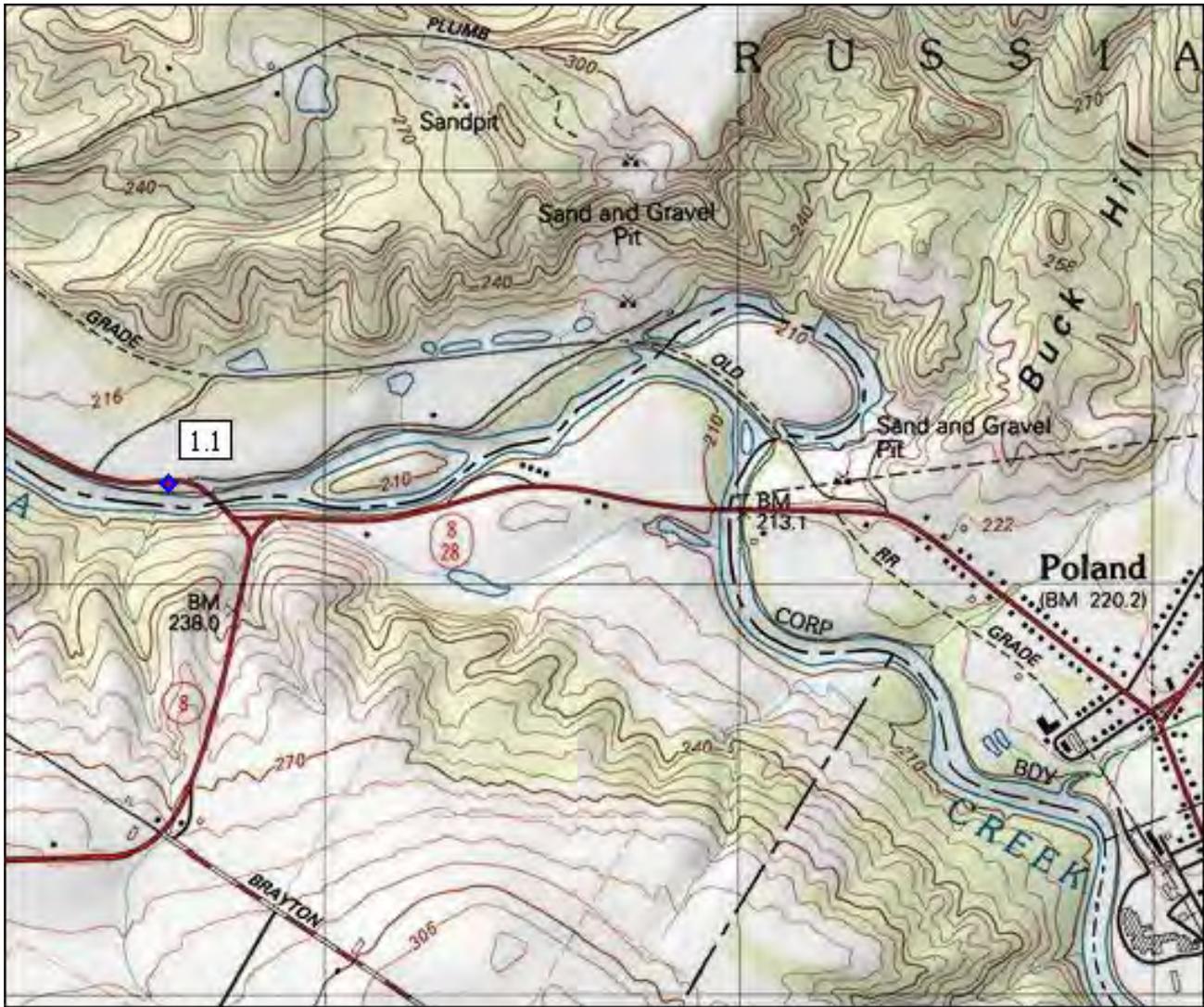


**Appendix 1. Site Descriptions and High-Water Marks  
at Study Sites, Flood of June 26–29, 2006, in the Mohawk,  
Delaware, and Susquehanna River Basins, New York**

SITE DESCRIPTION	
<b>Site 1:</b>	West Canada Creek at State Route 28 (Creek Road) at Poland, NY
<b>Site Location:</b>	Bridge on State Route 28, lat 43°13'50.4", long 75°05'20.4", NAD 83
	Town of Russia, Herkimer County, NY
	Newport USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one debris line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.44 feet from elevations at this site.



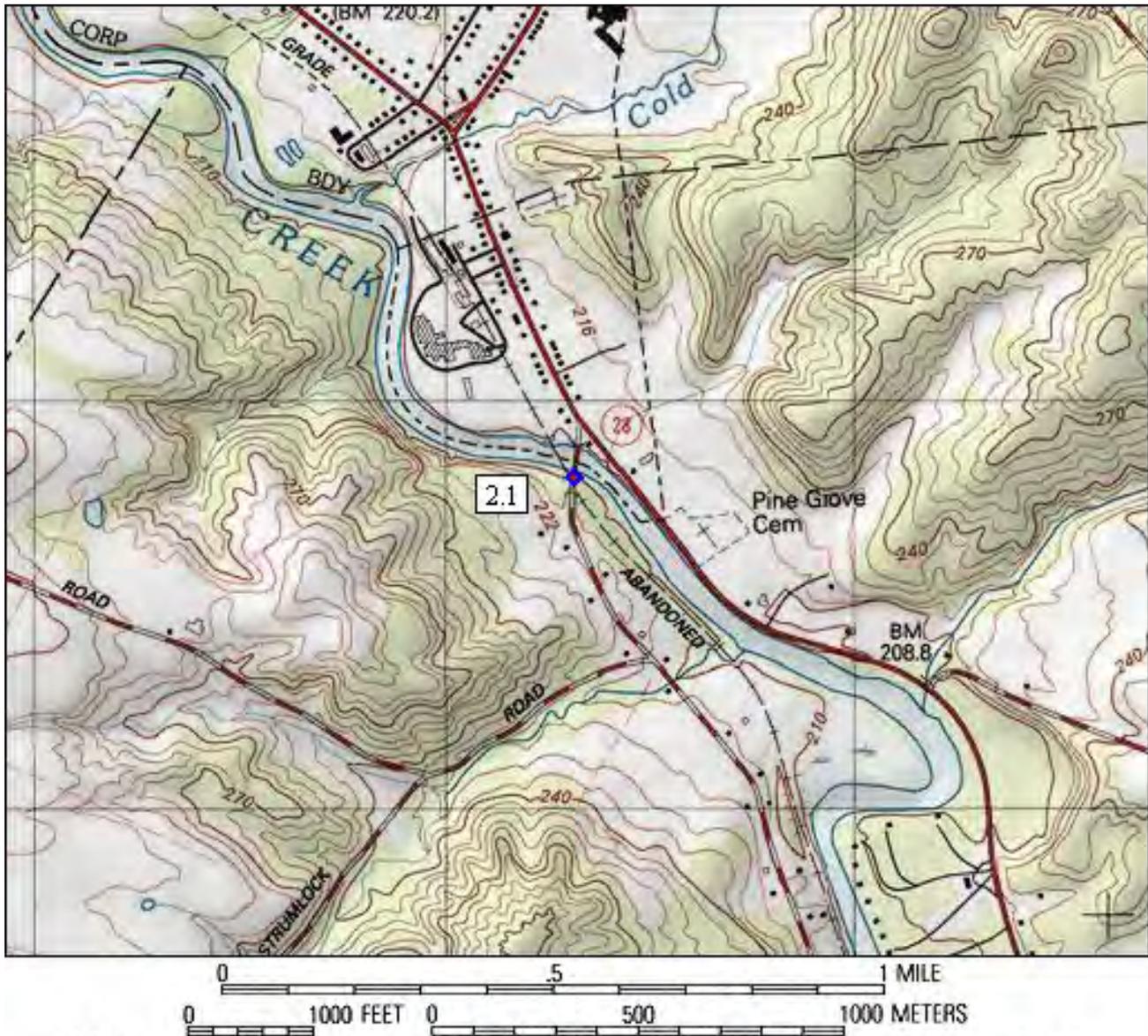
Map created with TOPO!® ©2003 National Geographic ([www.nationalgeographic.com/topo](http://www.nationalgeographic.com/topo))

Newport quad map with location of site 1, West Canada Creek at State Route 28 (Creek Road) at Poland, NY



High-water mark 1.1 is a fair debris line on the ground, on the left bank, 470 feet upstream from the State Route 28 bridge, at elevation 702.44 feet above NGVD 29 (lat 43°13'51.3", long 75°05'25.7").

SITE DESCRIPTION
<b>Site 2:</b> West Canada Creek at County Route 200 (Old State Road) at Poland, NY
<b>Site Location:</b> Bridge on County Route 200, lat 43°13'06.6", long 75°03'25.8", NAD 83
Village of Poland, Herkimer County, NY
Newport USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one debris line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.45 feet from elevations at this site.

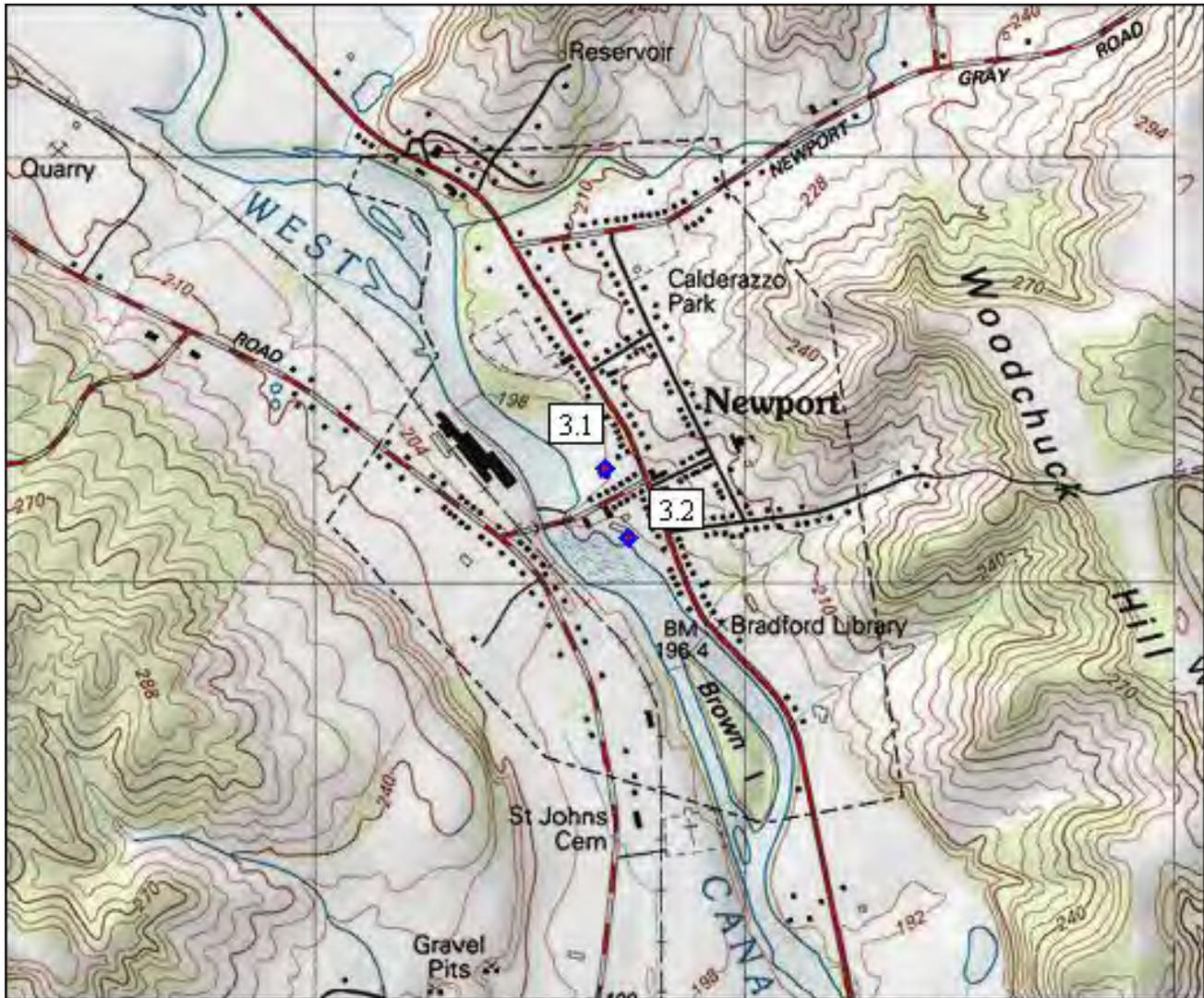


Newport quad map with location of site 2, West Canada Creek at County Route 200 (Old State Road) at Poland, NY



High-water mark 2.1 is a fair debris line on the ground, on the right bank, 35 feet downstream from the County Route 200 bridge, at elevation 689.75 feet above NGVD 29 (lat 43°13'05.1", long 75°03'26.1").

SITE DESCRIPTION
<b>Site 3:</b> West Canada Creek at County Route 200 (Bridge Street) at Newport, NY
<b>Site Location:</b> Bridge on County Route 200, lat 43°11'06.0", long 75°01'02.4", NAD 83
Village of Newport, Herkimer County, NY
Newport USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.46 feet from elevations at this site.



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Newport quad map with location of site 3, West Canada Creek at County Route 200 (Bridge Street) at Newport, NY

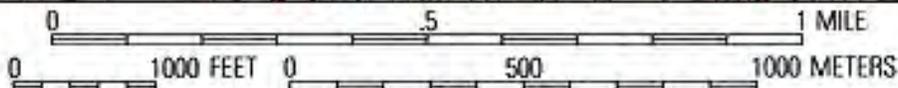
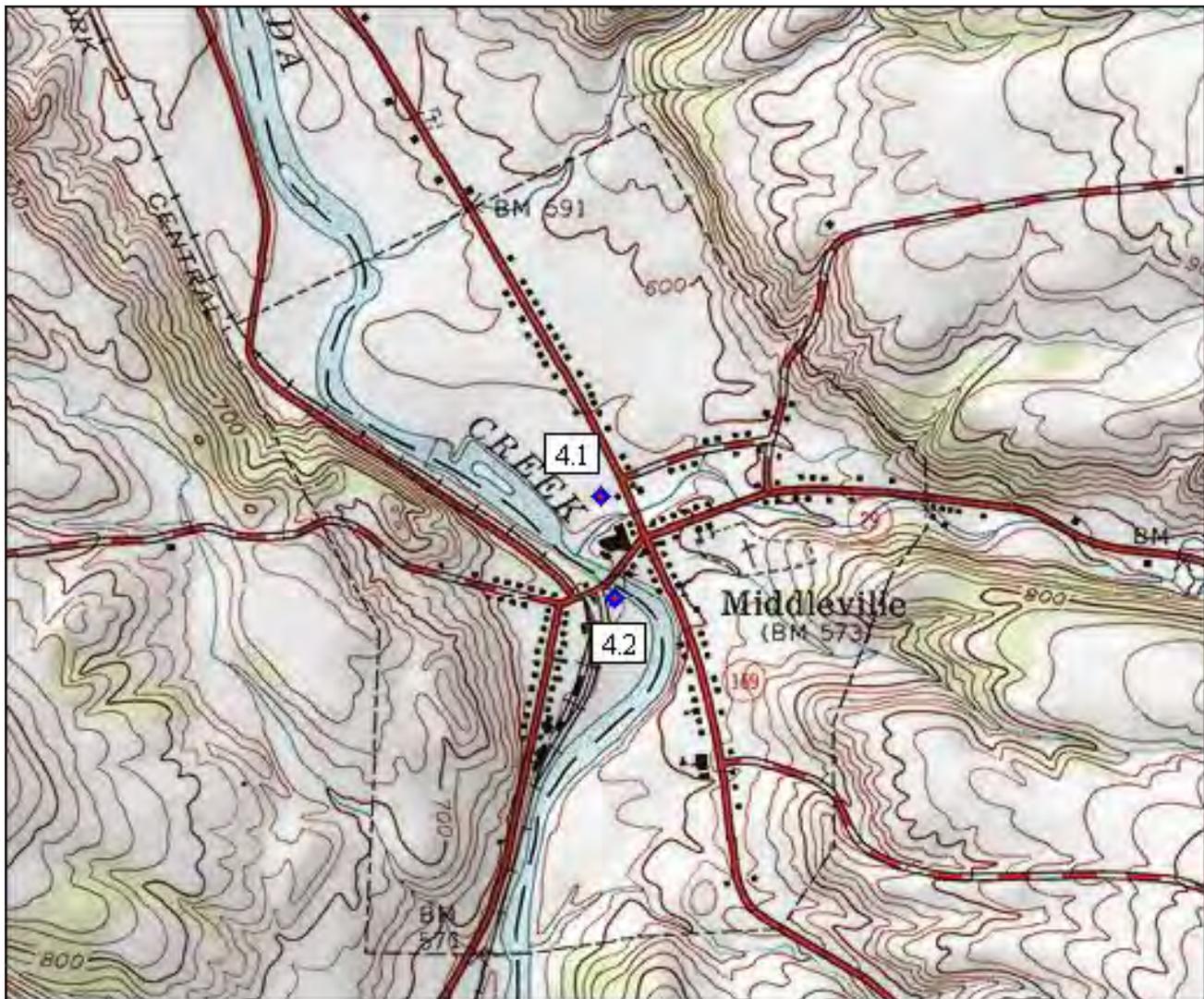


High-water mark 3.1 is a good seed line 1.2 feet above the floor, inside the Newport Telephone Co. Inc. garage at 3077 Bridge Street, on the left bank, 200 feet upstream from the County Route 200 bridge, at elevation 648.16 feet above NGVD 29 (lat 43°11'10.1", long 75°00'57.3").



High-water mark 3.2 is a poor debris line on the ground, on the left bank, 350 feet downstream from the County Route 200 bridge, at elevation 635.86 feet above NGVD 29 (lat 43°11'04.7", long 75°00'54.6").

SITE DESCRIPTION
<b>Site 4:</b> West Canada Creek at State Route 28 (Bridge Street) at Middleville, NY
<b>Site Location:</b> Bridge on State Route 28, lat 43°08'17.4", long 74°58'13.2", NAD 83
Village of Middleville, Herkimer County, NY
Middleville USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one mud line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



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Middleville quad map with location of site 4, West Canada Creek at State Route 28 (Bridge Street) at Middleville, NY

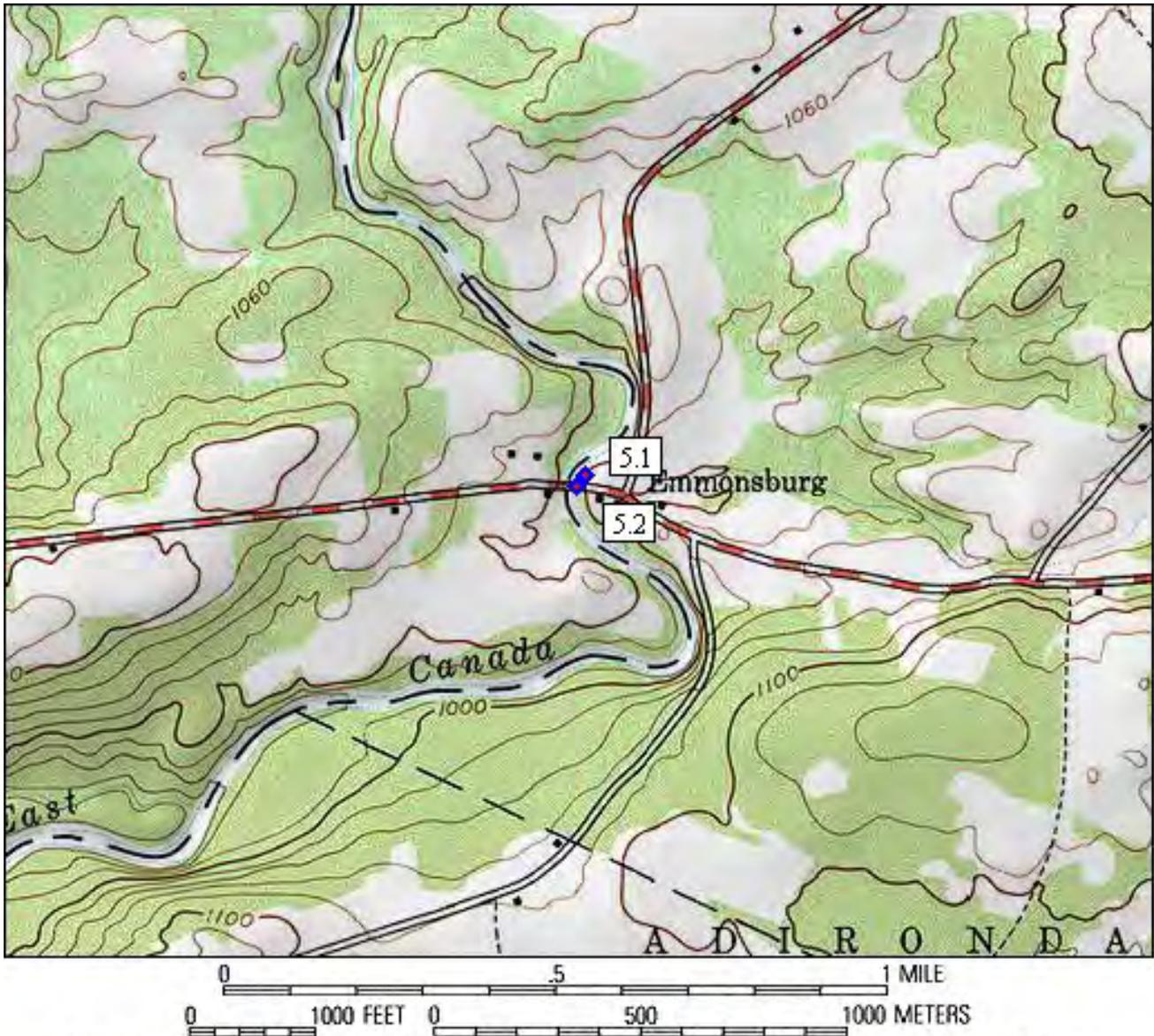


High-water mark 4.1 is a good seed line 2.8 feet above the ground, on the upstream side of a detached garage streamward from house at 19 North Main Street, on the left bank, 350 feet upstream from the State Route 28 bridge, at elevation 570.17 feet above NGVD 29 (lat 43°08'22.7", long 74°58'13.7").



High-water mark 4.2 is a poor mud line 0.8 foot above the ground, on the downstream side of Dibble's Inn at 25 Bridge Street, on the right bank, 85 feet downstream from the State Route 28 bridge, at elevation 566.57 feet above NGVD 29 (lat 43°08'15.7", long 74°58'12.6").

SITE DESCRIPTION
<b>Site 5:</b> East Canada Creek at County Route 104 at Emmonsburg, NY
<b>Site Location:</b> Bridge on County Route 104, lat 43°09'12.0", long 74°42'42.0", NAD 83
Town of Stratford, Fulton County, NY
Stratford USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.48 feet from elevations at this site.



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Stratford quad map with location of site 5, East Canada Creek at County Route 104 at Emmonsburg, NY

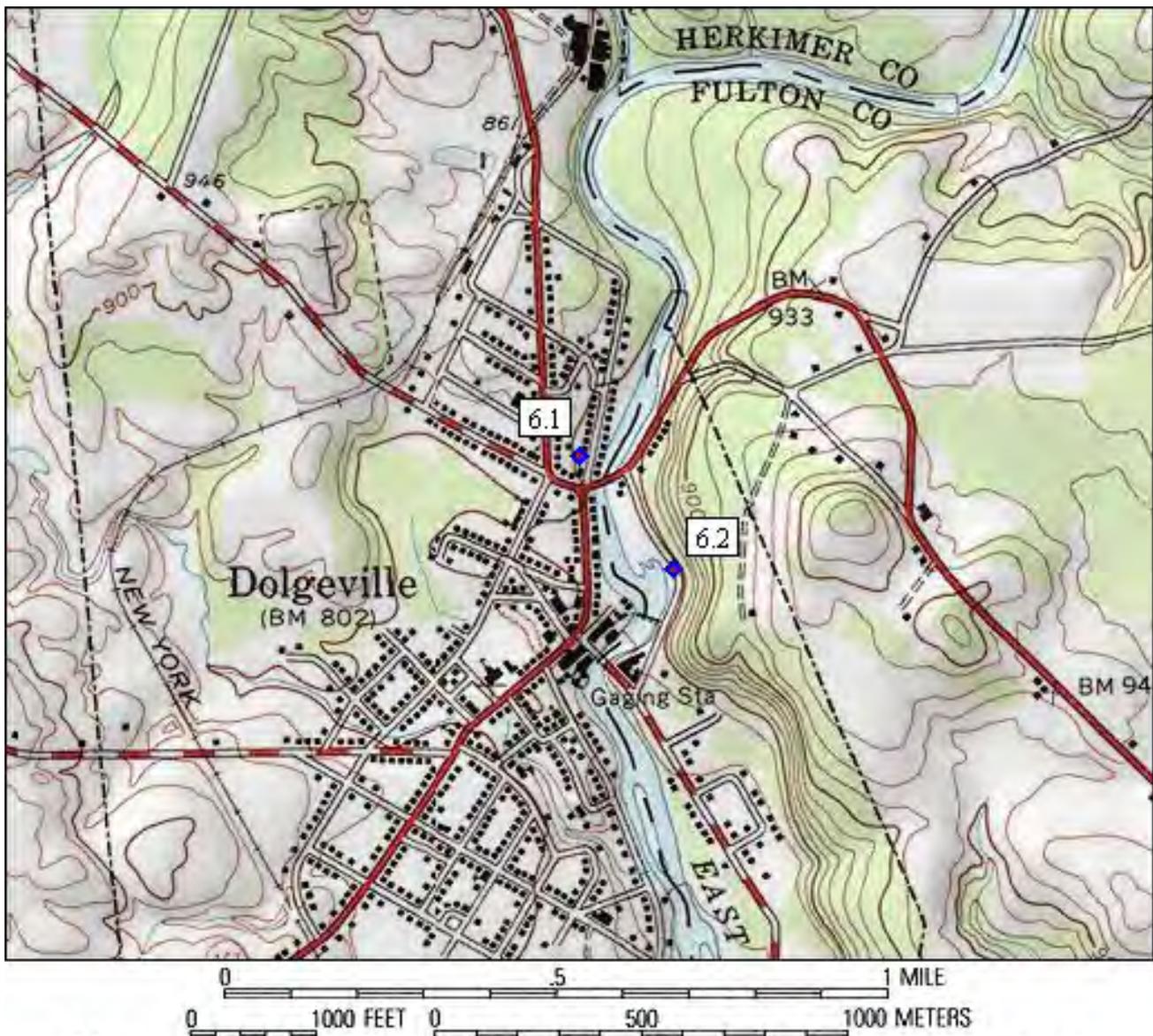


High-water mark 5.1 is a fair debris line on the ground, on the left bank, 15 feet upstream from the County Route 104 bridge, at elevation 998.18 feet above NGVD 29 (lat 43°09'12.4", long 74°42'40.5").



High-water mark 5.2 is a fair debris line on the ground, on the left bank, 40 feet downstream from the County Route 104 bridge, at elevation 996.38 feet above NGVD 29 (lat 43°09'11.7", long 74°42'40.7").

SITE DESCRIPTION
<b>Site 6:</b> East Canada Creek at State Route 29 (State Street) at Dolgeville, NY
<b>Site Location:</b> Bridge on State Route 29, lat 43°06'19.8", long 74°46'10.8", NAD 83
Village of Dolgeville, Herkimer County, NY
Little Falls USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 20, 2006, and surveyed by L.T. Brooks and M.S. Ralbovsky on August 1 and 8, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped P 317 RESET 1980 set in top of the northwest wingwall of the State Route 29 bridge over East Canada Creek in Dolgeville, NGS PID OE0381. This is RM 2 in the Village of Dolgeville FEMA flood-insurance study. Elevation is 801.78 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



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Little Falls quad map with location of site 6, East Canada Creek at State Route 29 (State Street) at Dolgeville, NY

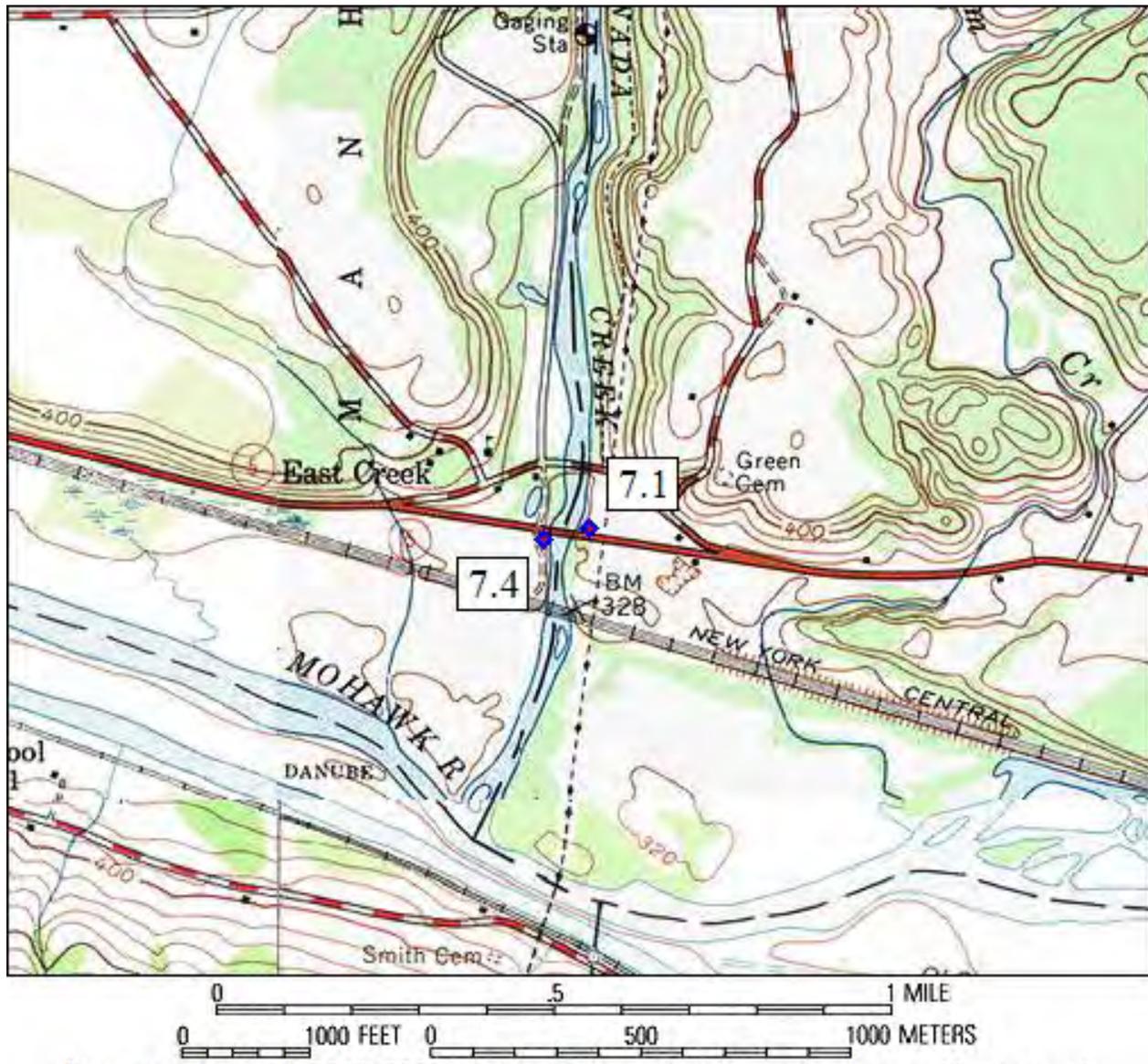


High-water mark 6.1 is a fair seed line 4.1 feet above the ground, on the landward side of house at 121 North Main Street, on the right bank, 170 feet upstream from the State Route 29 bridge, at elevation 796.96 feet above NGVD 29 (lat 43°06'21.6", long 74°46'12.9").



High-water mark 6.2 is a good debris line on the ground, on the left bank, about 800 feet downstream from the State Route 29 bridge, at elevation 792.07 feet above NGVD 29 (lat 43°06'13.2", long 74°46'03.3").

SITE DESCRIPTION
<b>Site 7:</b> East Canada Creek at State Route 5 at East Creek, NY
<b>Site Location:</b> Bridge on State Route 5, lat 43°00'21.0", long 74°44'28.2", NAD 83
Towns of Manheim and St. Johnsville, Herkimer and Montgomery Counties, NY
Oppenheim USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Five high-water marks were surveyed: five debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 15, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped F 32 1931 set in top of the second stone step of the north end of the east abutment of the CSX Transportation railroad bridge over East Canada Creek in East Creek, NGS PID OE0305. This is RM 1 in the Town of St. Johnsville FEMA flood-insurance study. Elevation is 327.73 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



Oppenheim quad map with location of site 7, East Canada Creek at State Route 5 at East Creek, NY



High-water mark 7.1 is a fair debris line on the ground, on the left bank, 50 feet upstream from the State Route 5 bridge, at elevation 329.75 feet above NGVD 29 (lat 43°00'21.2", long 74°44'25.8").



High-water mark 7.4 is a fair debris line on the ground, on the right bank, 80 feet downstream from the State Route 5 bridge, at elevation 328.19 feet above NGVD 29 (lat 43°00'20.4", long 74°44'30.4").

SITE DESCRIPTION	
<b>Site 8:</b>	Mohawk River at Harbor Way at Rome, NY
<b>Site Location:</b>	Pedestrian bridge on Harbor Way, lat 43°12'08.4", long 75°27'12.0", NAD 83
	City of Rome, Oneida County, NY
	Rome USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one debris line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on September 5, 2006. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



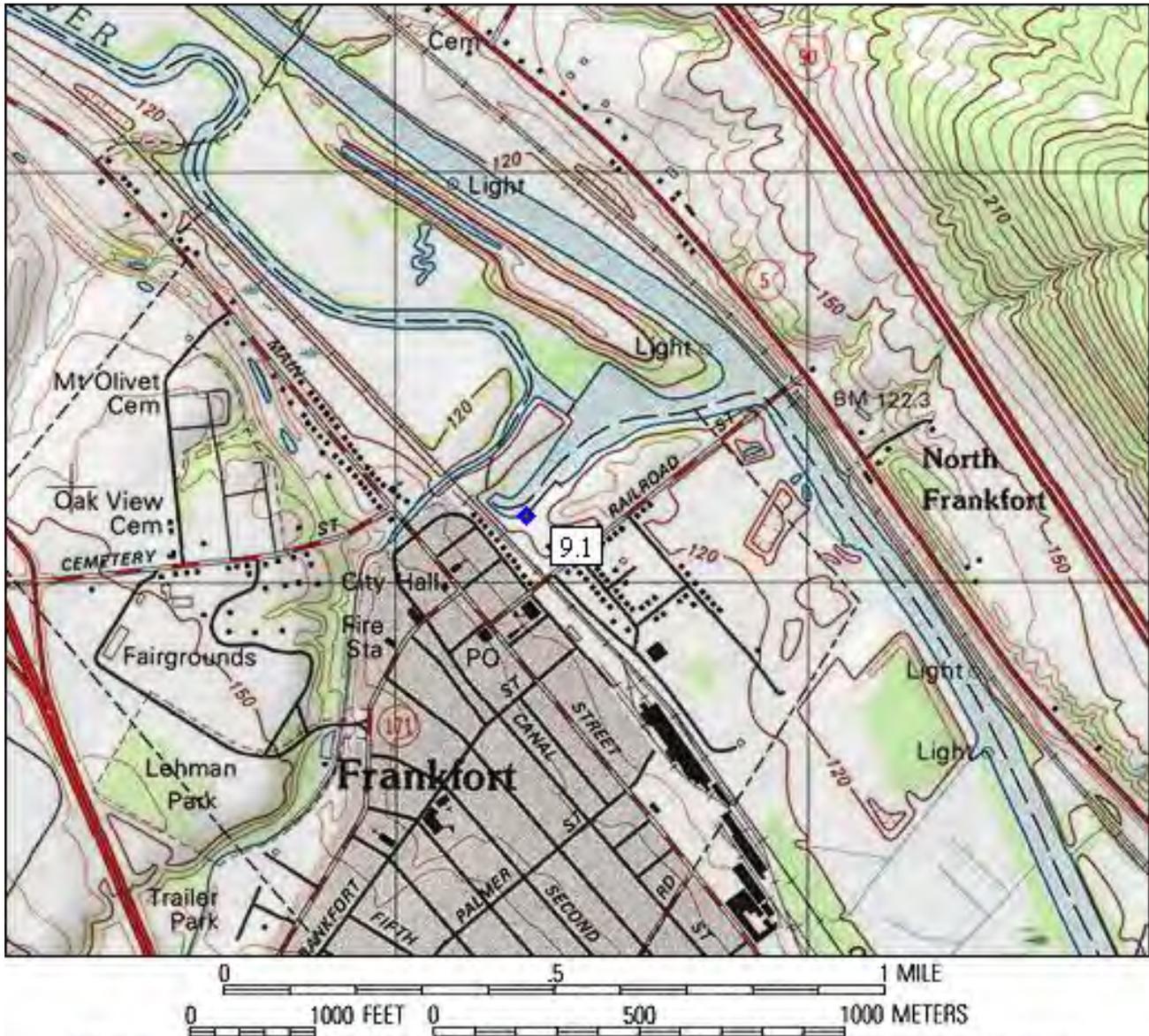
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Rome quad map with location of site 8, Mohawk River at Harbor Way at Rome, NY



High-water mark 8.1 is a poor debris line on the ground, on the right bank, 50 feet downstream from the Harbor Way pedestrian bridge, at elevation 422.05 feet above NGVD 29 (lat 43°12'07.6", long 75°27'13.4").

SITE DESCRIPTION
<b>Site 9:</b> Mohawk River at Marina Drive at Frankfort, NY
<b>Site Location:</b> Marina Drive, lat 43°02'27.7", long 75°04'09.3", NAD 83
Village of Frankfort, Herkimer County, NY
Ilion USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one from communications with Village of Frankfort personnel.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 5, 2006. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.

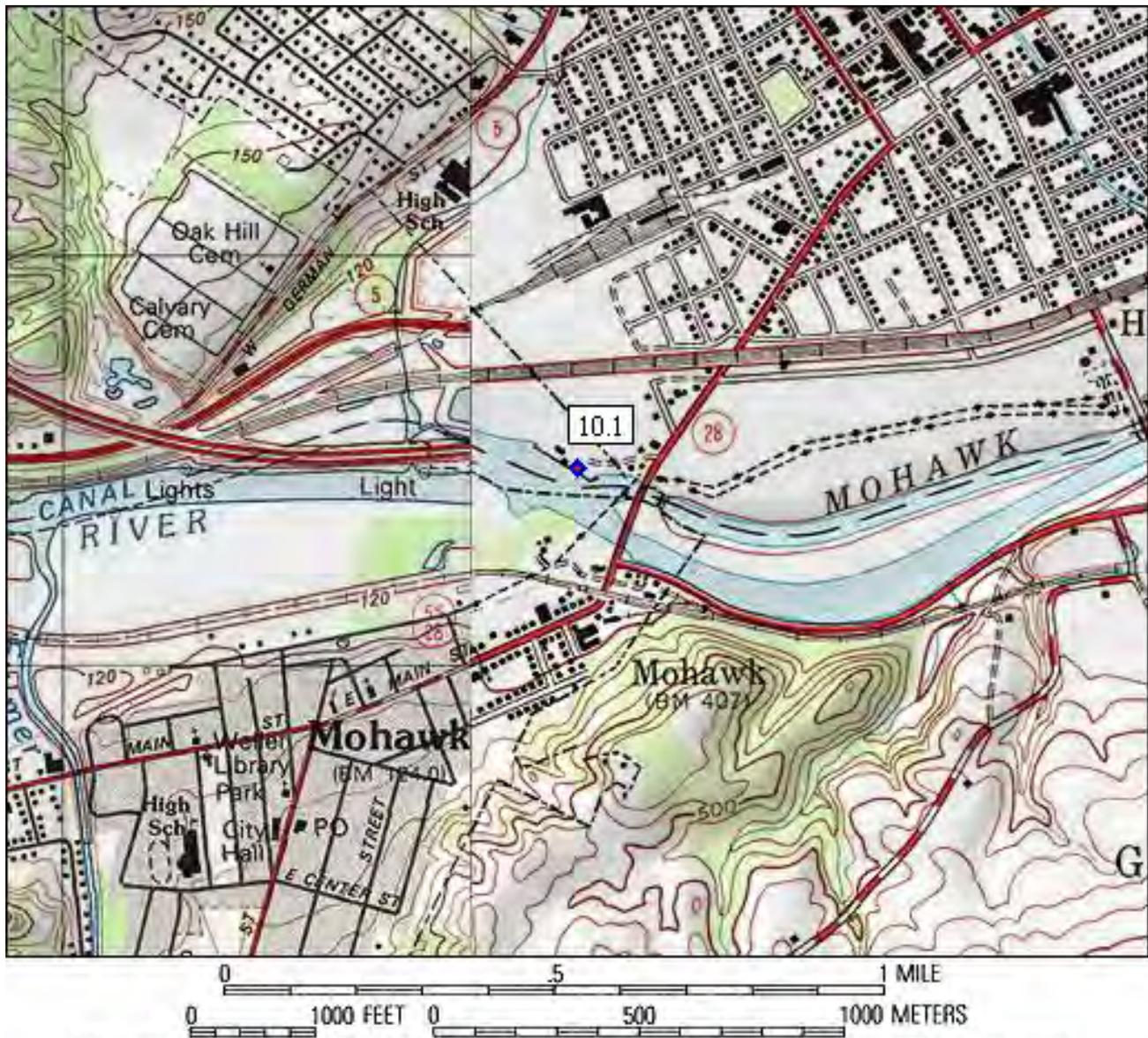


Ilion quad map with location of site 9, Mohawk River at Marina Drive at Frankfort, NY



High-water mark 9.1 from communications with Village of Frankfort personnel is on the ground, near the top of the boat launch ramp at Frankfort Harbor and Marina Park on Marina Drive, on the right bank, at elevation 388.61 feet above NGVD 29 (lat 43°02'27.7", long 75°04'09.3").

SITE DESCRIPTION
<b>Site 10:</b> Mohawk River at State Route 28 (Mohawk Street) at Herkimer, NY
<b>Site Location:</b> Bridge on State Route 28, lat 43°00'55.8", long 74°59'42.0", NAD 83
Village of Herkimer, Herkimer County, NY
Herkimer USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one from communications with business owners.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 5, 2006. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.

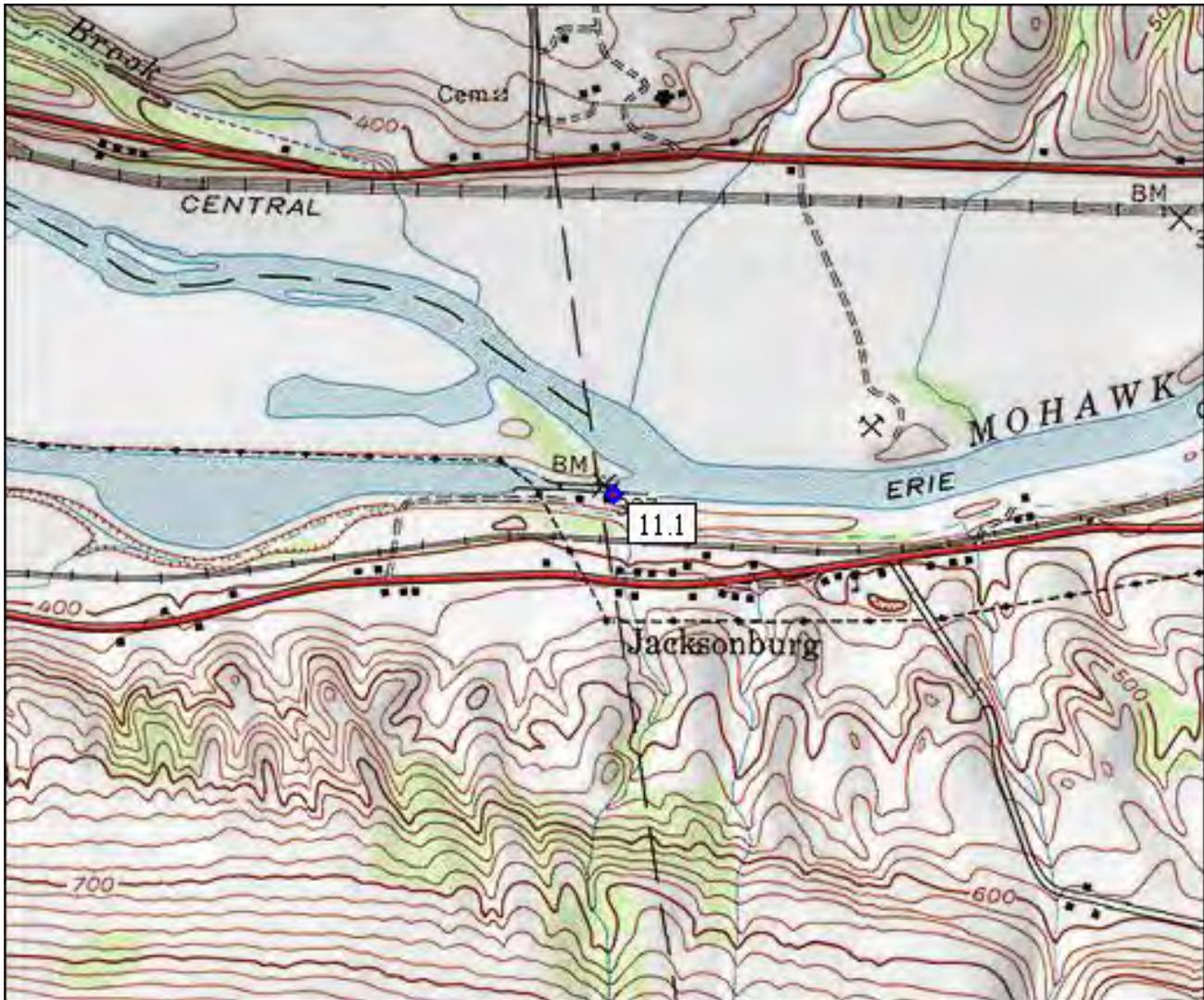


Herkimer quad map with location of site 10, Mohawk River at State Route 28 (Mohawk Street) at Herkimer, NY



High-water mark 10.1 from communications with business owners is 0.1 foot above the top of the concrete bulkhead streamward from Waterfront Grill at 800 Mohawk Street, on the left bank, 540 feet upstream from the State Route 28 bridge, at elevation 387.81 feet above NGVD 29 (lat 43°01'00.7", long 74°59'47.2").

SITE DESCRIPTION
<b>Site 11:</b> Mohawk River at Erie Canal Lock 18 at Jacksonburg, NY
<b>Site Location:</b> Erie Canal Lock 18, lat 43°00'57.5", long 74°54'57.1", NAD 83
Town of Little Falls, Herkimer County, NY
Herkimer USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 5, 2006. To convert to NAVD 88, subtract 0.49 feet from elevations at this site.



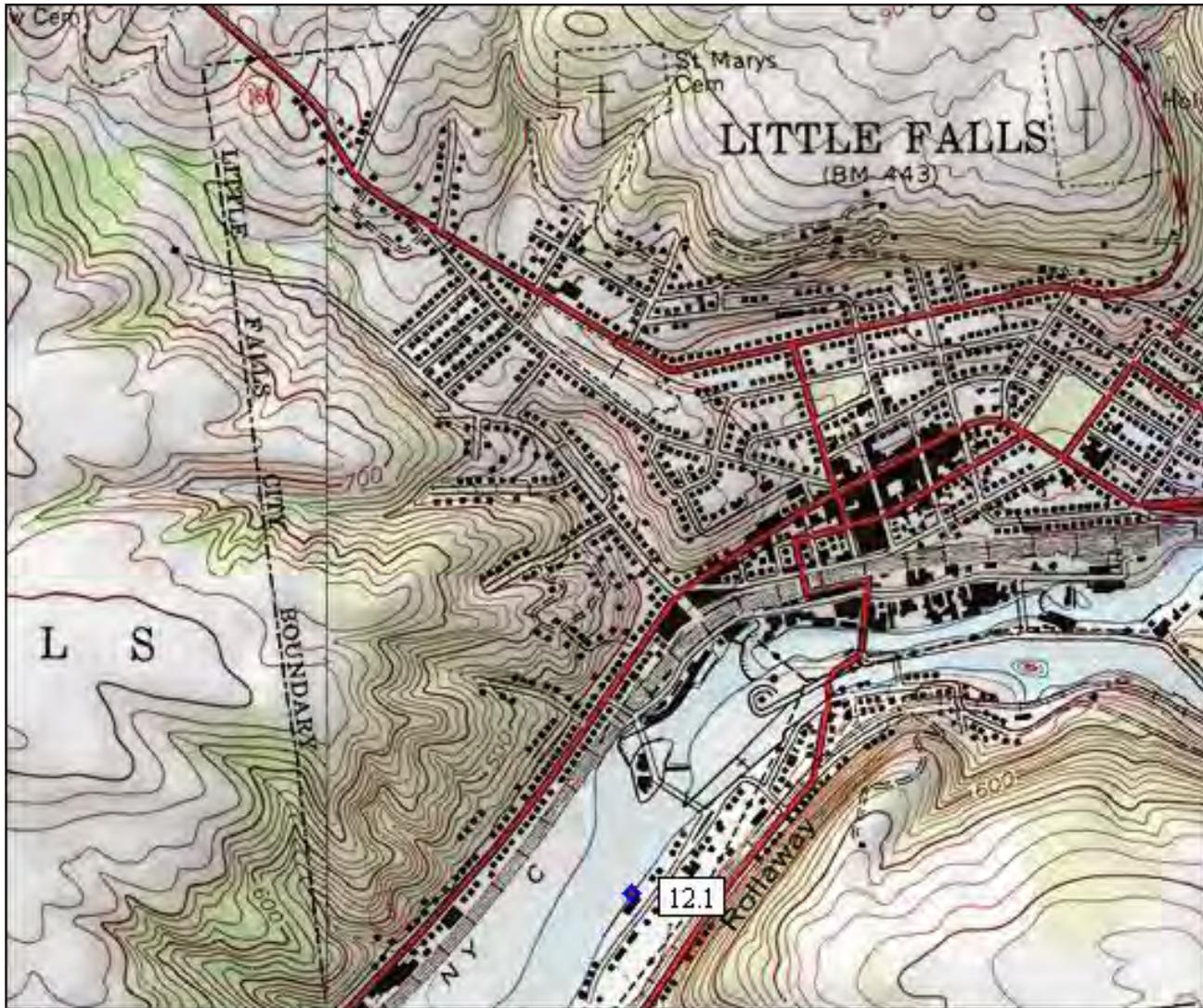
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Herkimer quad map with location of site 11, Mohawk River at Erie Canal Lock 18 at Jacksonburg, NY



High-water mark 11.1 is a good mud line 3.7 feet above the ground, on a steel I-beam on the right bank, 80 feet downstream from the Erie Canal Lock 18 structure, at elevation 373.49 feet above NGVD 29 (lat 43°00'57.5", long 74°54'57.1").

