

93-ST002, and is the second datapoint on this stream.

Photos

Photo log attached? Yes

Photos



Upstream photograph.



Downstream photograph.



Stream substrate.



Under cut bank and development of stream substrate begins.



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



Stream substrate.



Stream substrate and vegetation transition.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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
Investigator(s)	RS GH

Step 1: Site overview from remote 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 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.
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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	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)
Unvegetated Indicator	x

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
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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.
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Additional observations or notes

Photos

Photo log attached?	Yes
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Photos



Upstream photograph.



Stream substrate, looking downstream.



Undercut bank.



Undercut bank, with stream substrate



Transition in substrate type and point bar.



Point bar with sorted stream substrate.



Undercut bank with wracking of organic material.

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	352398
Survey Date	06/01/2023
User	Rachael Foote

General Information

Project ID #	93-ST002
Site Name	Hoffman Falls
Date	06/01/2023
Time	11:35 AM
Location	
Latitude	42.94537117
Longitude	-75.754421
Investigator(s)	BA GH RS

Step 1: Site overview from remote 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 flows into DEC mapped class C(T) stream. Moderate baseflow was observed during the delineation.

Step 2: Site conditions during field assessment

Describe Site Condition	This stream crosses a driveway via culvert.
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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	man-made berms or levees
Man-made berms or levees Indicator 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	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	Wracking/presence of organic litter:
Wracking Indicator Location	x
Other observed indicators?	No
Step 4: Additional Information	
Is additional information needed to support this	No

determination?

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

Photos



Dense vegetation within stream channel.



Stream substrate, with some wracking visible.



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



Undercut bank with some wracking.



Photo of stream flowing within the PSS wetland complex.



Break in slope visible in upstream facing photograph.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 Location	b

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 Information	
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
Photos	



Upstream photo, with vegetation transition present.



Stream substrate.



Downstream photo, with vegetation transition present.

- Rapid Ordinary High Water 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 remote 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	x
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
shelf at top of bank Indicator Location	x
Channel bar	Present
Channel Bar Indicator Location	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	

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



Break in slope, change in particle size distribution.



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



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



break in slope, intact roots,



substrate.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 field assessment

Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation.
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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 Location	b

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:
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	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	a
Leaf Litter Indicator Location	x
Water Staining Indicator Location	b
Weathered clasts or bedrock	b

Indicator Location

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 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

Photos



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.



Stream substrate photo.



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

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
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 remote 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 field assessment

Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation.
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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

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	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.



Stream substrate, with change in soil character.



Upstream photograph with transition in vegetation.



Downstream photograph, with vegetation transition present.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 adjacent to active agriculture. Stream corresponds to a NYSDEC mapped class C stream.

Step 2: Site conditions during field assessment

Describe Site Condition	Stream connects to wetlands 33-W005 and 33-W003.
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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	Present
Channel Bar Indicator Location	b
Other Channel Indicators	
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	
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	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:
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	Wracking/presence of organic litter:
Wracking 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	OHWM occurs at extent of wracking, break in slope at undercut banks further downstream.
Additional observations or	

Photos

Photo log attached? Yes

Photos



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.



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

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	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 remote 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
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Break in Slope Indicator Location	a
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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
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Mudcracks Indicator Location	b
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:	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	
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
Photos	



Mud cracks.



Mud cracks.



Break in slope



Mudcracks, change in vegetation density, break in slope.



Mud cracks, change in vegetation type and density.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 field assessment

Describe Site Condition	fed via culvert under roadway, joins with wetland at southern tip.
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Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
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Break in Slope Indicator Location	x
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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
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Mudcracks Indicator Location	b
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	Present
Matted/Bent Vegetation Indicator Location	x
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 was present at the OHWM throughout the entire reach of stream. Matted vegetation and mudcracks were noted below the OHWM in the streambed.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



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.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 field assessment

Describe Site Condition	Rain within the past day. Drains culvert and flows into wetland.
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Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
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Break in Slope Indicator Location	x
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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?

Photos



Change in vegetation.



subtle break in slope and change in vegetation.



Change in vegetation.

- Rapid Ordinary High Water 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 remote 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 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
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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	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:
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 and change in vegetation type and density were both the strongest indicators for stream OHWM.
---	--

Additional observations or notes

Photos

Photo log attached?	Yes
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Photos



View of change in vegetation type.



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

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 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
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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	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 Information

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
Photos	



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.

- Rapid Ordinary High Water 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)	RF AT

Step 1: Site overview from remote 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.	Neighbors active pasture and farmland. Correlates with named Callahan Brook, NYSDEC mapped stream.

Step 2: Site conditions during field assessment

Describe Site Condition	Rain in the last 24 hours.
-------------------------	----------------------------

Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
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Break in Slope Indicator Location	x
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Other break in slope indicators

Shelving

Channel bar	Present
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Channel Bar Indicator Location	x
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Other Channel Indicators

Instream bedforms and other bedload transport evidence	Present
--	---------

Instream bedforms Indicator Location	x
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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	

Photos

Photo log attached? Yes

Photos



change in vegetation type and density, break in slope.



