom
Step 3 Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator x Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and other instream bedforms and bedload transport	Step 2: Site conditions during	field assessment
Geomorphic Indicators Break in slope Present Break in Slope Indicator X Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator X Location Other instream bedforms and bedload transport	Describe Site Condition	No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009.
Geomorphic Indicators Break in slope Present Break in Slope Indicator X Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator X Location Other instream bedforms and bedload transport	Step 3 Indicators	
Break in Slope Indicator x Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport	Geomorphic Indicators	
Cother break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport	Break in slope	Present
indicators Shelving Channel bar Instream bedforms and Present other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport		x
Channel bar Instream bedforms and present other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport		
Instream bedforms and other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport	Shelving	
other bedload transport evidence Instream bedforms Indicator x Location Other instream bedforms and bedload transport	Channel bar	
Location Other instream bedforms and bedload transport	other bedload transport	Present
and bedload transport		X
	Other instream bedforms and bedload transport evidence	

Secondary channels

Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X.
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	х
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Exposed roots



Break in slope, change in vegetation type and density, change in particle size distribution.



Break in slope, change in vegetation type and density, change in particle size distribution.



Depositional bar forming in inside of stream bed.

- Rapid Ordinary High W	
Project	21028 Hoffman Falls Wetland Delineation
D	365341
Survey Date	07/06/2023
User	Rachel Nazak
General Information	
Project ID #	12-ST013A
Site Name	Hoffman Falls
Date	07/06/2023
Time	09:12 AM
Location	
Latitude	42.902028
Longitude	-75.6622876
Investigator(s)	RN RF AT
Step 1: Site overview from re	emote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Forested area upslope from wetland along valley bottom with DEC mapped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	No rain in past 24hrs
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	Present
Shelving Indicator Location	X
Other Shelving Indicators	
Channel bar	Present
Channel Bar Indicator Location	a
Other Channel Indicators	
Instream bedforms and other bedload transport	Present

evidence

Instream bedforms Indicator Location	x
Other instream bedforms and bedload transport evidence	
Secondary channels	Present
Secondary Channels Indicator Location	x
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X .
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Information	
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Thoro log attached:	103



channel bar, break in slope, change in particle size distribution, change in vegetation type and density



abrupt break in slope

Project	21028 Hoffman Falls Wetland Delineation
ID	373728
Survey Date	07/26/2023
User	Josh Bean
General Information	josh Bean
Project ID #	23-ST007
Site Name	Hoffman Falls
Date	07/26/2023
Time	10:23 AM
Location	10.207111
Latitude	42.93758133
Longitude	-75.73014233
Investigator(s)	RN RS
	111111
Step 1: Site overview from rea	
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No significant rainfall within past 72 hours of survey.
Step 2: Site conditions during	field assessment
Describe Site Condition	stream is surrounded by wetland and carries water through the wetland
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	X
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)

Deposition Bedload

X

Secondary channels	Present
Secondary Channels ndicator Location	X
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n e e e e e e e e e e e e e e e e e e e
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for ocation of OHWM	OHWM is occurring at the undercut banks of this stream as well as where particle sizes change from cobble and gravel to clay
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Undercut bank.



Wracking



Change in particle size distribution, change in vegetation type and density.

7 0	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373729
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	23-ST006
Site Name	Hoffman Falls
Date	07/26/2023
Time	10:23 AM
Location	
Latitude	42.93757717
Longitude	-75.73013817
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from rea	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain within 72 hours of survey.
Step 2: Site conditions during	field assessment
Describe Site Condition	Change in vegetation from scrub shrub to absent in channel. Channel remains generally the same throughout.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	х
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	x

Other instream bedforms and bedload transport

deposition bedload indicators (e.g., poofs, riffles, steps, etc.)

evidence	
Deposition Bedload Indicator Location	x
Secondary channels	Present
Secondary Channels Indicator Location	X
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	х
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Information	n en
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM is occurring where there are significant undercut banks, wracking, and exposed roots below the intact soil layer.
Additional observations or notes	
Photos	
Photo log attached?	Yes
a transmit of matter (and	1,27



Undercut bank



Exposed roots within intact soil layer, break in slope, change in particle size distribution



Wracking, break in slope, change in particle size distribution

Project	21028 Hoffman Falls Wetland Delineation
D	373730
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST002A
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:17 AM
Location	
Latitude	42.93715933
Longitude	-75.73046467
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	

en e	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	x
Other changes in particle- sized distribution	transition
transition from	Silt to cobble
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Information	n en
s additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for ocation of OHWM	The OHWM is occurring where particle size distribution changes from silt to boulders and cobble, and also at the break in slope.
Additional observations or notes	
Photos	
Photo log attached?	Yes



Break in slope, change in particle size, and wracking.