SITE DESCRIPTION
<b>Site 12:</b> Mohawk River at Southern Avenue at Little Falls, NY
<b>Site Location:</b> Southern Avenue, lat 43°02'04.2", long 74°51'55.5", NAD 83
City of Little Falls, Herkimer County, NY
Little Falls USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 5, 2006. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



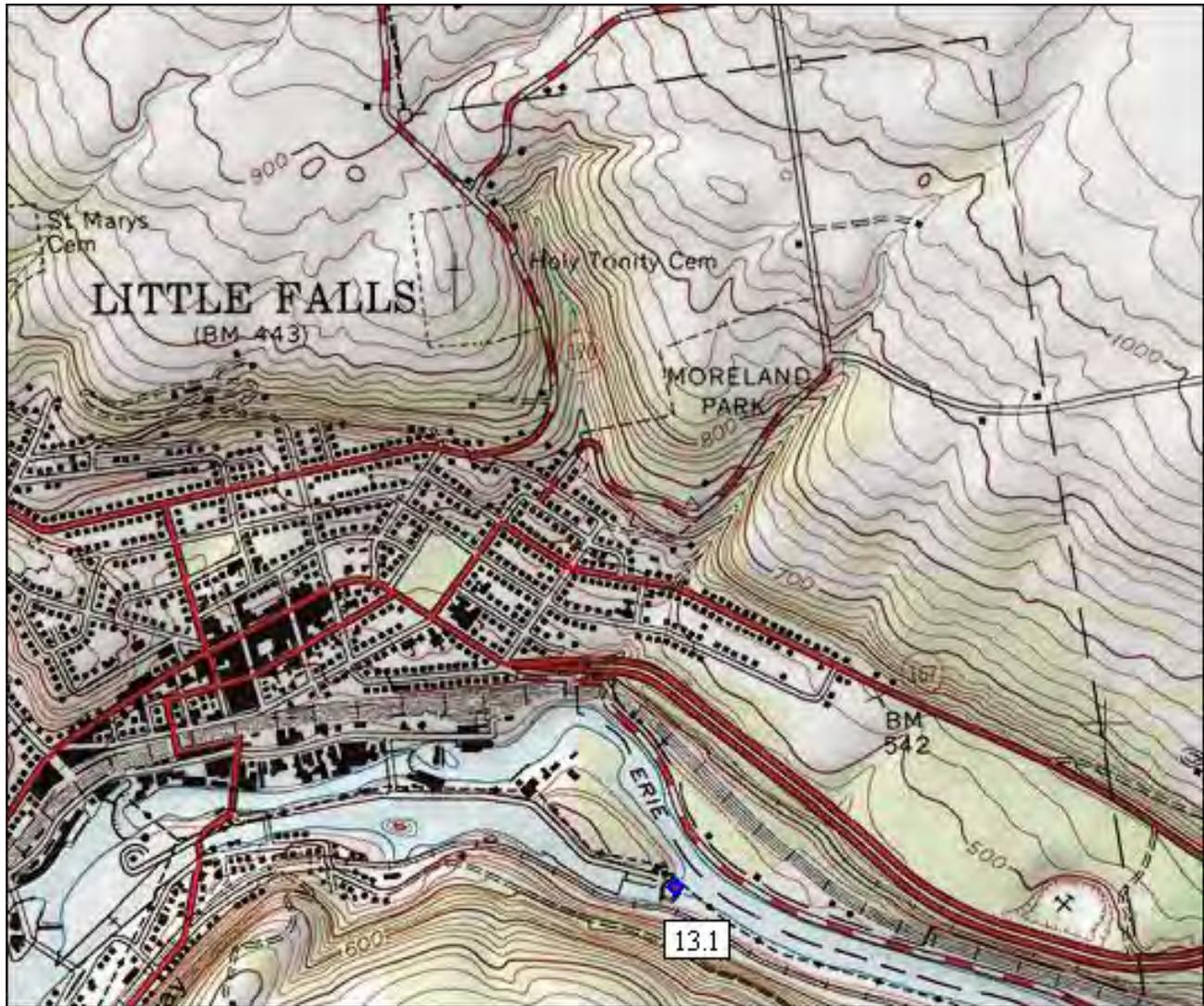
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Little Falls quad map with location of site 12, Mohawk River at Southern Avenue at Little Falls, NY



High-water mark 12.1 is a fair mud line 2.3 feet above the ground, on the downstream side of the Little Falls Canal Harbor and Rotary Park building on Southern Avenue, on the right bank, at elevation 371.10 feet above NGVD 29 (lat 43°02'04.2", long 74°51'55.5").

SITE DESCRIPTION
<b>Site 13:</b> Mohawk River at Erie Canal Lock 17 at Little Falls, NY
<b>Site Location:</b> Erie Canal Lock 17, lat 43°02'17.0", long 74°50'44.3", NAD 83
City of Little Falls, Herkimer County, NY
Little Falls USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 6, 2006. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



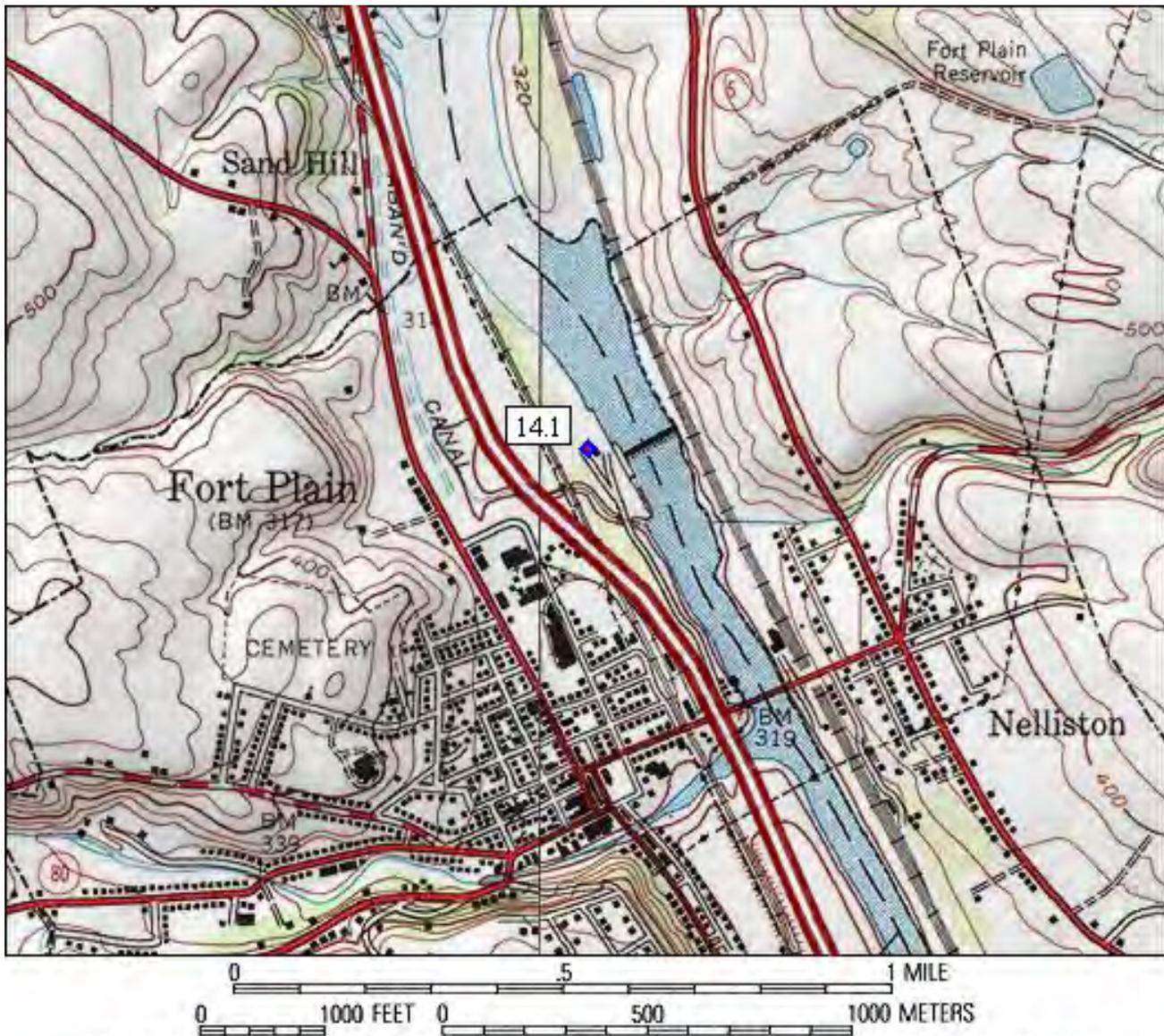
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Little Falls quad map with location of site 13, Mohawk River at Erie Canal Lock 17 at Little Falls, NY



High-water mark 13.1 is a good mud line 3.1 feet above the ground, on a steel I-beam on the right bank, 110 feet downstream from the Erie Canal Lock 17 structure, at elevation 332.10 feet above NGVD 29 (lat 43°02'17.0", long 74°50'44.3").

SITE DESCRIPTION
<b>Site 14:</b> Mohawk River at Erie Canal Lock 15 at Fort Plain, NY
<b>Site Location:</b> Erie Canal Lock 15, lat 42°56'20.3", long 74°37'23.2", NAD 83
Village of Fort Plain, Montgomery County, NY
Canajoharie USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 22, 2006, and additional photos taken by L.T. Brooks and M.S. Ralbovsky on August 1, 2007.
High-water-mark elevations were surveyed by URS using DGPS methods on September 1, 2006. To convert to NAVD 88, subtract 0.56 feet from elevations at this site.

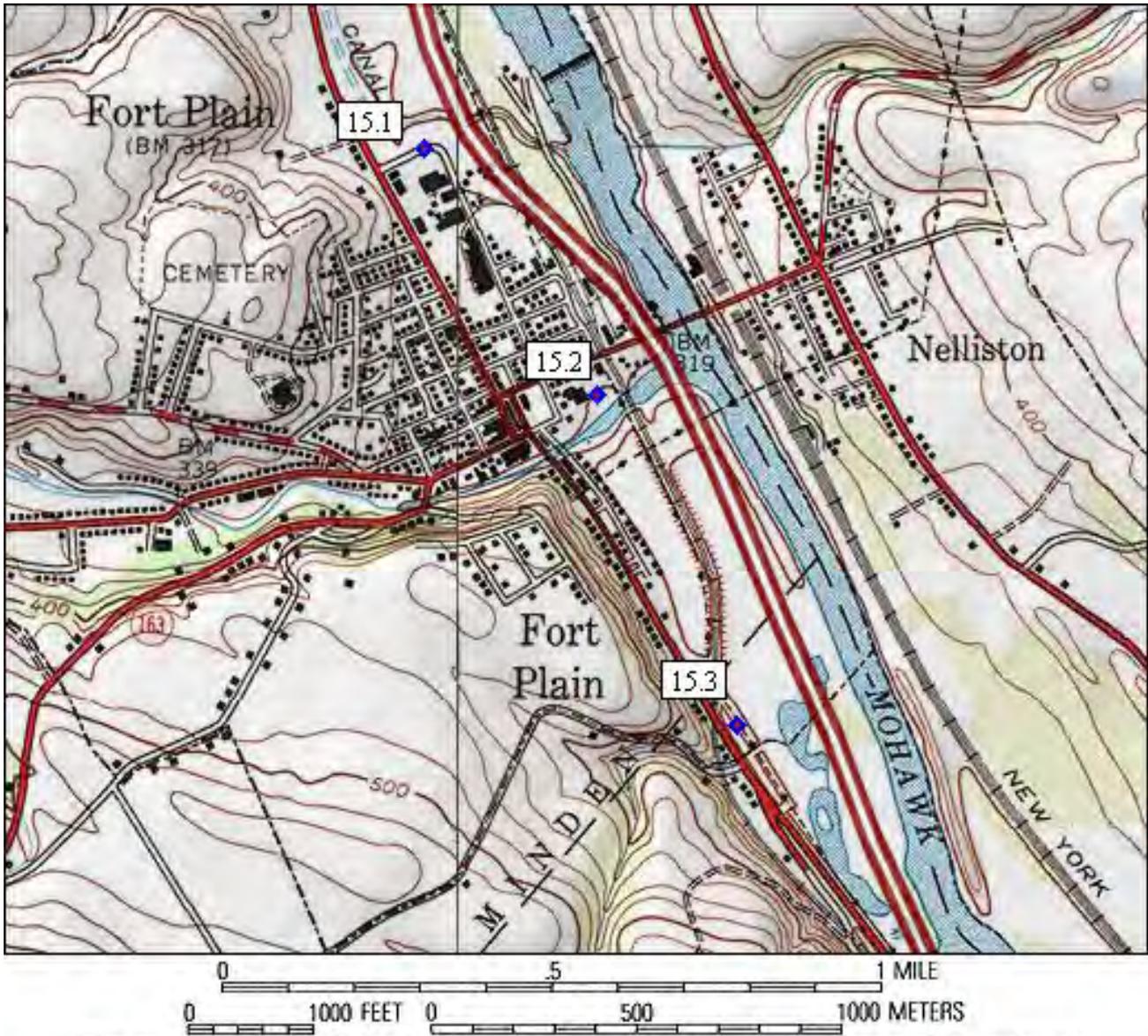


Canajoharie quad map with location of site 14, Mohawk River at Erie Canal Lock 15 at Fort Plain, NY



High-water mark 14.1 is an excellent seed line 1.0 foot above the ground, inside the Lock 15 office building, on the right bank, 80 feet upstream from the Erie Canal Lock 15 structure, at elevation 312.26 feet above NGVD 29 (lat 42°56'20.3", long 74°37'23.2").

SITE DESCRIPTION
<b>Site 15:</b> Mohawk River at Fort Plain, NY
<b>Site Location:</b> Fort Plain, lat 42°56'14.4", long 74°37'32.0", NAD 83
Village of Fort Plain, Montgomery County, NY
Canajoharie USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: three mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 22, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 31, 2006. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



Canajoharie quad map with location of site 15, Mohawk River at Fort Plain, NY



High-water mark 15.1 is a fair mud line 4.4 feet above the ground, on the downstream side of Agway Feed Center at 15 Herkimer Street, on the right bank, at elevation 308.46 feet above NGVD 29 (lat 42°56'14.4", long 74°37'32.0").



High-water mark 15.2 is a good mud line 5.9 feet above the ground, on the upstream side of building at 19 River Street (State Route 80), on the right bank, at elevation 308.55 feet above NGVD 29 (lat 42°55'54.4", long 74°37'13.3").



High-water mark 15.3 is a fair mud line 5.4 feet above the ground, on the upstream side of McFee Memorials Inc. at 65 Hancock Street (State Route 5S), on the right bank, at elevation 308.45 feet above NGVD 29 (lat 42°55'28.2", long 74°36'58.1").

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SITE DESCRIPTION
<b>Site 16:</b> Mohawk River at Canajoharie, NY
<b>Site Location:</b> Canajoharie, lat 42°54'19.8", long 74°34'59.5", NAD 83
Village of Canajoharie, Montgomery County, NY
Canajoharie USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: three mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 22, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 31, 2006. To convert to NAVD 88, subtract 0.56 feet from elevations at this site.



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Canajoharie quad map with location of site 16, Mohawk River at Canajoharie, NY



High-water mark 16.1 is a fair mud line 3.6 feet above the ground, on the upstream side of Roosevelt's Towing and Recovery at 210 Erie Boulevard (State Route 5S), on the right bank, at elevation 306.56 feet above NGVD 29 (lat 42°54'19.8", long 74°34'59.5").



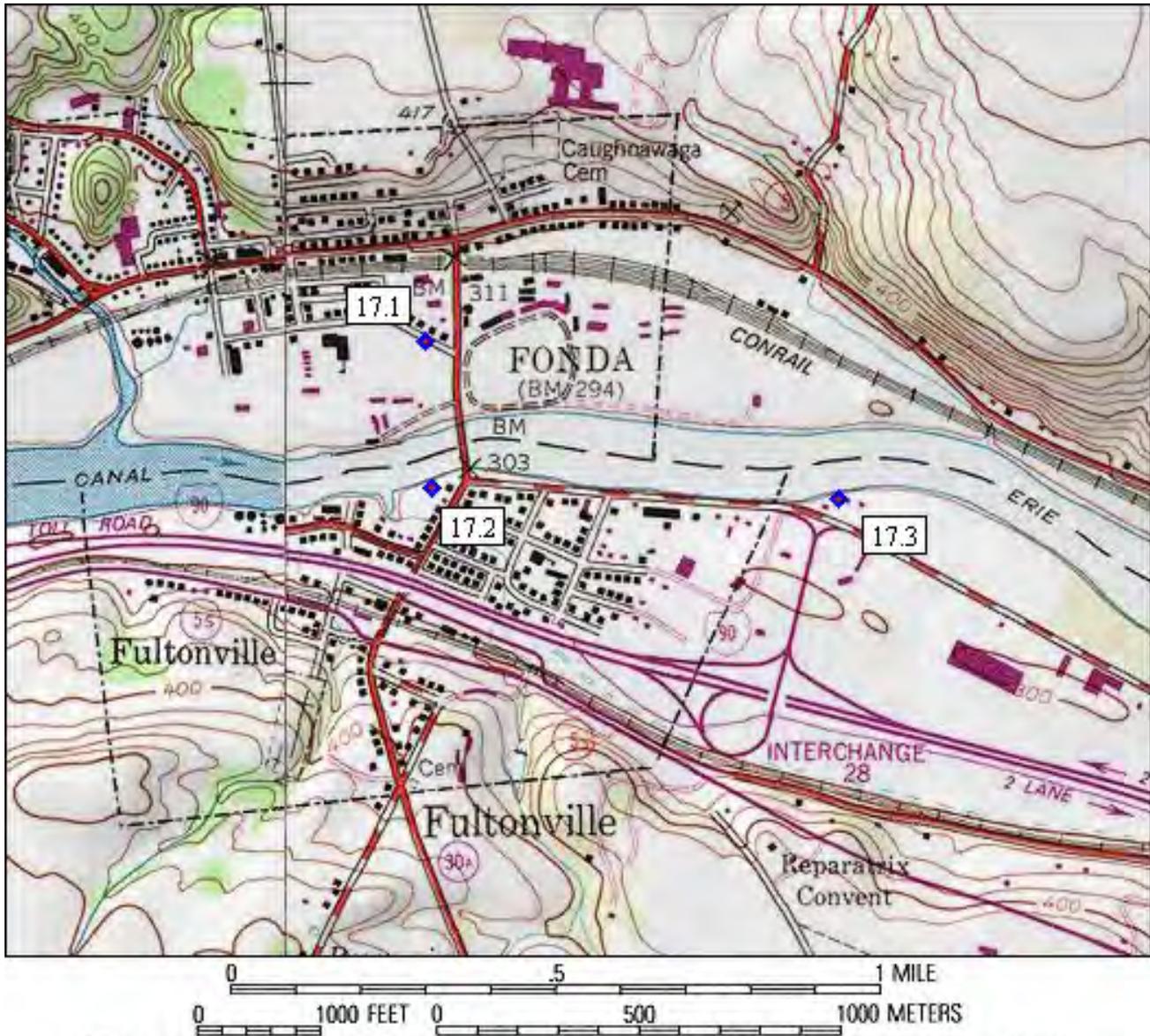
High-water mark 16.2 is a fair mud line 3.8 feet above the ground, on the streamward side of Canajoharie Fire Station at 75 Erie Boulevard (State Route 5S), on the right bank, at elevation 306.46 feet above NGVD 29 (lat 42°54'23.1", long 74°34'30.2").



High-water mark 16.3 is a fair mud line 2.5 feet above the ground, on the downstream side of Canajoharie Customs Inc. at 339 East Main Street (State Route 5S), on the right bank, at elevation 301.96 feet above NGVD 29 (lat 42°54'18.9", long 74°33'52.6").

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SITE DESCRIPTION
<b>Site 17:</b> Mohawk River at Fonda and Fultonville, NY
<b>Site Location:</b> Fonda and Fultonville, lat 42°57'09.5", long 74°22'13.1", NAD 83
Villages of Fonda and Fultonville and Town of Glen, Montgomery County, NY
Tribes Hill USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: two mud lines and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 22, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 31, 2006. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



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Tribes Hill quad map with location of site 17, Mohawk River at Fonda and Fultonville, NY



High-water mark 17.1 is a fair mud line 6.5 feet above the ground, on the downstream side of the Village of Fonda shed on Park Street, on the left bank, 190 feet upstream from South Bridge Street (State Route 30A), at elevation 292.15 feet above NGVD 29 (lat 42°57'09.5", long 74°22'13.1").



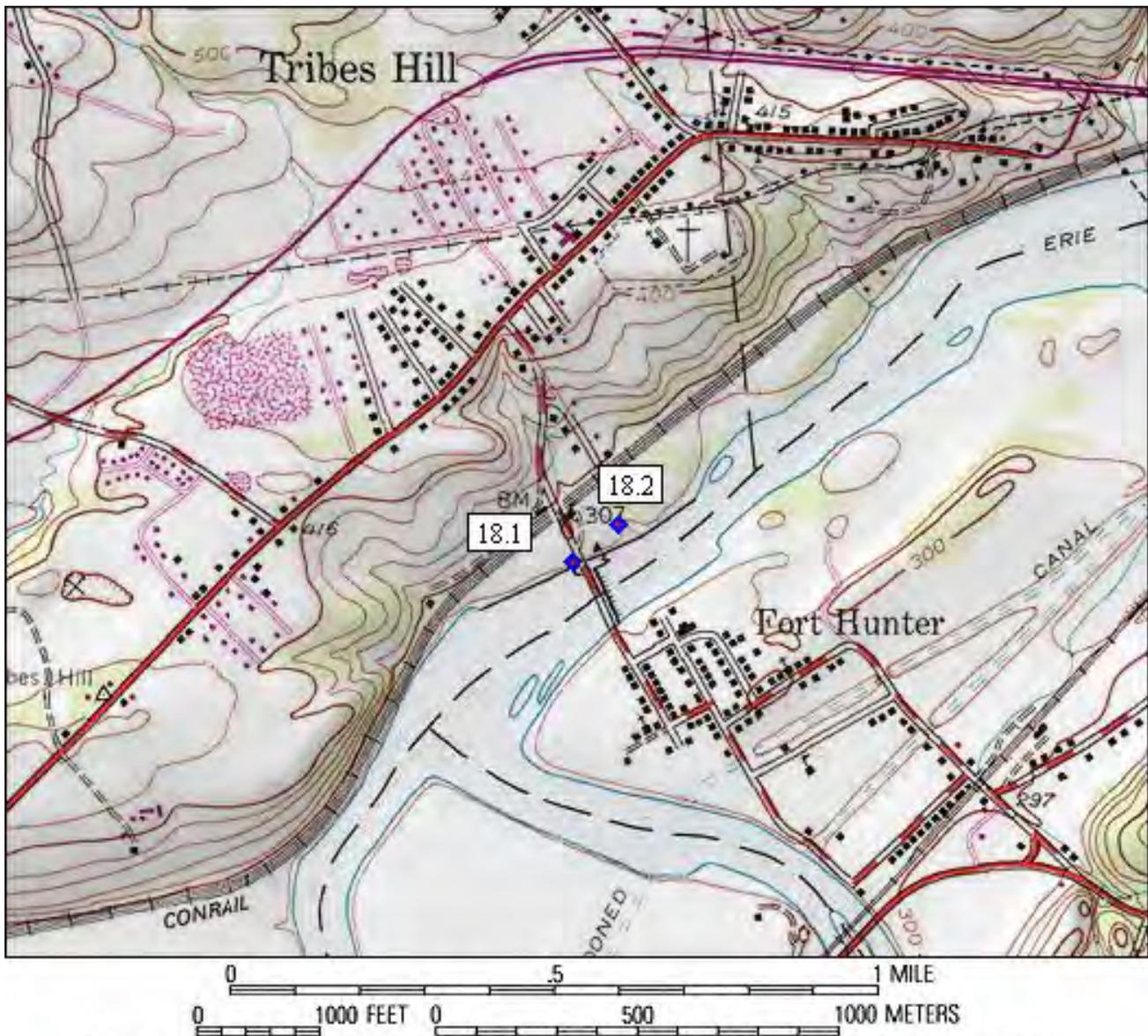
High-water mark 17.2 is a fair seed line 6.0 feet above the ground, on the streamward side of an "old schoolhouse" building upstream from house at 2 Main Street (State Route 30A), on the right bank, at elevation 291.85 feet above NGVD 29 (lat 42°56'57.7", long 74°22'12.4").



High-water mark 17.3 is a good mud line 1.2 feet above the ground, on the landward side of Travelodge at 123 Riverside Drive (County Route 119), on the right bank, at elevation 291.10 feet above NGVD 29 (lat 42°56'56.7", long 74°21'27.7").

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SITE DESCRIPTION	
<b>Site 18:</b>	Mohawk River at Erie Canal Lock 12 at Tribes Hill, NY
<b>Site Location:</b>	Erie Canal Lock 12, lat 42°56'43.9", long 74°17'21.0", NAD 83
	Town of Mohawk, Montgomery County, NY
	Tribes Hill USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: one debris line and one from communications with New York State Canal Corporation personnel.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by L.T. Brooks and URS on July 22, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 31, 2006. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



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Tribes Hill quad map with location of site 18, Mohawk River at Erie Canal Lock 12 at Tribes Hill, NY

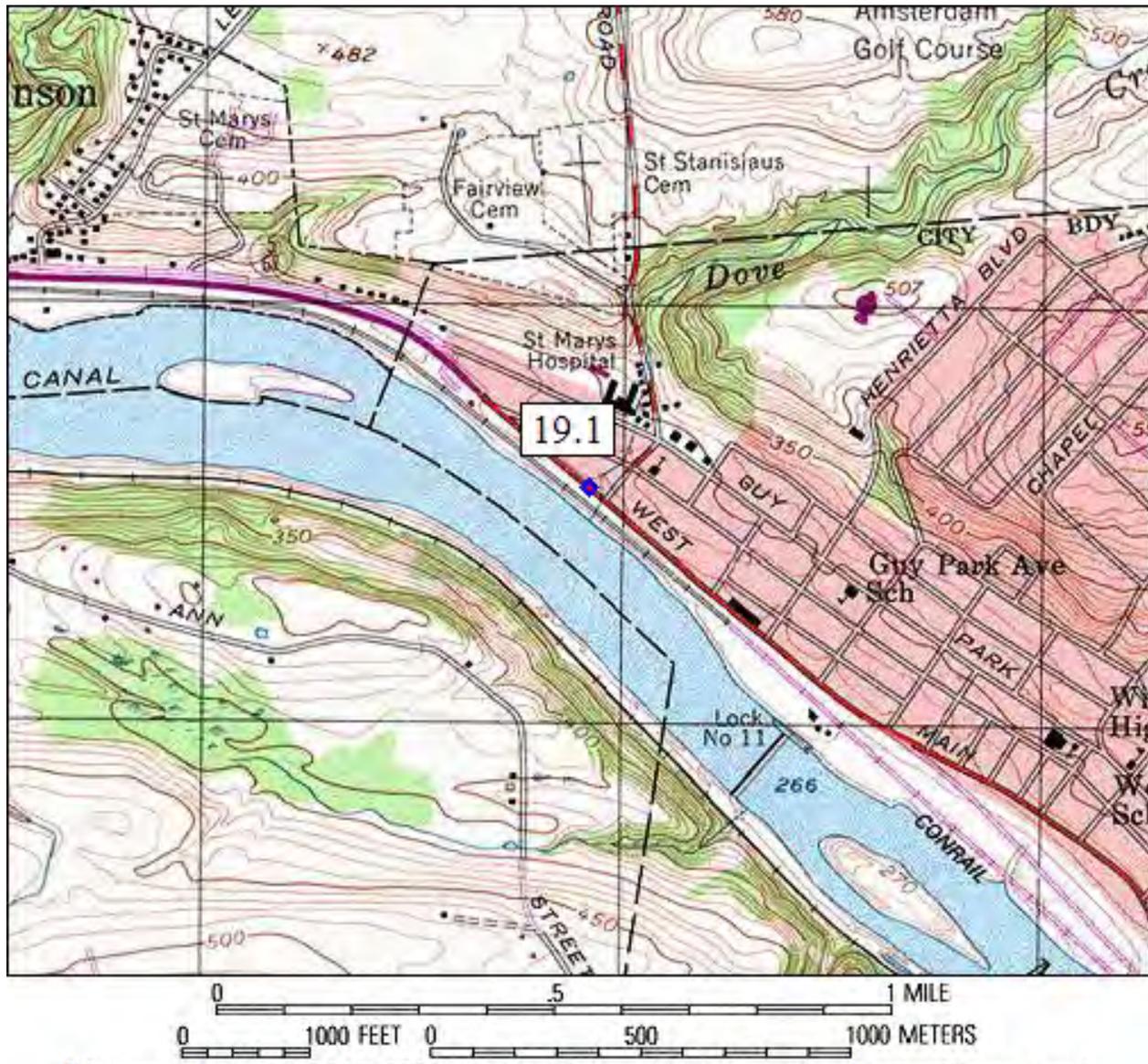


High-water mark 18.1 from communications with New York State Canal Corporation personnel is 7.5 feet above the ground, on the downstream side of the upstream landward lock control cabin, near the left bank, at elevation 287.72 feet above NGVD 29 (lat 42°56'43.9", long 74°17'21.0").



High-water mark 18.2 is a good debris line on the ground, on the left bank, 220 feet downstream and 180 feet landward from the Erie Canal Lock 12 structure, at elevation 279.72 feet above NGVD 29 (lat 42°56'47.4", long 74°17'15.8").

SITE DESCRIPTION
<b>Site 19:</b> Mohawk River at State Routes 5 and 67 (West Main Street) at Amsterdam, NY
<b>Site Location:</b> State Routes 5 and 67, lat 42°57'07.1", long 74°12'57.7", NAD 83
City of Amsterdam, Montgomery County, NY
Amsterdam USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: two seed lines and one from communications with business owner.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 15, 2006.
High-water-mark elevations were surveyed from a reference mark that is a chiseled square on the southwest corner of headwall of north abutment of Division Street bridge over Dove Creek in Amsterdam. This is RM 1 in the City of Amsterdam FEMA flood-insurance study. Elevation is 285.11 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



Amsterdam quad map with location of site 19, Mohawk River at State Routes 5 and 67 (West Main Street) at Amsterdam, NY



High-water mark 19.1 is an excellent seed line 0.4 foot above the ground, on the streamward side of Carpetland at 411 West Main Street, on the left bank, at elevation 274.67 feet above NGVD 29 (lat 42°57'07.1", long 74°12'57.7").

SITE DESCRIPTION
<b>Site 20:</b> Mohawk River at Erie Canal Lock 11 at Amsterdam, NY
<b>Site Location:</b> Erie Canal Lock 11, lat 42°56'49.4", long 74°12'37.9", NAD 83
City of Amsterdam, Montgomery County, NY
Amsterdam USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one mud line and one from communications with New York State Canal Corporation personnel.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 15, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS bolthead set in top of the northeast corner of the north concrete wall of Erie Canal Lock 11 at Amsterdam, NGS PID NA0057. Elevation is 269.94 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



Amsterdam quad map with location of site 20, Mohawk River at Erie Canal Lock 11 at Amsterdam, NY

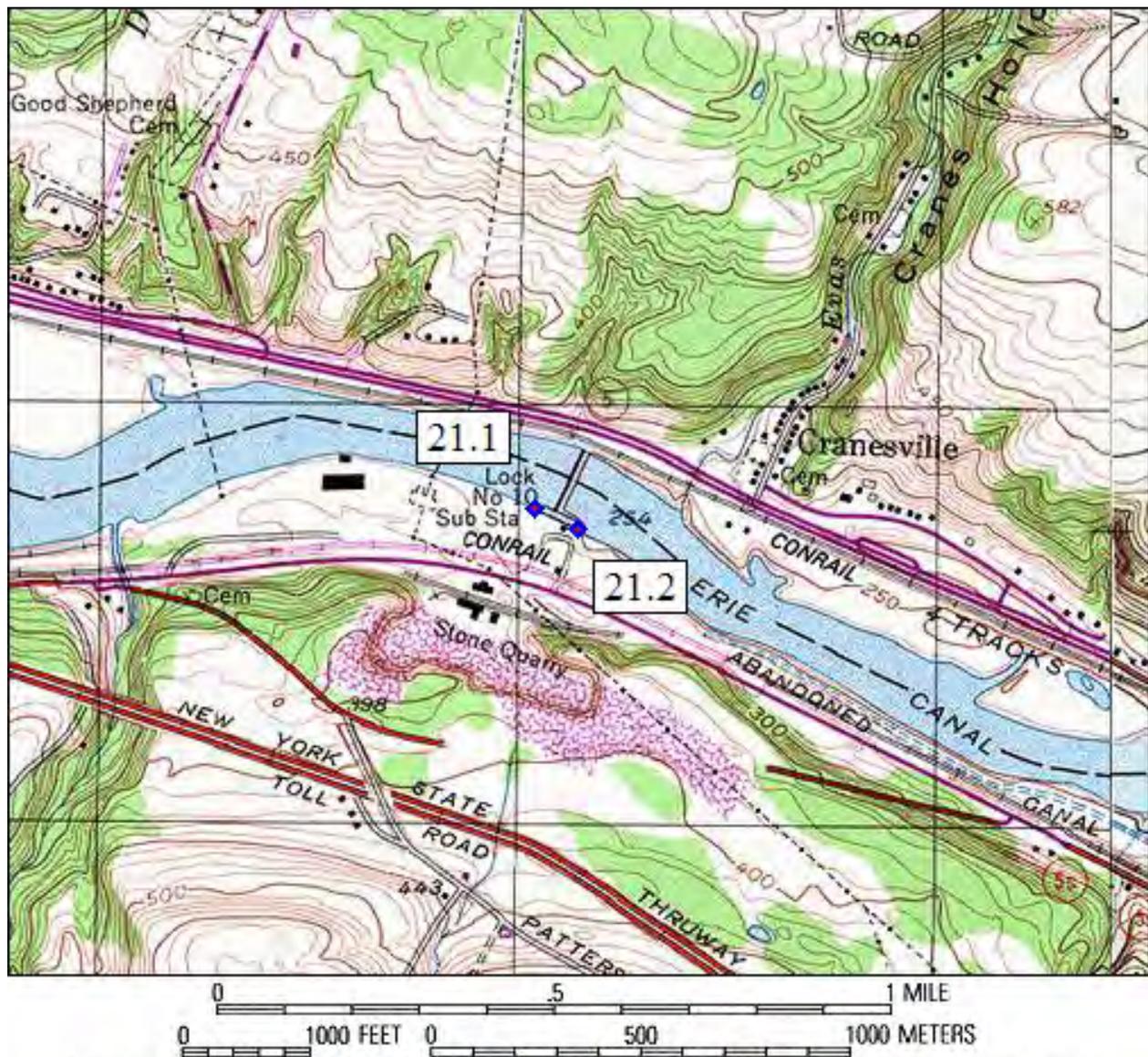


High-water mark 20.1 from communications with New York State Canal Corporation personnel is 3.6 feet above the ground, on the downstream side of the upstream landward lock control cabin, near the left bank, at elevation 273.55 feet above NGVD 29 (lat 42°56'49.4", long 74°12'37.9").



High-water mark 20.2 is an excellent mud line 3.3 feet above the ground, on the downstream side of the downstream landward lock control cabin, near the left bank, at elevation 273.20 feet above NGVD 29 (lat 42°56'47.0", long 74°12'34.3").

SITE DESCRIPTION
<b>Site 21:</b> Mohawk River at Erie Canal Lock 10 at Cranesville, NY
<b>Site Location:</b> Erie Canal Lock 10, lat 42°55'01.9", long 74°08'29.0", NAD 83
Town of Amsterdam, Montgomery County, NY
Amsterdam USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 16, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped R 444 1981 set vertically in the north face of the northern most pier in the gate structure of Erie Canal Lock 10 at Cranesville, NGS PID NA1828. Elevation is 261.89 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Amsterdam quad map with location of site 21, Mohawk River at Erie Canal Lock 10 at Cranesville, NY

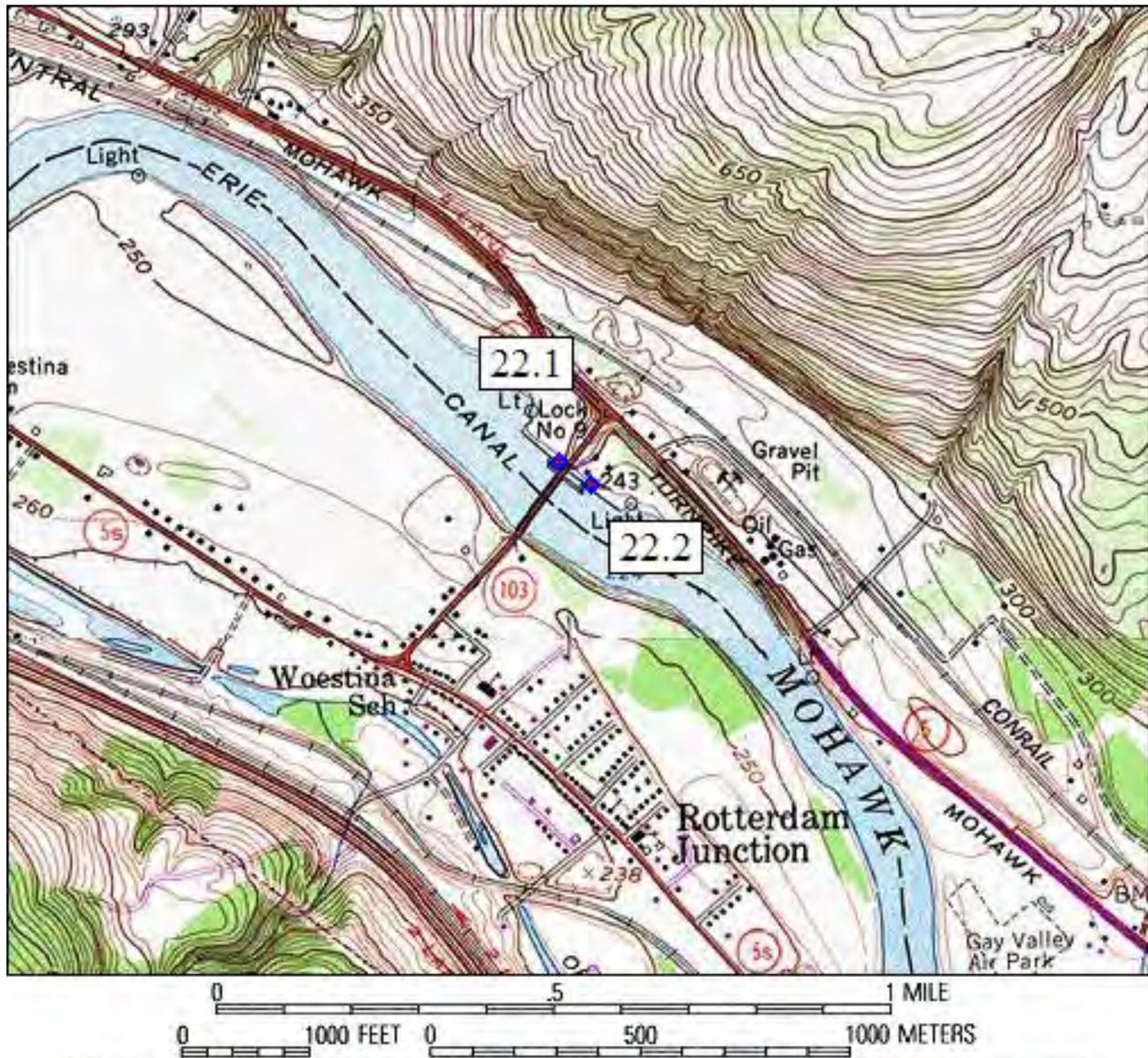


High-water mark 21.1 is an excellent mud line 6.3 feet above the ground, on the downstream side of the upstream landward lock control cabin, near the right bank, at elevation 263.93 feet above NGVD 29 (lat 42°55'01.9", long 74°08'29.0").



High-water mark 21.2 is an excellent mud line 5.7 feet above the ground, on the downstream side of the downstream landward lock control cabin, near the right bank, at elevation 263.42 feet above NGVD 29 (lat 42°55'00.2", long 74°08'24.4").

SITE DESCRIPTION
<b>Site 22:</b> Mohawk River at Erie Canal Lock 9 at Rotterdam Junction, NY
<b>Site Location:</b> Erie Canal Lock 9, lat 42°52'43.9", long 74°02'29.3", NAD 83
Town of Rotterdam, Schenectady County, NY
Pattersonville USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 16, 2006, and L.T. Brooks and M.S. Ralbovsky on August 8, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped X 32 RESET 1952, 5.6 miles northwest along State Route 5 from the post office at Scotia, set vertically in the northwest face of the southeast abutment of the State Route 5 bridge over the CSX Transportation railroad tracks, NGS PID NA0067. Elevation is 275.80 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



Pattersonville quad map with location of site 22, Mohawk River at Erie Canal Lock 9 at Rotterdam Junction, NY



High-water mark 22.1 is an excellent mud line 6.4 feet above the ground, inside the upstream landward lock control cabin, near the left bank, at elevation 249.34 feet above NGVD 29 (lat 42°52'43.9", long 74°02'29.3").



High-water mark 22.2 is an excellent mud line 4.7 feet above the ground, inside the downstream landward lock control cabin, near the left bank, at elevation 247.64 feet above NGVD 29 (lat 42°52'42.1", long 74°02'26.0").

SITE DESCRIPTION
<b>Site 23:</b> Little Beaver Kill at County Route 146 (Dahlia Road) at Morsston, NY
<b>Site Location:</b> Bridge on County Route 146, lat 41°52'49.2", long 74°48'31.8", NAD 83
Town of Rockland, Sullivan County, NY
Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on July 31, 2006.
High-water-mark elevations were surveyed from a reference mark which is a cross cut on the northerly upper flange bolt of a hydrant located between the two buildings on the old airport site in Livingston Manor, 55 feet southwest of the centerline of County Route 146. Elevation is 1,429.39 feet above NGVD 29, from NYS DOT. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



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Livingston Manor quad map with location of site 23, Little Beaver Kill at County Route 146 (Dahlia Road) at Morsston, NY

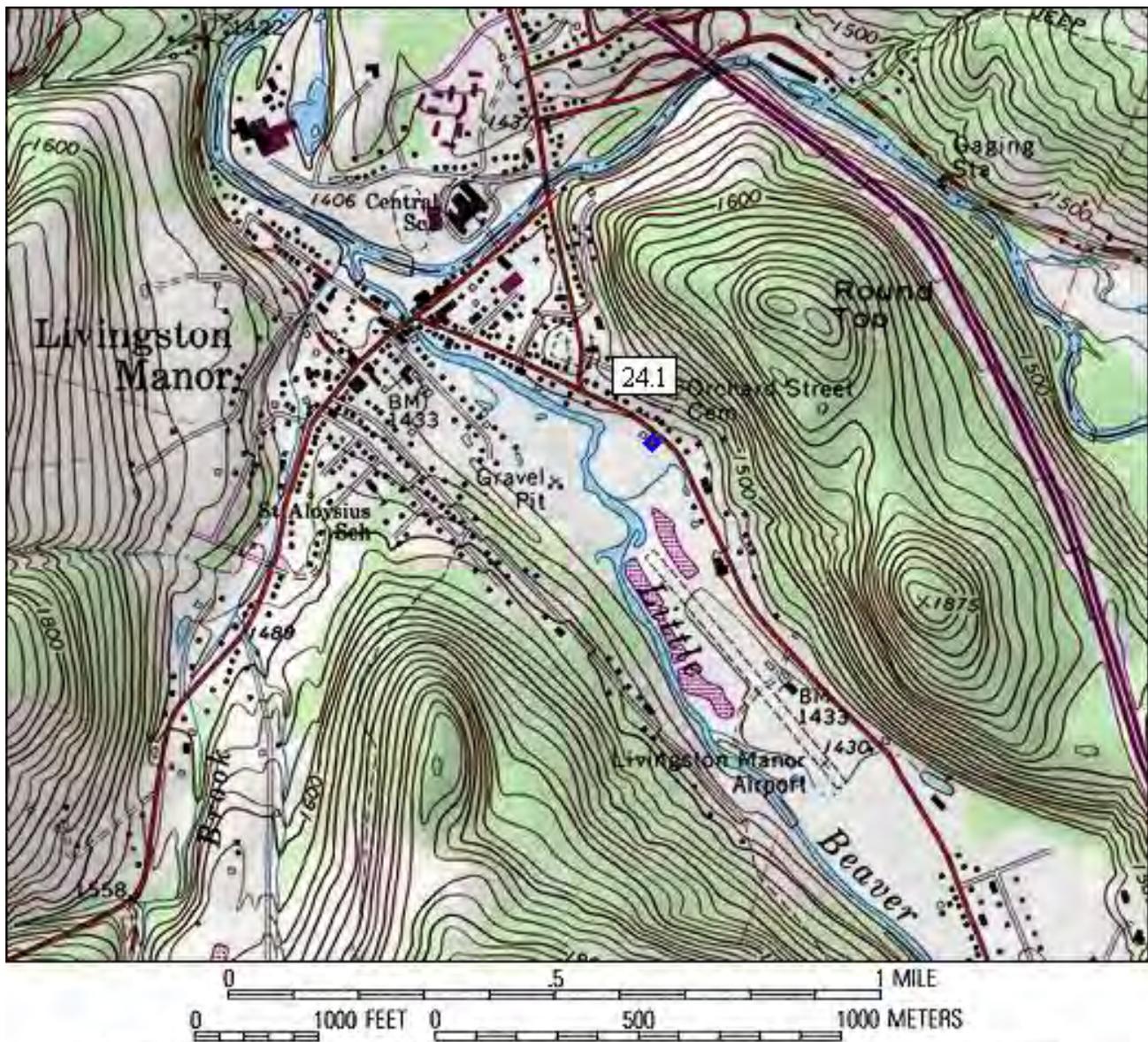


High-water mark 23.1 is a fair mud line 1.0 foot above the ground, on the downstream side of house at 31 Dahlia Road, on the left bank, 20 feet upstream and 120 feet landward from the County Route 146 bridge, at elevation 1,468.72 feet above NGVD 29 (lat 41°52'48.6", long 74°48'30.3").



High-water mark 23.3 is a fair debris line on the ground, on the right bank, 190 feet downstream from the County Route 146 bridge, at elevation 1,462.13 feet above NGVD 29 (lat 41°52'50.9", long 74°48'33.8").

SITE DESCRIPTION
<b>Site 24:</b> Little Beaver Kill at County Route 178 (Old Route 17) at Livingston Manor, NY
<b>Site Location:</b> County Route 178, lat 41°53'51.3", long 74°49'16.4", NAD 83
Town of Rockland, Sullivan County, NY
Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 1, 2006.
High-water-mark elevations were surveyed from a reference mark which is a cross cut on the northerly upper flange bolt of a hydrant located between the two buildings on the old airport site in Livingston Manor, 55 feet southwest of the centerline of County Route 146. Elevation is 1,429.39 feet above NGVD 29, from NYS DOT. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



Livingston Manor quad map with location of site 24, Little Beaver Kill at County Route 178 (Old Route 17) at Livingston Manor, NY



High-water mark 24.1 is a good seed line 5.6 feet above the ground, on the landward side of house at 523 Old Route 17, on the right bank, at elevation 1,427.24 feet above NGVD 29 (lat 41°53'51.3", long 74°49'16.4").

SITE DESCRIPTION
<b>Site 25:</b> Little Beaver Kill at Pearl Street at Livingston Manor, NY
<b>Site Location:</b> Pearl Street, lat 41°53'58.0", long 74°49'33.2", NAD 83
Town of Rockland, Sullivan County, NY
Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one seed line and one from communications with business owner.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 1, 2006.
High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 1441 NY 1920 set in the front sill of the front wall of the Town of Rockland Office Building, formally Livingston Manor National Bank, in Livingston Manor. This is RM 20 in the Town of Rockland FEMA flood insurance study. Elevation is 1,441.02 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.