Break in slope, change in vegetation type and density.

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	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 remote 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 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
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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	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:	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	
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM present at the break in slope and lack of vegetation.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



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.

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	365095
Survey Date	07/05/2023
User	Rachel Nazak

General Information

Project ID #	12-ST011
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	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.	DEC stream flowing Eastward along valley bottom

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
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Break in Slope Indicator Location	x
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Other break in slope indicators

Shelving

Channel bar

Instream bedforms and other bedload transport evidence	Present
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Instream bedforms Indicator Location	x
--------------------------------------	---

Other instream bedforms and bedload transport evidence

Secondary channels

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:	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 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
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 Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	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 remote 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 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 evidence	Present

Instream bedforms Indicator	x
Location	
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
Photos	



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



abrupt break in slope

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	373728
Survey Date	07/26/2023
User	Josh Bean

General Information

Project ID #	23-ST007
Site Name	Hoffman Falls
Date	07/26/2023
Time	10:23 AM
Location	
Latitude	42.93758133
Longitude	-75.73014233
Investigator(s)	RN RS

Step 1: Site overview from remote 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 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

Indicator Location	
Secondary channels	Present
Secondary Channels	x
Indicator Location	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator	x
Location	
Other changes in particle-sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator	x
Location	
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	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.



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



Wracking

- Rapid Ordinary High Water 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 remote 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	x
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	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	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

Photos



Undercut bank



Wracking, break in slope, change in particle size distribution



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

- Rapid Ordinary High Water Mark (OHWM) 1.0

Project	21028 Hoffman Falls Wetland Delineation
ID	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 remote 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 field assessment

Describe Site Condition	Steep rockfall stream.
-------------------------	------------------------

Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
----------------	---------

Break in Slope Indicator Location	x
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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	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

Is additional information needed to support this determination?	No
---	----

Step 5: Rationale

Describe rationale for location 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
Photos	



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



wracking



Change in particle size, break in slope.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 field assessment

Describe Site Condition	Steep rockfall stream.
-------------------------	------------------------

Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
----------------	---------

Break in Slope Indicator Location	x
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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	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	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	OHWM is occurring where particles change from silt to boulder and cobble
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



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



break in slope, change in particle size distribution.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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 field assessment

Describe Site Condition	Steep rockfall stream
-------------------------	-----------------------

Step 3 Indicators

Geomorphic Indicators

Break in slope	Present
----------------	---------

Break in Slope Indicator Location	x
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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	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 Information	
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
Photos	



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



Break in slope, change in particle size.

- Rapid Ordinary High Water Mark (OHWM) 1.0

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 remote 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

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 clay loam
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 Information	
Is 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	



substrate; gravel



Upstream and shelving



Downstream and absent vegetation



Undercut banks

21028 Hoffman Falls Stream Scoring Data Form

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	

21028 Hoffman Falls Stream Scoring Data Form

Project	21028 Hoffman Falls
ID	185260
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 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	6
Stream Gradient	Gentle (0-5%)
Substrate	Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	4
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Weak (1)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Strong (1.5)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Strong (3)
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	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	

21028 Hoffman Falls Stream Scoring Data Form

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	Rain
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	Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	1.5
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	Moderate (2)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Moderate (1)
Natural Valley	Absent (0)
Second or Greater Order Channel	No (0)
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 Stream 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 Oxidizing Bacteria	Weak (1)
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	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	

W&S, Hoffman Falls Stream Scoring Data Form

Project	W&S, Hoffman Falls Stream
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 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)
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	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	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	18.75
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	Flows into St09

21028 Hoffman Falls Stream Scoring Data Form

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	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	4
Stream Gradient	Steep (>12%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	5
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
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	Strong (1.5)
Second or Greater Order Channel	No (0)
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

Wetland and Stream Delineation Report

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

Wetland and Stream Delineation Report

Photo 5

Representative photo of
palustrine forested (PFO) wetland



Photo 6

Representative photo of
palustrine forested (PFO) wetland



Hoffman Falls Wind Project

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

Wetland and Stream Delineation Report



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

Wetland and Stream Delineation Report

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

Wetland and Stream Delineation Report

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

Wetland and Stream Delineation Report



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

Wetland and Stream Delineation Report

Photo 15

Representative photo of typical
intermittent stream (R4)



Photo 16

Representative photo of typical
intermittent stream (R4)



Hoffman Falls Wind Project

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

Wetland and Stream Delineation Report



Photo 17

Representative photo of typical perennial stream (R3)



Photo 18

Representative photo of typical perennial stream (R3)

Hoffman Falls Wind Project

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

Wetland and Stream Delineation Report

Photo 19

Representative photo of typical ephemeral stream (R6)



Photo 20

Representative photo of typical ephemeral stream (R6)



Hoffman Falls Wind Project

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

Wetland and Stream Delineation Report

Photo 21

Representative photo of typical upland found on site



Photo 22

Representative photo of typical upland found on site



Hoffman Falls Wind Project

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

Wetland and Stream Delineation Report