Change in particle size, break in slope.



wracking

Project	21028 Hoffman Falls Wetland Delineation
ID	373731
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST003
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:26 AM
Location	
Latitude	42.93713083
Longitude	-75.73052383
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	х
Other changes in particle- sized distribution	transition
transition from	Boulder to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Information	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM is occurring where particles change from silt to boulder and cobble
Additional observations or notes	

Photo log attached?

Photos

Yes



break in slope, change in particle size distribution, change in vegetation density.



break in slope, change in particle size distribution.

Project	21028 Hoffman Falls Wetland Delineation
ID	373733
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST004A
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:40 AM
Location	
Latitude	42.93717017
Longitude	-75.73058367
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	
Shelving	
Channel bar	
nstream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Boulder to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM is occurring at a significant break in slope.
Additional observations or notes	
Photos	
Photo log attached?	Yes



break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size.

Project	21028 Hoffman Falls Wetland Delineation
ID	373734
Survey Date	07/27/2023
User	Josh Bean
General Information	
Project ID #	93-ST005
Site Name	Hoffman Falls
Date	07/27/2023
Time	09:41 AM
Location	
Latitude	42.9224341
Longitude	-75.6872008
Investigator(s)	RS, GH
Step 1: Site overview from ren	note and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Recent precipitation within past 24 hours. Fish present in stream.
Step 2: Site conditions during	field assessment
Describe Site Condition	Larger cobbles in stream than upslope where it is clay loam.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	Present
Shelving Indicator Location	x
Other Shelving Indicators	shelf at top of bank
shelf at top of bank Indicator Location	x
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	

Sediment Indicators

Changes in character of acil	
Changes in character of soil Mudcracks	
2727-800-707-1	Dragant
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	x
Other changes in particle- sized distribution	transition
transition from	Cobble to clay loam
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	х
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Information	1
ls additional information needed to support this determination?	Yes
Describe and attach information to datasheet:	Fish in stream
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM occurs at break in slope, where particles change from cobble to clay loam, and where shelving shows water consistently moves through stream, gauging banks.
Additional observations or notes	
Photos	
Photo log attached?	Yes

Photos



Upstream and shelving

substrate; gravel



Downstream and absent vegetation



Undercut banks

Description	2402011 (6 - 5 11
Project	21028 Hoffman Falls
ID	185270
Survey Date	10/04/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST003
Latitude, Longitude	
Latitude	42.92054378
Longitude	-75.65423041
Current Precipitation	Rain
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	3
Stream Gradient	Moderate (6-11%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2 to 5.5
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Moderate (2)
Grade Control	Weak (0.5)
Natural Valley	Strong (1.5)
Second or Greater Order Channel	No (0)

Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	20
Stream Determination	Intermittent (≥19)
Photos and Notes	
Notes	

Project 21028 Hoffman Falls ID 185260	· · · · · · · · ·
ID 185260	
40/05/2024	
Survey Date 10/05/2021	
User Megan Aubertine	
Town/County/State Town of Eaton, Madison County, New York	
Investigator(s) MA, KC	
Stream Delineation ID 01-ST007	
Latitude, Longitude	
Latitude 42.91429682	
Longitude -75.6404014	
Current Precipitation Rain	
Precipitation in Past 48 Rain Hours	
General Characteristics	
NYSDEC Mapped Stream No	
Drainage Ditch No	
Surface Water Depth at 6 Thalweg (Inches)	
Stream Gradient Gentle (0-5%)	
Substrate Sand (Gritty feel), Silt/Clay (No grit)	
OHWM width for stream 4 reach (feet)	
Geomorphology	
Continuity of channel bed Strong (3) and bank	
Sinuosity of channel along Strong (3) thalweg	
In Channel Structures Absent (0)	
Particle Size of Stream Weak (1) Substrate	
Active/Relic Floodplain Weak (1)	
Depositional Bars or Absent (0) Benches	
Recent Alluvial Deposits Absent (0)	
Are Headcuts present Absent (0)	
Grade Control Strong (1.5)	
Natural Valley Weak (0.5)	
Second or Greater Order No (0) Channel	
Hydrology	
Presence of Baseflow Strong (3)	

Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)
Biology	
Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	22.25
Stream Determination	Intermittent (≥19)
Photos and Notes	
Notes	