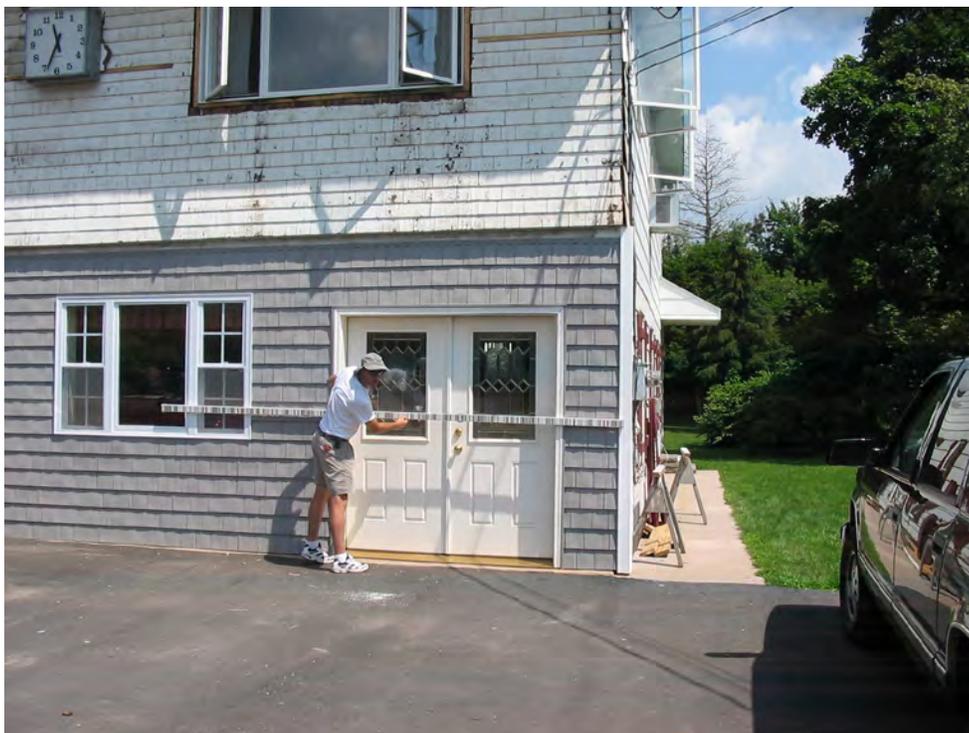


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Livingston Manor quad map with location of site 25, Little Beaver Kill at Pearl Street at Livingston Manor, NY



High-water mark 25.1 is a fair seed line 4.0 feet above the floor, inside the garage of house at 32 Pearl Street, on the right bank, at elevation 1,426.14 feet above NGVD 29 (lat 41°53'58.0", long 74°49'33.2").



High-water mark 25.2 from communications with business owner is 4.5 feet above the ground, on the streamward side of Bryant Funeral Home at 29 Pearl Street, on the right bank, at elevation 1,425.92 feet above NGVD 29 (lat 41°53'59.9", long 74°49'33.4").

SITE DESCRIPTION	
<b>Site 26:</b>	Willowemoc Creek at County Route 149 (Main Street) at Livingston Manor, NY
<b>Site Location:</b>	County Route 149, lat 41°54'07.3", long 74°49'29.3", NAD 83
	Town of Rockland, Sullivan County, NY
	Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one from communications with business owner.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 1, 2006.
	High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 1441 NY 1920 set in the front sill of the front wall of the Town of Rockland Office Building, formally Livingston Manor National Bank, in Livingston Manor. This is RM 20 in the Town of Rockland FEMA flood insurance study. Elevation is 1,441.02 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



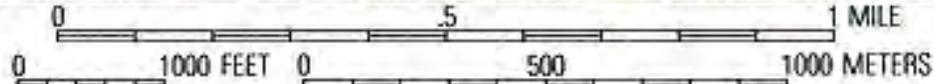
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Livingston Manor quad map with location of site 26, Willowemoc Creek at County Route 149 (Main Street) at Livingston Manor, NY



High-water mark 26.1 from communications with business owner is 0.5 foot above the ground, on the streamward side of Fulton Surveying at 15 Main Street, on the left bank, at elevation 1,426.88 feet above NGVD 29 (lat 41°54'07.3", long 74°49'29.3").

SITE DESCRIPTION
<b>Site 27:</b> Confluence of Willowemoc Creek and Little Beaver Kill at County Route 149 (Main Street) at Livingston Manor, NY
<b>Site Location:</b> County Route 149, lat 41°54'03.1", long 74°49'40.1", NAD 83
Town of Rockland, Sullivan County, NY
Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one from communications with business owner.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 1, 2006.
High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 1441 NY 1920 set in the front sill of the front wall of the Town of Rockland Office Building, formally Livingston Manor National Bank, in Livingston Manor. This is RM 20 in the Town of Rockland FEMA flood insurance study. Elevation is 1,441.02 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



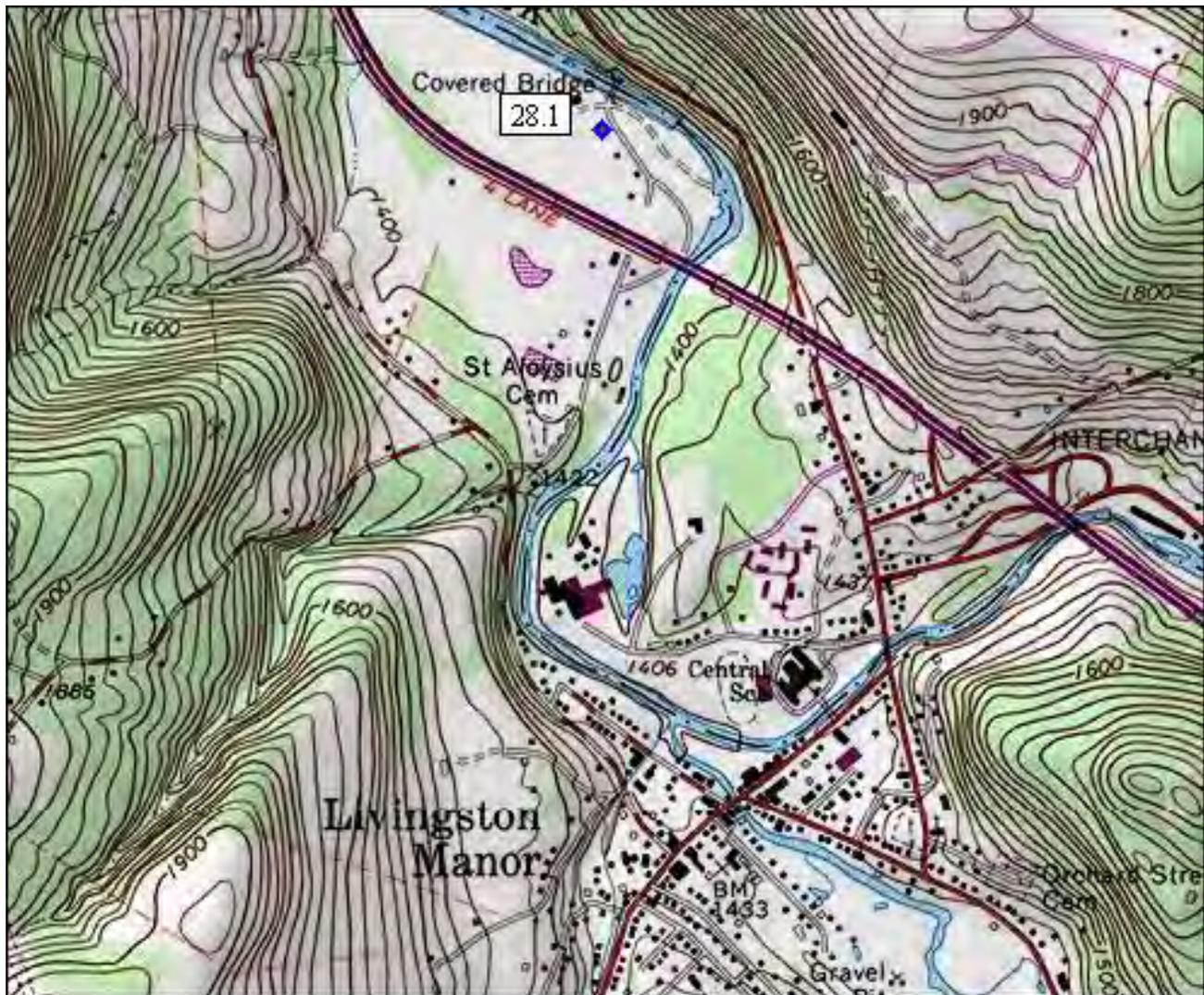
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Livingston Manor quad map with location of site 27, Confluence of Willowemoc Creek and Little Beaver Kill at County Route 149 (Main Street) at Livingston Manor, NY



High-water mark 27.1 from communications with business owner is 3.1 feet above the ground, on the landward side of Registration Systems Inc. at 48 Main Street, on the left bank of Willowemoc Creek, at elevation 1,425.66 feet above NGVD 29 (lat 41°54'03.1", long 74°49'40.1").

SITE DESCRIPTION
<b>Site 28:</b> Willowemoc Creek at Covered Bridge Road at Livingston Manor, NY
<b>Site Location:</b> Covered Bridge Road, lat 41°54'49.9", long 74°49'55.6", NAD 83
Town of Rockland, Sullivan County, NY
Livingston Manor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 23, 2006. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



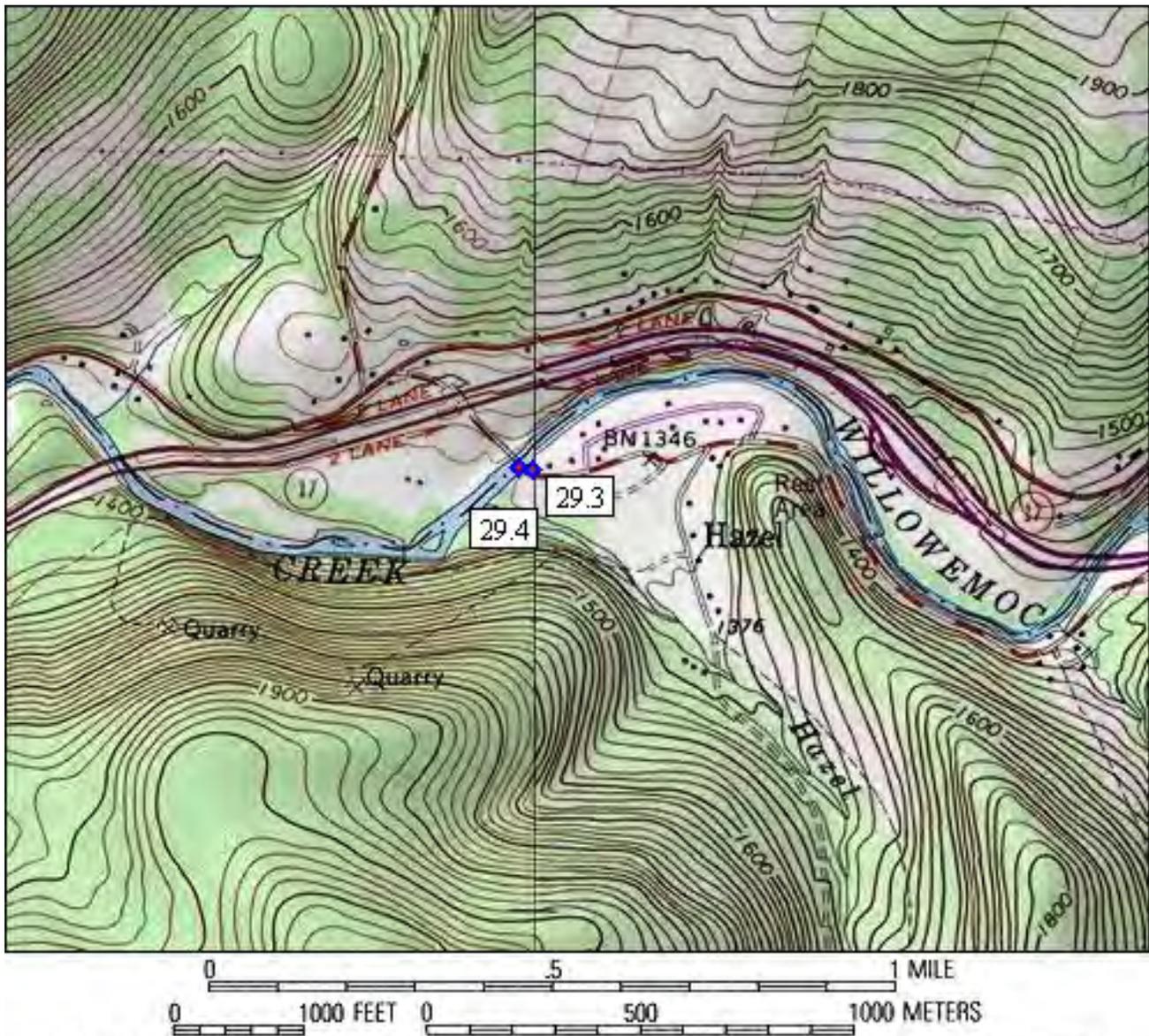
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Livingston Manor quad map with location of site 28, Willowemoc Creek at Covered Bridge Road at Livingston Manor, NY



High-water mark 28.1 is a good mud line 2.5 feet above the ground, on the streamward side of a storage shed landward from house at 135 Covered Bridge Road, on the left bank, at elevation 1,398.50 feet above NGVD 29 (lat 41°54'49.9", long 74°49'55.6").

SITE DESCRIPTION	
<b>Site 29:</b>	Willowemoc Creek at Hazel Road at Hazel, NY
<b>Site Location:</b>	Bridge on Hazel Road, lat 41°55'34.2", long 74°52'30.6", NAD 83
	Town of Rockland, Sullivan County, NY
	Roscoe USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Five high-water marks were surveyed: five debris lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 1, 2006.
	High-water-mark elevations were surveyed from a reference mark that is a chiseled square on the top of the downstream left wingwall of the Hazel Road bridge over Willowemoc Creek in Hazel. Elevation is 1,344.34 feet above NGVD, from NYS DOT bridge plans, BIN 3367570. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



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Roscoe quad map with location of site 29, Willowemoc Creek at Hazel Road at Hazel, NY



High-water mark 29.3 is a poor debris line on the ground, on the left bank, 70 feet upstream from the Hazel Road bridge, at elevation 1,340.94 feet above NGVD 29 (lat 41°55'33.8", long 74°52'28.7").



High-water mark 29.4 is a fair debris line on the ground, on the left bank, 20 feet downstream from the Hazel Road bridge, at elevation 1,339.33 feet above NGVD 29 (lat 41°55'33.9", long 74°52'30.3").

SITE DESCRIPTION
<b>Site 30:</b> Willowemoc Creek at County Route 124 (Stewart Avenue) at Roscoe, NY
<b>Site Location:</b> Bridge on County Route 124, lat 41°55'48.6", long 74°54'52.8", NAD 83
Town of Rockland, Sullivan County, NY
Roscoe USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: two seed lines, one debris line, and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 19, 2006. Marks were surveyed (except for upstream mark) and additional photos taken by L.T. Brooks and G.D. Firda on August 16, 2007.
Upstream high-water-mark elevation was surveyed by URS using DGPS methods on August 23, 2006.
All other high-water-mark elevations were surveyed from a reference mark that is a chiseled square on the right downstream wingwall. This is RM 13 in the Town of Rockland FEMA flood-insurance study. Elevation is 1,288.30 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



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Roscoe quad map with location of site 30, Willowemoc Creek at County Route 124 (Stewart Avenue) at Roscoe, NY

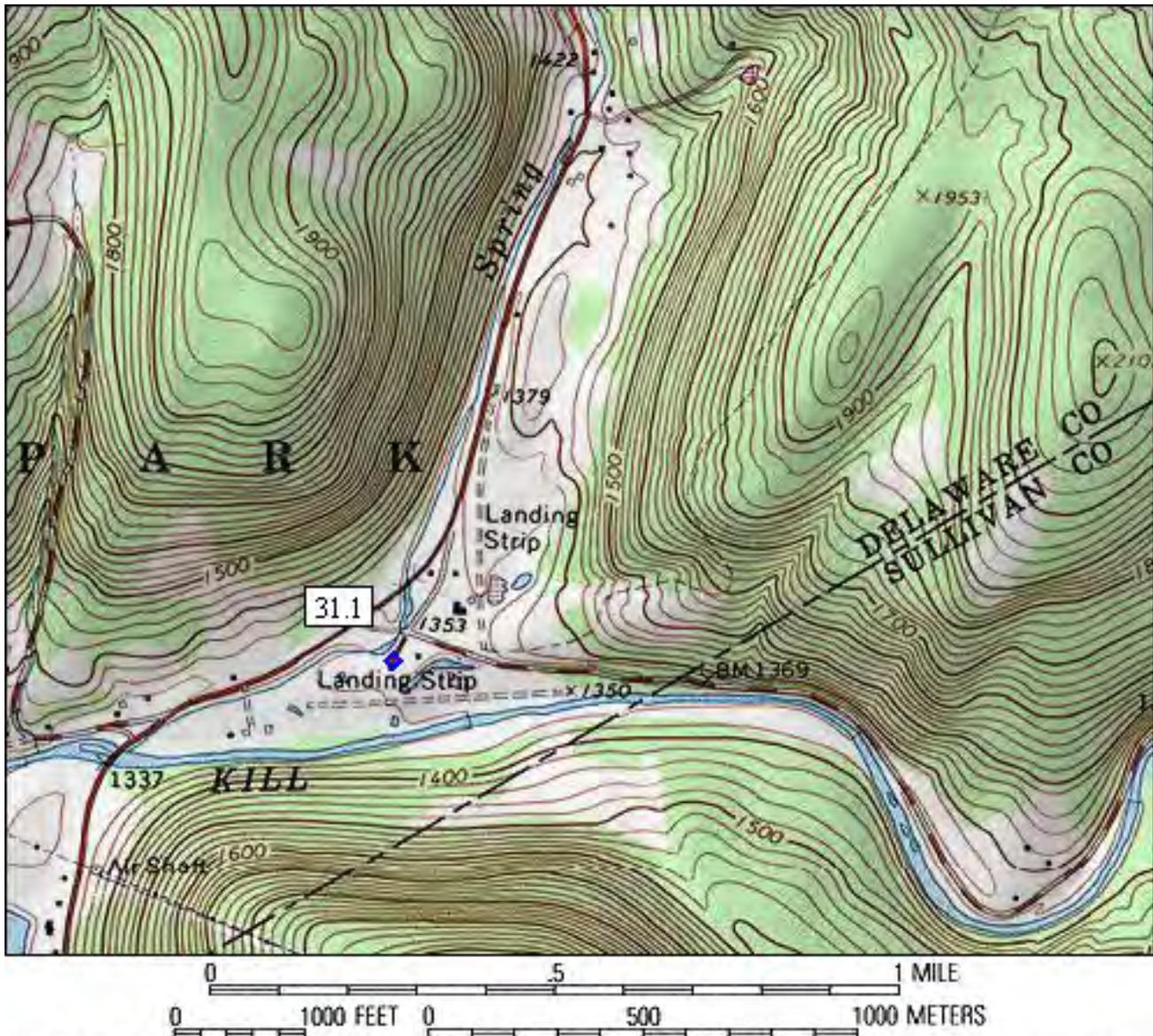


High-water mark 30.1 is a good mud line 1.8 feet above the ground, on the downstream side of NAPA Auto Parts at 28 Cottage Street, on the right bank, 590 feet upstream from the County Route 124 bridge, at elevation 1,286.50 feet above NGVD 29 (lat 41°55'46.3", long 74°54'45.9").



High-water mark 30.2 is a poor seed line 2.0 feet above the bottom of the center I-beam, on the downstream side of the I-beam, near the right abutment of the County Route 124 bridge, at elevation 1,284.93 feet above NGVD 29 (lat 41°55'50.4", long 74°54'52.8").

SITE DESCRIPTION
<b>Site 31:</b> Beaver Kill at Beaverkill Road near Rockland, NY
<b>Site Location:</b> Beaverkill Road, lat 41°58'01.2", long 74°53'56.0", NAD 83
Town of Colchester, Delaware County, NY
Roscoe USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 23, 2006. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



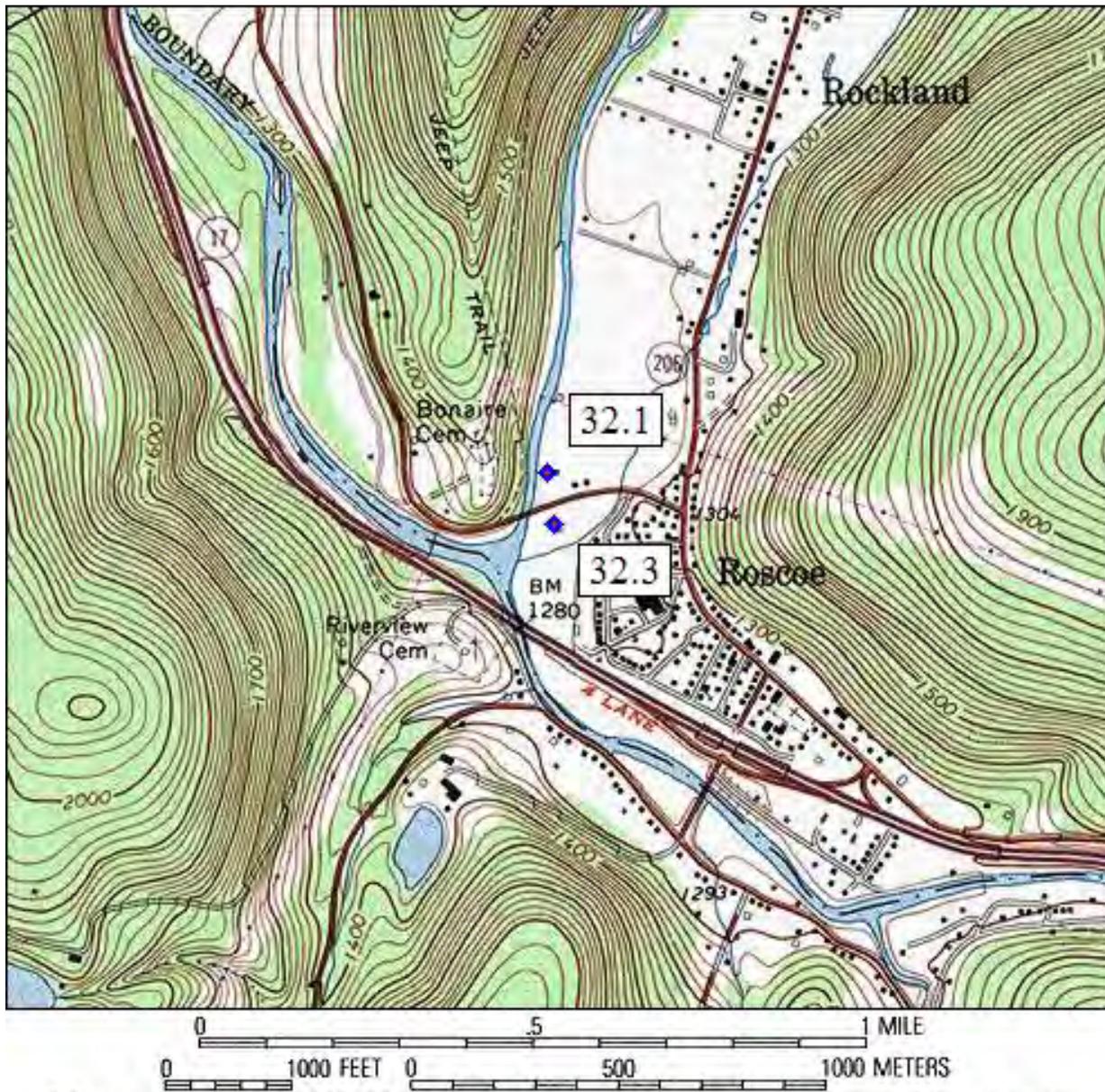
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Roscoe quad map with location of site 31, Beaver Kill at Beaverkill Road near Rockland, NY



High-water mark 31.1 is a good mud line 2.0 feet above the ground, on the upstream side of a detached garage streamward from house at 98 Beaverkill Road, on the right bank, at elevation 1,345.32 feet above NGVD 29 (lat 41°58'01.2", long 74°53'56.0").

SITE DESCRIPTION
<b>Site 32:</b> Beaver Kill at County Route 179A (Old Route 17) at Roscoe, NY
<b>Site Location:</b> Bridge on County Route 179A, lat 41°56'10.2", long 74°55'11.4", NAD 83
Town of Rockland, Sullivan County, NY
Roscoe USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: one seed line, one mud line, and one wash line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 19, 2006. Marks were surveyed and additional photos taken by L.T. Brooks and M.S. Ralbovsky on July 31, 2007.
High-water-mark elevations were surveyed by L.T. Brooks and M.S. Ralbovsky using DGPS methods on July 31, 2007. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



Roscoe quad map with location of site 32, Beaver Kill at County Route 179A (Old Route 17) at Roscoe, NY

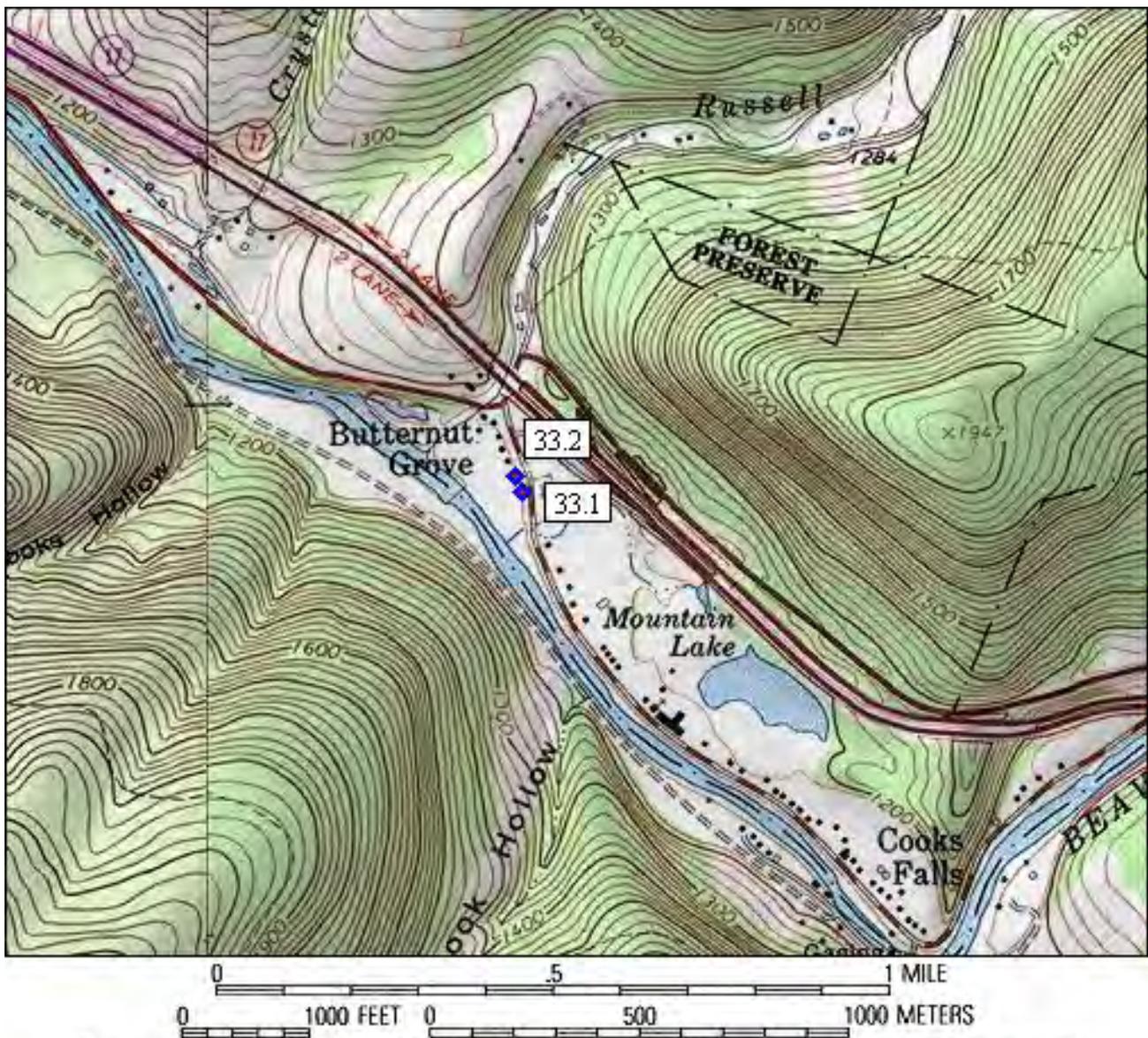


High-water mark 32.1 is a good mud line 5.2 feet above the ground, on the downstream side of Roscoe Hotel at 2054 Old Route 17, on the left bank, 250 feet upstream from the County Route 179A bridge, at elevation 1,278.13 feet above NGVD 29 (lat 41°56'14.1", long 74°55'09.5").



High-water mark 32.3 is an excellent seed line 6.0 feet above the ground, on the upstream side of the Roscoe Central Schools Athletic Fields bathhouse, on the left bank, 220 feet downstream from the County Route 179A bridge, at elevation 1,277.14 feet above NGVD 29 (lat 41°56'10.0", long 74°55'08.8").

SITE DESCRIPTION
<b>Site 33:</b> Beaver Kill at Cooks Falls Road at Butternut Grove, NY
<b>Site Location:</b> Cooks Falls Road, lat 41°57'23.6", long 74°59'25.9", NAD 83
Town of Colchester, Delaware County, NY
Roscoe USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two seed lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on July 31, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01420500 reference mark RM 5. Elevation is 1,167.27 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



Roscoe quad map with location of site 33, Beaver Kill at Cooks Falls Road at Butternut Grove, NY



High-water mark 33.1 is a fair seed line 1.5 feet above the ground, on the streamward side of a pavilion upstream from Cooks Falls-Horton Firehouse on Cooks Falls Road, on the right bank, at elevation 1,155.17 feet above NGVD 29 (lat  $41^{\circ}57'23.6''$ , long  $74^{\circ}59'25.9''$ ).



High-water mark 33.2 is a fair seed line 2.0 feet above the ground, on the downstream side of a storage shed streamward from Cooks Falls-Horton Firehouse on Cooks Falls Road, on the right bank, at elevation 1,155.23 feet above NGVD 29 (lat  $41^{\circ}57'24.7''$ , long  $74^{\circ}59'26.6''$ ).

SITE DESCRIPTION
<b>Site 34:</b> Beaver Kill at County Route 17 (Old Route 17) at Horton, NY
<b>Site Location:</b> County Route 17, lat 41°58'09.6", long 75°01'34.2", NAD 83
Town of Colchester, Delaware County, NY
Horton USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 23, 2006. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.

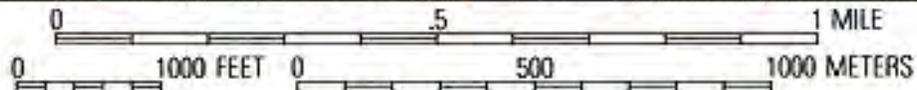


Horton quad map with location of site 34, Beaver Kill at County Route 17 (Old Route 17) at Horton, NY



High-water mark 34.1 is a fair mud line 5.2 feet above the ground, on the downstream side of Riverside Café and Lodge at 16624 County Route 17, on the right bank, at elevation 1,114.40 feet above NGVD 29 (lat 41°58'09.6", long 75°01'34.2").

SITE DESCRIPTION
<b>Site 35:</b> Beaver Kill at Peakville Road at Peakville, NY
<b>Site Location:</b> Peakville Road, lat 41°58'52.1", long 75°05'45.1", NAD 83
Town of Hancock, Delaware County, NY
Horton USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on July 31, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped D48 RESET 1961 set on the upstream left abutment (northeast end of the east abutment) of the Old Route 17 bridge over the East Branch Delaware River in East Branch, NGS PID LY1080. This is RM 27 in the Town of Hancock FEMA flood-insurance study. Elevation is 1,022.36 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



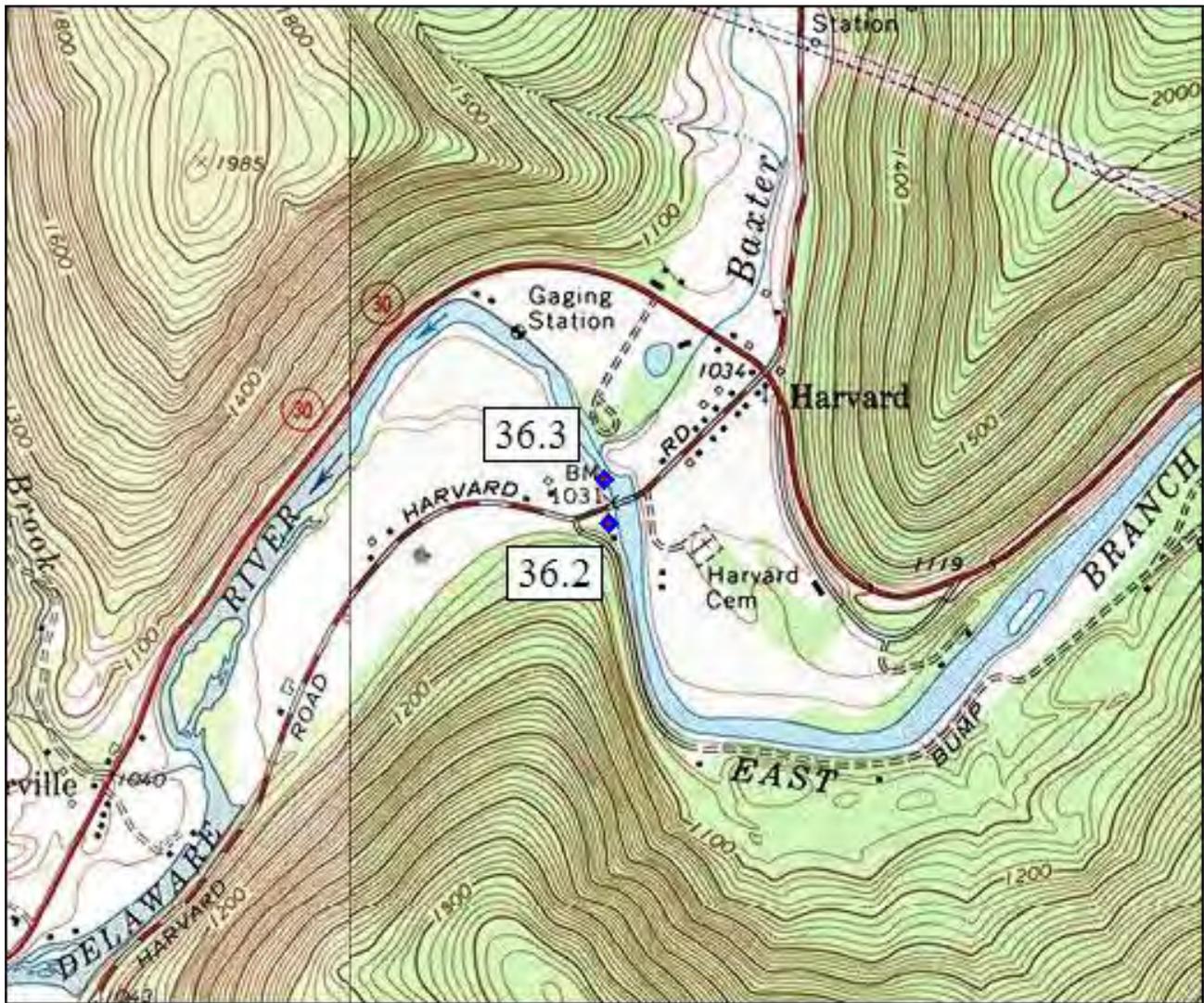
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Horton quad map with location of site 35, Beaver Kill at Peakville Road at Peakville, NY



High-water mark 35.1 is a fair debris line on the ground, 40 feet upstream from house at 230 Peakville Road, on the left bank, at elevation 1,038.22 feet above NGVD 29 (lat 41°58'52.1", long 75°05'45.1").

SITE DESCRIPTION
<b>Site 36:</b> East Branch Delaware River at Harvard Road at Harvard, NY
<b>Site Location:</b> Bridge on Harvard Road, lat 42°01'16.2", long 75°07'00.6", NAD 83
Town of Hancock, Delaware County, NY
Corbett USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: two seed lines, one debris line, and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 14, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped U 311 1942 set in the north corner of the west abutment of the Harvard Road bridge over the East Branch Delaware River in Harvard, NGS PID NA1417. This is RM 16 in the Town of Hancock FEMA flood-insurance study. Elevation is 1,030.92 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



Corbett quad map with location of site 36, East Branch Delaware River at Harvard Road at Harvard, NY

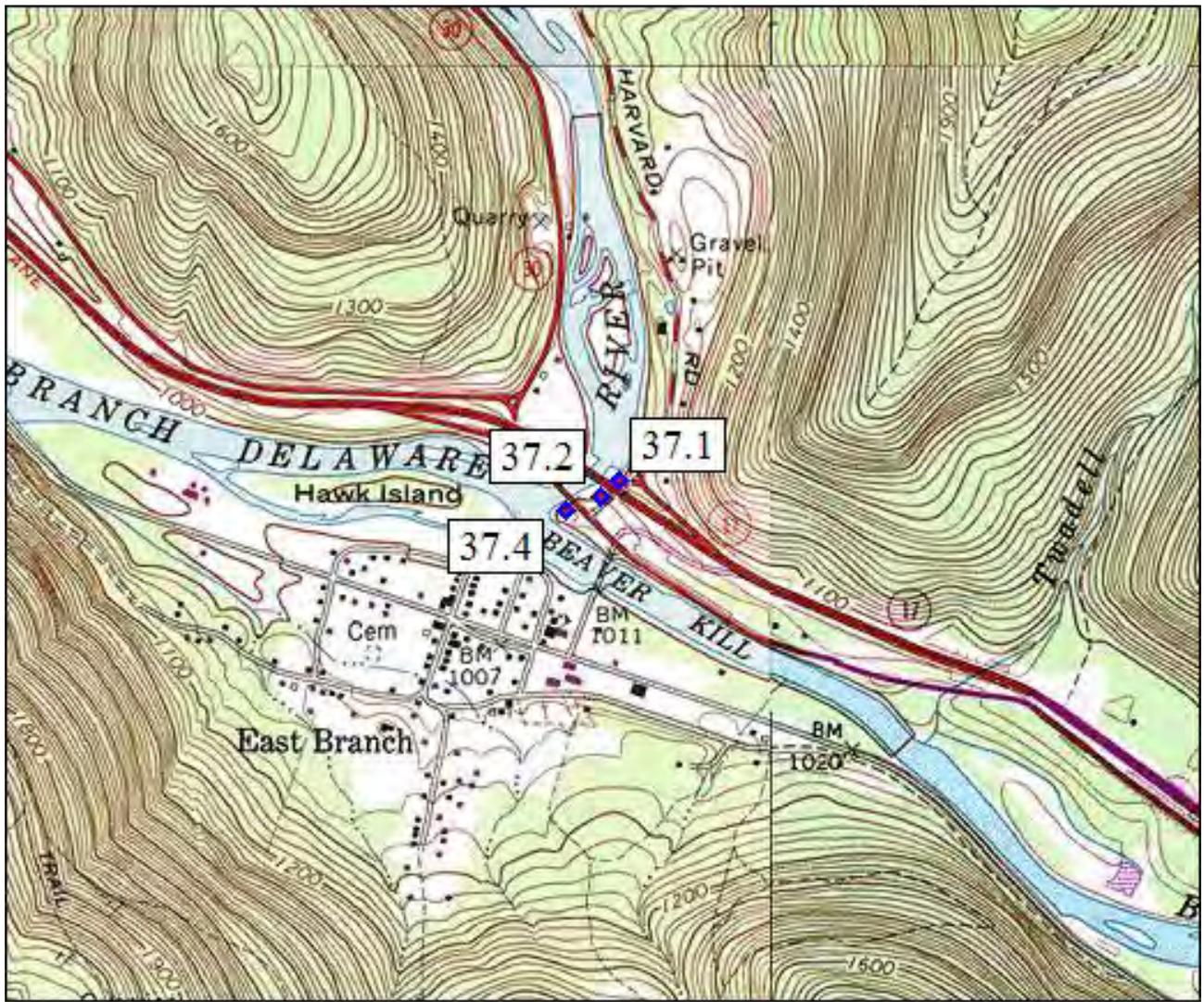


High-water mark 36.2 is a good mud line 2.0 feet above the ground, on the downstream side of unnumbered house on Harvard Road, on the left bank, 170 feet upstream from the Harvard Road bridge, at elevation 1,026.11 feet above NGVD 29 (lat 42°01'14.5", long 75°07'02.2").



High-water mark 36.3 is a poor seed line 4.3 feet above the ground, on a tree on the left bank, 210 feet downstream from the Harvard Road bridge, at elevation 1,025.84 feet above NGVD 29 (lat 42°01'17.9", long 75°07'02.6").

SITE DESCRIPTION
<b>Site 37:</b> East Branch Delaware River at State Route 17 and Old Route 17 at East Branch, NY
<b>Site Location:</b> Bridges on State Route 17 and Old Route 17, lat 41°59'28.8", long 75°07'46.2", NAD 83
Town of Hancock, Delaware County, NY
Fishes Eddy USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: three debris lines and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by M.E. Hendricks and T.P. Suro on August 14, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped D48 RESET 1961 set on the upstream left abutment (northeast end of the east abutment) of the Old Route 17 bridge over the East Branch Delaware River in East Branch, NGS PID LY1080. This is RM 27 in the Town of Hancock FEMA flood-insurance study. Elevation is 1,022.36 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Fishes Eddy quad map with location of site 37, East Branch Delaware River at State Route 17 and Old Route 17 at East Branch, NY



High-water mark 37.1 is a fair debris line on the ground, on the left bank, 70 feet upstream from the State Route 17 bridge, at elevation 1,011.32 feet above NGVD 29 (lat 41°59'28.6", long 75°07'44.0").



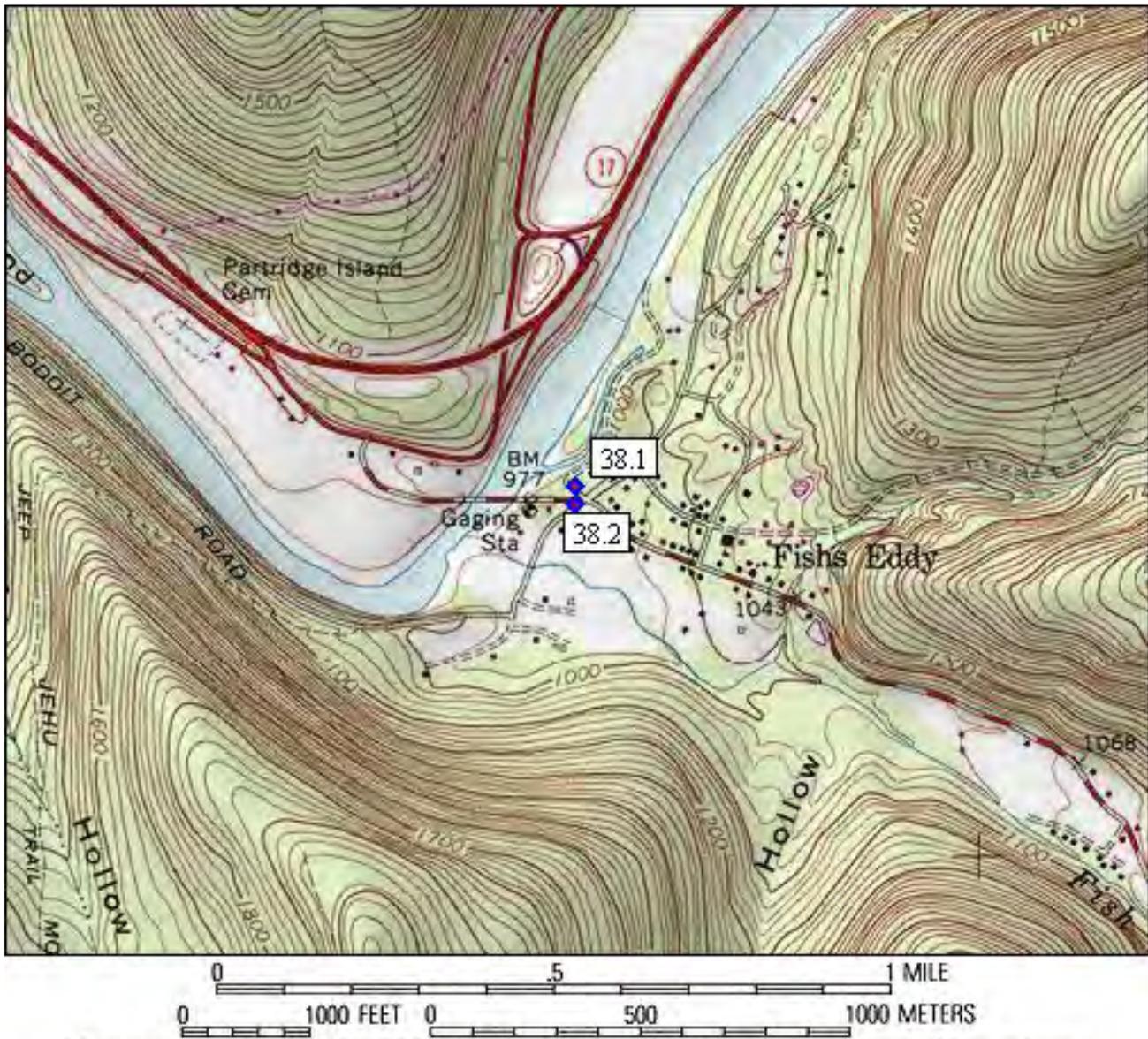
High-water mark 37.2 is a poor seed line 5.6 feet above the ground, on a tree on the left bank, 180 feet upstream from the Old Route 17 bridge, at elevation 1,010.82 feet above NGVD 29 (lat 41°59'27.4", long 75°07'46.0").



High-water mark 37.4 is a fair debris line on the ground, on the left bank, 55 feet downstream from the Old Route 17 bridge, at elevation 1,008.92 feet above NGVD 29 (lat 41°59'26.3", long 75°07'49.6").

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SITE DESCRIPTION
<b>Site 38:</b> East Branch Delaware River at County Route 28 at Fishs Eddy, NY
<b>Site Location:</b> Bridge on County Route 28, lat 41°57'58.2", long 75°10'48.6", NAD 83
Town of Hancock, Delaware County, NY
Fishs Eddy USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by L.T. Brooks and D.P. Grant on August 2, 2006.
High-water-mark elevations were surveyed from the top of the downstream left abutment where a previous USGS stream-gaging station 01421000 reference mark disk was located (destroyed). This is RM 40 in the Town of Hancock FEMA flood-insurance study. Elevation is 976.60 feet above NGVD 29. To convert to NAVD 88, subtract 0.49 feet from elevations at this site.



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Fishs Eddy quad map with location of site 38, East Branch Delaware River at County Route 28 at Fishs Eddy, NY



High-water mark 38.1 is a fair mud line 0.4 foot above the ground, on the landward side of house at 37 O and W Circle, on the left bank, 50 feet upstream from the County Route 28 bridge, at elevation 975.32 feet above NGVD 29 (lat 41°57'59.0", long 75°10'40.4").



High-water mark 38.2 is a poor debris line on the ground, on the left bank, 40 feet downstream from the County Route 28 bridge, at elevation 973.97 feet above NGVD 29 (lat 41°57'57.7", long 75°10'40.1").

SITE DESCRIPTION
<b>Site 39:</b> East Branch Delaware River at State Route 97 at Hancock, NY
<b>Site Location:</b> Bridge on State Route 97, lat 41°57'10.2", long 75°16'36.0", NAD 83
Village of Hancock, Delaware County, NY
Hancock USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Five high-water marks were surveyed: five debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by G.D. Firda and A.M. Gearwar on August 2, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped NGS CADOSIA 1934 on top of the southeast end of the northwest bridge seat of the Norfolk Southern Railway bridge over the East Branch Delaware River in Hancock, NGS PID LY0985. This is RM 4 in the Village of Hancock FEMA flood-insurance study. Elevation is 915.64 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Hancock quad map with location of site 39, East Branch Delaware River at State Route 97 at Hancock, NY

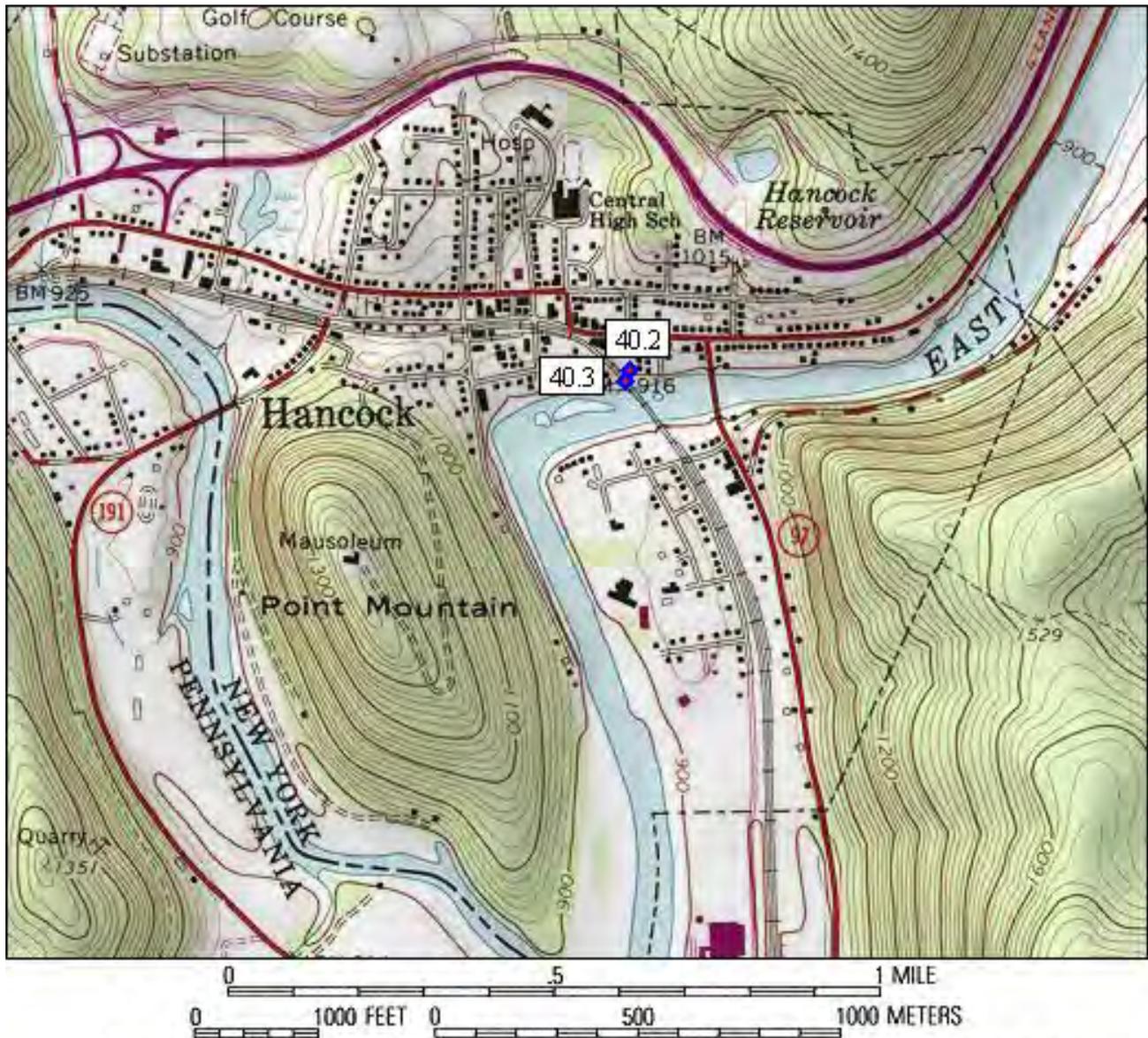


High-water mark 39.1 is a good debris line on the ground, on the right bank, 110 feet upstream from the State Route 97 bridge, at elevation 908.53 feet above NGVD 29 (lat 41°57'12.6", long 75°16'36.7").



High-water mark 39.4 is an excellent debris line on the ground, on the right bank, 80 feet downstream from the State Route 97 bridge, at elevation 908.38 feet above NGVD 29 (lat 41°57'12.0", long 75°16'39.8").

SITE DESCRIPTION
<b>Site 40:</b> East Branch Delaware River at Norfolk Southern Railway at Hancock, NY
<b>Site Location:</b> Bridge on Norfolk Southern Railway, lat 41°57'09.6", long 75°16'43.8", NAD 83
Village of Hancock, Delaware County, NY
Hancock USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Five high-water marks were surveyed: five debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by G.D. Firda and A.M. Gearwar on August 1, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped NGS CADOSIA 1934 on top of the southeast end of the northwest bridge seat of the Norfolk Southern Railway bridge over the East Branch Delaware River in Hancock, NGS PID LY0985. This is RM 4 in the Village of Hancock FEMA flood-insurance study. Elevation is 915.64 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Hancock quad map with location of site 40, East Branch Delaware River at Norfolk Southern Railway at Hancock, NY



High-water mark 40.2 is a fair debris line on the ground, on the right bank, 50 feet upstream from the Norfolk Southern Railway bridge, at elevation 908.38 feet above NGVD 29 (lat 41°57'11.7", long 75°16'44.7").



High-water mark 40.3 is a fair debris line on the ground, on the right bank, 30 feet downstream from the Norfolk Southern Railway bridge, at elevation 907.95 feet above NGVD 29 (lat 41°57'11.2", long 75°16'45.6").

SITE DESCRIPTION	
<b>Site 41:</b>	West Branch Delaware River at State Route 28 (Kingston Street) at Delhi, NY
<b>Site Location:</b>	Bridge on State Route 28, lat 42°16'29.4", long 74°54'58.8", NAD 83
	Village of Delhi, Delaware County, NY
	Delhi USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: one debris line and one seed line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 19, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 18, 2007.
	High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 1370 ADJ 1903 set vertically 3.5 feet above the ground in the southeast face of the Delaware County Courthouse, 200 feet northwest of Main Street, 70 feet northeast of Court Street, in Delhi, NGS PID NA0594. Elevation is 1,370.42 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Delhi quad map with location of site 41, West Branch Delaware River at State Route 28 (Kingston Street) at Delhi, NY

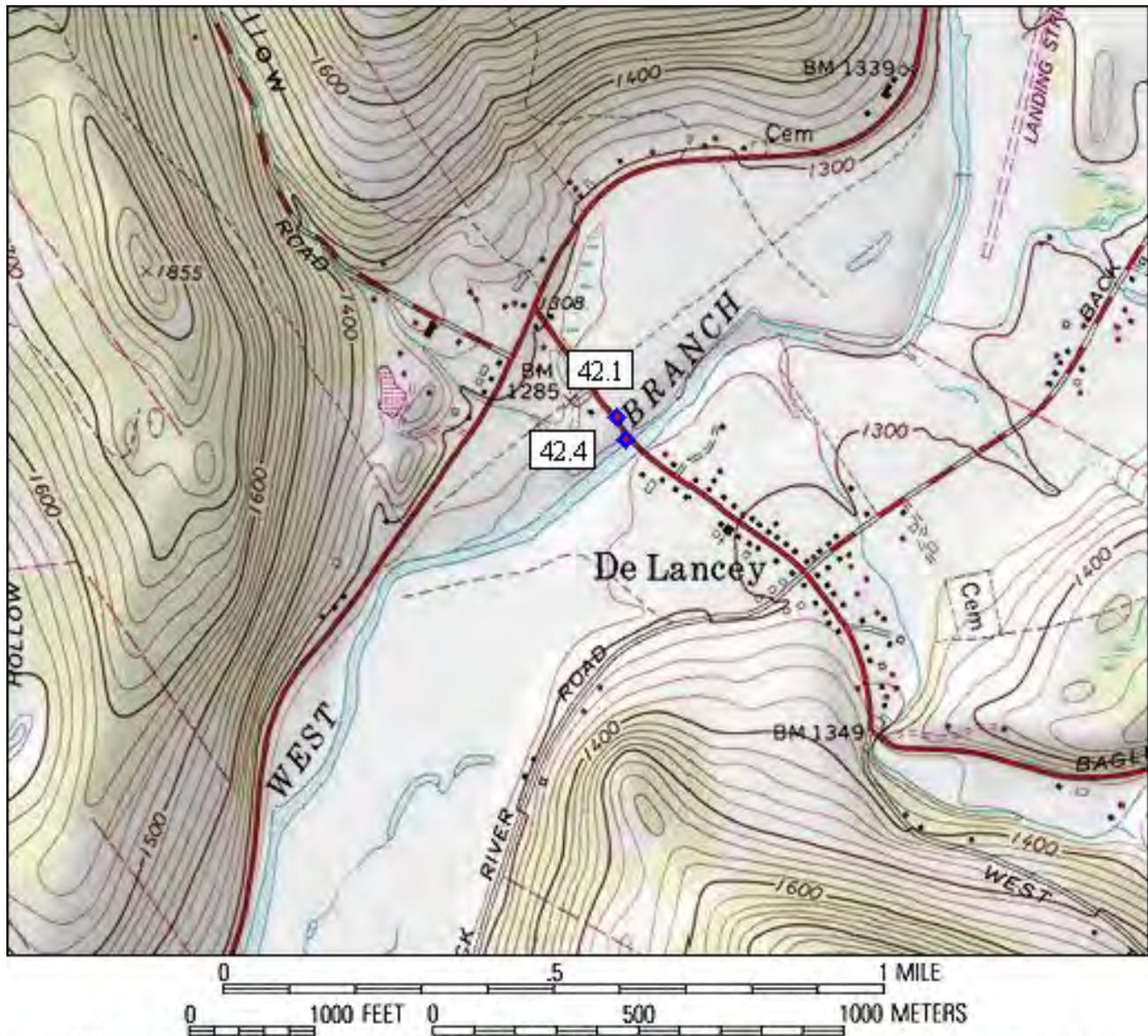


High-water mark 41.1 is a good debris line on the ground, on the left bank, 55 feet upstream from the State Route 28 bridge, at elevation 1,358.26 feet above NGVD 29 (lat 42°16'29.7", long 74°54'57.1").



High-water mark 41.2 is a fair seed line 1.5 feet above the ground, on the upstream side of a storage shed streamward from house at 53 Elm Street, on the right bank, 120 feet downstream from the State Route 28 bridge, at elevation 1,358.49 feet above NGVD 29 (lat 42°16'29.1", long 74°55'00.9").

SITE DESCRIPTION
<b>Site 42:</b> West Branch Delaware River at County Route 2 (Bagley Brook Road) at De Lancey, NY
<b>Site Location:</b> Bridge on County Route 2, lat 42°12'29.4", long 74°58'34.2", NAD 83
Town of Hamden, Delaware County, NY
Hamden USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: four debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 9, 2006. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



Hamden quad map with location of site 42, West Branch Delaware River at County Route 2 (Bagley Brook Road) at De Lancey, NY

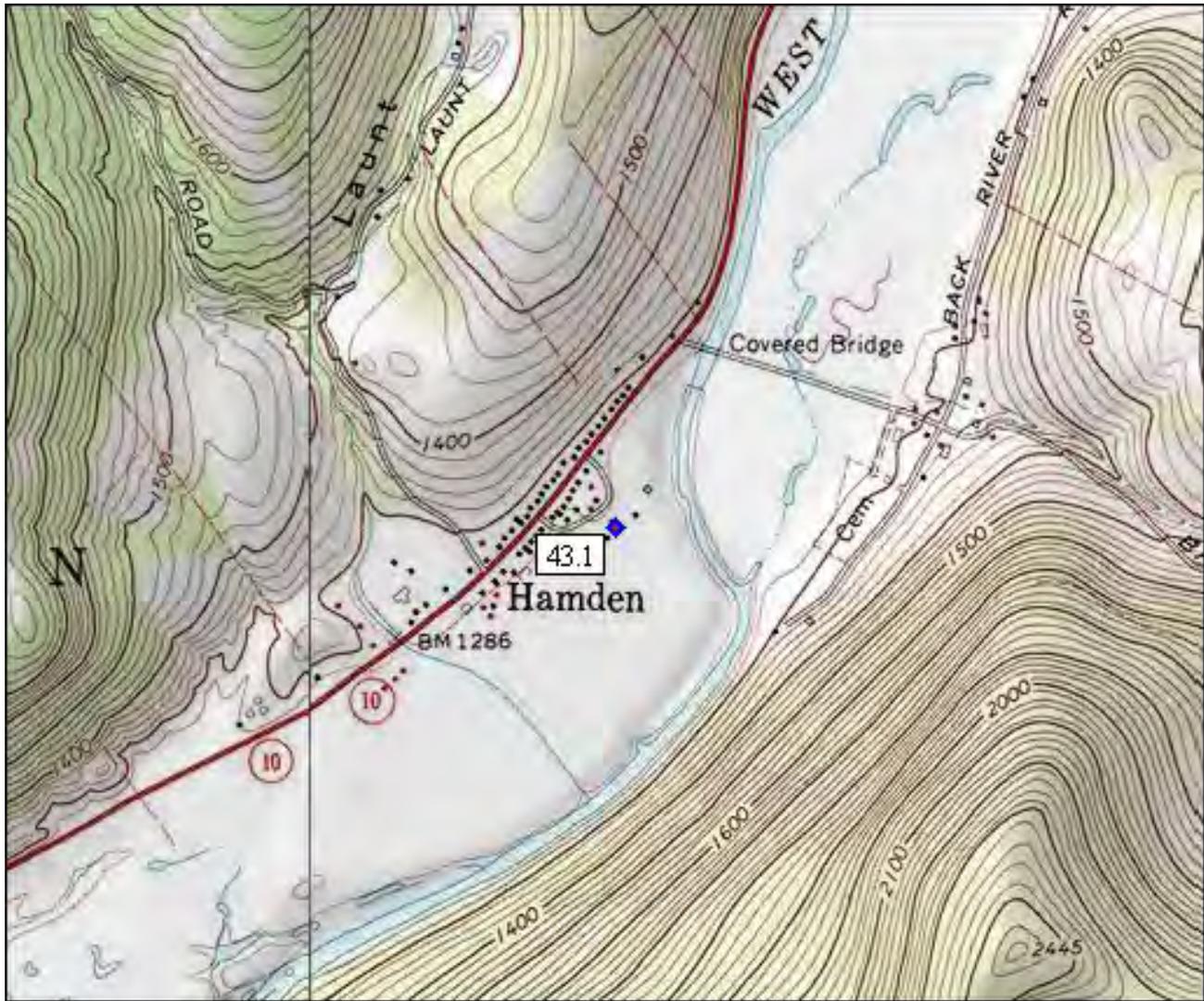


High-water mark 42.1 is a good debris line on the ground, on the right bank, 10 feet upstream and 190 feet landward from the County Route 2 bridge, at elevation 1,288.64 feet above NGVD 29 (lat 42°12'31.8", long 74°58'36.4").



High-water mark 42.4 is a good debris line on the ground, on the right bank, 20 feet downstream from the County Route 2 bridge, at elevation 1,285.52 feet above NGVD 29 (lat 42°12'30.1", long 74°58'35.4").

SITE DESCRIPTION	
<b>Site 43:</b>	West Branch Delaware River at Mill Street Spur at Hamden, NY
<b>Site Location:</b>	Mill Street Spur, lat 42°11'30.9", long 74°59'27.5", NAD 83
	Town of Hamden, Delaware County, NY
	Hamden USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one mud line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 9, 2006. To convert to NAVD 88, subtract 0.48 feet from elevations at this site.



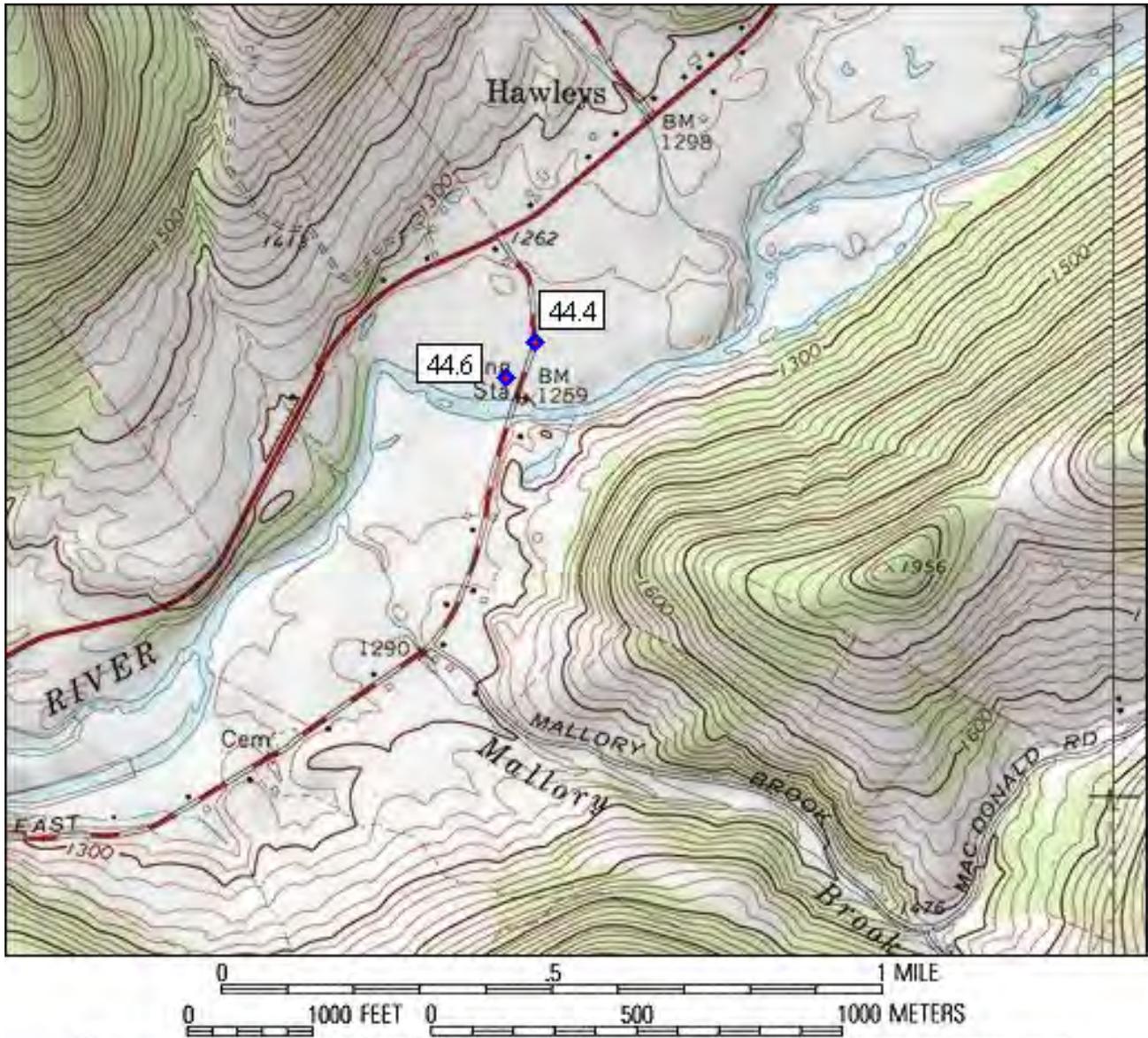
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Hamden quad map with location of site 43, West Branch Delaware River at Mill Street Spur at Hamden, NY



High-water mark 43.1 is an excellent mud line 2.5 feet above the ground, on landward side of a storage building streamward from house at 26 Mill Street Spur, on the right bank, at elevation 1,270.22 feet above NGVD 29 (lat 42°11'30.9", long 74°59'27.5").

SITE DESCRIPTION	
<b>Site 44:</b>	West Branch Delaware River at County Route 26 at Hawleys, NY
<b>Site Location:</b>	Bridge on County Route 26, lat 42°10'30.6", long 75°01'02.4", NAD 83
	Town of Hamden, Delaware County, NY
	Walton East USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Six high-water marks were surveyed: six debris lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 10, 2006. To convert to NAVD 88, subtract 0.46 feet from elevations at this site.



Walton East quad map with location of site 44, West Branch Delaware River at County Route 26 at Hawleys, NY



High-water mark 44.4 is a fair debris line on the ground, on the right bank, 10 feet upstream and 340 feet landward from the County Route 26 bridge, at elevation 1,259.74 feet above NGVD 29 (lat 42°10'35.8", long 75°01'01.2").



High-water mark 44.6 is a good debris line on the ground, on the right bank, 20 feet downstream from the County Route 26 bridge, at elevation 1,257.82 feet above NGVD 29 (lat 42°10'32.2", long 75°01'02.9").

SITE DESCRIPTION
<b>Site 45:</b> West Branch Delaware River at State Route 10 (Delaware Street) at Walton, NY
<b>Site Location:</b> State Route 10, lat 42°10'01.5", long 75°07'38.8", NAD 83
Village of Walton, Delaware County, NY
Walton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 10, 2006. To convert to NAVD 88, subtract 0.43 feet from elevations at this site.



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Walton West quad map with location of site 45, West Branch Delaware River at State Route 10 (Delaware Street) at Walton, NY



High-water mark 45.1 is an excellent mud line 5.0 feet above the ground, on the upstream side of Breakey Motors Inc. at 87 Delaware Street, on the right bank, at elevation 1,213.33 feet above NGVD 29 (lat 42°10'01.5", long 75°07'38.8").



High-water mark 45.2 is an excellent mud line 3.7 feet above the ground, on the streamward side of Lyon Bros-Way Inc. Furniture at 102 Delaware Street, on the right bank, at elevation 1,212.53 feet above NGVD 29 (lat 42°10'03.9", long 75°07'42.7").

SITE DESCRIPTION	
<b>Site 46:</b>	West Branch Delaware River at State Routes 10 and 206 (Delaware Street) at Walton, NY
<b>Site Location:</b>	State Routes 10 and 206, lat 42°10'05.9", long 75°07'48.3", NAD 83
	Village of Walton, Delaware County, NY
	Walton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: two mud lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 10, 2006. To convert to NAVD 88, subtract 0.43 feet from elevations at this site.



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Walton West quad map with location of site 46, West Branch Delaware River at State Routes 10 and 206 (Delaware Street) at Walton, NY

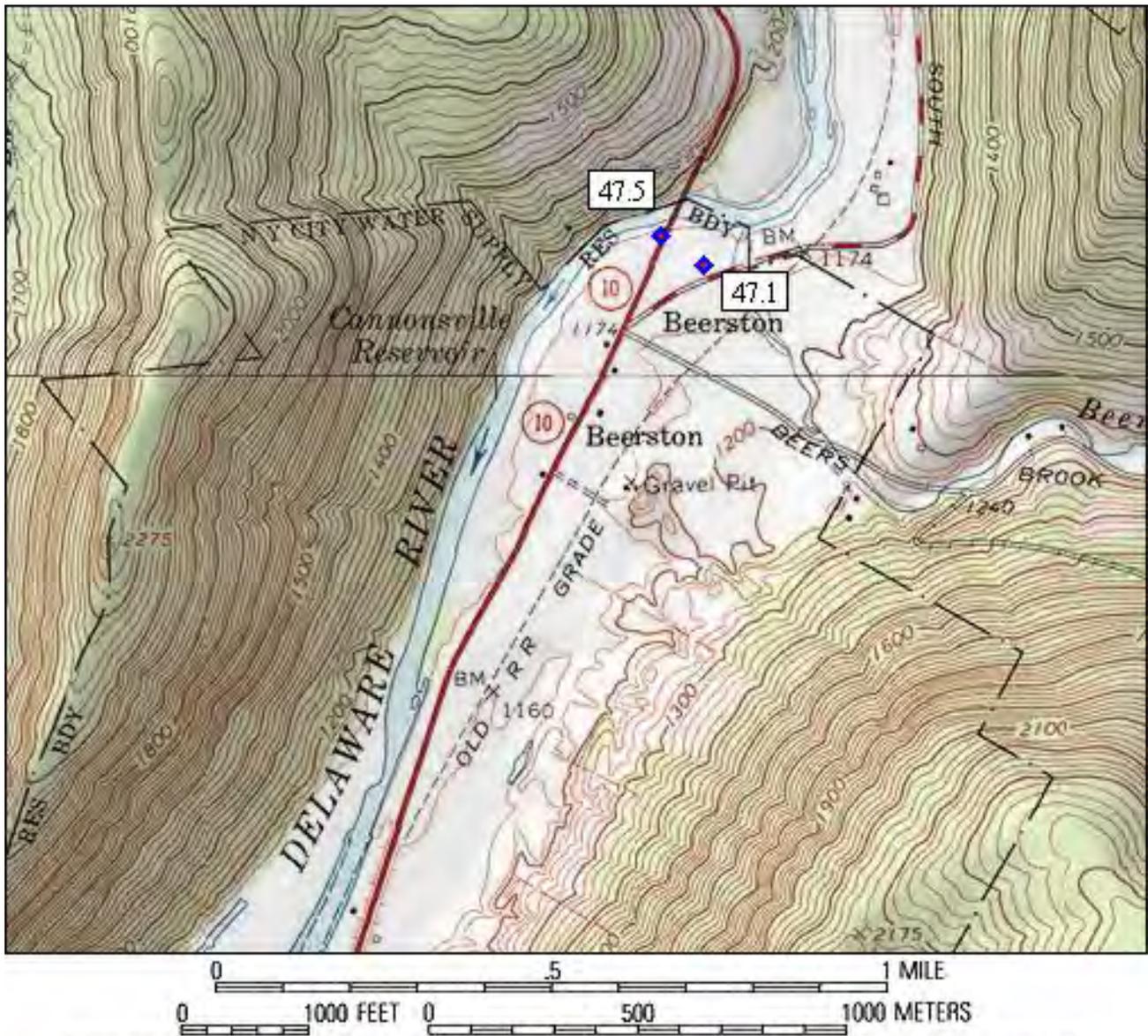


High-water mark 46.1 is an excellent mud line 4.0 feet above the ground, on the streamward side of Eggleton and McNee Insurance at 138 Delaware Street, on the right bank, at elevation 1,211.79 feet above NGVD 29 (lat 42°10'05.9", long 75°07'48.3").



High-water mark 46.2 is an excellent mud line 5.0 feet above the ground, on the streamward side of building at 188 Delaware Street, on the right bank, at elevation 1,211.03 feet above NGVD 29 (lat 42°10'07.8", long 75°07'55.5").

SITE DESCRIPTION	
<b>Site 47:</b>	West Branch Delaware River at State Route 10 at Beerston, NY
<b>Site Location:</b>	Bridge on State Route 10, lat 42°07'43.2", long 75°09'39.0", NAD 83
	Town of Walton, Delaware County, NY
	Walton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Five high-water marks were surveyed: three debris lines and two seed lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by G.D. Firda and A.M. Gearwar on August 1, 2006.
	High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped Z 126 1941 set in top of a concrete post, 0.29 miles northwest of State Route 10 along South River Road and 21 feet south of the centerline of road (disk is in front yard of house), NGS PID NA1267. This is RM 10 in the Town of Walton FEMA flood-insurance study. Elevation is 1,174.48 feet above NGVD 29. To convert to NAVD 88, subtract 0.43 feet from elevations at this site.



Walton West quad map with location of site 47, West Branch Delaware River at State Route 10 at Beerston, NY

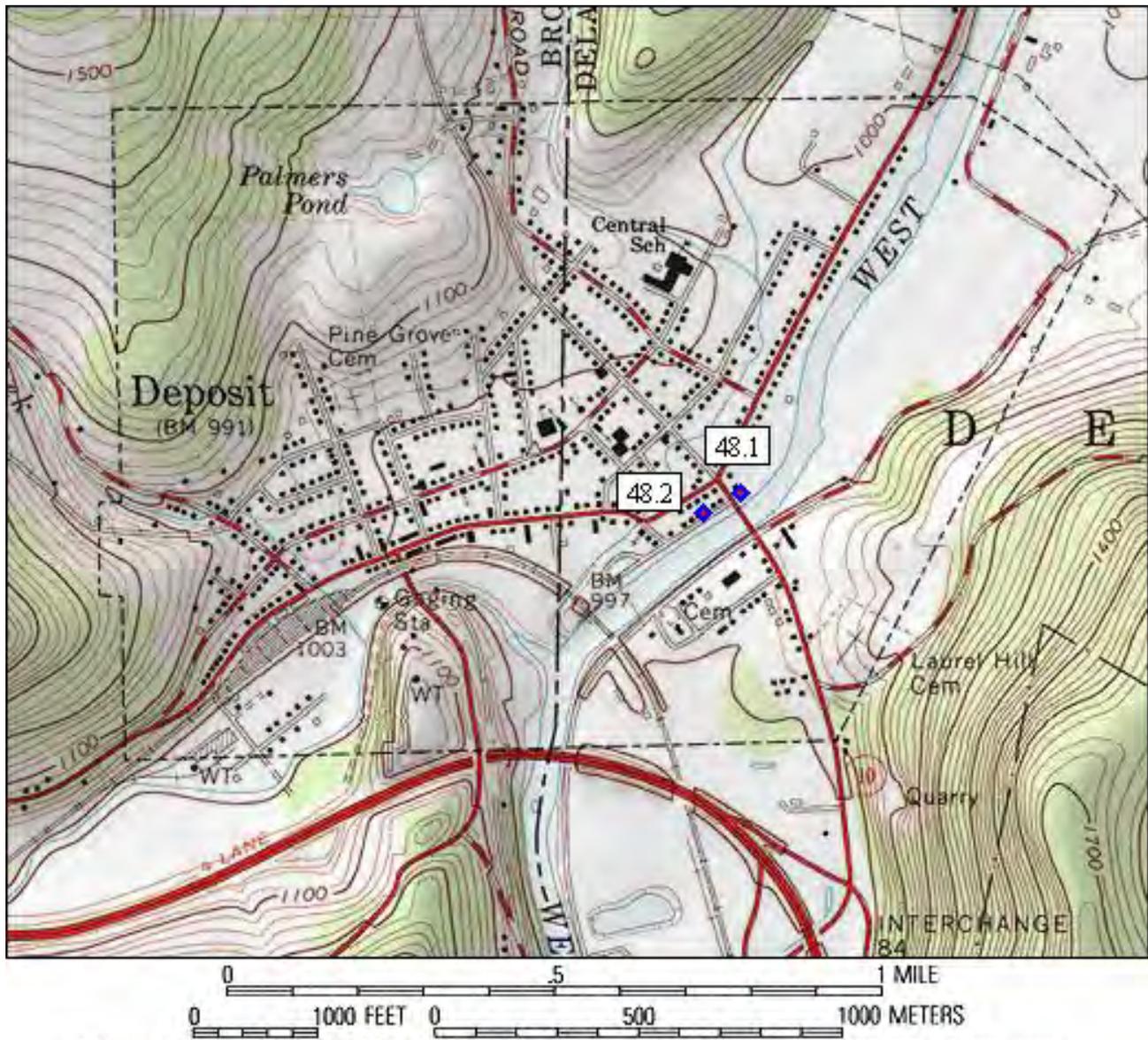


High-water mark 47.1 is an excellent seed line 2.5 feet above the ground, on a tree on the left bank, 150 feet upstream and 350 feet landward from the State Route 10 bridge, at elevation 1,172.90 feet above NGVD 29 (lat 42°07'38.9", long 75°09'36.3").



High-water mark 47.5 is a good debris line on the ground, on the left bank, 80 feet downstream from the State Route 10 bridge, at elevation 1,169.04 feet above NGVD 29 (lat 42°07'41.1", long 75°09'40.8").

SITE DESCRIPTION	
<b>Site 48:</b>	West Branch Delaware River at Oak Street at Deposit, NY
<b>Site Location:</b>	Bridge on Oak Street, lat 42°03'39.0", long 75°25'00.6", NAD 83
	Village of Deposit, Delaware County, NY
	Deposit USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: one mud line and one seed line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 10, 2006. To convert to NAVD 88, subtract 0.46 feet from elevations at this site.



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Deposit quad map with location of site 48, West Branch Delaware River at Oak Street at Deposit, NY

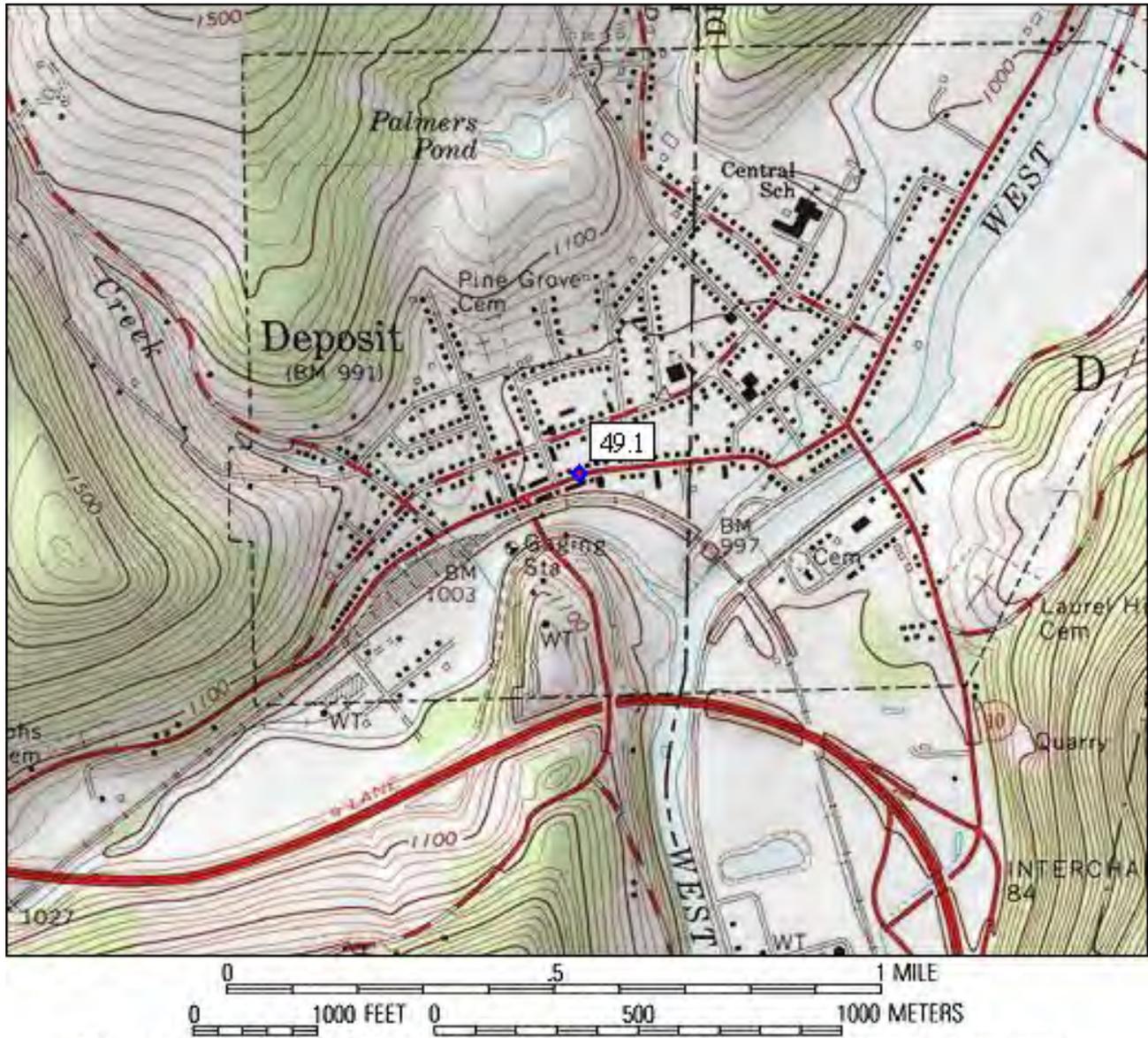


High-water mark 48.1 is an excellent mud line 4.8 feet above the ground, on the streamward side of house at 4 Pine Street, on the right bank, 60 feet upstream from the Oak Street bridge, at elevation 995.77 feet above NGVD 29 (lat 42°03'41.5", long 75°25'01.1").



High-water mark 48.2 is an excellent seed line 3.0 feet above the ground, on the streamward side of house at 11 River Street, on the right bank, 240 feet downstream from the Oak Street bridge, at elevation 994.86 feet above NGVD 29 (lat 42°03'39.9", long 75°25'05.1").

SITE DESCRIPTION
<b>Site 49:</b> West Branch Delaware River at Front Street at Deposit, NY
<b>Site Location:</b> Front Street, lat 42°03'38.6", long 75°25'32.2", NAD 83
Village of Deposit, Broome County, NY
Deposit USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 11, 2006. To convert to NAVD 88, subtract 0.46 feet from elevations at this site.

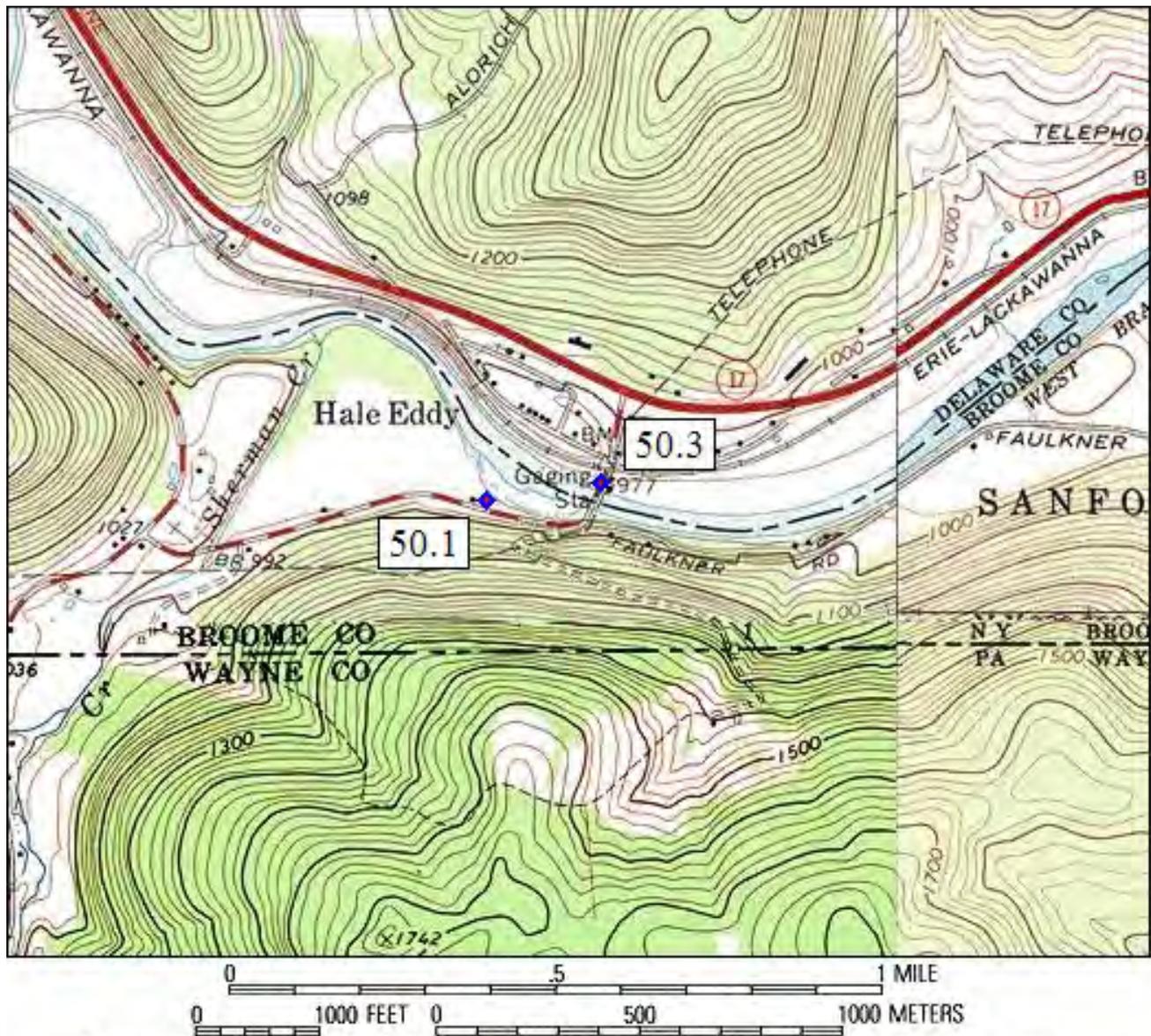


Deposit quad map with location of site 49, West Branch Delaware River at Front Street at Deposit, NY



High-water mark 49.1 is an excellent mud line 0.8 foot above the ground, on the landward side of State Theater at 148-152 Front Street, on the right bank, at elevation 994.96 feet above NGVD 29 (lat 42°03'38.6", long 75°25'32.2").

SITE DESCRIPTION
<b>Site 50:</b> West Branch Delaware River at County Routes 4 (Sherman Creek Road) and 56 at Hale Eddy, NY
<b>Site Location:</b> Bridge on County Routes 4 and 56, lat 42°00'10.2", long 75°23'01.2", NAD 83
Towns of Deposit and Sanford, Delaware and Broome Counties, NY
Deposit USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: two debris lines and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 21, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 18, 2007. Additional marks were surveyed and photos taken by L.T. Brooks and G.D. Firda on August 16, 2007.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01426500 reference mark RM 10. Elevation is 968.94 feet above NGVD 29. To convert to NAVD 88, subtract 0.49 feet from elevations at this site.



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Deposit quad map with location of site 50, West Branch Delaware River at County Routes 4 (Sherman Creek Road) and 56 at Hale Eddy, NY

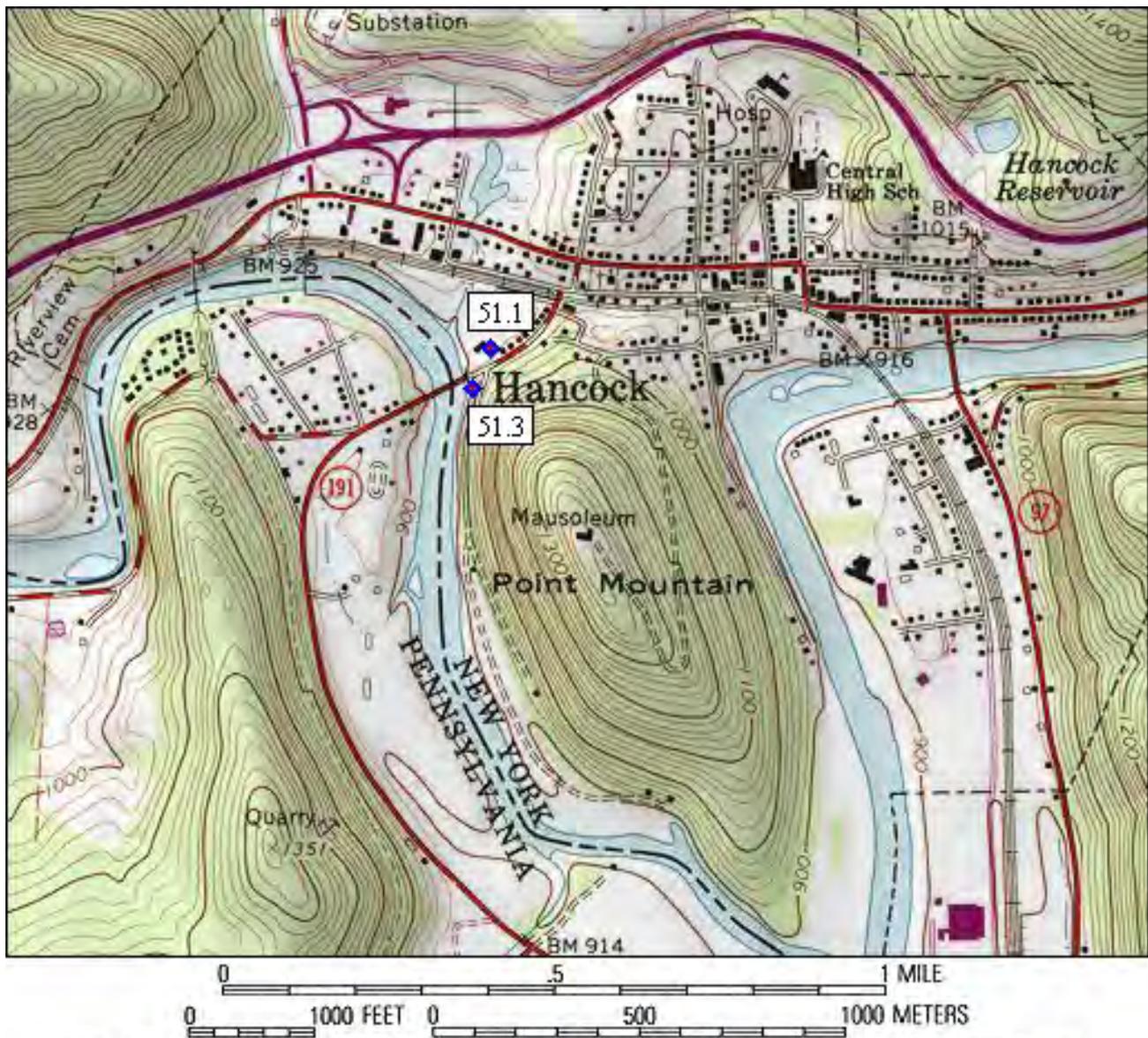


High-water mark 50.1 is a good mud line 4.5 feet above the ground, on the landward side of house at 121 Sherman Creek Road, on the right bank, about 800 feet upstream from the County Routes 4 and 56 bridge, at elevation 968.70 feet above NGVD 29 (lat 42°00'09.9", long 75°23'12.7").



High-water mark 50.3 is a fair debris line on the ground, on the left bank, 20 feet downstream from the County Routes 4 and 56 bridge, at elevation 965.92 feet above NGVD 29 (lat 42°00'11.4", long 75°23'00.3").

SITE DESCRIPTION
<b>Site 51:</b> West Branch Delaware River at PA State Route 191 at Hancock, NY
<b>Site Location:</b> Bridge on PA State Route 191, lat 41°57'08.4", long 75°17'28.8", NAD 83
Village of Hancock, Delaware County, NY
Hancock USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Three high-water marks were surveyed: two debris lines and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 21, 2006. Marks were surveyed and additional photos taken by G.D. Firda and B.J. Zatorsky on July 20, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped NGS CADOSIA 1934 on top of the southeast end of the northwest bridge seat of the Norfolk Southern Railway bridge over the East Branch Delaware River in Hancock, NGS PID LY0985. This is RM 4 in the Village of Hancock FEMA flood-insurance study. Elevation is 915.64 feet above NGVD 29. To convert to NAVD 88, subtract 0.51 feet from elevations at this site.



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Hancock quad map with location of site 51, West Branch Delaware River at PA State Route 191 at Hancock, NY

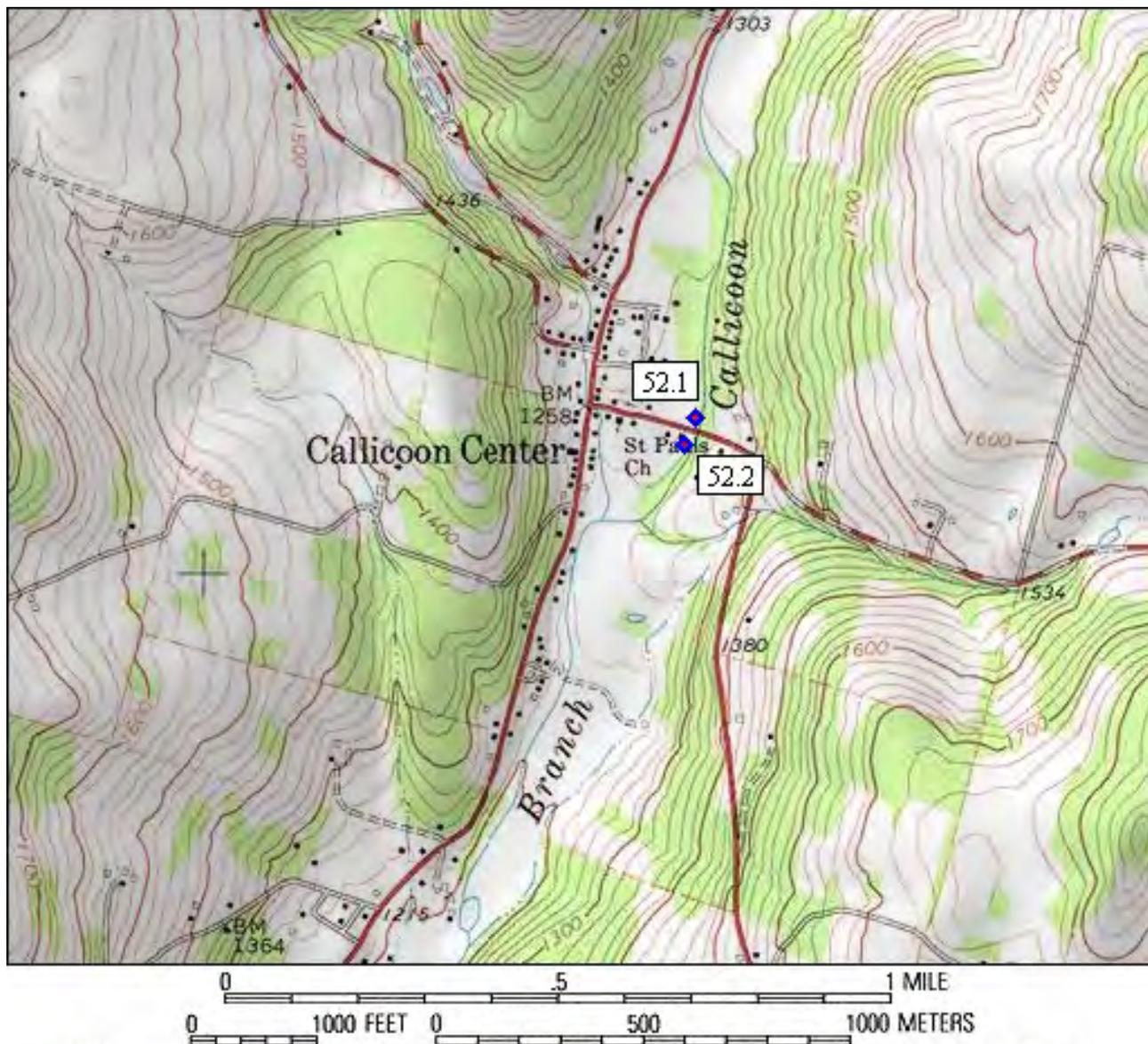


High-water mark 51.1 is an excellent seed line 0.8 foot above the floor, inside of the Village of Hancock “old” garage, on the left bank, 200 feet upstream from the PA State Route 191 bridge, at elevation 910.01 feet above NGVD 29 (lat 41°57'11.8”, long 75°17'24.9”).