Project 21028 Hoffman Falls ID 185269 Survey Date 10/05/2021 User Megan Aubertine Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-ST004 Latitude, Longitude Latitude 42.92165007 Longitude -75.64547534 Current Precipitation in Past 48 Rain Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Financian Megan Aubertine Investigation (1000) Longitude (1000) Longitude (1000) Latitude, Longitude (1000) Latit
Survey Date 10/05/2021 User Megan Aubertine Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-5T004 Latitude, Longitude Latitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Medison County, New York Investigation Investigation County, New York Investigation Investigation Investigation County, New York Investigation Investi
User Megan Aubertine Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-ST004 Latitude, Longitude Latitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) MA, KC MA, KC Town of Eaton, Madison County, New York MA, KC
Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-ST004 Latitude, Longitude Latitude Latitude A2.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) And Madison County, New York MA, KC OHA, Sew York And, KC Stream Gradient A1.5 County New York A2.92165007 A2.92165007 A3.92165007 A3.92165
Investigator(s) MA, KC Stream Delineation ID 01-5T004 Latitude, Longitude Latitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank MA, KC 01-5T004 42.92165007 Rain Rain Rain Rain Rain Rain Hours General Characteristics No Surface Water Depth at 1 Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Moderate (2) and bank
Stream Delineation ID 01-ST004 Latitude, Longitude Longitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) Assignment Acquired Acq
Latitude, Longitude Latitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Main 42.92165007 Rain Rain No No General Characteristics No No Surface Water Depth at 1 Thalweg (Inches) Stream Gradient Gentle (0-5%) Geomorphology Continuity of channel bed and bank
Latitude 42.92165007 Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) and bank
Longitude -75.64547534 Current Precipitation Rain Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) and bank
Current Precipitation Rain Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Rain No No No Substrate 11 And And And And And And And A
Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Rain Rain Rain Rain Rain Rain Rain Rai
Hour's General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2) And Moderate (2)
NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank No 1 1 1 1 1 1 1 1 1 1 1 1 1
Drainage Ditch Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2)
Surface Water Depth at Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank 1 1 1 1 1 1 1 1 1 1 1 1 1
Thalweg (Inches) Stream Gradient Gentle (0-5%) Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank
Substrate Gravel, Silt/Clay (No grit) OHWM width for stream reach (feet) Geomorphology Continuity of channel bed and bank Moderate (2)
OHWM width for stream reach (feet) Geomorphology Continuity of channel bed Moderate (2) and bank
Geomorphology Continuity of channel bed Moderate (2) and bank
Continuity of channel bed Moderate (2) and bank
Continuity of channel bed Moderate (2) and bank
Singularity of shannel along Woods (1)
Sinuosity of channel along Weak (1) thalweg
In Channel Structures Absent (0)
Particle Size of Stream Moderate (2) Substrate
Active/Relic Floodplain Absent (0)
Depositional Bars or Absent (0) Benches
Recent Alluvial Deposits Absent (0)
Are Headcuts present Absent (0)
Grade Control Moderate (1)
Natural Valley Absent (0)
Second or Greater Order No (0) Channel
Hydrology
Presence of Baseflow Moderate (2)
Iron Oxidizing Bacteria Absent (0)

Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	15.25
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	Stream abruptly ends just upstream of culvert.

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185261
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST012
Latitude, Longitude	
Latitude	42.925888
Longitude	-75.63377189
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	C
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	12
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	3-10
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Strong (3)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Moderate (2)
Grade Control	Moderate (1)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Strong (3)

Iron Ovidizing Pactoria	Weak (1)
Iron Oxidizing Bacteria Leaf Litter	Weak (1)
	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Strong (3)
Aquatic Mollusks	Absent (0)
Fish	Moderate (1)
Crayfish	Absent (0)
Amphibians	Weak (0.5)
Algae	Strong (1.5)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	36.75
Stream Determination	Perennial (≥30)
Photos and Notes	
Notes	

&%\$&, Hoffman Falls Stre	am Scoring Data Form
Project	&%\$&, `< c ZZ a Ub`: U`g
ID	185262
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA
Stream Delineation ID	01-ST011
Latitude, Longitude	
Latitude	42.91840664
Longitude	-75.63525289
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2-6
Geomorphology	
Continuity of channel bed and bank	Moderate (2)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Weak (1)
Grade Control	Weak (0.5)
Natural Valley	Moderate (1)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)

Leaf Litter	Moderate (0.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	16
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	

21028 Hoffman Falls Stream	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185264
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST010
Latitude, Longitude	
Latitude	42.91814608
Longitude	-75.63486549
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Steep (>12%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2-8
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Weak (1)
Grade Control	Moderate (1)
Natural Valley	Moderate (1)
Second or Greater Order Channel	No (0)
Channel	No (0)
	No (0) Weak (1)