High-water mark 51.3 is a good debris line on the ground, on the left bank, 30 feet downstream from the PA State Route 191 bridge, at elevation 909.66 feet above NGVD 29 (lat 41°57'08.6”, long 75°17'26.7”).

SITE DESCRIPTION	
<b>Site 52:</b>	North Branch Callicoon Creek at County Route 125 at Callicoon Center, NY
<b>Site Location:</b>	Bridge on County Route 125, lat 41°50'10.8", long 74°56'36.0", NAD 83
	Town of Callicoon, Sullivan County, NY
	Jeffersonville USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: two debris lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by L.T. Brooks and URS on July 23, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on September 7, 2006. To convert to NAVD 88, subtract 0.49 feet from elevations at this site.



Jeffersonville quad map with location of site 52, North Branch Callicoon Creek at County Route 125 at Callicoon Center, NY

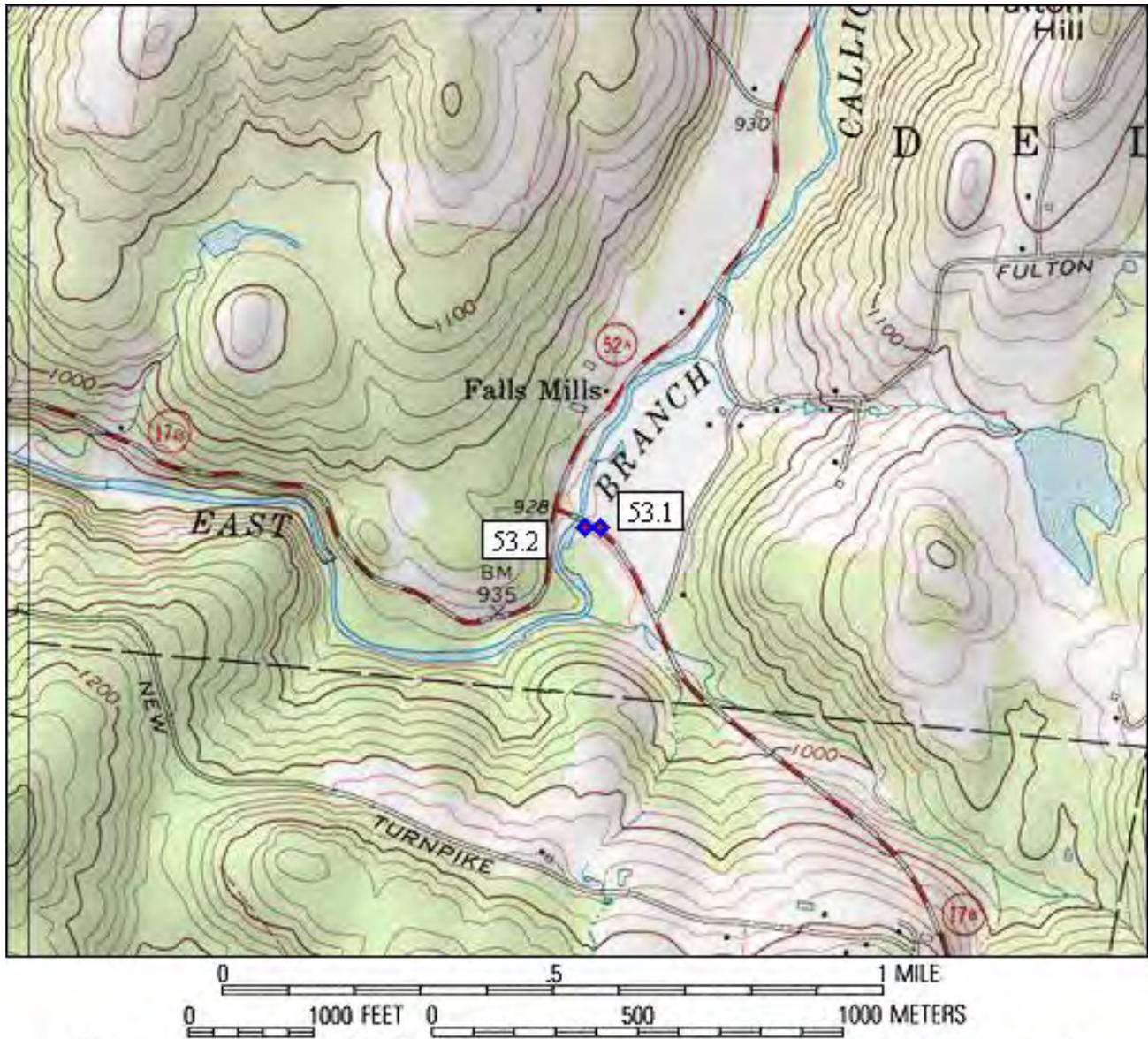


High-water mark 52.1 is a poor debris line 1.6 feet above the ground, on a fence on the right bank, 80 feet upstream from the County Route 125 bridge, at elevation 1,247.39 feet above NGVD 29 (lat 41°50'12.5", long 74°56'36.7").



High-water mark 52.2 is a fair debris line on the ground, on the right bank, 140 feet downstream from the County Route 125 bridge, at elevation 1,243.69 feet above NGVD 29 (lat 41°50'10.4", long 74°56'38.0").

SITE DESCRIPTION
Site 53: East Branch Callicoon Creek at State Route 17B at Falls Mills, NY
Site Location: Bridge on State Route 17B, lat 41°43'40.8", long 74°59'00.0", NAD 83
Town of Delaware, Sullivan County, NY
Lake Huntington USGS 7.5' Topographic Quadrangle
High-Water Marks: Two high-water marks were surveyed: two debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 7, 2006. To convert to NAVD 88, subtract 0.53 feet from elevations at this site.



Lake Huntington quad map with location of site 53, East Branch Callicoon Creek at State Route 17B at Falls Mills, NY



High-water mark 53.1 is a poor debris line on the ground, on the left bank, 10 feet upstream and 160 feet landward from the State Route 17B bridge, at elevation 929.33 feet above NGVD 29 (lat 41°43'40.3", long 74°58'58.1").



High-water mark 53.2 is a poor debris line on the ground, on the left bank, 10 feet downstream from the State Route 17B bridge, at elevation 928.43 feet above NGVD 29 (lat 41°43'40.6", long 74°58'59.9").

SITE DESCRIPTION	
<b>Site 54:</b>	Confluence of East and North Branches of Callicoon Creek at State Route 17B at Hortonville, NY
<b>Site Location:</b>	Bridge on State Route 17B, lat 41°45'36.6", long 75°01'56.4", NAD 83
	Town of Delaware, Sullivan County, NY
	Callicoon USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Three high-water marks were surveyed: one debris line, one mud line, and one wash line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by L.T. Brooks and URS on July 23, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on September 7, 2006. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



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Callicoon quad map with location of site 54, Confluence of East and North Branches of Callicoon Creek at State Route 17B at Hortonville, NY



High-water mark 54.1 is a fair debris line on the ground, on the right bank of East Branch Callicoon Creek, 100 feet upstream from the State Route 17B bridge, at elevation 792.44 feet above NGVD 29 (lat 41°45'35.0", long 75°01'53.6").



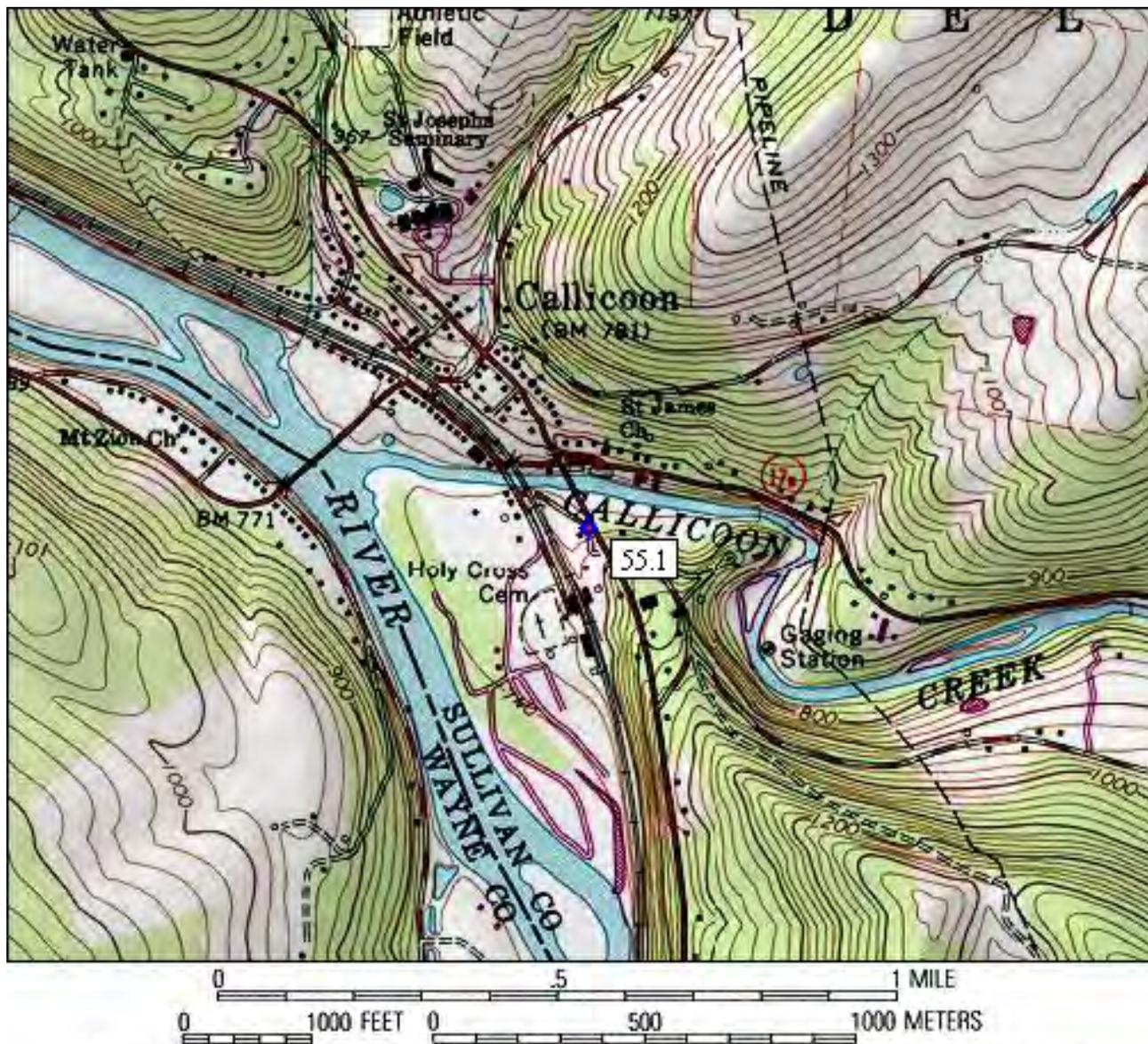
High-water mark 54.2 is a poor mud line 0.6 foot above the ground, on a fireplace on the left bank of North Branch Callicoon Creek, 20 feet upstream from the State Route 17B bridge, at elevation 791.84 feet above NGVD 29 (lat 41°45'36.1", long 75°01'54.8").



High-water mark 54.3 is a poor wash line on the ground, on the right bank of Callicoon Creek, 20 feet downstream from the State Route 17B bridge, at elevation 789.94 feet above NGVD 29 (lat 41°45'36.2", long 75°01'58.2").

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SITE DESCRIPTION
<b>Site 55:</b> Callicoon Creek at State Route 97 at Callicoon, NY
<b>Site Location:</b> Bridge on State Route 97, lat 41°45'51.6", long 75°03'13.8", NAD 83
Town of Delaware, Sullivan County, NY
Callicoon USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 7, 2006. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



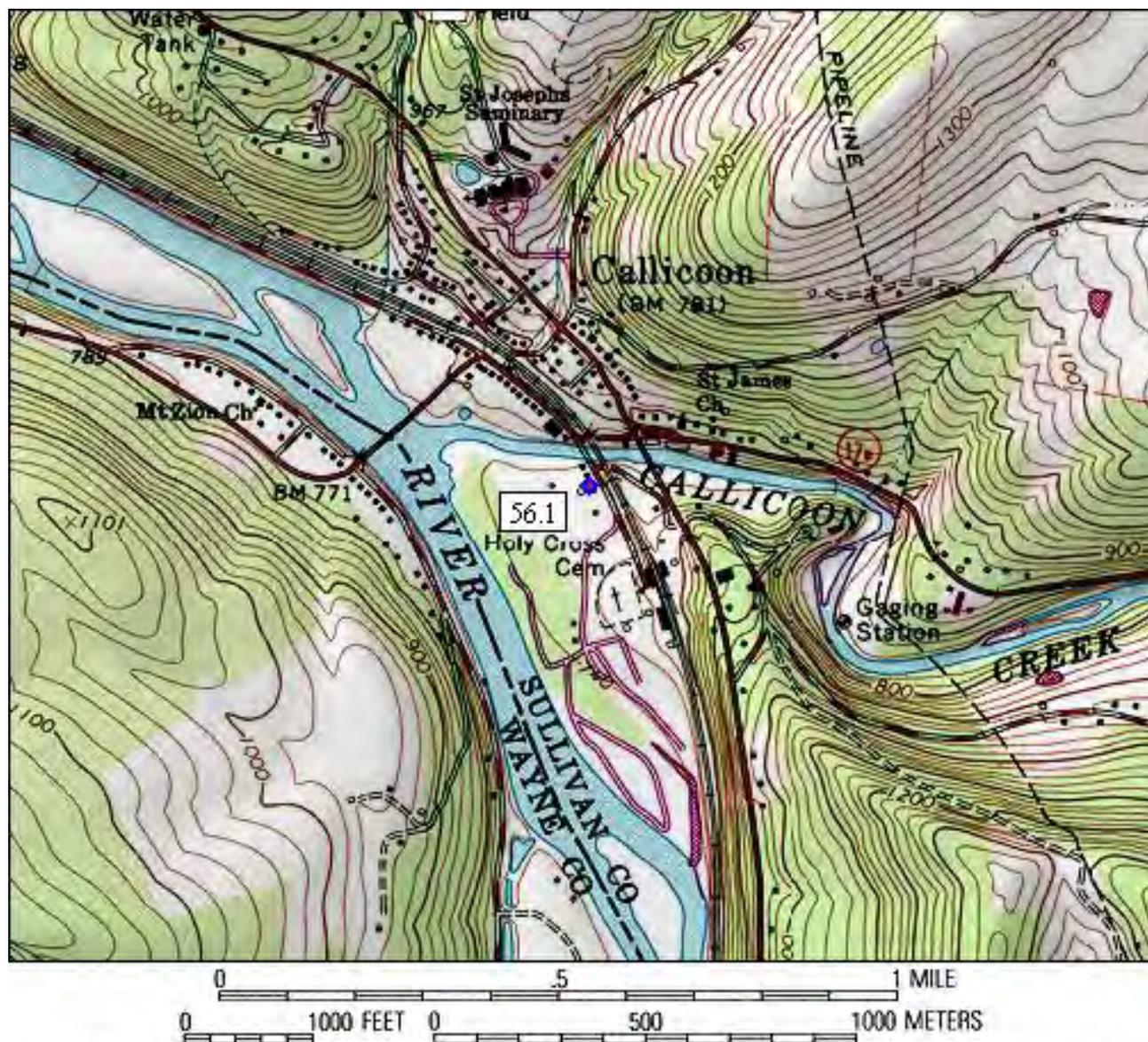
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Callicoon quad map with location of site 55, Callicoon Creek at State Route 97 at Callicoon, NY



High-water mark 55.1 is a fair mud line 5.3 feet above the ground, on the landward side of the fourth pier from the left abutment of the State Route 97 bridge, on the left bank, at elevation 760.74 feet above NGVD 29 (lat 41°45'48.5", long 75°03'11.6").

SITE DESCRIPTION
<b>Site 56:</b> Callicoon Creek at Creamery Road at Callicoon, NY
<b>Site Location:</b> Creamery Road, lat 41°45'49.7", long 75°03'19.3", NAD 83
Town of Delaware, Sullivan County, NY
Callicoon USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by L.T. Brooks and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on September 7, 2006. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.

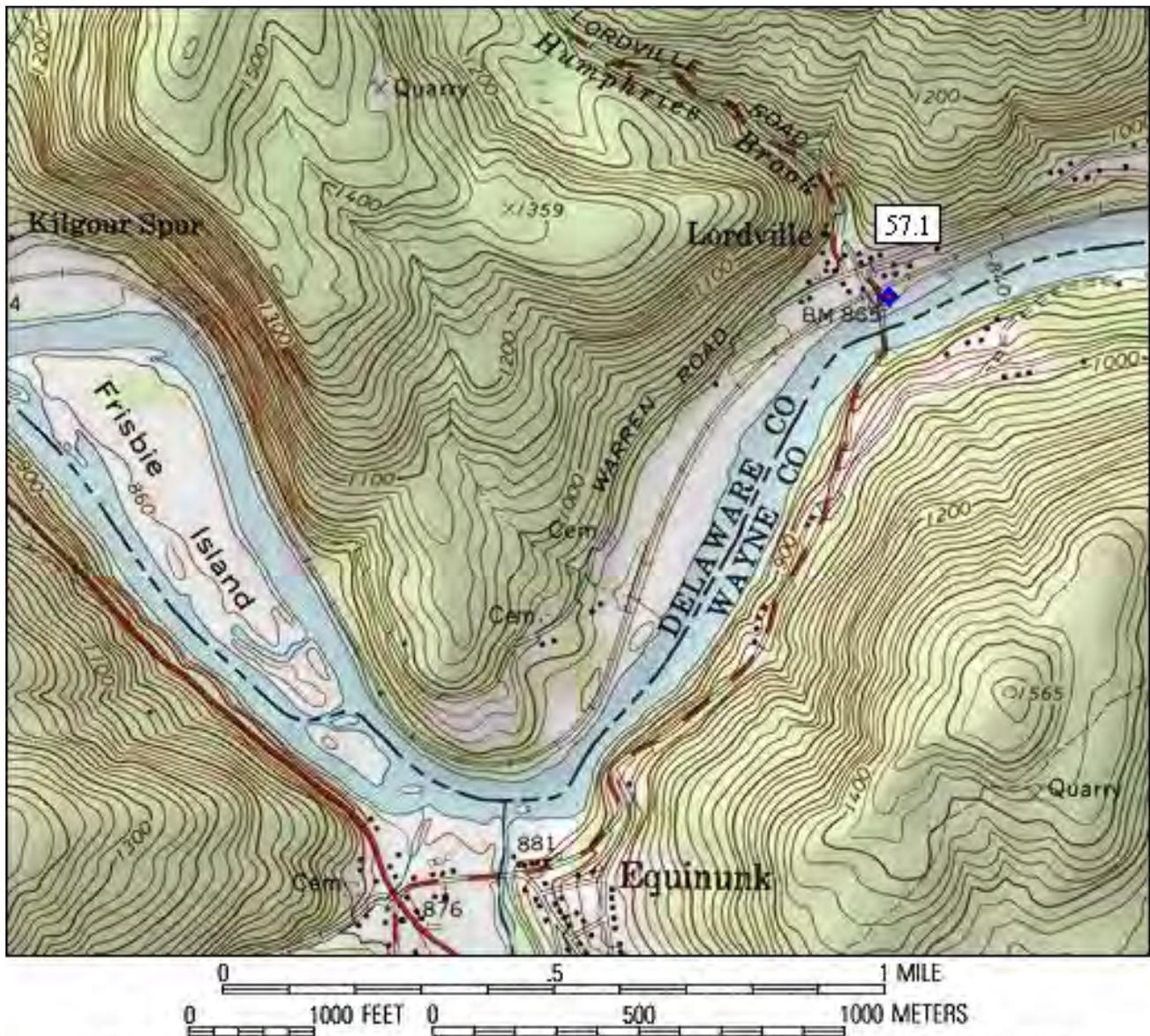


Callicoon quad map with location of site 56, Callicoon Creek at Creamery Road at Callicoon, NY



High-water mark 56.1 is a fair mud line 1.0 foot above the ground, on the streamward side of the Delaware Community Center bathhouse at 8 Creamery Road, on the left bank, at elevation 758.34 feet above NGVD 29 (lat 41°45'49.7", long 75°03'19.3").

SITE DESCRIPTION	
<b>Site 57:</b>	Delaware River at Lordville Road at Lordville, NY
<b>Site Location:</b>	Bridge on Lordville Road, lat 41°52'04.2", long 75°12'49.8", NAD 83
	Town of Hancock, Delaware County, NY
	Long Eddy USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one debris line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by G.D. Firda and URS on July 21, 2006.
	High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped U 128 RESET 1991 on the top of the north abutment of the Lordville Road bridge over the Delaware River in Lordville, NGS PID LY2910. Elevation is 868.89 feet above NGVD 29. To convert to NAVD 88, subtract 0.53 feet from elevations at this site.



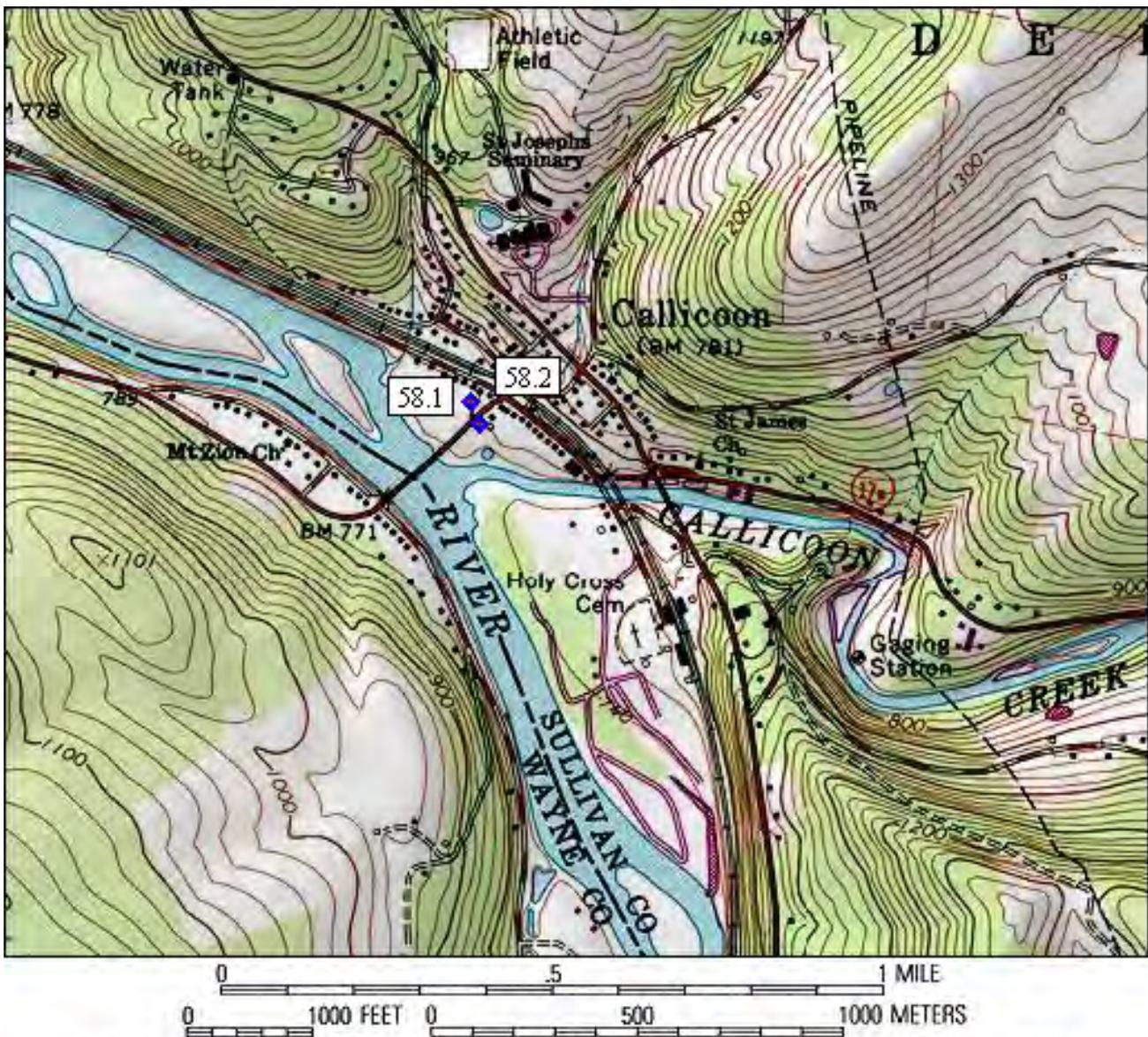
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Long Eddy quad map with location of site 57, Delaware River at Lordville Road at Lordville, NY



High-water mark 57.1 is an excellent debris line on the ground, on the left bank, 35 feet downstream from the Lordville Road bridge, at elevation 863.87 feet above NGVD 29 (lat 41°52'06.8", long 75°12'49.2").

SITE DESCRIPTION
<b>Site 58:</b> Delaware River at Bridge Street at Callicoon, NY
<b>Site Location:</b> Bridge on Bridge Street, lat 41°45'54.6", long 75°03'37.8", NAD 83
Town of Delaware, Sullivan County, NY
Callicoon USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 21, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 19, 2007.
High-water-mark elevations were surveyed from a benchmark that is a USGS/New York State Department of Public Works standard disk stamped 9F 52 set in the northwest end of the north abutment of the Bridge Street bridge over the Delaware River in Callicoon. Elevation is 770.57 feet above NGVD 29. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



Callicoon quad map with location of site 58, Delaware River at Bridge Street at Callicoon, NY

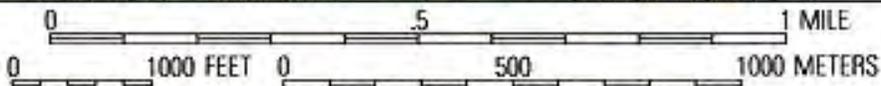


High-water mark 58.1 is an excellent mud line 3.5 feet above the ground, on the landward side of a storage shed streamward from house at 5 River Road, on the left bank, 120 feet upstream from the Bridge Street bridge, at elevation 759.41 feet above NGVD 29 (lat 41°45'59.5", long 75°03'34.0").



High-water mark 58.2 is an excellent debris line on the ground, on the left bank, 35 feet downstream from the Bridge Street bridge, at elevation 759.59 feet above NGVD 29 (lat 41°45'57.7", long 75°03'33.1"). Elevation of high-water mark 58.2 affected by confluence with Callicoon Creek.

SITE DESCRIPTION
<b>Site 59:</b> Delaware River at PA State Route 371 at Cochecton, NY
<b>Site Location:</b> Bridge on PA State Route 371, lat 41°42'17.4", long 75°04'00.6", NAD 83
Town of Cochecton, Sullivan County, NY
Damascus USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 19, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped R 142 1941, 4.0 miles south along State Route 97 from the junction of State Route 17B in Callicoon, in the top of a rock boulder, 0.05 miles north-northwest from the highway, 74 feet south and across a single set of railroad tracks from Mile Post 131, 6 feet from a witness post, NGS PID LY1021. This is RM 7 in the Town of Cochecton FEMA flood-insurance study. Elevation is 758.65 feet above NGVD 29. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



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Damascus quad map with location of site 59, Delaware River at PA State Route 371 at Cochecton, NY



High-water mark 59.1 is an excellent mud line 3.5 feet above the ground, on a tree on the left bank, 100 feet upstream and 230 feet landward from the PA State Route 371 bridge, at elevation 735.07 feet above NGVD 29 (lat 41°42'23.5", long 75°03'55.5").



High-water mark 59.2 is an excellent debris line on the ground, on the left bank, 35 feet downstream from the PA State Route 371 bridge, at elevation 733.56 feet above NGVD 29 (lat 41°42'20.9", long 75°03'55.7").

SITE DESCRIPTION
<b>Site 60:</b> Delaware River at Skinners Falls West Road at Skinners Falls, NY
<b>Site Location:</b> Bridge on Skinners Falls West Road, lat 41°40'10.8", long 75°03'30.0", NAD 83
Town of Cohecton, Sullivan County, NY
Damascus USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: two debris lines and two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006, and surveyed by G.D. Firda and C.L. Gazoorian on August 24, 2006.
High-water-mark elevations were surveyed from a reference mark that is the discontinued USGS stream-gaging station 01427705 reference mark RM 2. RM 2 was tied to NGS benchmark V142 1941, NGS PID LY1025, on November 6, 1967. V142 1941 is RM 2 in the Town of Cohecton FEMA flood-insurance study. Elevation is 734.26 feet above NGVD 29. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



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Damascus quad map with location of site 60, Delaware River at Skinners Falls West Road at Skinners Falls, NY

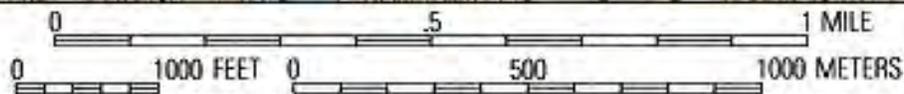
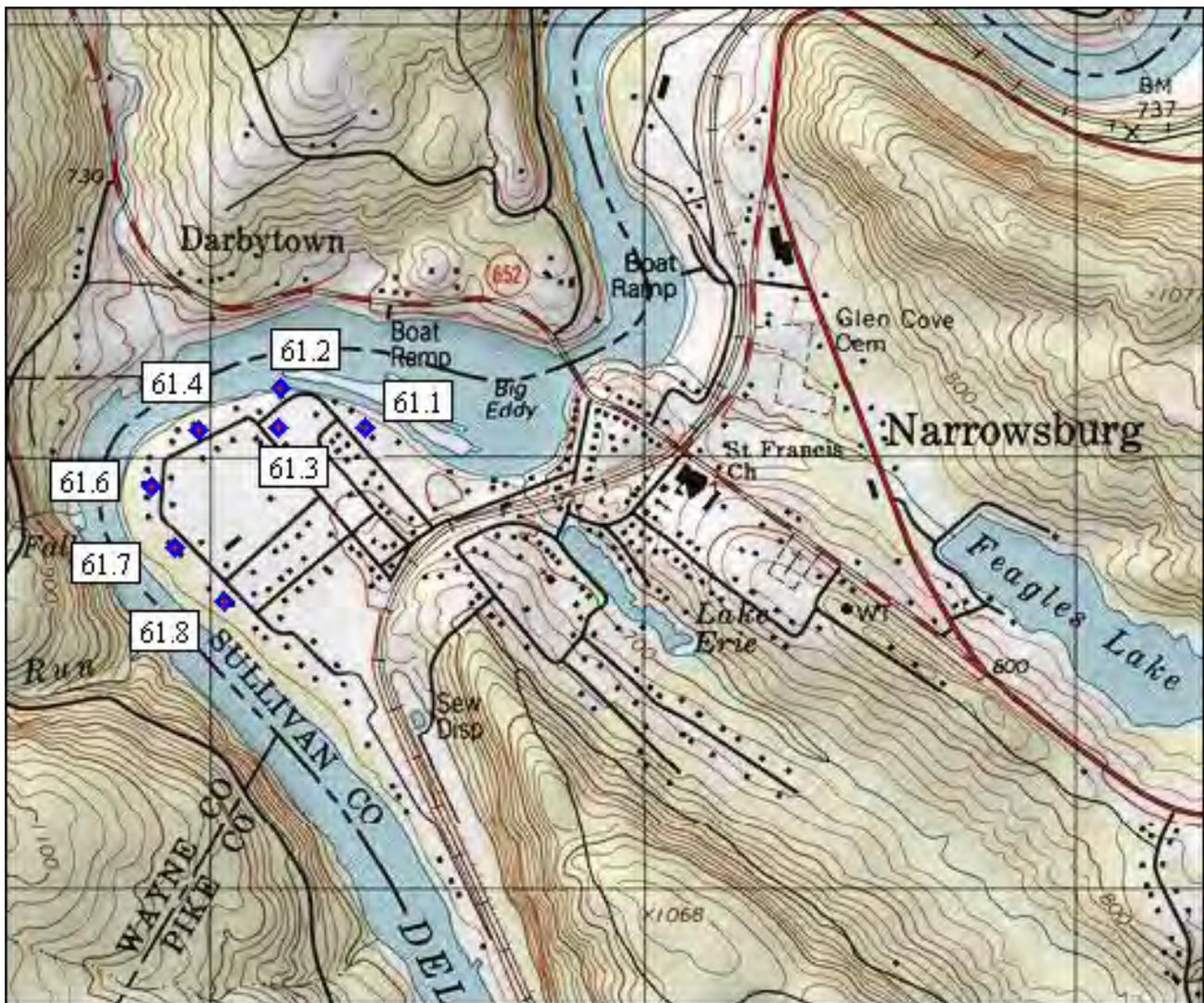


High-water mark 60.1 is a fair mud line 1.3 feet above the ground, on the downstream side of the Skinners Falls Campground main building, on the left bank, 80 feet upstream from the Skinners Falls West Road bridge, at elevation 725.36 feet above NGVD 29 (lat 41°40'13.7", long 75°03'26.8"). High-water mark 60.1 is 0.7 foot lower than elevation indicated by surveying rod.



High-water mark 60.4 is a good debris line on the ground, on the left bank, 5 feet downstream from the Skinners Falls West Road bridge, at elevation 724.34 feet above NGVD 29 (lat 41°40'12.9", long 75°03'25.8").

SITE DESCRIPTION
<b>Site 61:</b> Delaware River at Narrowsburg, NY
<b>Site Location:</b> Narrowsburg, lat 41°36'30.0", long 75°04'02.5", NAD 83
Town of Tusten, Sullivan County, NY
Narrowsburg USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Eight high-water marks were surveyed: seven mud lines and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006. Marks were surveyed and additional photos taken by G.D. Firda and A.M. Gearwar on August 2, 2006.
High-water-mark elevations were surveyed from a reference mark that is a chiseled X, painted yellow, on the northeast abutment of the U.S. Route 652 bridge over the Norfolk Southern Railway tracks in Narrowsburg. This is RM 4 in the Town of Tusten FEMA flood-insurance study. Elevation is 746.93 feet above NGVD 29. To convert to NAVD 88, subtract 0.55 feet from elevations at this site.



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Narrowsburg quad map with location of site 61, Delaware River at Narrowsburg, NY



High-water mark 61.1 is a good mud line 0.5 foot above the ground, on the landward side of house at 72 2nd Avenue, on the left bank, at elevation 698.16 feet above NGVD 29 (lat 41°36'30.0", long 75°04'02.5").



High-water mark 61.2 is a good mud line 5.5 feet above the ground, on the upstream side of house at 122 2nd Avenue, on the left bank, at elevation 696.61 feet above NGVD 29 (lat 41°36'33.1", long 75°04'10.8").



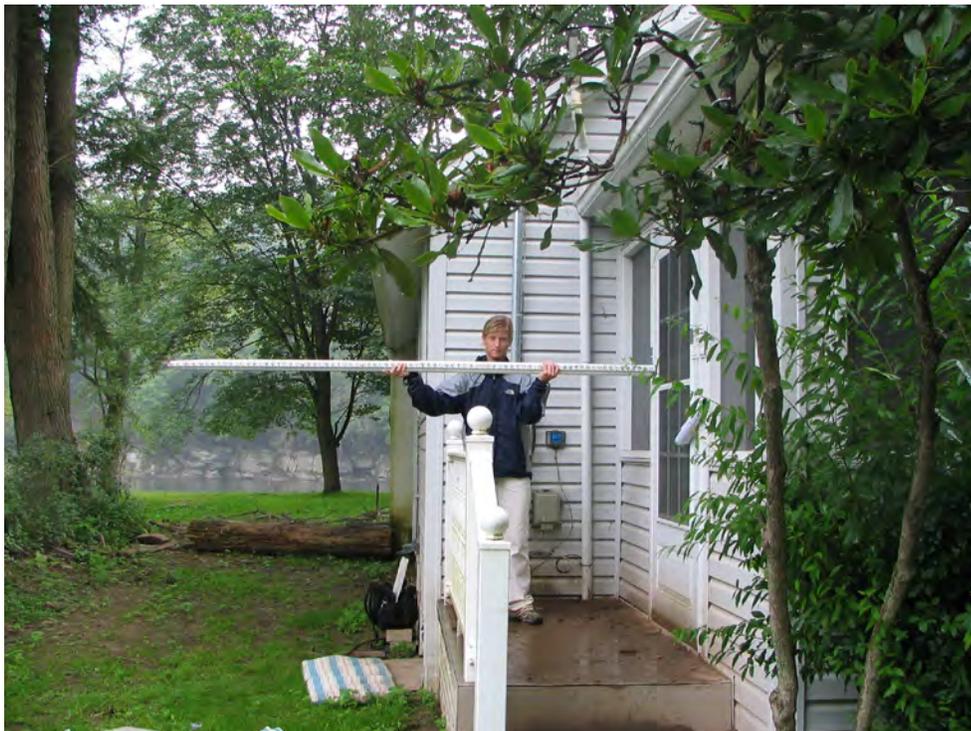
High-water mark 61.3 is an excellent mud line 2.0 feet above the ground, on the upstream side of a storage shed upstream from house at 116 4th Avenue, on the left bank, at elevation 695.75 feet above NGVD 29 (lat 41°36'30.1", long 75°04'11.1").



High-water mark 61.4 is an excellent seed line 2.5 feet above the ground, on the landward side of house at 162 Delaware Drive, on the left bank, at elevation 695.58 feet above NGVD 29 (lat 41°36'29.8", long 75°04'19.0").



High-water mark 61.6 is a good mud line 0.5 foot above the ground, on the landward side of a detached garage landward from house at 204 Delaware Drive, on the left bank, at elevation 695.01 feet above NGVD 29 (lat 41°36'25.7", long 75°04'23.9").



High-water mark 61.7 is an excellent mud line 6.5 feet above the ground, on the downstream side of house at 242 Delaware Drive, on the left bank, at elevation 692.29 feet above NGVD 29 (lat 41°36'21.0", long 75°04'21.4").



High-water mark 61.8 is a good mud line 1.5 feet above the ground, on the landward side of a detached garage downstream and streamward from house at 294 Delaware Drive, on the left bank, at elevation 691.91 feet above NGVD 29 (lat 41°36'17.1", long 75°04'16.4").

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SITE DESCRIPTION	
<b>Site 62:</b>	Delaware River at County Route 168 (Roebing Bridge) at Minisink Ford, NY
<b>Site Location:</b>	Bridge on County Route 168, lat 41°28'57.6", long 74°59'03.6", NAD 83
	Town of Highland, Sullivan County, NY
	Shohola USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: one debris line and one mud line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 16, 2006. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



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Shohola quad map with location of site 62, Delaware River at County Route 168 (Roebing Bridge) at Minisink Ford, NY

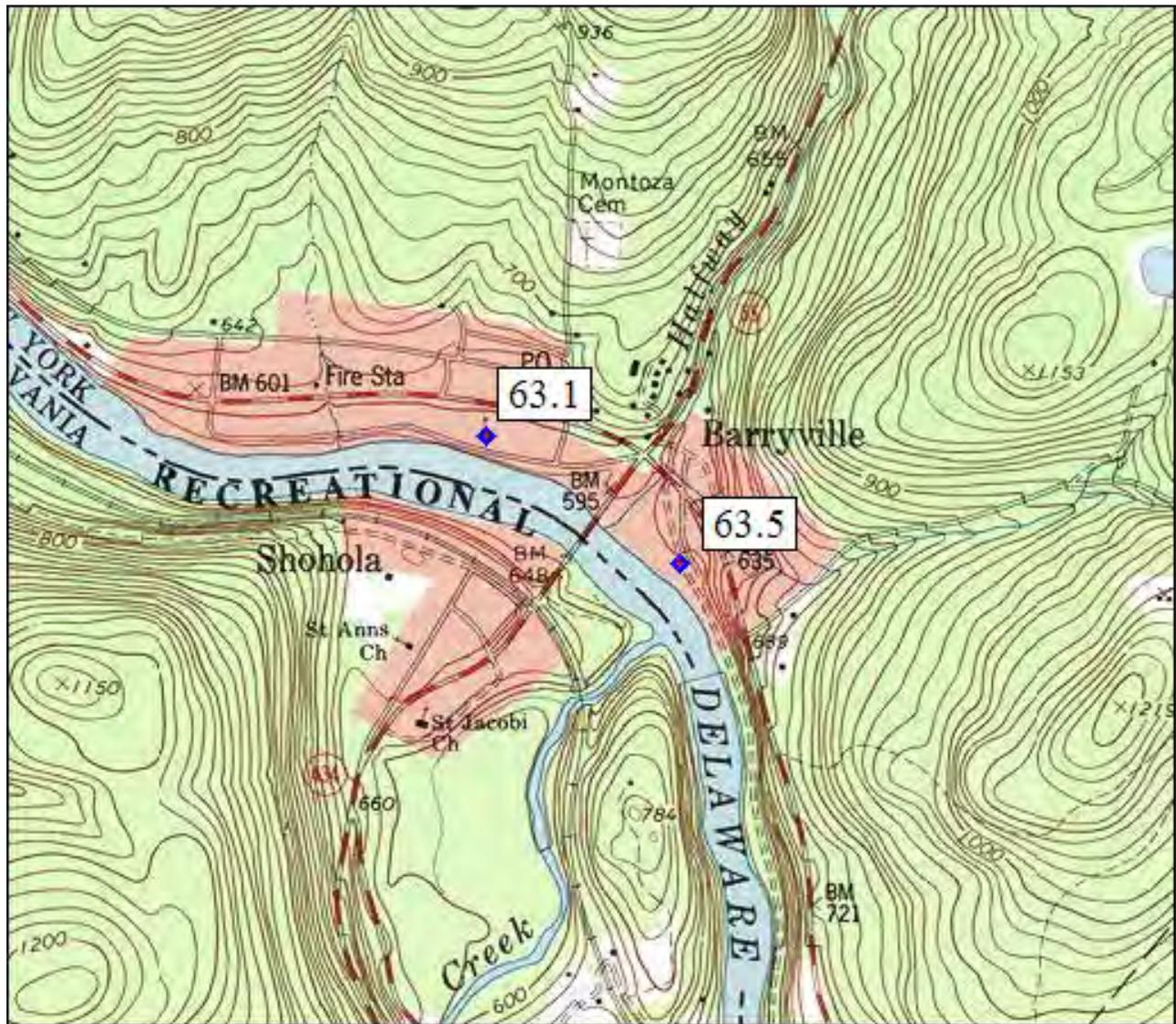


High-water mark 62.1 is an excellent mud line 1.0 foot above the ground, on the downstream side of a storage shed downstream from house at 176 Scenic Drive, on the right bank, 40 feet upstream from the County Route 168 bridge, at elevation 622.64 feet above NGVD 29 (lat 41°28'56.8", long 74°59'08.5").



High-water mark 62.2 is a good debris line on the ground, on the right bank, 30 feet downstream from the County Route 168 bridge, at elevation 621.34 feet above NGVD 29 (lat 41°28'55.8", long 74°59'07.3").

SITE DESCRIPTION
<b>Site 63:</b> Delaware River at PA State Route 434 at Barryville, NY
<b>Site Location:</b> Bridge on PA State Route 434, lat 41°28'32.4", long 74°54'45.6", NAD 83
Town of Highland, Sullivan County, NY
Shohola USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Five high-water marks were surveyed: three seed lines, one debris line, and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 19-20, 2007. Additional marks were surveyed and photos taken by L.T. Brooks and G.D. Firda on August 16, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped Y 149 1941, 0.1 mile east along the Erie Railroad from the station at Shohola, PA, at concrete overpass in south end of west headwall, NGS PID LY0603. Elevation is 647.52 feet above NGVD 29. To convert to NAVD 88, subtract 0.56 feet from elevations at this site.



Shohola quad map with location of site 63, Delaware River at PA State Route 434 at Barryville, NY



High-water mark 63.1 is an excellent mud line 2.3 feet above the ground, on the downstream side of Barryville United Methodist Church at 3405 State Route 97, on the left bank, about 1,050 feet upstream from the PA State Route 434 bridge, at elevation 591.12 feet above NGVD 29 (lat 41°28'40.2", long 74°54'55.3").



High-water mark 63.5 is an excellent seed line 5.6 feet above the ground, inside a storage shed downstream from house at 10 Tow Path Road, on the left bank, about 1,100 feet downstream from the PA State Route 434 bridge, at elevation 588.49 feet above NGVD 29 (lat 41°28'30.3", long 74°54'35.3").

SITE DESCRIPTION
<b>Site 64:</b> Delaware River at County Route 41 at Pond Eddy, NY
<b>Site Location:</b> Bridge on County Route 41, lat 41°26'21.6", long 74°49'10.8", NAD 83
Town of Lumberland, Sullivan County, NY
Pond Eddy USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 23, 2006, and surveyed by G.D. Firda and B.J. Zatorsky on July 19, 2007.
High-water-mark elevations were surveyed from a reference mark that is a nail in pole number 36497-52733 (about 2 feet above land surface) on the east side of Hollow Road, about 0.5 mi. north of the intersection with State Route 97, in Pond Eddy. This is RM 1 in the Town of Lumberland FEMA flood-insurance study. Elevation is 600.41 feet above NGVD 29. To convert to NAVD 88, subtract 0.56 feet from elevations at this site.



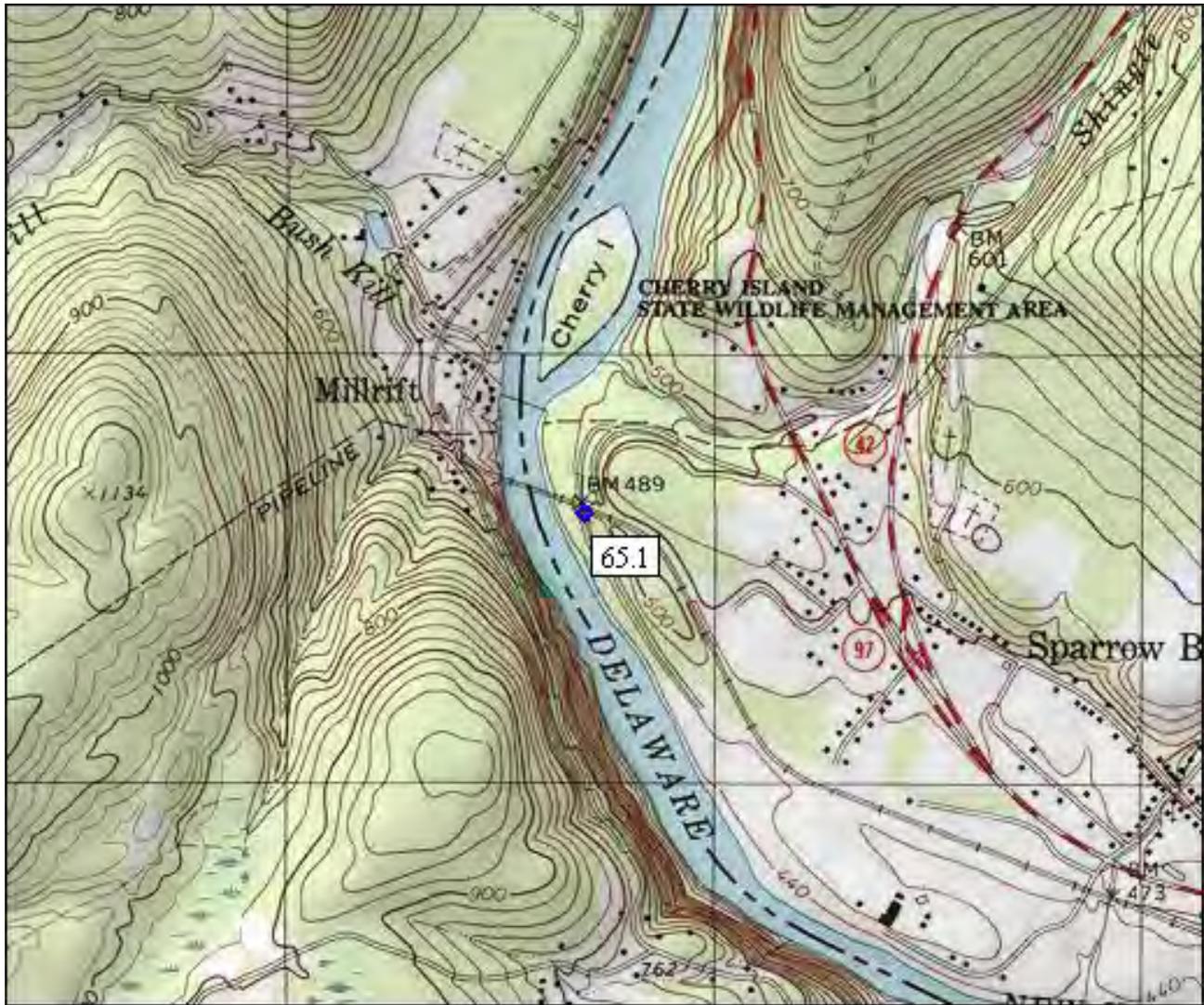
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Pond Eddy quad map with location of site 64, Delaware River at County Route 41 at Pond Eddy, NY



High-water mark 64.1 is a good debris line on the ground, on the left bank, 65 feet upstream from the County Route 41 bridge, at elevation 527.78 feet above NGVD 29 (lat 41°26'23.1", long 74°49'14.1").

SITE DESCRIPTION
<b>Site 65:</b> Delaware River at Norfolk Southern Railway at Sparrow Bush, NY
<b>Site Location:</b> Bridge on Norfolk Southern Railway, lat 41°24'22.8", long 74°44'29.4", NAD 83
Town of Deerpark, Orange County, NY
Port Jervis North USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one debris line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 17, 2006. To convert to NAVD 88, subtract 0.57 feet from elevations at this site.



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Port Jervis North quad map with location of site 65, Delaware River at Norfolk Southern Railway at Sparrow Bush, NY



High-water mark 65.1 is a fair debris line on the ground, on the left bank, 50 feet downstream from the Norfolk Southern Railway bridge, at elevation 464.87 feet above NGVD 29 (lat 41°24'21.3", long 74°44'24.1").

SITE DESCRIPTION
<b>Site 66:</b> Delaware River at U.S. Routes 6 and 209 (Pike Street) at Port Jervis, NY
<b>Site Location:</b> Bridge on U.S. Routes 6 and 209, lat 41°22'18.6", long 74°41'49.8", NAD 83
City of Port Jervis, Orange County, NY
Port Jervis South USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by G.D. Firda and URS on July 22, 2006. Downstream mark was surveyed by K. McGrath and B.J. Zatorsky on September 27, 2006, and additional photos taken by G.D. Firda and B.J. Zatorsky on July 19, 2007.
Upstream high-water-mark elevation was surveyed by URS using DGPS methods on August 17, 2006.
Downstream high-water-mark elevation was surveyed from a reference mark which is the USGS stream-gaging station 01434000 reference mark RM 5. Elevation is 439.58 feet above NGVD 29. To convert to NAVD 88, subtract 0.57 feet from elevations at this site.



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Port Jervis South quad map with location of site 66, Delaware River at U.S. Routes 6 and 209 (Pike Street) at Port Jervis, NY



High-water mark 66.1 is an excellent mud line 4.5 feet above the ground, on the streamward side of Flo Jean Restaurant at 2 Pike Street, on the left bank, 100 feet upstream from the U.S. Routes 6 and 209 bridge, at elevation 438.67 feet above NGVD 29 (lat 41°22'22.0", long 74°41'48.0").



High-water mark 66.2 is a good debris line on the ground, on the right bank, 300 feet downstream from the U.S. Routes 6 and 209 bridge, at elevation 437.39 feet above NGVD 29 (lat 41°22'13.6", long 74°41'49.3").

SITE DESCRIPTION
<b>Site 67:</b> Unadilla River at County Route 18B (Forks Road) at Unadilla Forks, NY
<b>Site Location:</b> Bridge on County Route 18B, lat 42°50'32.4", long 75°14'34.2", NAD 83
Town of Plainfield, Otsego County, NY
Unadilla Forks USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and A.G. Morgan on August 16, 2006, and J.P. Marion and A.G. Morgan on November 16, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard metal rod stamped K 460 1982 driven into ground, 1.95 miles south along State Route 8 from the junction of U.S. Route 20 in Bridgewater, 85 feet west of the centerline of the highway, and 12 feet south of the south edge of a concrete driveway leading to a two-story brick house, NGS PID NA1978. Elevation is 1,229.19 feet above NGVD 29. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



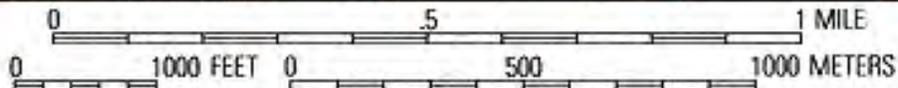
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Unadilla Forks quad map with location of site 67, Unadilla River at County Route 18B (Forks Road) at Unadilla Forks, NY



High-water mark 67.1 is an excellent seed line 0.1 foot below the bottom of the upstream I-beam, on the left abutment of the County Route 18B bridge, at elevation 1,158.27 feet above NGVD 29 (lat 42°50'32.9", long 75°14'33.7").

SITE DESCRIPTION	
<b>Site 68:</b>	Unadilla River at County Route 13 (Lake Street) at New Berlin, NY
<b>Site Location:</b>	Bridge on County Route 13, lat 42°36'58.2", long 75°19'52.2", NAD 83
	Town of Pittsfield, Otsego County, NY
	New Berlin South USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	One high-water mark was surveyed: one mud line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by W.F. Coon and A.G. Morgan on August 16, 2006, and J.P. Marion and A.G. Morgan on November 14, 2006.
	High-water-mark elevations were surveyed from a benchmark that is an NGS standard metal rod stamped L 453 1982 driven into ground, 0.1 mile south along State Route 8 from the junction of State Route 80 in New Berlin, 42 feet west of the centerline of the highway, and 61 feet south-southeast of the southeast corner of the First Baptist Church, NGS PID NA1957. Elevation is 1,120.71 feet above NGVD 29. To convert to NAVD 88, subtract 0.35 feet from elevations at this site.



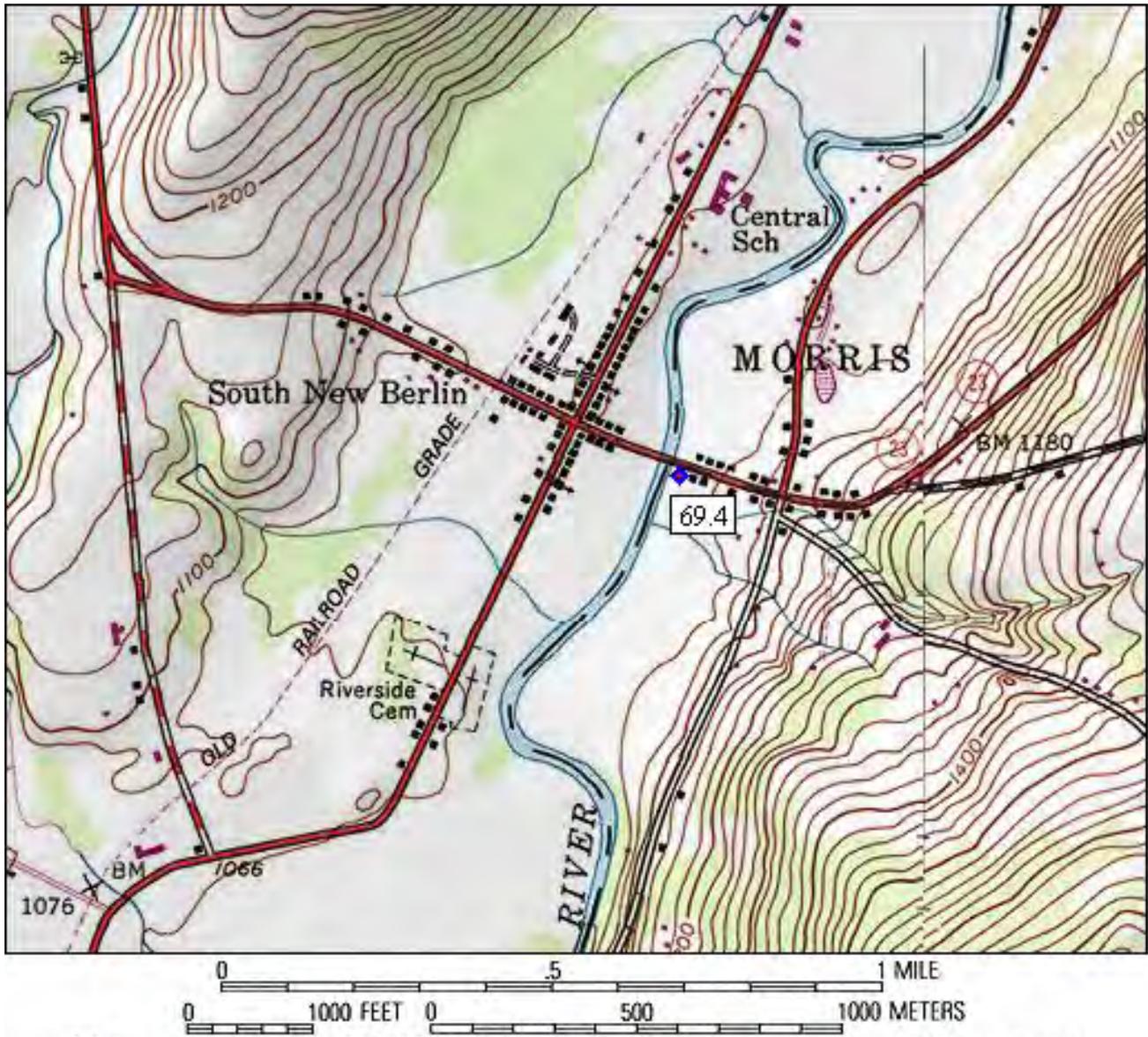
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New Berlin South quad map with location of site 68, Unadilla River at County Route 13 (Lake Street) at New Berlin, NY



High-water mark 68.1 is an excellent mud line 2.2 feet above the ground, on the landward side of a storage shed on the left bank, 55 feet downstream from the County Route 13 bridge, at elevation 1,088.68 feet above NGVD 29 (lat 42°36'56.7", long 75°19'52.9").

SITE DESCRIPTION	
<b>Site 69:</b>	Unadilla River at State Route 23 at South New Berlin, NY
<b>Site Location:</b>	Bridge on State Route 23, lat 42°31'43.2", long 75°22'55.8", NAD 83
	Town of Butternuts, Otsego County, NY
	Holmesville USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Four high-water marks were surveyed: three debris lines and one seed line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 10, 2006, J.P. Marion and A.G. Morgan on November 14, 2006, and M.B. Jennings and J.E. Smith on July 11, 2007.
	High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 1059 ALBANY 1901 set vertically 1.5 feet above the ground in the west face 7 feet south of the northwest corner of the Baptist Church, 0.1 mile south along State Route 8 from the junction of State Route 23 in South New Berlin, NGS PID NA1008. Elevation is 1,059.65 feet above NGVD 29. To convert to NAVD 88, subtract 0.34 feet from elevations at this site.



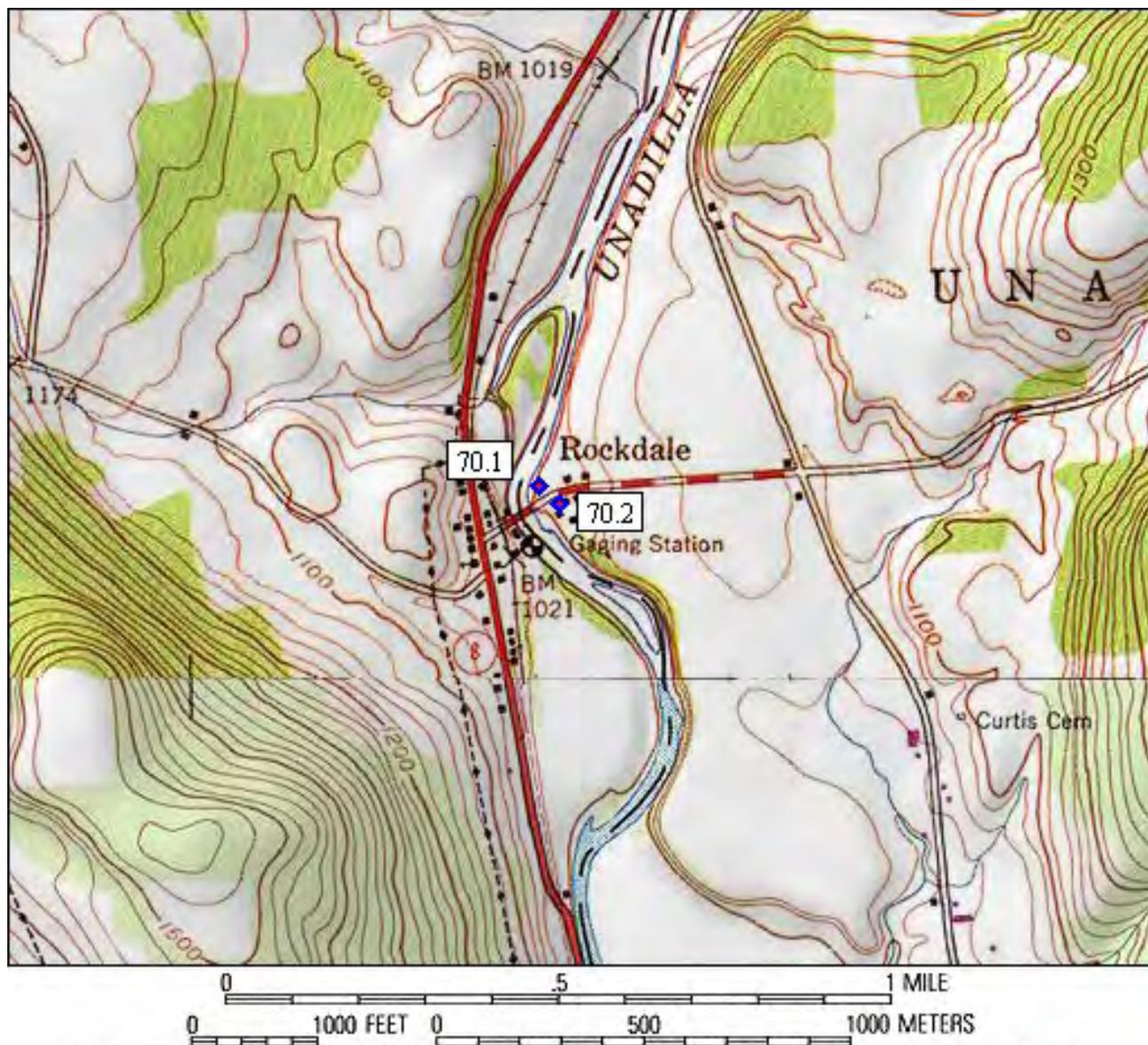
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Holmesville quad map with location of site 69, Unadilla River at State Route 23 at South New Berlin, NY



High-water mark 69.4 is an excellent seed line 1.4 feet above the ground, on the upstream side of a detached garage downstream and landward from house at 104 State Route 23, on the left bank, 50 feet downstream from the State Route 23 bridge, at elevation 1,055.03 feet above NGVD 29 (lat 42°31'41.9", long 75°22'53.5").

SITE DESCRIPTION
<b>Site 70:</b> Unadilla River at County Route 1 (Lockwood Hill Road) at Rockdale, NY
<b>Site Location:</b> Bridge on County Route 1, lat 42°22'43.2", long 75°24'23.4", NAD 83
Town of Unadilla, Otsego County, NY
Guilford USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 10 and November 11, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01502500 reference mark RP 4. Elevation is 1,018.35 feet above NGVD 29. To convert to NAVD 88, subtract 0.34 feet from elevations at this site.



Guilford quad map with location of site 70, Unadilla River at County Route 1 (Lockwood Hill Road) at Rockdale, NY

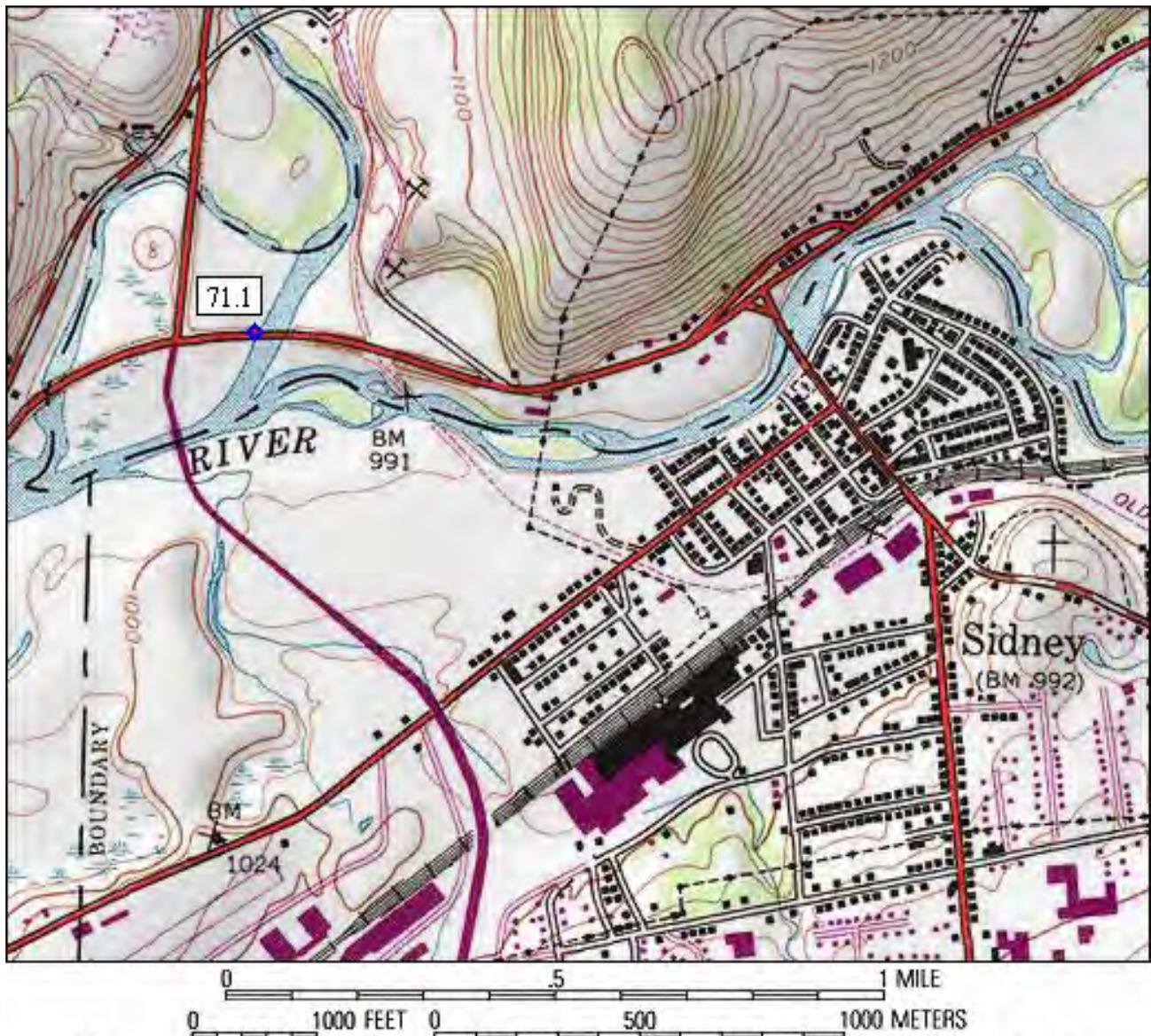


High-water mark 70.1 is an excellent mud line 4.0 feet above the ground, on the downstream side of house at 1074 Lockwood Hill Road, on the left bank, 75 feet upstream from the County Route 1 bridge, at elevation 1,009.23 feet above NGVD 29 (lat 42°22'45.4", long 75°24'21.6").



High-water mark 70.2 is a good mud line 1.6 feet above the ground, on the landward side of house at 1073 Lockwood Hill Road, on the left bank, 85 feet downstream from the County Route 1 bridge, at elevation 1,006.69 feet above NGVD 29 (lat 42°22'43.9", long 75°24'19.5").

SITE DESCRIPTION
<b>Site 71:</b> Unadilla River at State Route 7 northwest of Sidney near Unadilla, NY
<b>Site Location:</b> Bridge on State Route 7, lat 42°19'02.4", long 75°24'34.2", NAD 83
Town of Unadilla, Otsego County, NY
Sidney USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 10, 2006, and J.S. Grover and M.B. Jennings on October 17, 2007.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard metal rod stamped U 452 1982 driven into ground, at the junction of State Routes 7 and 8 near Sidney, 66 feet north of the centerline of State Route 7, and 58 feet west of the centerline of State Route 8, NGS PID NA1935. Elevation is 983.72 feet above NGVD 29. To convert to NAVD 88, subtract 0.39 feet from elevations at this site.



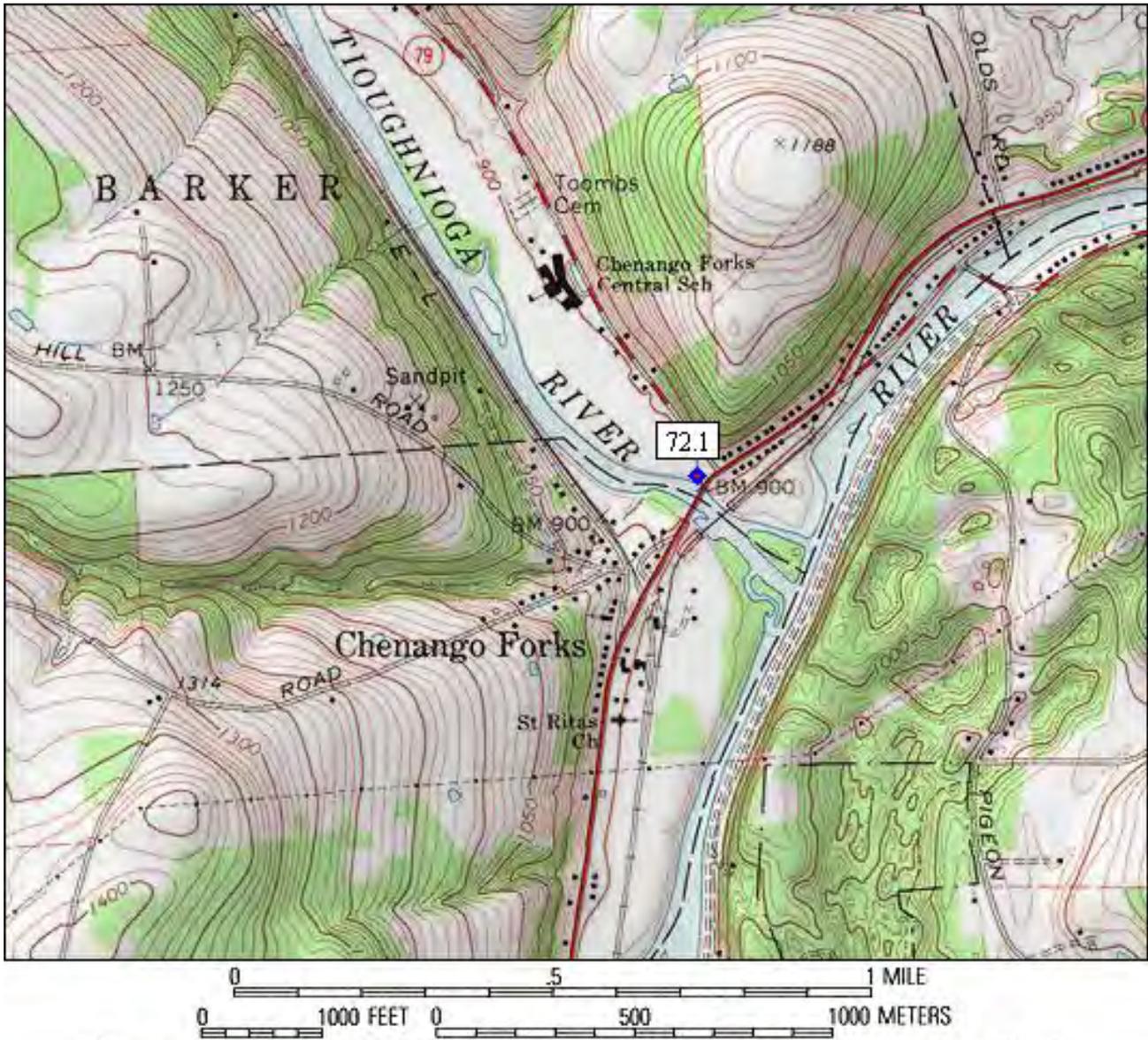
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Sidney quad map with location of site 71, Unadilla River at State Route 7 northwest of Sidney near Unadilla, NY



High-water mark 71.1 is an excellent mud line 2.0 feet above the bottom of the upstream I-beam, on the upstream side of the I-beam, near the right abutment of the State Route 7 bridge, at elevation 988.46 feet above NGVD 29 (lat 42°19'03.0", long 75°24'36.0").

SITE DESCRIPTION	
<b>Site 72:</b>	Tioughnioga River at State Route 12 at Chenango Forks, NY
<b>Site Location:</b>	Bridge on State Route 12, lat 42°14'19.2", long 75°50'45.0", NAD 83
	Town of Barker, Broome County, NY
	Chenango Forks USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: two debris lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by C.O. Szabo and URS on July 22, 2006.
	High-water-mark elevations were surveyed by URS using DGPS methods on August 28, 2006. To convert to NAVD 88, subtract 0.45 feet from elevations at this site.

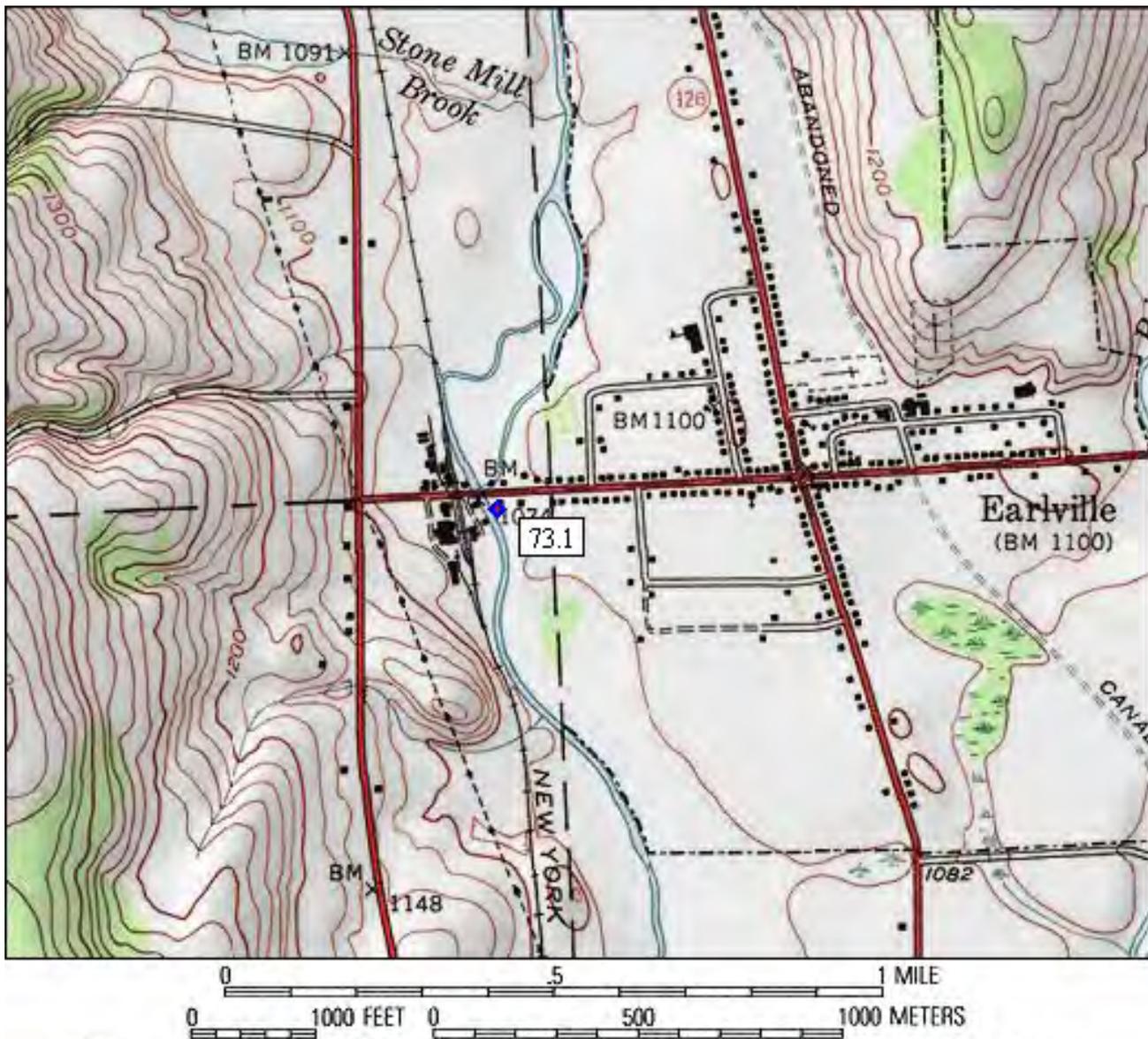


Chenango Forks quad map with location of site 72, Tioughnioga River at State Route 12 at Chenango Forks, NY



High-water mark 72.1 is a fair debris line on the ground, streamward from the left abutment of the State Route 12 bridge, at elevation 894.65 feet above NGVD 29 (lat 42°14'20.6", long 75°50'44.9").

SITE DESCRIPTION
<b>Site 73:</b> Chenango River at County Route 14 (West Main Street) at Earlville, NY
<b>Site Location:</b> Bridge on County Route 14, lat 42°44'21.6", long 75°33'17.4", NAD 83
Village of Earlville, Chenango County, NY
Earlville USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 9 and October 19, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped V 112 1935 set in top of a concrete post, 82 feet east of the centerline of North Main Street, 25 feet north of the centerline of East Main Street, 8 feet southeast of a fire hydrant, and 5 feet south of the south edge of a sidewalk, in Earlville, NGS PID NA1638. Elevation is 1,099.58 feet above NGVD 29. To convert to NAVD 88, subtract 0.40 feet from elevations at this site.



Earlville quad map with location of site 73, Chenango River at County Route 14 (West Main Street) at Earlville, NY



High-water mark 73.1 is a fair debris line on the ground, on the left bank, 70 feet downstream from the County Route 14 bridge, at elevation 1,071.51 feet above NGVD 29 (lat 42°44'20.8", long 75°33'15.1").

SITE DESCRIPTION
<b>Site 74:</b> Chenango River at County Route 32A at Norwich, NY
<b>Site Location:</b> Bridge on County Route 32A, lat 42°31'21.6", long 75°30'48.0", NAD 83
Town of Norwich, Chenango County, NY
Norwich USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 29, 2006. To convert to NAVD 88, subtract 0.35 feet from elevations at this site.



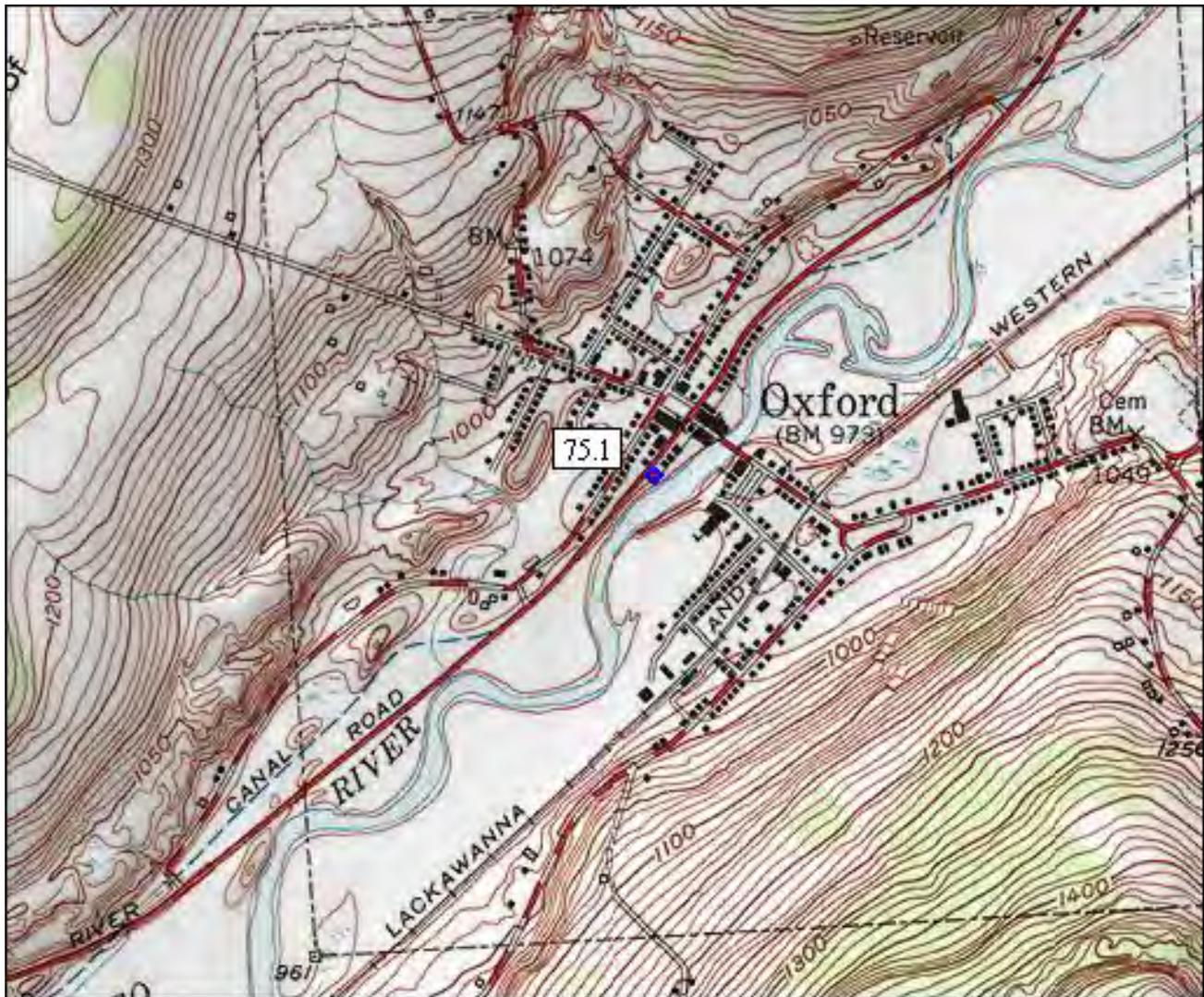
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Norwich quad map with location of site 74, Chenango River at County Route 32A at Norwich, NY



High-water mark 74.1 is an excellent mud line 1.2 feet above the ground, on the streamward side of Steven P. Harter Insurance at 107 County Route 32A, on the left bank, 80 feet upstream from the County Route 32A bridge, at elevation 993.25 feet above NGVD 29 (lat 42°31'21.1", long 75°30'45.8").

SITE DESCRIPTION
<b>Site 75:</b> Chenango River at State Route 12 (South Canal Street) at Oxford, NY
<b>Site Location:</b> State Route 12, lat 42°26'26.9", long 75°35'54.9", NAD 83
Village of Oxford, Chenango County, NY
Oxford USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 29, 2006. To convert to NAVD 88, subtract 0.41 feet from elevations at this site.



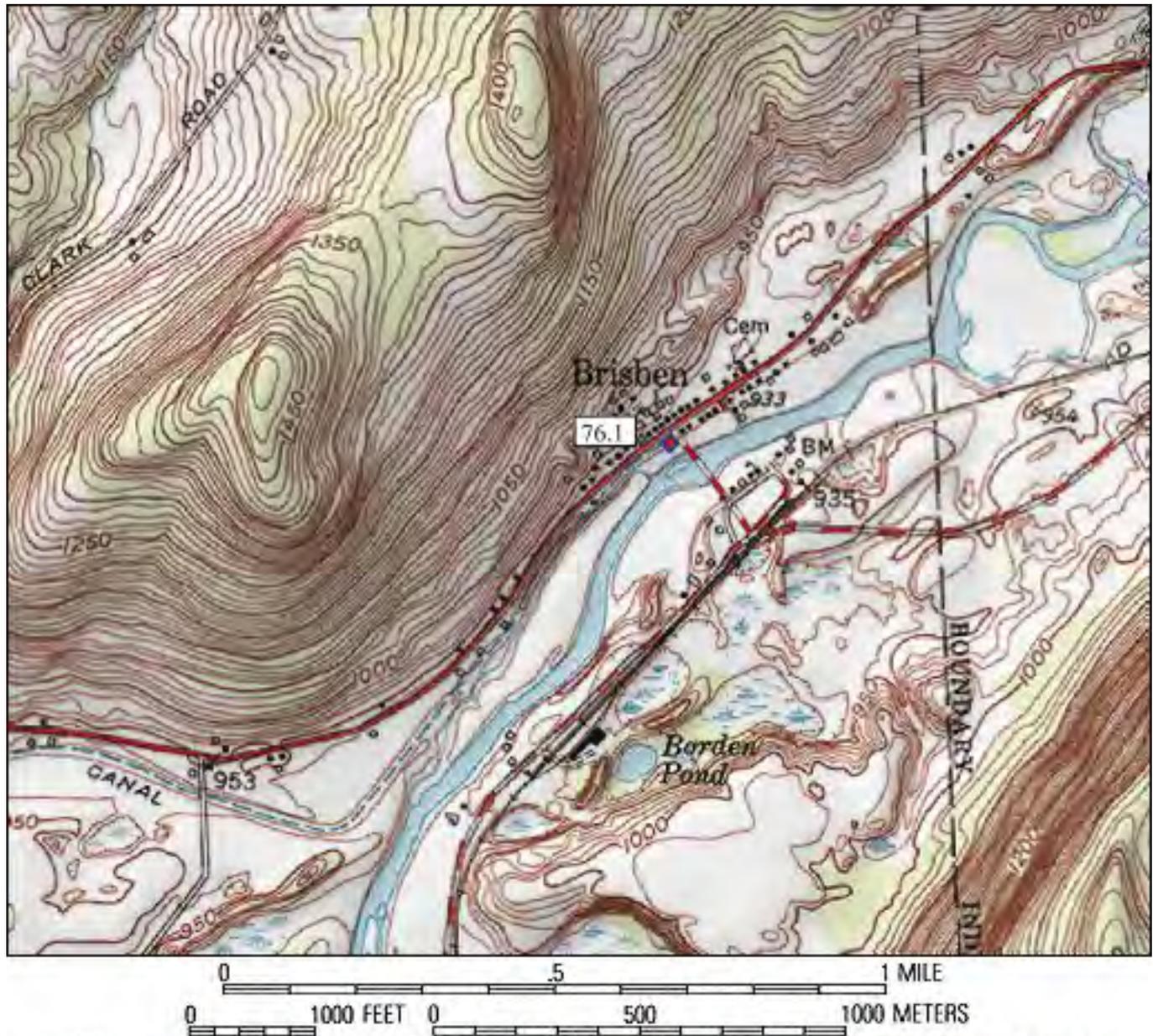
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Oxford quad map with location of site 75, Chenango River at State Route 12 (South Canal Street) at Oxford, NY



High-water mark 75.1 is an excellent mud line 2.8 feet above the ground, on the landward side of house at 11 South Canal Street, on the right bank, at elevation 972.51 feet above NGVD 29 (lat 42°26'26.9", long 75°35'54.9").

SITE DESCRIPTION
<b>Site 76:</b> Chenango River at County Route 32C (Bridge Street) at Brisben, NY
<b>Site Location:</b> Bridge on County Route 32C, lat 42°21'50.4", long 75°40'50.4", NAD 83
Town of Greene, Chenango County, NY
Brisben USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 29, 2006. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



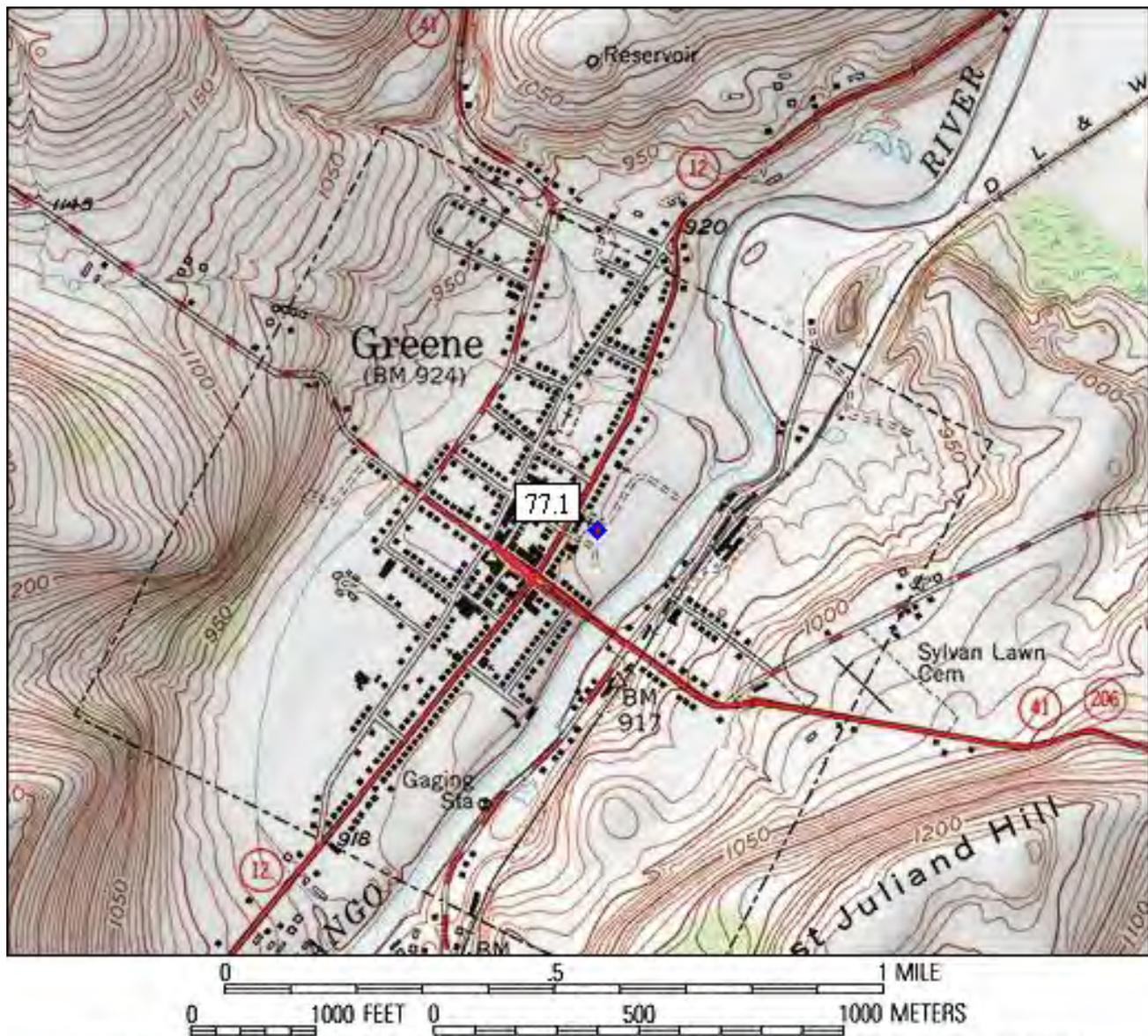
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Brisben quad map with location of site 76, Chenango River at County Route 32C (Bridge Street) at Brisben, NY



High-water mark 76.1 is a good debris line on the ground, on the right bank, 120 feet downstream from the County Route 32C bridge, at elevation 928.82 feet above NGVD 29 (lat 42°21'52.1", long 75°40'53.7").

SITE DESCRIPTION
<b>Site 77:</b> Chenango River at North Chenango Street at Greene, NY
<b>Site Location:</b> North Chenango Street, lat 42°19'49.2", long 75°46'04.6", NAD 83
Village of Greene, Chenango County, NY
Greene USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 9 and October 19, 2006.
High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 923 ALBANY set vertically 3 inches above the sidewalk in the foundation stone under the middle column of the town hall in Greene, NGS PID NA1502. This is RM 1 in the Village of Greene FEMA flood-insurance study. Elevation is 923.78 feet above NGVD 29. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



Greene quad map with location of site 77, Chenango River at North Chenango Street at Greene, NY



High-water mark 77.1 is an excellent mud line 8.0 feet above the ground, on the landward side of "Scout House" building streamward from building at 18A North Chenango Street, on the right bank, at elevation 915.17 feet above NGVD 29 (lat 42°19'49.2", long 75°46'04.6").

SITE DESCRIPTION
<b>Site 78:</b> Chenango River at South Chenango Street at Greene, NY
<b>Site Location:</b> South Chenango Street, lat 42°19'30.4", long 75°46'24.8", NAD 83
Village of Greene, Chenango County, NY
Greene USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 23, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 29, 2006. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



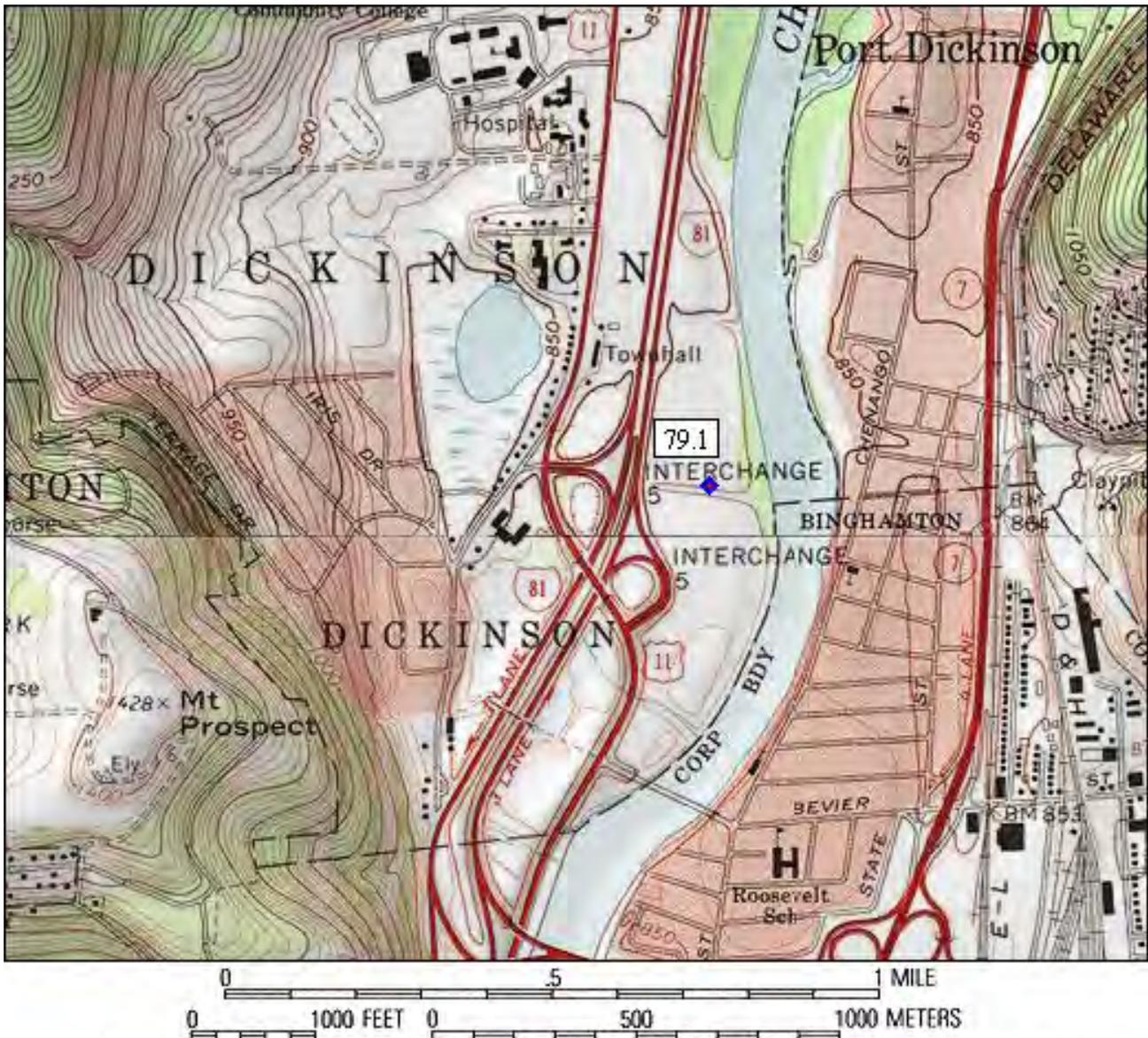
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Greene quad map with location of site 78, Chenango River at South Chenango Street at Greene, NY



High-water mark 78.1 is an excellent mud line 5.4 foot above the ground, on the streamward side of a shed streamward from house at 69 South Chenango Street, on the right bank, at elevation 913.62 feet above NGVD 29 (lat 42°19'30.4", long 75°46'24.8").

SITE DESCRIPTION
<b>Site 79:</b> Chenango River at Otsiningo Park at Dickinson, NY
<b>Site Location:</b> Otsiningo Park, lat 42°07'34.2", long 75°54'07.9", NAD 83
Town of Dickinson, Broome County, NY
Castle Creek USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 9, 2006, and J.S. Grover and J.P. Marion on October 27, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped A 138 RESET set in top of the south abutment of the west one of three railroad bridges over Bevier Street, between Brandywine Avenue and Travis Avenue in Binghamton, NGS PID NA1438. Elevation is 869.82 feet above NGVD 29, from NYS DOT. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



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Castle Creek quad map with location of site 79, Chenango River at Otsiningo Park at Dickinson, NY



High-water mark 79.1 is an excellent mud line 10.1 feet above the ground, on the landward side of an electric power distribution box landward from restrooms building in the Broome County Otsiningo Park, on the right bank, at elevation 849.22 feet above NGVD 29 (lat 42°07'34.2", long 75°54'07.9").