Sediment on Plants or Debris Organic Debris Lines or Piles We	oderate (0.5) osent (0) eak (0.5) o (0) osent (3) osent (3)
Debris Organic Debris Lines or Piles We Soil-based evidence of high water table	eak (0.5) to (0) to (3)
Soil-based evidence of high No water table	o (0) psent (3)
water table	osent (3)
Biology	
Fibrous Roots in Streambed Abs	osent (3)
Rooted Upland Plants in Abs Streambed	
Aquatic Macroinvertebrates Abs	osent (0)
Aquatic Mollusks Abs	osent (0)
Fish Abs	osent (0)
Crayfish Abs	osent (0)
Amphibians Abs	osent (0)
Algae Abs	osent (0)
Wetland Plants in FAC Streambed	ACW (0.75)
Stream Type Determination	
Total Score 18.	3.75
Stream Determination Eph	phemeral (<19)
Photos and Notes	
Notes Floo	ows into St09

Project 21028 Hoffman Falls ID 185265 Survey Date 10/06/2021 User Megan Aubertine Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-ST009 Latitude, Longitude Latitude 42.91903625 Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
ID 185265 Survey Date 10/06/2021 User Megan Aubertine Town/County/State Town of Eaton, Madison County, New York Investigator(s) MA, KC Stream Delineation ID 01-ST009 Latitude, Longitude Latitude 42.91903625 Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
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Investigator(s) MA, KC Stream Delineation ID 01-ST009 Latitude, Longitude Latitude 42.91903625 Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
Stream Delineation ID 01-ST009 Latitude, Longitude Latitude 42.91903625 Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
Latitude
Latitude 42.91903625 Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
Longitude -75.63428476 Current Precipitation None Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
Current Precipitation None Precipitation in Past 48 Rain Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at Thalweg (Inches)
Precipitation in Past 48 Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch Surface Water Depth at Thalweg (Inches) Rain Rain Rain Rain
Hours General Characteristics NYSDEC Mapped Stream No Drainage Ditch Surface Water Depth at Thalweg (Inches)
NYSDEC Mapped Stream No Drainage Ditch No Surface Water Depth at 4 Thalweg (Inches)
Drainage Ditch No Surface Water Depth at 4 Thalweg (Inches)
Surface Water Depth at 4 Thalweg (Inches)
Thalweg (Inches)
Stream Gradient Steep (>12%)
Substrate Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream 5 reach (feet)
Geomorphology
Continuity of channel bed Strong (3) and bank
Sinuosity of channel along Moderate (2) thalweg
In Channel Structures Strong (3)
Particle Size of Stream Strong (3) Substrate
Active/Relic Floodplain Absent (0)
Depositional Bars or Absent (0) Benches
Recent Alluvial Deposits Absent (0)
Are Headcuts present Moderate (2)
Grade Control Moderate (1)
Natural Valley Strong (1.5)
Second or Greater Order No (0) Channel
Hydrology
Presence of Baseflow Moderate (2)
Iron Oxidizing Bacteria Absent (0)

Leaf Litter	Moderate (0.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Weak (0.5)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Weak (1)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	25.5
Stream Determination	
Photos and Notes	
Notes	

Appendix C

Photo Documentation



Photo 1

Representative photo of palustrine emergent (PEM) wetlands



Photo 2

Representative photo of palustrine emergent (PEM) wetlands

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 3

Representative photo of palustrine emergent (PEM) wetlands



Photo 4

Representative photo of typical upland field found adjacent to PEM wetlands

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 5

Representative photo of palustrine forested (PFO) wetland



Photo 6

Representative photo of palustrine forested (PFO) wetland

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 7

Representative photo of typical upland forest found adjacent to PFO wetland



Photo 8

Representative photo of typical palustrine scrub-shrub (PSS) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 9

Representative photo of typical palustrine scrub-shrub (PSS) wetland



Photo 10

Representative photo of typical palustrine scrub-shrub (PSS) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 11

Representative photo of typical upland scrub-shrub found adjacent to PSS wetlands



Photo 12

Representative photo of palustrine open water (POW) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 13

Representative photo of palustrine open water (POW) wetland



Photo 14

Representative photo of typical upland found adjacent to POW wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 15
Representative photo of typical intermittent stream (R4)



Photo 16
Representative photo of typical intermittent stream (R4)

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 17
Representative photo of typical perennial stream (R3)



Photo 18
Representative photo of typical perennial stream (R3)

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 19 Representative photo of typical ephemeral stream (R6)



Photo 20 Representative photo of typical ephemeral stream (R6)

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Photo 21
Representative photo of typical upland found on site



Photo 22
Representative photo of typical upland found on site

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