SITE DESCRIPTION
<b>Site 80:</b> Chenango River at Front Street at Binghamton, NY
<b>Site Location:</b> Front Street, lat 42°05'49.0", long 75°55'01.8", NAD 83
City of Binghamton, Broome County, NY
Binghamton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover, C.O. Szabo, and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 28, 2006. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



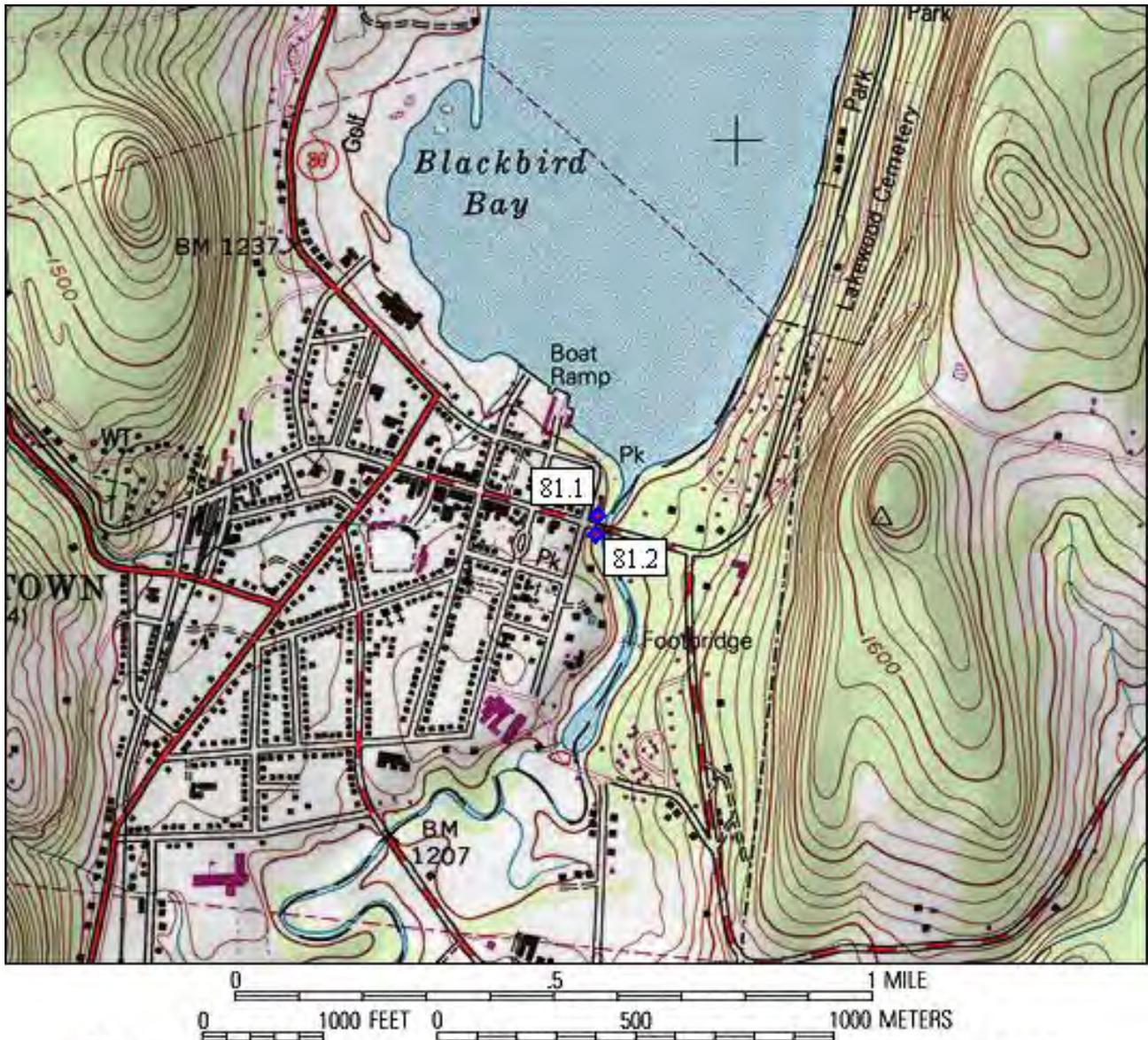
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Binghamton West quad map with location of site 80, Chenango River at Front Street at Binghamton, NY



High-water mark 80.1 is a good seed line 1.9 feet above the ground, on the streamward side of a storage shed streamward from house at 78 Front Street, on the right bank, at elevation 847.67 feet above NGVD 29 (lat 42°05'49.0", long 75°55'01.8").

SITE DESCRIPTION
<b>Site 81:</b> Susquehanna River at County Route 31 (Main Street) at Cooperstown, NY
<b>Site Location:</b> Bridge on County Route 31, lat 42°41'57.6", long 74°55'14.4", NAD 83
Village of Cooperstown, Otsego County, NY
Cooperstown USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one debris line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 30, 2006. To convert to NAVD 88, subtract 0.44 feet from elevations at this site.



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Cooperstown quad map with location of site 81, Susquehanna River at County Route 31 (Main Street) at Cooperstown, NY

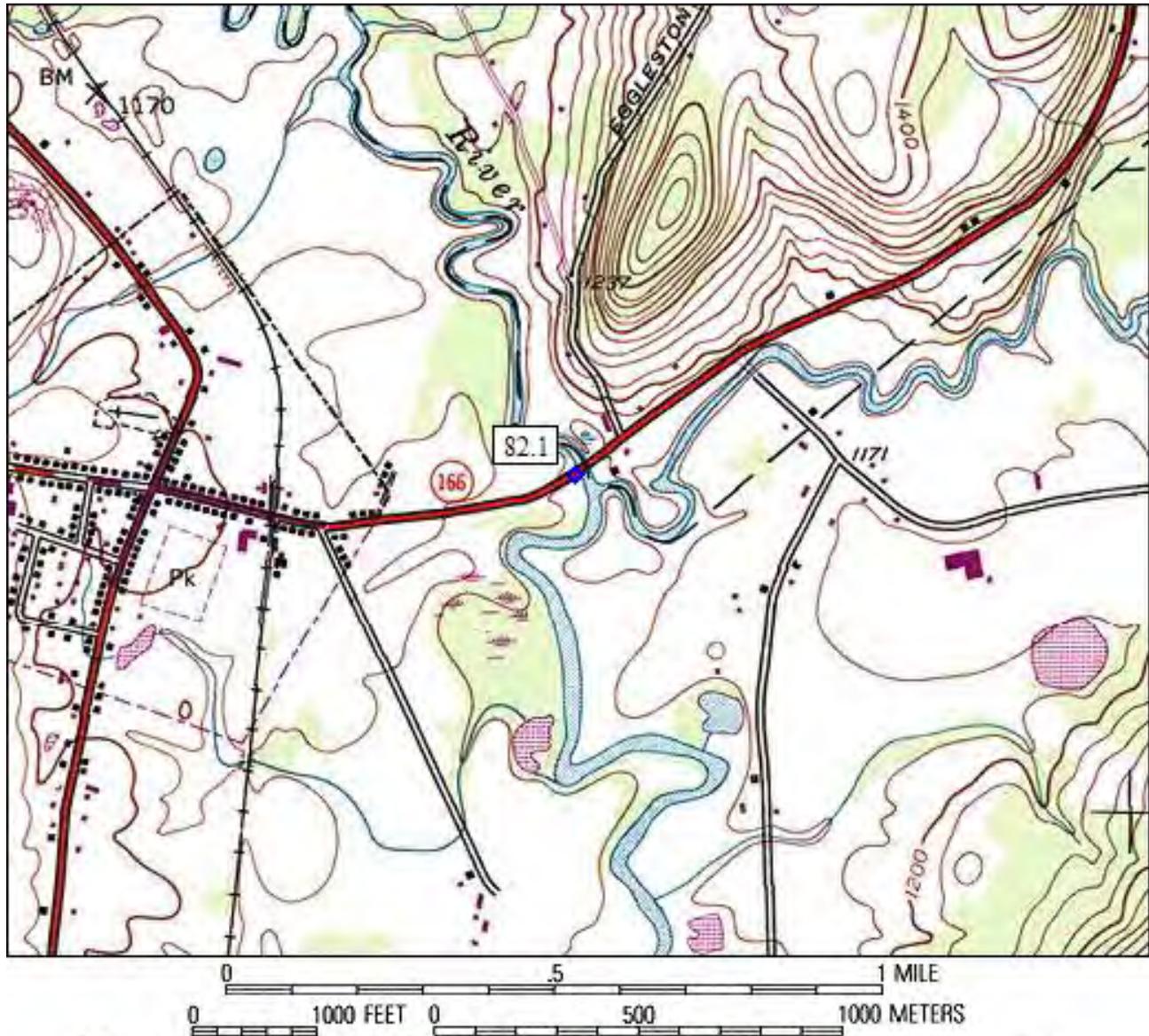


High-water mark 81.1 is a good debris line on the ground, on the right bank, 30 feet upstream from the County Route 31 bridge, at elevation 1,197.34 feet above NGVD 29 (lat 42°41'59.4", long 74°55'13.6").



High-water mark 81.2 is an excellent seed line 1.0 foot above the ground, on a tree on the right bank, 50 feet downstream from the County Route 31 bridge, at elevation 1,196.94 feet above NGVD 29 (lat 42°41'58.2", long 74°55'13.8").

SITE DESCRIPTION
<b>Site 82:</b> Susquehanna River at State Route 166 at Milford, NY
<b>Site Location:</b> Bridge on State Route 166, lat 42°35'28.2", long 74°55'57.6", NAD 83
Town of Milford, Otsego County, NY
Milford USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one mud line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 30, 2006. To convert to NAVD 88, subtract 0.41 feet from elevations at this site.

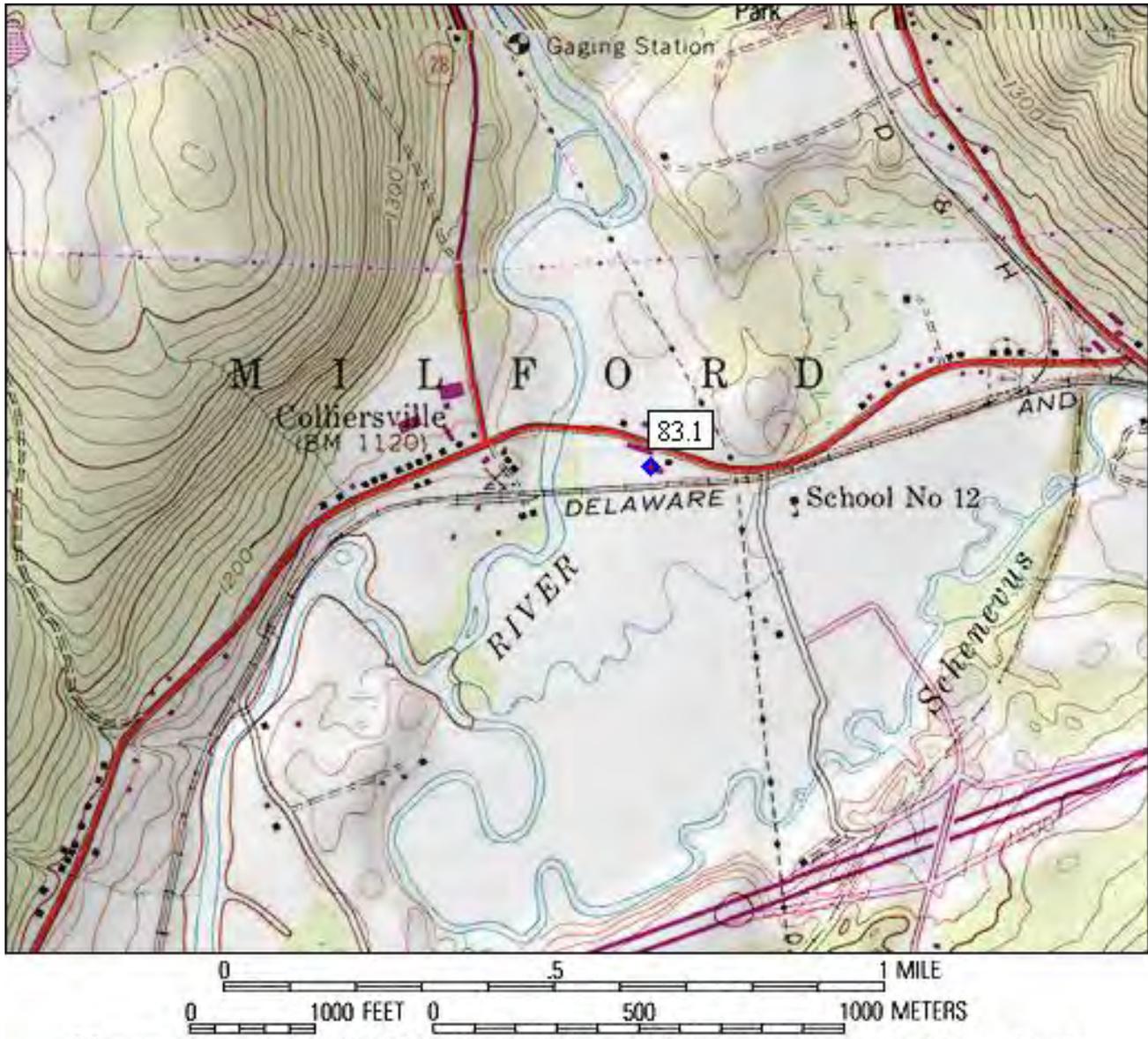


Milford quad map with location of site 82, Susquehanna River at State Route 166 at Milford, NY



High-water mark 82.1 is a good mud line 1.6 feet above the bottom of the upstream I-beam, on the upstream side of the I-beam, near the right abutment of the State Route 166 bridge, at elevation 1,165.11 feet above NGVD 29 (lat 42°35'27.3", long 74°55'57.9").

SITE DESCRIPTION
<b>Site 83:</b> Susquehanna River at State Route 7 at Colliersville, NY
<b>Site Location:</b> Bridge on State Route 7, lat 42°29'28.8", long 74°58'46.8", NAD 83
Town of Milford, Otsego County, NY
West Davenport USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover and URS on July 19, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 30, 2006. To convert to NAVD 88, subtract 0.41 feet from elevations at this site.

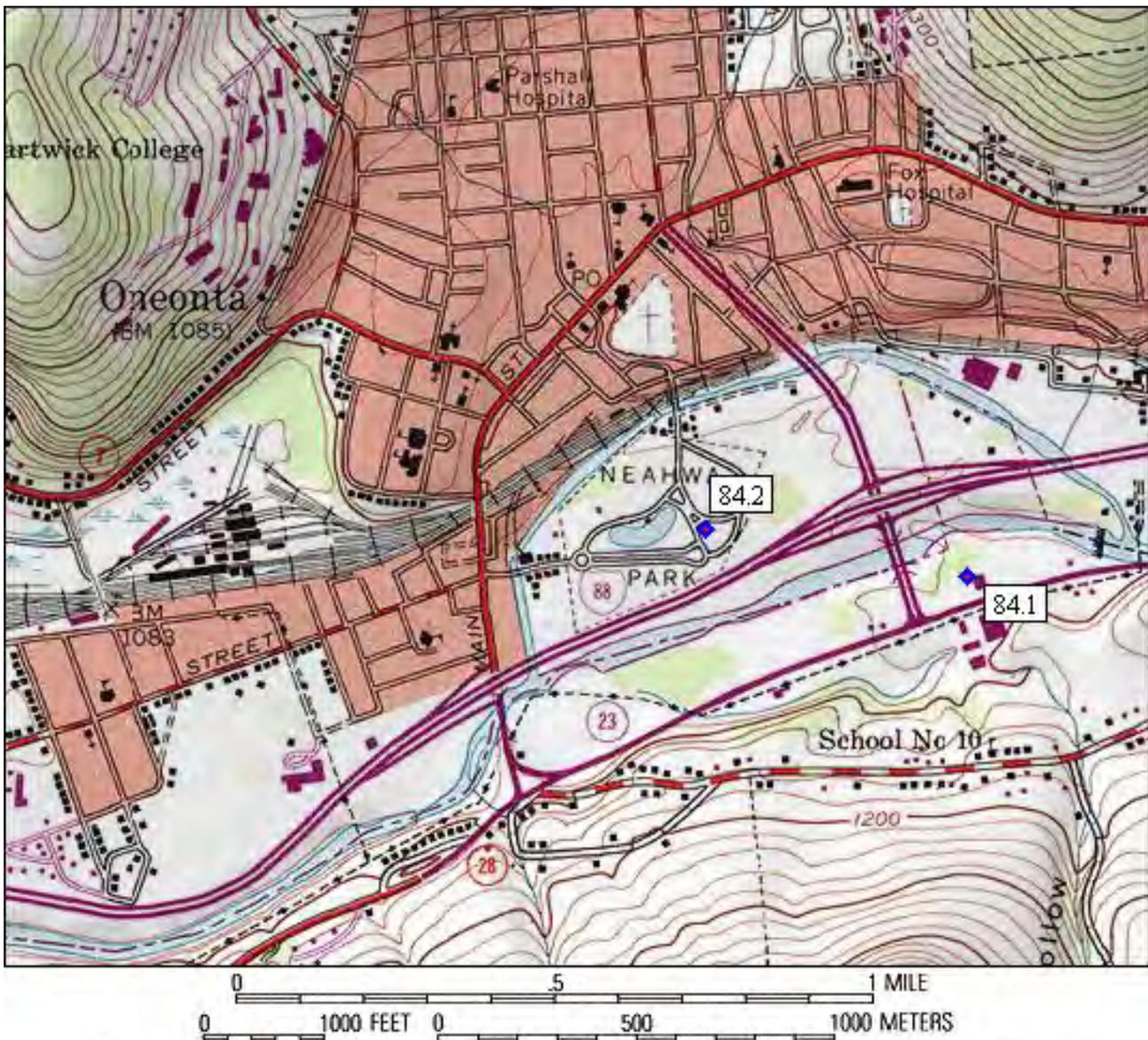


West Davenport quad map with location of site 83, Susquehanna River at State Route 7 at Colliersville, NY



High-water mark 83.1 is an excellent mud line 3.5 feet above the ground, inside a trailer downstream from house at 6248 State Route 7, on the left bank, 170 feet downstream from the State Route 7 bridge, at elevation 1,116.91 feet above NGVD 29 (lat 42°29'25.7", long 74°58'36.8").

SITE DESCRIPTION
<b>Site 84:</b> Susquehanna River at Oneonta, NY
<b>Site Location:</b> Oneonta, lat 42°26'55.5", long 75°02'56.1", NAD 83
City and Town of Oneonta, Otsego County, NY
Oneonta USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover and URS on July 20, 2006, and additional photos taken by J.R. Oliver and A.G. Morgan on August 23, 2007.
High-water-mark elevations were surveyed by URS using DGPS methods on August 30, 2006. To convert to NAVD 88, subtract 0.41 feet from elevations at this site.



Oneonta quad map with location of site 84, Susquehanna River at Oneonta, NY

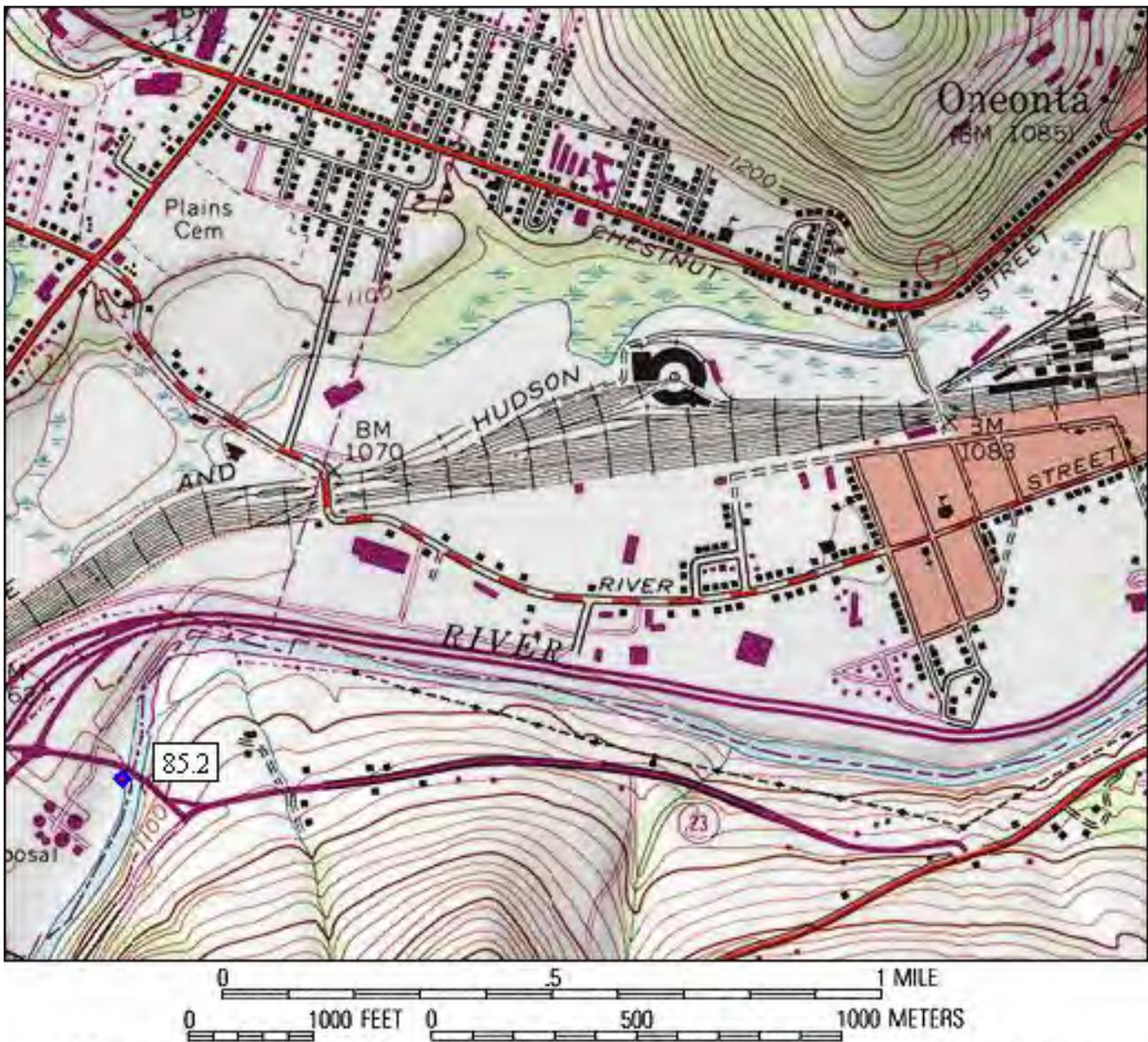


High-water mark 84.1 is an excellent mud line 2.5 feet above the ground, on the streamward side of a fence landward from Super 8 Motel at 4973 State Route 23, on the left bank, at elevation 1,084.71 feet above NGVD 29 (lat 42°26'55.5", long 75°02'56.1").



High-water mark 84.2 is an excellent mud line 2.0 feet above the ground, on the streamward side of the City of Oneonta Neahwa Park "Little Red Caboose" building, on the right bank, at elevation 1,080.71 feet above NGVD 29 (lat 42°26'59.5", long 75°03'25.1").

SITE DESCRIPTION
<b>Site 85:</b> Susquehanna River at State Route 205 at Oneonta, NY
<b>Site Location:</b> Bridge on State Route 205, lat 42°26'25.2", long 75°05'58.2", NAD 83
City of Oneonta, Otsego County, NY
Oneonta USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: four debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 9, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01498620 (discontinued) reference mark RM 3. Elevation is 1,083.62 feet above NGVD 29. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



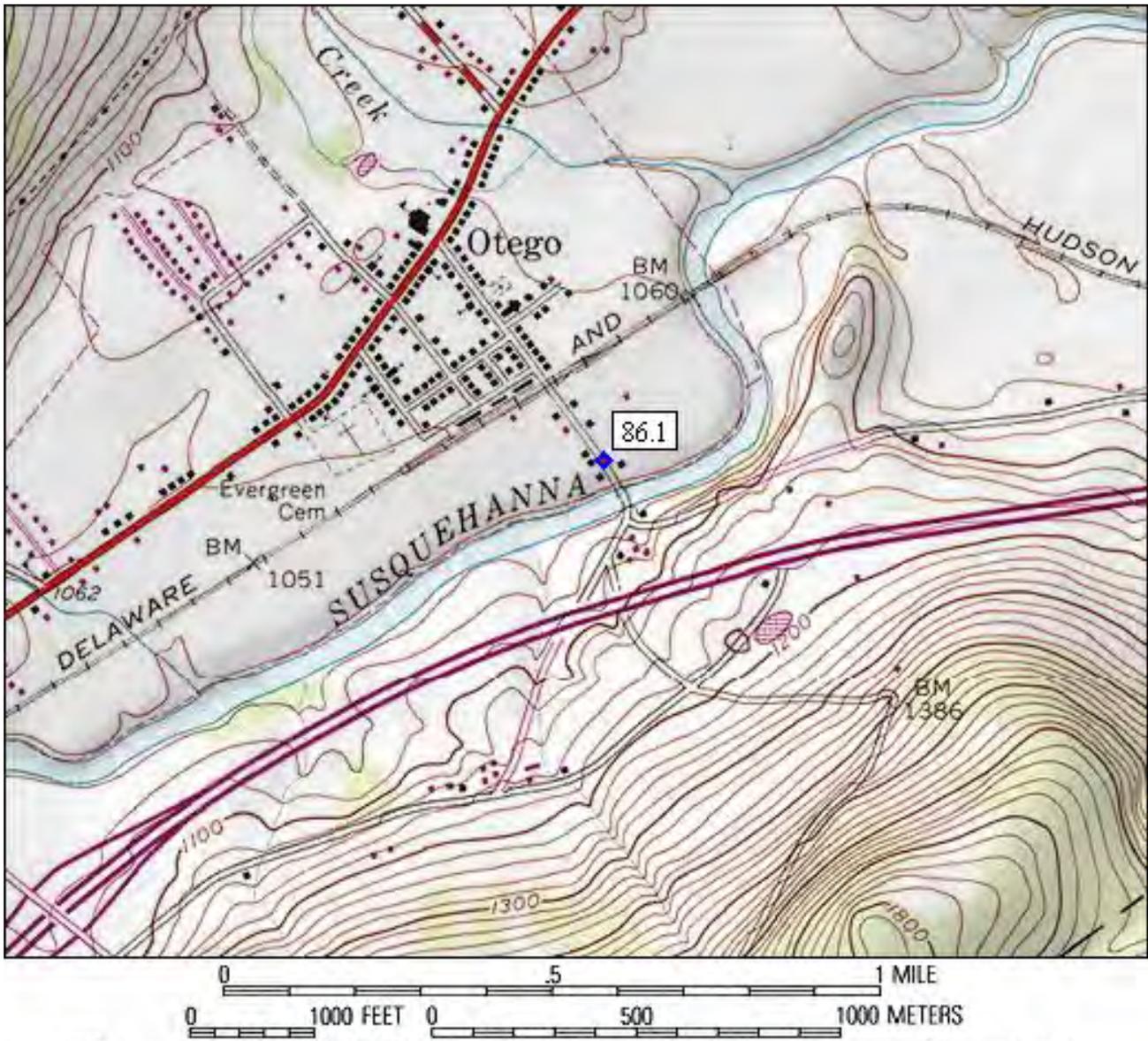
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Oneonta quad map with location of site 85, Susquehanna River at State Route 205 at Oneonta, NY



High-water mark 85.2 is a good debris line on the ground, on the right bank, 30 feet downstream from the State Route 205 bridge, at elevation 1,065.53 feet above NGVD 29 (lat 42°26'24.6", long 75°05'59.7").

SITE DESCRIPTION
<b>Site 86:</b> Susquehanna River at River Street at Otego, NY
<b>Site Location:</b> River Street, lat 42°23'32.7", long 75°10'06.3", NAD 83
Village of Otego, Otsego County, NY
Otego USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover and URS on July 20, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 29, 2006. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



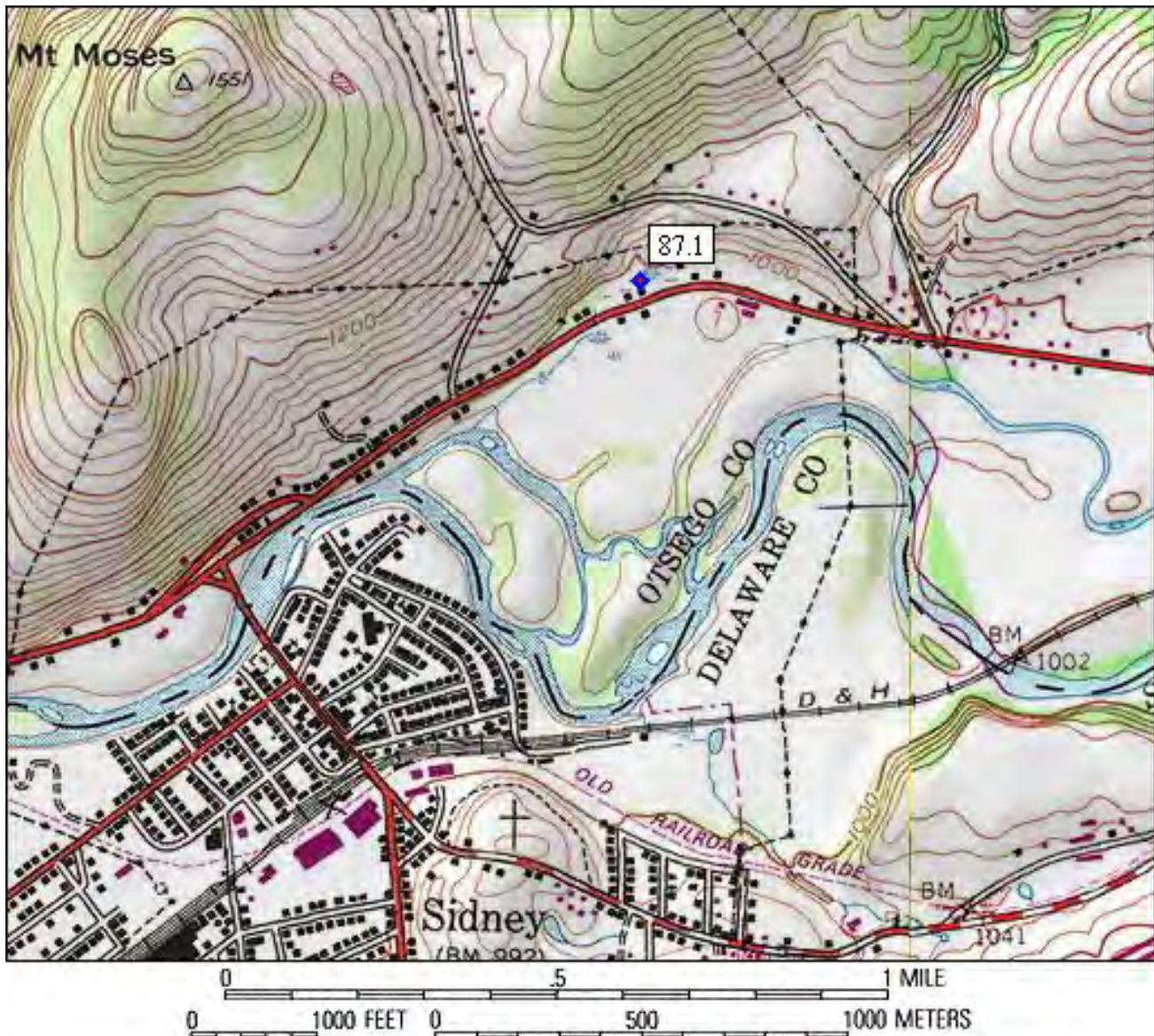
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Otego quad map with location of site 86, Susquehanna River at River Street at Otego, NY



High-water mark 86.1 is an excellent mud line 4.5 feet above the ground, on the upstream side of house at 88 River Street (mark transferred to utility pole upstream from house), on the right bank, at elevation 1,056.42 feet above NGVD 29 (lat 42°23'32.7", long 75°10'06.3").

SITE DESCRIPTION
<b>Site 87:</b> Susquehanna River at State Route 7 northeast of Sidney near Unadilla, NY
<b>Site Location:</b> State Route 7, lat 42°19'28.7", long 75°22'57.4", NAD 83
Town of Unadilla, Otsego County, NY
Sidney USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 10, 2006, and J.S. Grover and M.B. Jennings on November 14, 2006.
High-water-mark elevations were surveyed from a reference mark that is a chiseled square on the northwest wingwall of a concrete bridge on State Route 7 about 50 feet west of the intersection of Sheep Pen Road near Sidney. This is RM 10 in the Town of Unadilla FEMA flood-insurance study. Elevation is 1,001.47 feet above NGVD 29. To convert to NAVD 88, subtract 0.38 feet from elevations at this site.



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Sidney quad map with location of site 87, Susquehanna River at State Route 7 northeast of Sidney near Unadilla, NY



High-water mark 87.1 is an excellent mud line 1.0 foot above the ground, inside the Sidney Tire Inc. building at 485 State Route 7, on the right bank, at elevation 992.54 feet above NGVD 29 (lat 42°19'28.7", long 75°22'57.4").

SITE DESCRIPTION
<b>Site 88:</b> Susquehanna River at State Route 7 north of Sidney near Unadilla, NY
<b>Site Location:</b> State Route 7, lat 42°18'58.0", long 75°23'57.4", NAD 83
Town of Unadilla, Otsego County, NY
Sidney USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 10, 2006, and J.S. Grover and M.B. Jennings on November 14, 2006.
High-water-mark elevations were surveyed from a reference mark that is a chiseled square on the northwest wingwall of a concrete bridge on State Route 7 about 50 feet west of the intersection of Sheep Pen Road near Sidney. This is RM 10 in the Town of Unadilla FEMA flood-insurance study. Elevation is 1,001.47 feet above NGVD 29. To convert to NAVD 88, subtract 0.39 feet from elevations at this site.



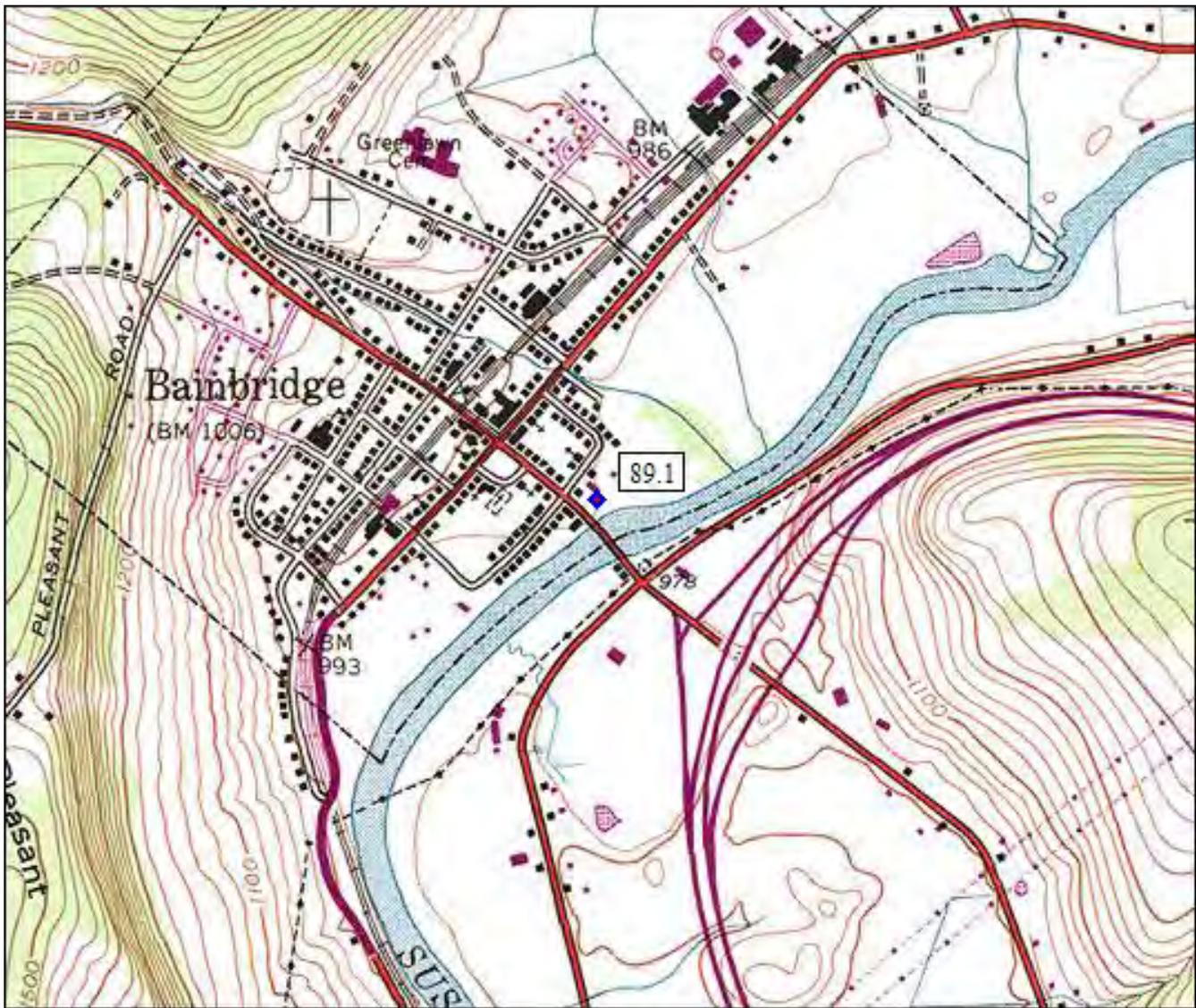
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Sidney quad map with location of site 88, Susquehanna River at State Route 7 north of Sidney near Unadilla, NY



High-water mark 88.1 is an excellent mud line 1.0 foot above the ground, inside the Chambers and O'Hara Truck Center building at 268 State Route 7, on the right bank, at elevation 987.68 feet above NGVD 29 (lat 42°18'58.0", long 75°23'57.4").

SITE DESCRIPTION	
<b>Site 89:</b>	Susquehanna River at State Route 206 (East Main Street) at Bainbridge, NY
<b>Site Location:</b>	Bridge on State Route 206, lat 42°17'28.2", long 75°28'34.2", NAD 83
	Village of Bainbridge, Chenango County, NY
	Sidney USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: two mud lines.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by J.S. Grover and URS on July 20, 2006, and surveyed by B.A. Hayhurst and J.E. Smith on August 10, 2007.
	High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01502632 reference mark RM 8. Elevation is 984.22 feet above NGVD 29. To convert to NAVD 88, subtract 0.40 feet from elevations at this site.



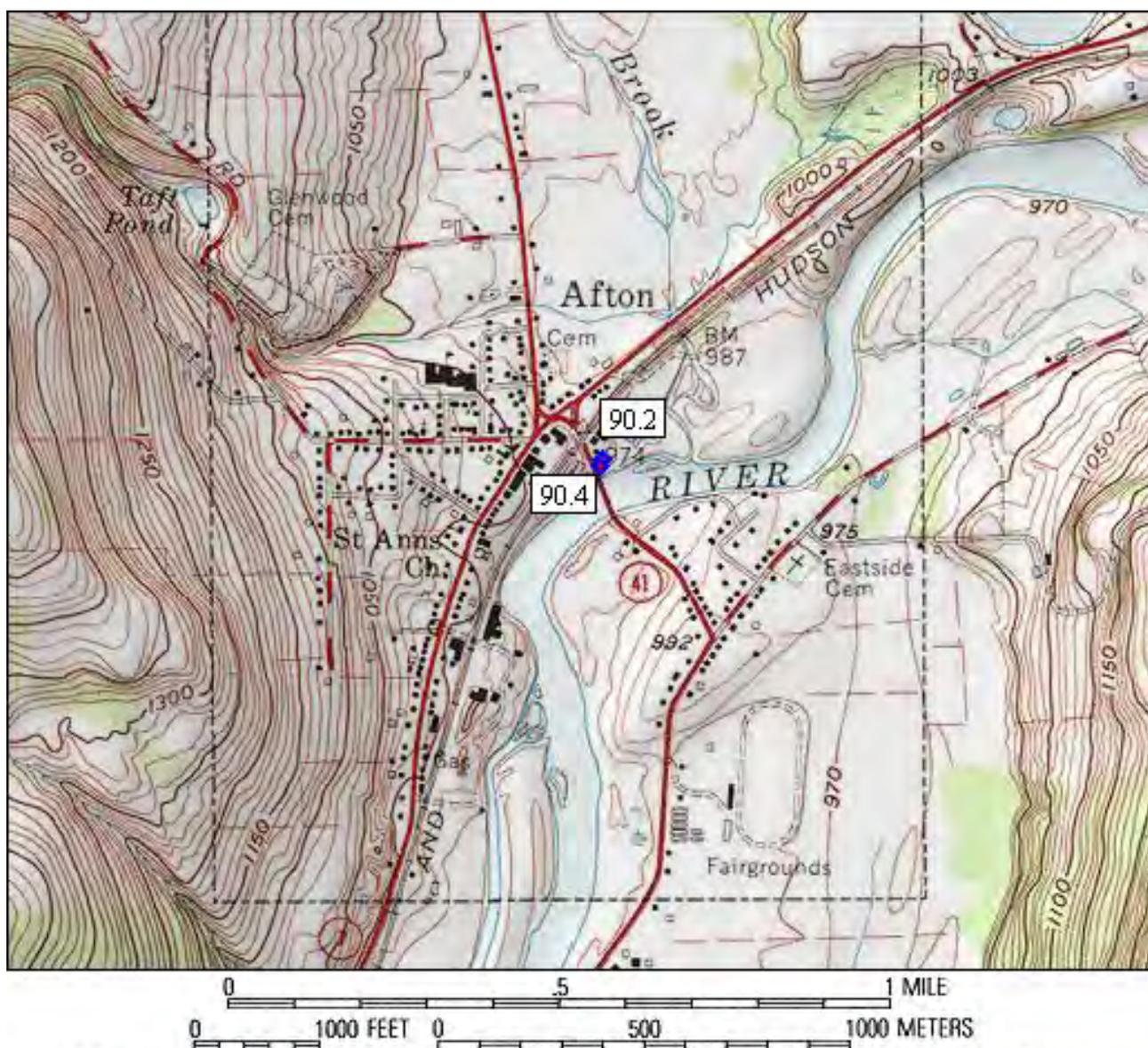
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Sidney quad map with location of site 89, Susquehanna River at State Route 206 (East Main Street) at Bainbridge, NY



High-water mark 89.1 is an excellent mud line 3.2 feet above the ground, on the landward side of a refuse container downstream and streamward from the Village of Bainbridge Department of Public Works garage at 5 River Street (mark transferred to tree landward from container), on the right bank, 65 feet upstream from the State Route 206 bridge, at elevation 984.01 feet above NGVD 29 (lat 42°17'31.7", long 75°28'35.5").

SITE DESCRIPTION
<b>Site 90:</b> Susquehanna River at State Route 41 (Maple Street) at Afton, NY
<b>Site Location:</b> Bridge on State Route 41, lat 42°13'37.8", long 75°31'25.8", NAD 83
Village of Afton, Chenango County, NY
Afton USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Five high-water marks were surveyed: five debris lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 9, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01502701 (discontinued) reference mark RM 1. Elevation is 974.50 feet above NGVD 29. To convert to NAVD 88, subtract 0.42 feet from elevations at this site.



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Afton quad map with location of site 90, Susquehanna River at State Route 41 (Maple Street) at Afton, NY

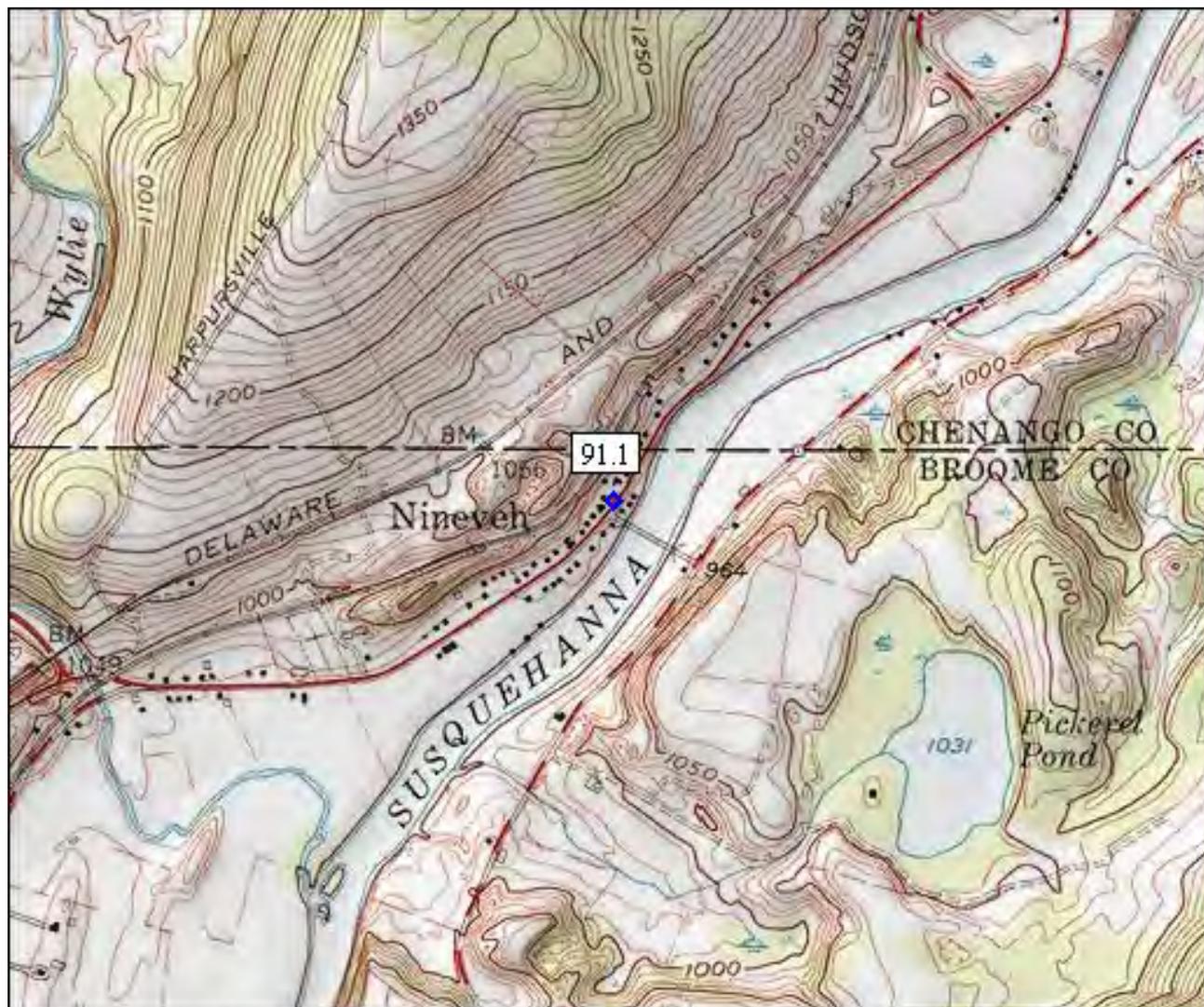


High-water mark 90.2 is a fair debris line on the ground, on the right bank, 20 feet upstream from the State Route 41 bridge, at elevation 972.85 feet above NGVD 29 (lat 42°13'41.1", long 75°31'25.7").



High-water mark 90.4 is a fair debris line on the ground, on the right bank, 10 feet downstream from the State Route 41 bridge, at elevation 971.58 feet above NGVD 29 (lat 42°13'40.6", long 75°31'25.8").

SITE DESCRIPTION
<b>Site 91:</b> Susquehanna River at State Route 7 at Nineveh, NY
<b>Site Location:</b> State Route 7, lat 42°11'39.4", long 75°36'07.8", NAD 83
Town of Colesville, Broome County, NY
Afton USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover, C.O. Szabo, and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 24, 2006. To convert to NAVD 88, subtract 0.45 feet from elevations at this site.



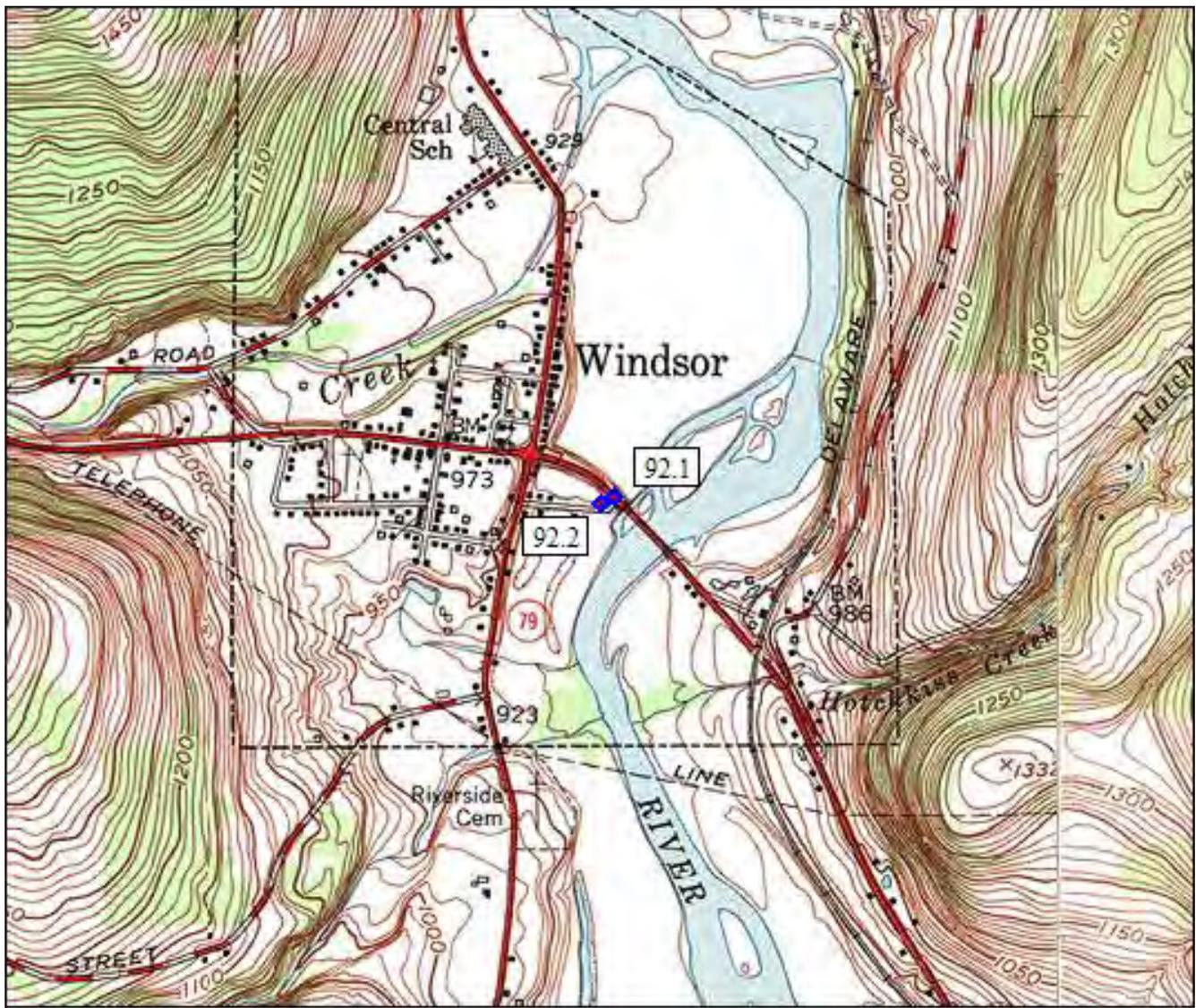
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Afton quad map with location of site 91, Susquehanna River at State Route 7 at Nineveh, NY



High-water mark 91.1 is an excellent mud line 2.4 feet above the ground, on the streamward side of U.S. Post Office at 3035 State Route 7, on the right bank, at elevation 965.05 feet above NGVD 29 (lat 42°11'39.4", long 75°36'07.8").

SITE DESCRIPTION	
<b>Site 92:</b>	Susquehanna River at County Route 28 (Chapel Street) at Windsor, NY
<b>Site Location:</b>	Bridge on County Route 28, lat 42°04'27.0", long 75°38'13.8", NAD 83
	Village of Windsor, Broome County, NY
	Windsor USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b>	Two high-water marks were surveyed: one mud line and one seed line.
	Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
	Marks were flagged and photos taken by J.S. Grover, C.O. Szabo, and URS on July 22, 2006, and surveyed by B.A. Hayhurst and J.E. Smith on August 10, 2007.
	High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01502731 reference mark RM 4. Elevation is 931.98 feet above NGVD 29. To convert to NAVD 88, subtract 0.47 feet from elevations at this site.



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Windsor quad map with location of site 92, Susquehanna River at County Route 28 (Chapel Street) at Windsor, NY

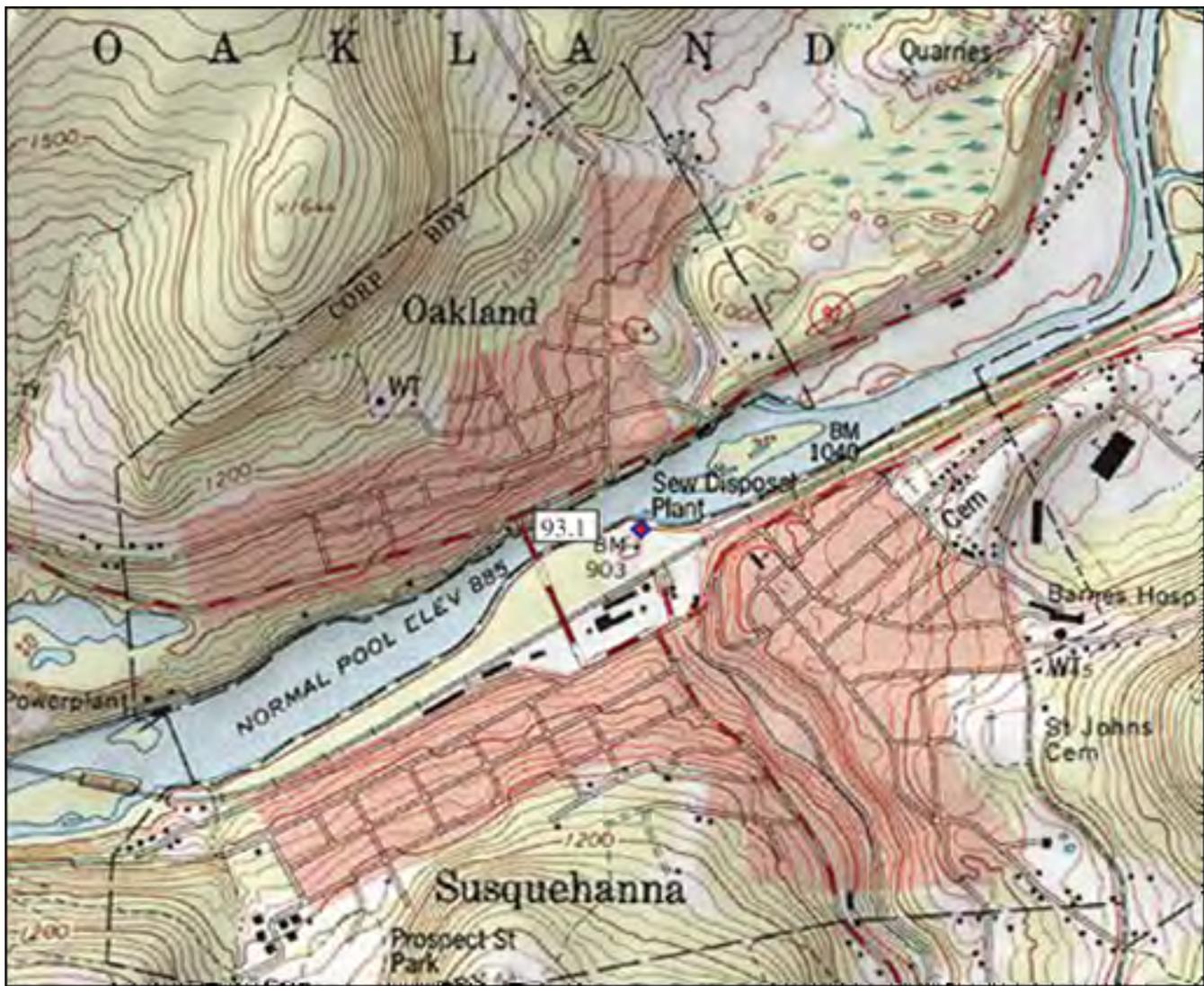


High-water mark 92.1 is a good seed line 2.0 feet above the ground, on a tree on the right bank, 40 feet upstream from the County Route 28 bridge, at elevation 924.58 feet above NGVD 29 (lat 42°04'30.2", long 75°38'15.7").



High-water mark 92.2 is an excellent mud line 3.4 feet above the ground, on the streamward side of house at 21 Bridge Street, on the right bank, 80 feet downstream from the County Route 28 bridge, at elevation 924.06 feet above NGVD 29 (lat 42°04'29.8", long 75°38'17.2").

SITE DESCRIPTION
<b>Site 93:</b> Susquehanna River at Exchange Street at Susquehanna Depot, PA
<b>Site Location:</b> Exchange Street, lat 41°56'54.0", long 75°36'15.3", NAD 83
Borough of Susquehanna Depot, Susquehanna County, PA
Susquehanna USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Four high-water marks were surveyed: three from communications with Tri-Boro Municipal Authority personnel and one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 8, 2006.
High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 124 RJN 1966 903 set in top of the southwest end of the remaining southeast abutment of the dismantled old PA State Routes 92 and 171 bridge over the Susquehanna River in Susquehanna Depot, NGS PID LY2403. This is RM 2 in the Borough of Susquehanna Depot FEMA flood-insurance study. Elevation is 902.56 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



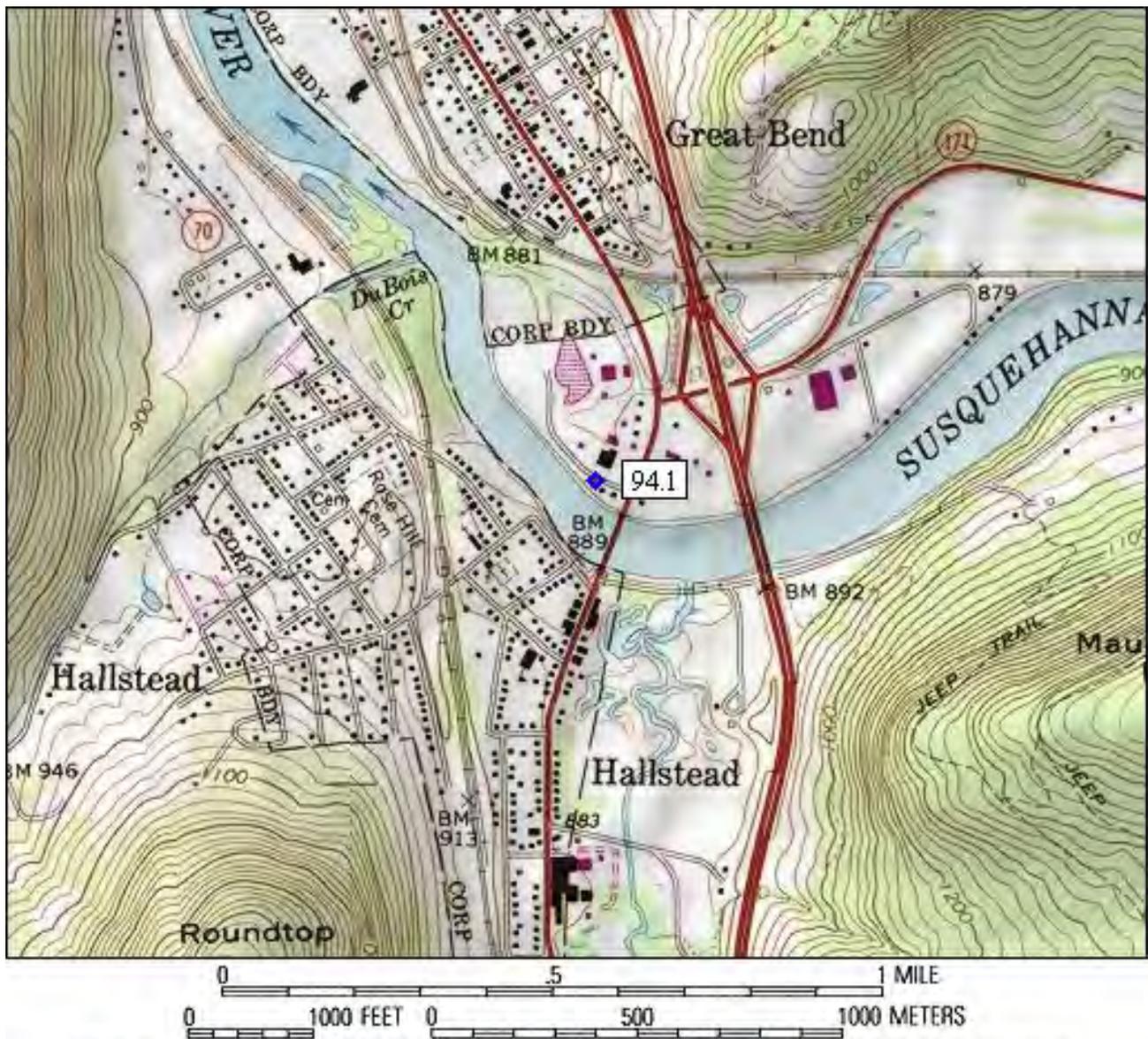
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Susquehanna quad map with location of site 93, Susquehanna River at Exchange Street at Susquehanna Depot, PA



High-water mark 93.1 is an excellent mud line 1.0 foot above the ground, on the landward side of road barricade at the north end of Exchange Street, on the left bank, at elevation 903.63 feet above NGVD 29 (lat 41°56'54.0", long 75°36'15.3").

SITE DESCRIPTION
<b>Site 94:</b> Susquehanna River at U.S. Route 11 (Main Street) at Great Bend, PA
<b>Site Location:</b> Bridge on U.S. Route 11, lat 41°57'49.8", long 75°44'30.6", NAD 83
Township of Great Bend, Susquehanna County, PA
Great Bend USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 8, 2006, and J.P. Marion and A.G. Morgan on November 15, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped HALLSTEAD 1934 set in top of a stone post, 40 feet northeast of the intersection of Williams Street and Susquehanna Avenue in Hallstead, NGS PID LY1736. Elevation is 889.29 feet above NGVD 29. This is RM 1 in the Borough of Hallstead FEMA flood-insurance study. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.



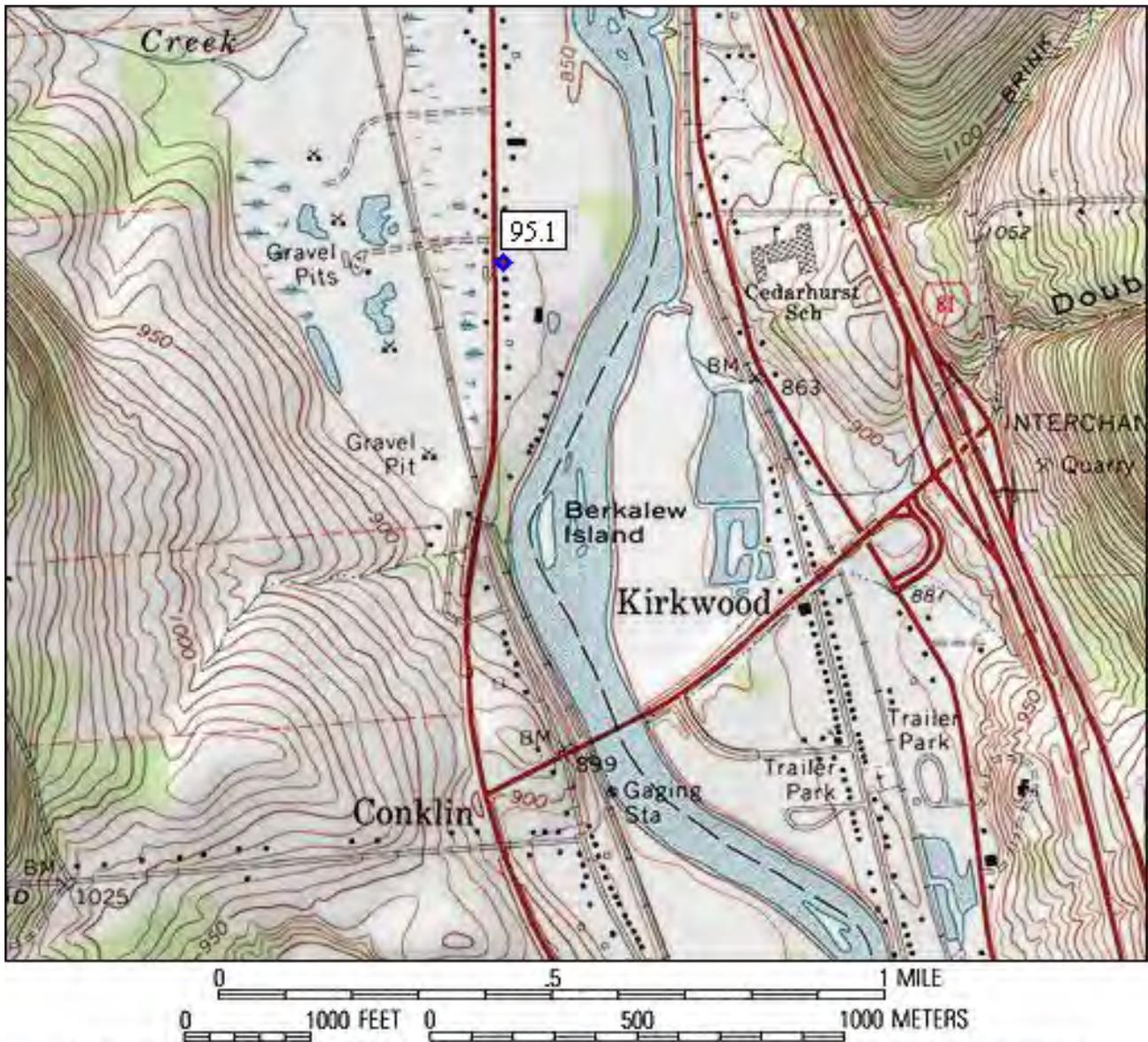
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Great Bend quad map with location of site 94, Susquehanna River at U.S. Route 11 (Main Street) at Great Bend, PA



High-water mark 94.1 is a good mud line 4.2 feet above the ground, on the landward side of Hallstead Plaza apartment building number 3, on the right bank, 270 feet downstream from the U.S. Route 11 bridge, at elevation 874.03 feet above NGVD 29 (lat 41°57'54.4", long 75°44'32.7").

SITE DESCRIPTION
<b>Site 95:</b> Susquehanna River at State Route 7 (Conklin Road) at Conklin, NY
<b>Site Location:</b> State Route 7, lat 42°02'48.0", long 75°48'22.0", NAD 83
Town of Conklin, Broome County, NY
Binghamton East USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon and J.E. Smith on August 8, 2006, and J.S. Grover and C.O. Szabo on October 25, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01503000 reference mark RM 10. Elevation is 860.40 feet above NGVD 29. To convert to NAVD 88, subtract 0.52 feet from elevations at this site.

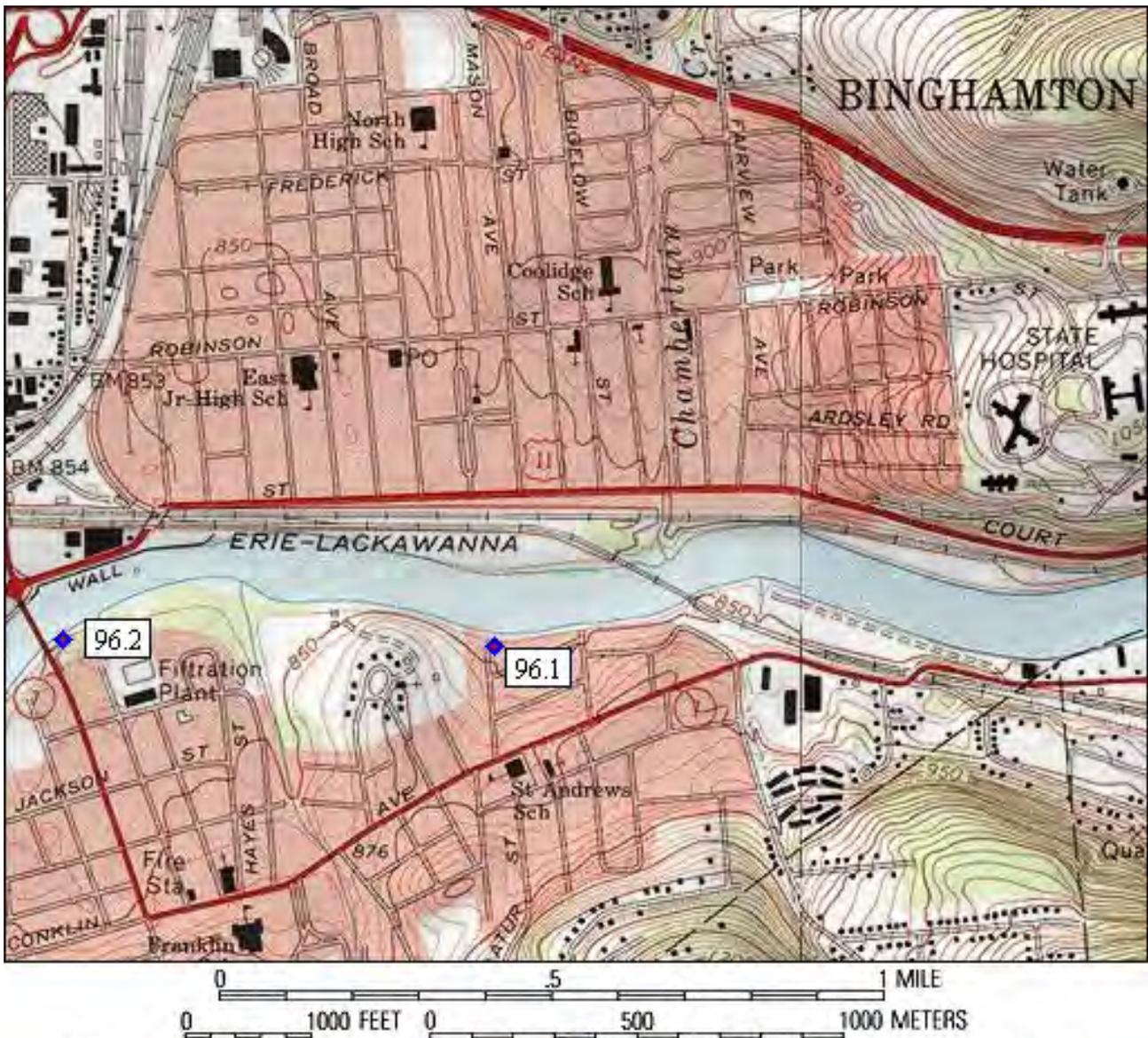


Binghamton East quad map with location of site 95, Susquehanna River at State Route 7 (Conklin Road) at Conklin, NY



High-water mark 95.1 is an excellent mud line 4.5 feet above the ground, on the streamward side of house at 1291 Conklin Road, on the left bank, at elevation 860.33 feet above NGVD 29 (lat 42°02'48.0", long 75°48'22.0").

SITE DESCRIPTION
<b>Site 96:</b> Susquehanna River at Binghamton, NY
<b>Site Location:</b> Binghamton, lat 42°06'03.9", long 75°53'01.1", NAD 83
City of Binghamton, Broome County, NY
Binghamton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: one mud line and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O. Szabo on August 5, 2006, and J.S. Grover and S.K. McInnes on October 25, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped A 109 1935 set in top of the west abutment of the middle one of three railroad bridges over Brandywine Avenue, 375 feet north of Henry Street, and 0.15 mile north of intersection of Brandywine Avenue and U.S. Route 11 in Binghamton, NGS PID NA1436. Elevation is 853.88 feet above NGVD 29. To convert to NAVD 88, subtract 0.48 feet from elevations at this site.

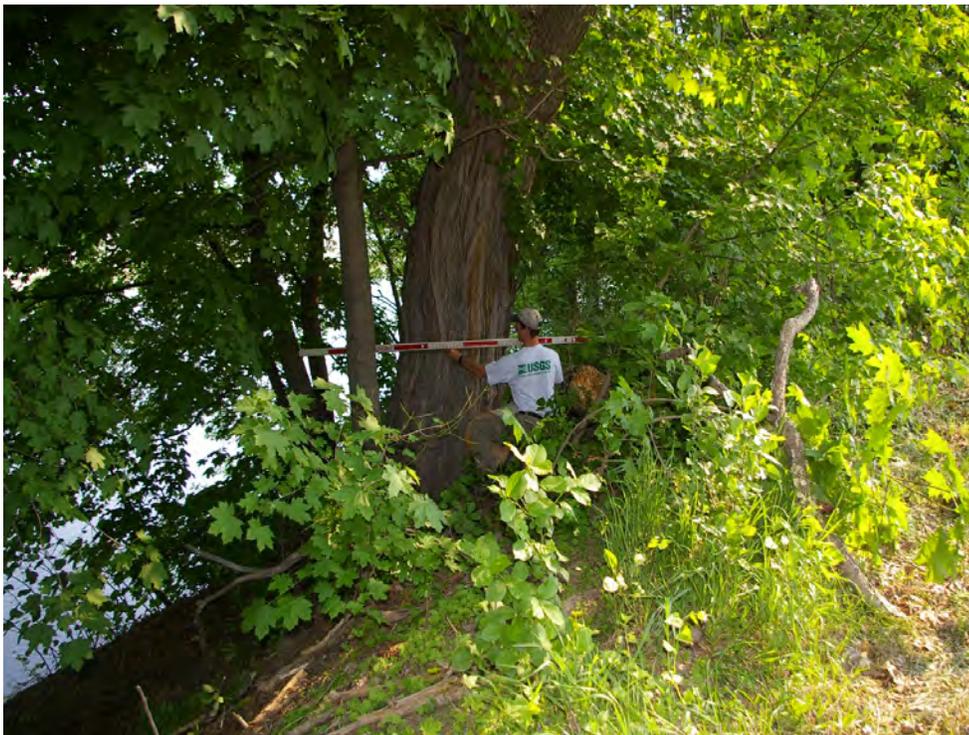


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Binghamton West quad map with location of site 96, Susquehanna River at Binghamton, NY

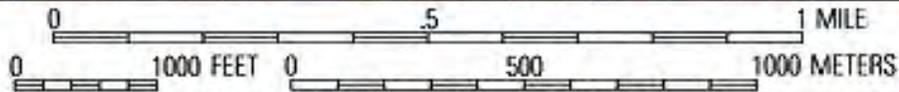


High-water mark 96.1 is an excellent mud line 5.8 feet above the ground, on the downstream side of house at 1 Duke Street, on the left bank, at elevation 852.00 feet above NGVD 29 (lat 42°06'03.9", long 75°53'01.1").



High-water mark 96.2 is a fair seed line 3.0 feet above the ground, on a tree on the left bank, 75 feet upstream from the State Route 7 (Tompkins Street) bridge, at elevation 849.72 feet above NGVD 29 (lat 42°06'04.4", long 75°53'46.7").

SITE DESCRIPTION
<b>Site 97:</b> Susquehanna River at Front Street at Binghamton, NY
<b>Site Location:</b> Front Street, lat 42°05'32.8", long 75°55'06.8", NAD 83
City of Binghamton, Broome County, NY
Binghamton West USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by J.S. Grover, C.O. Szabo, and URS on July 21, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 28, 2006. To convert to NAVD 88, subtract 0.46 feet from elevations at this site.



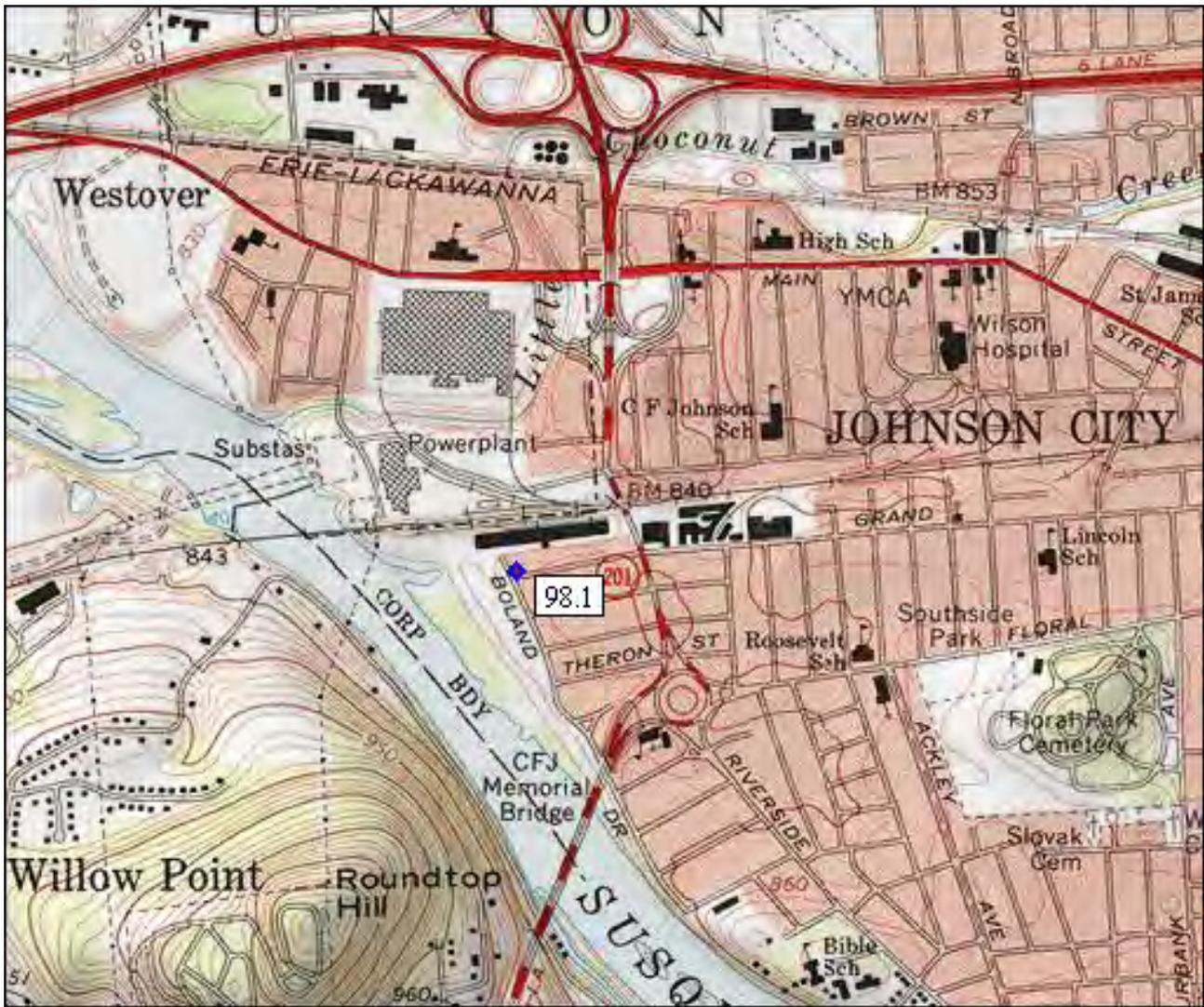
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Binghamton West quad map with location of site 97, Susquehanna River at Front Street at Binghamton, NY



High-water mark 97.1 is an excellent mud line 6.1 feet above the ground, on the landward side of house at 2 Front Street, on the right bank, at elevation 846.26 feet above NGVD 29 (lat 42°05'32.8", long 75°55'06.8").

SITE DESCRIPTION
Site 98: Susquehanna River at Grand Avenue at Johnson City, NY
Site Location: Grand Avenue, lat 42°06'33.7", long 75°58'14.7", NAD 83
Village of Johnson City, Broome County, NY
Binghamton West USGS 7.5' Topographic Quadrangle
High-Water Marks: One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and C.O.Szabo on August 5, 2006, and J.S. Grover and J.P. Marion on October 27, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard disk stamped W 457 1982 set in top of the east end of the north abutment of bridge on exit ramp from State Route 17C to State Route 201 south in Johnson City, NGS PID NA1897. Elevation is 835.69 feet above NGVD 29. To convert to NAVD 88, subtract 0.45 feet from elevations at this site.



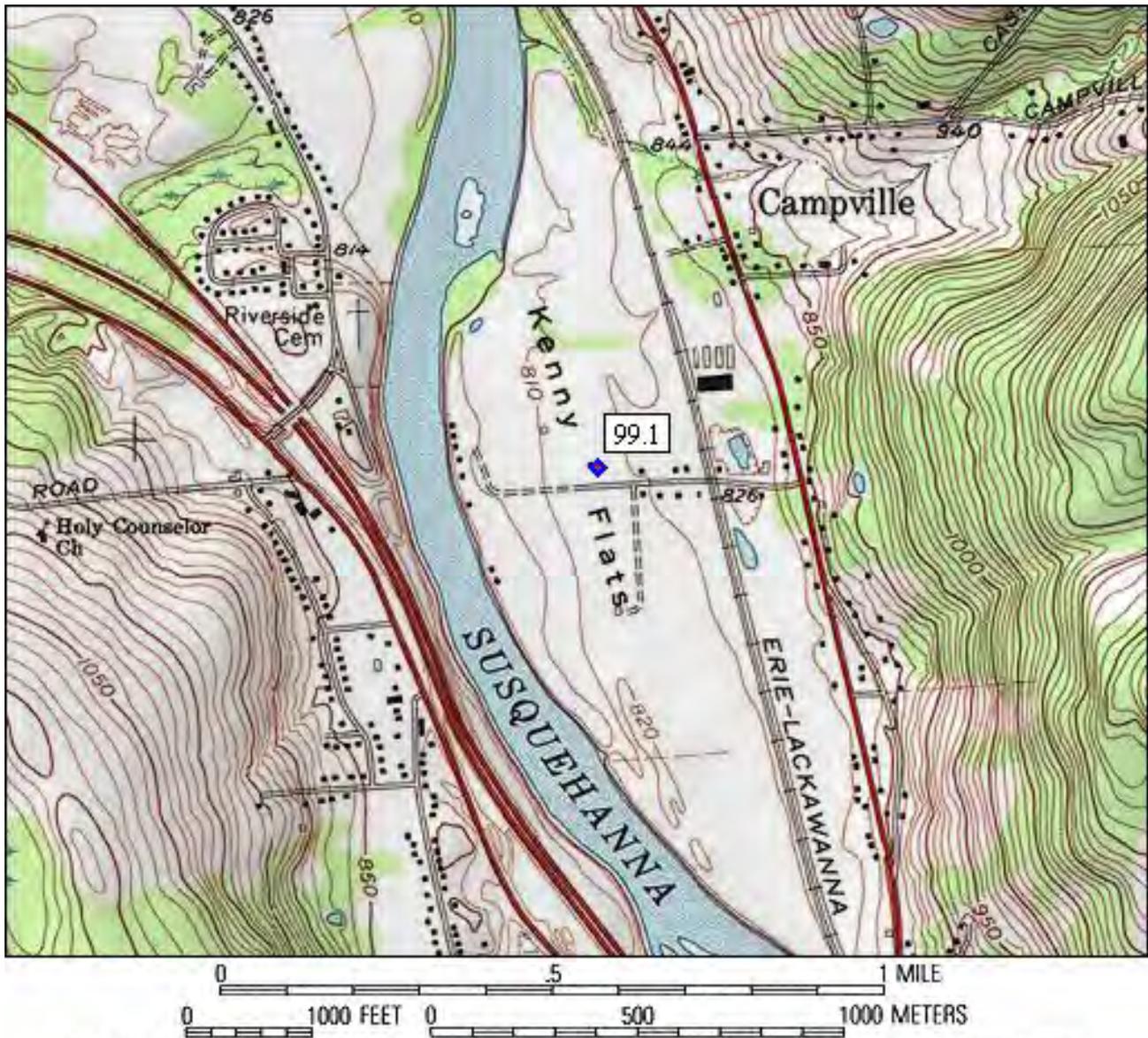
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Binghamton West quad map with location of site 98, Susquehanna River at Grand Avenue at Johnson City, NY



High-water mark 98.1 is an excellent mud line 5.5 feet above the ground, on the upstream side of house at 525 Grand Avenue, on the right bank, at elevation 839.38 feet above NGVD 29 (lat 42°06'33.7", long 75°58'14.7").

SITE DESCRIPTION
<b>Site 99:</b> Susquehanna River at Kinney Road at Campville, NY
<b>Site Location:</b> Kinney Road, lat 42°04'58.0", long 76°09'09.3", NAD 83
Town of Owego, Tioga County, NY
Apalachin USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Two high-water marks were surveyed: two mud lines.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by J.S. Grover and A.G. Morgan on August 4, 2006.
High-water-mark elevations were surveyed from a benchmark that is an NGS standard metal rod stamped D 458 1982 driven into ground, 5.8 miles west along State Route 17C from the junction of State Route 26 in Endicott to the second (northern) intersection with Belknap Road, 96 feet southeast of southeast corner of house at 396 Belknap Road, 2 feet north of utility pole number 951 122-2, NGS PID NB1566. Elevation is 852.71 feet above NGVD 29. To convert to NAVD 88, subtract 0.50 feet from elevations at this site.



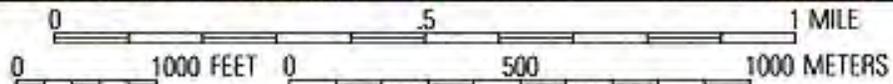
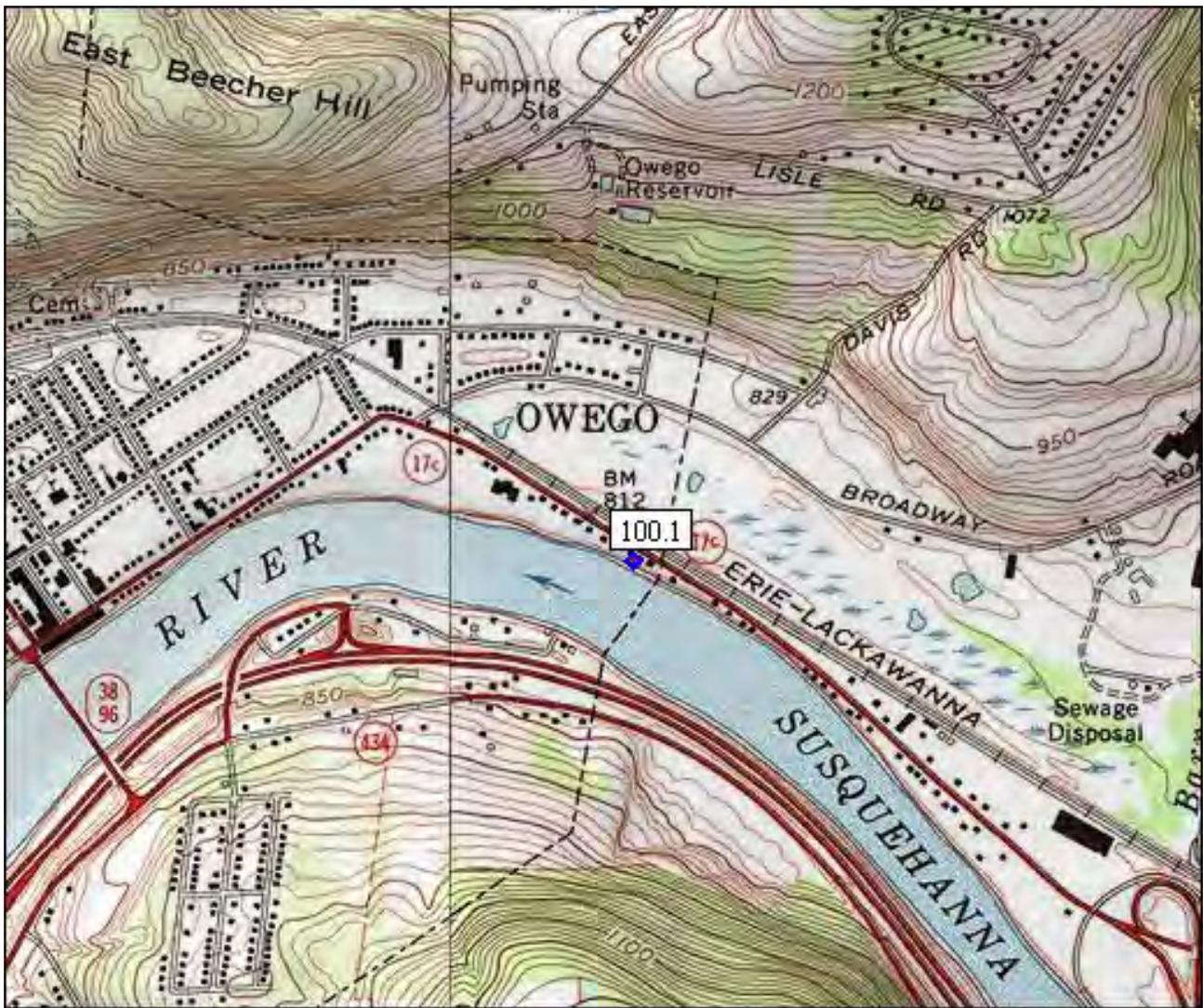
Map created with TOPO!© ©2003 National Geographic ([www.nationalgeographic.com/topo](http://www.nationalgeographic.com/topo))

Apalachin quad map with location of site 99, Susquehanna River at Kinney Road at Campville, NY



High-water mark 99.1 is a good mud line 6.8 feet above the ground, on the upstream side of house at 290 Kinney Road, on the right bank, at elevation 821.77 feet above NGVD 29 (lat 42°04'58.0", long 76°09'09.3").

SITE DESCRIPTION
<b>Site 100:</b> Susquehanna River at State Route 17C (5th Avenue) at Owego, NY
<b>Site Location:</b> State Route 17C, lat 42°06'13.5", long 76°14'40.0", NAD 83
Village of Owego, Tioga County, NY
Apalachin USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by C.O. Szabo and J.S. Grover on August 5, 2006, and C.O. Szabo and J.P. Marion on October 25, 2006.
High-water-mark elevations were surveyed from a benchmark that is a USGS standard disk stamped 818 ALBANY 1898 set vertically 1.8 feet above the ground in the northwest face of the west corner of the Tioga County Courthouse, 26 feet northeast of Park street, in Owego, NGS PID NB0281. Elevation is 818.68 feet above NGVD 29. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



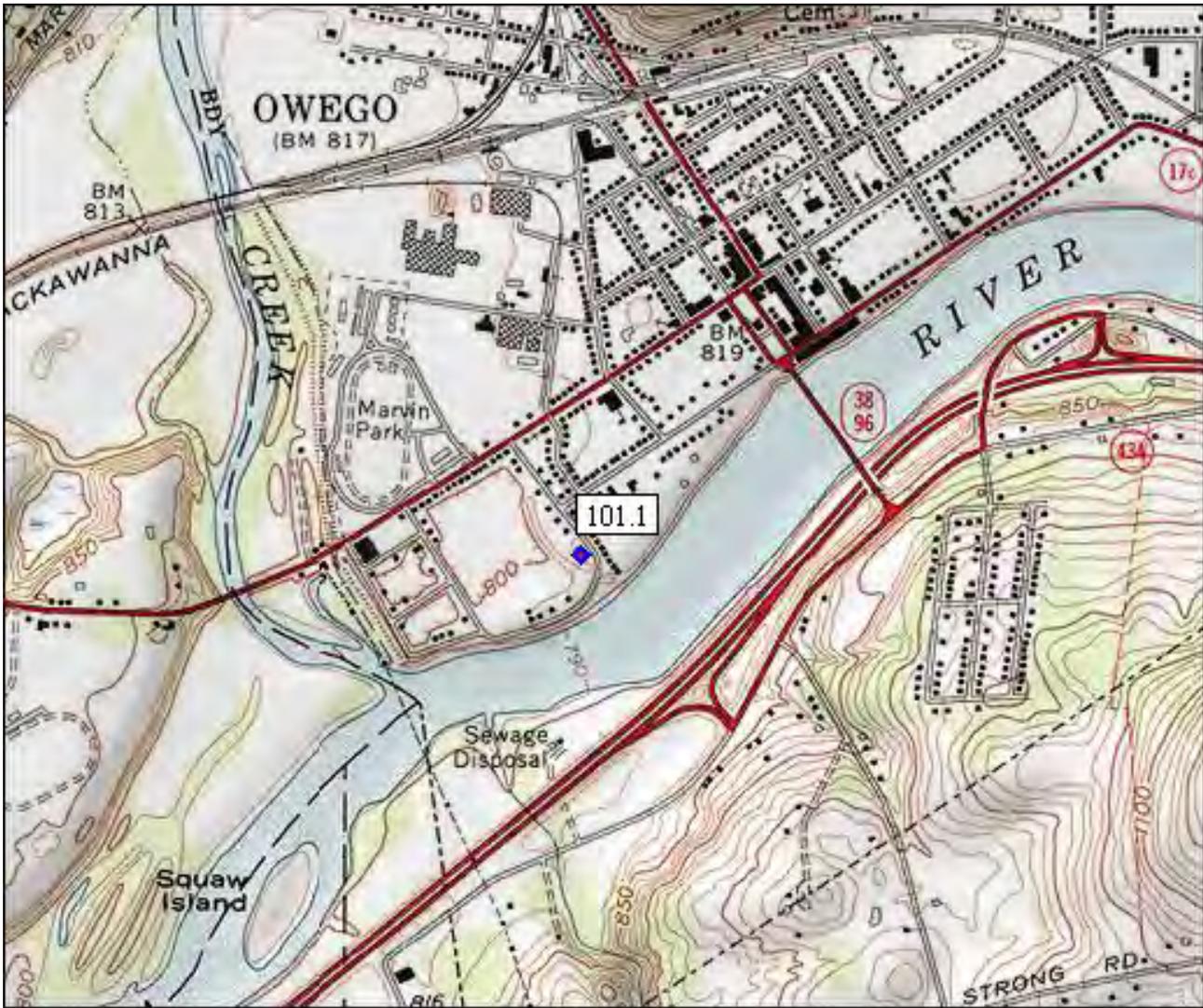
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Apalachin quad map with location of site 100, Susquehanna River at State Route 17C (5th Avenue) at Owego, NY



High-water mark 100.1 is an excellent mud line 2.5 feet above the ground, on the upstream side of house at 596 5th Avenue, on the right bank, at elevation 814.81 feet above NGVD 29 (lat 42°06'13.5", long 76°14'40.0").

SITE DESCRIPTION
<b>Site 101:</b> Susquehanna River at William Street at Owego, NY
<b>Site Location:</b> William Street, lat 42°05'51.9", long 76°16'02.2", NAD 83
Village of Owego, Tioga County, NY
Owego USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 22, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 24, 2006. To convert to NAVD 88, subtract 0.54 feet from elevations at this site.



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Owego quad map with location of site 101, Susquehanna River at William Street at Owego, NY



High-water mark 101.1 is an excellent mud line 1.2 feet above the ground, on the streamward side of a detached garage streamward from house at 29 William Street, on the right bank, at elevation 812.24 feet above NGVD 29 (lat 42°05'51.9", long 76°16'02.2").

## SITE DESCRIPTION

**Site 102:** Susquehanna River at State Route 17 at Nichols, NY

**Site Location:** State Route 17, lat 42°01'26.5", long 76°21'41.7", NAD 83

Town of Nichols, Tioga County, NY

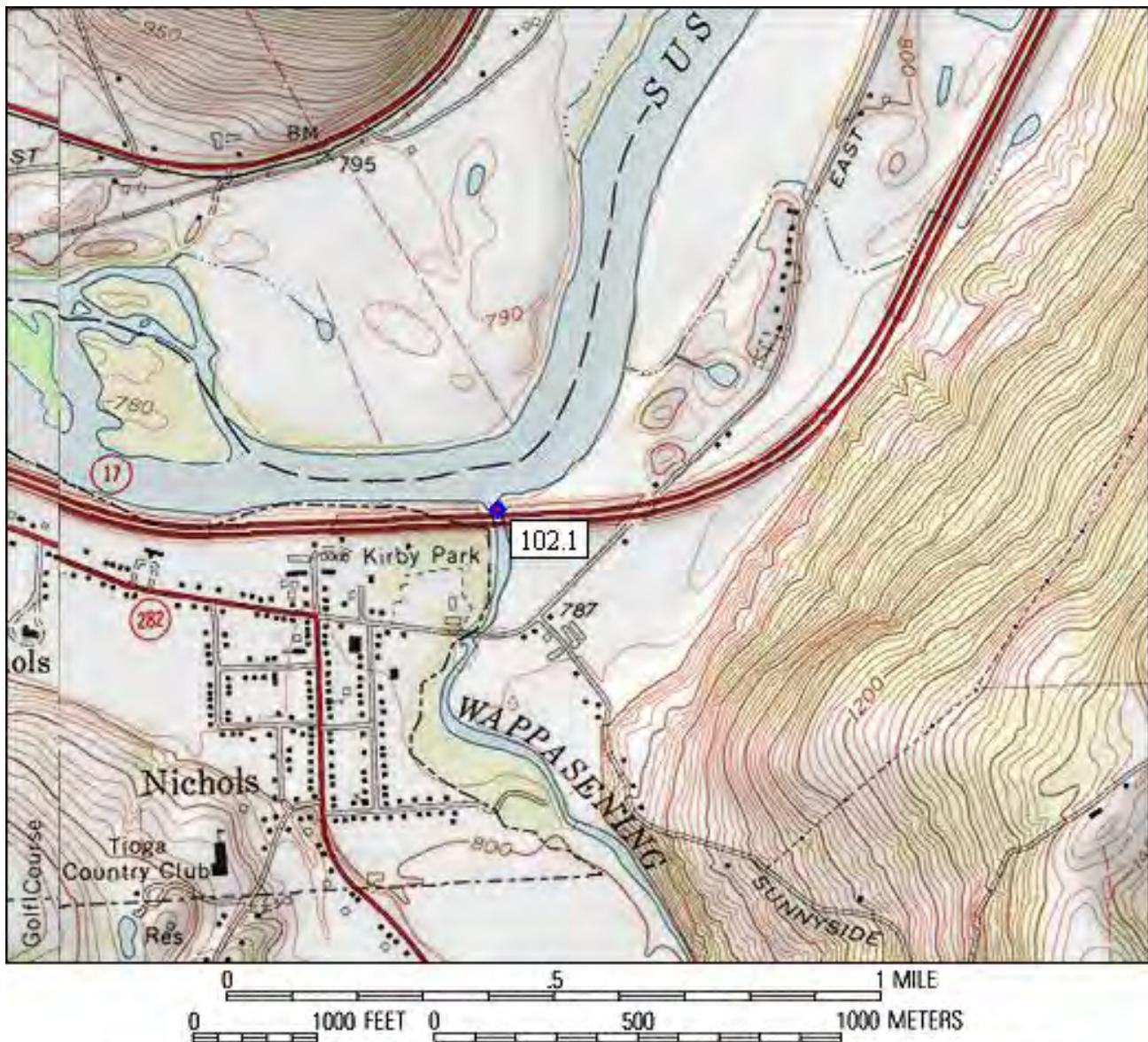
Owego USGS 7.5' Topographic Quadrangle

**High-Water Marks:** One high-water mark was surveyed: one seed line.

Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY

Marks were surveyed and photos taken by J.S. Grover and A.G. Morgan on August 3, 2006, and J.P. Marion and R.J. Mundy on August 10, 2007.

High-water-mark elevations were surveyed from a benchmark that is an NGS standard metal rod stamped N 458 1982 driven into ground, 0.6 miles east along State Route 17C from the junction of State Route 282 in Smithboro, at the southeast corner of first house east of intersection of Depew Road and State Route 17C (house number 2573), 53 feet north-northeast of the centerline of the highway, and 3 feet south-southwest of the southeast corner of the house, NGS PID NB1575. Elevation is 815.40 feet above NGVD 29. To convert to NAVD 88, subtract 0.57 feet from elevations at this site.



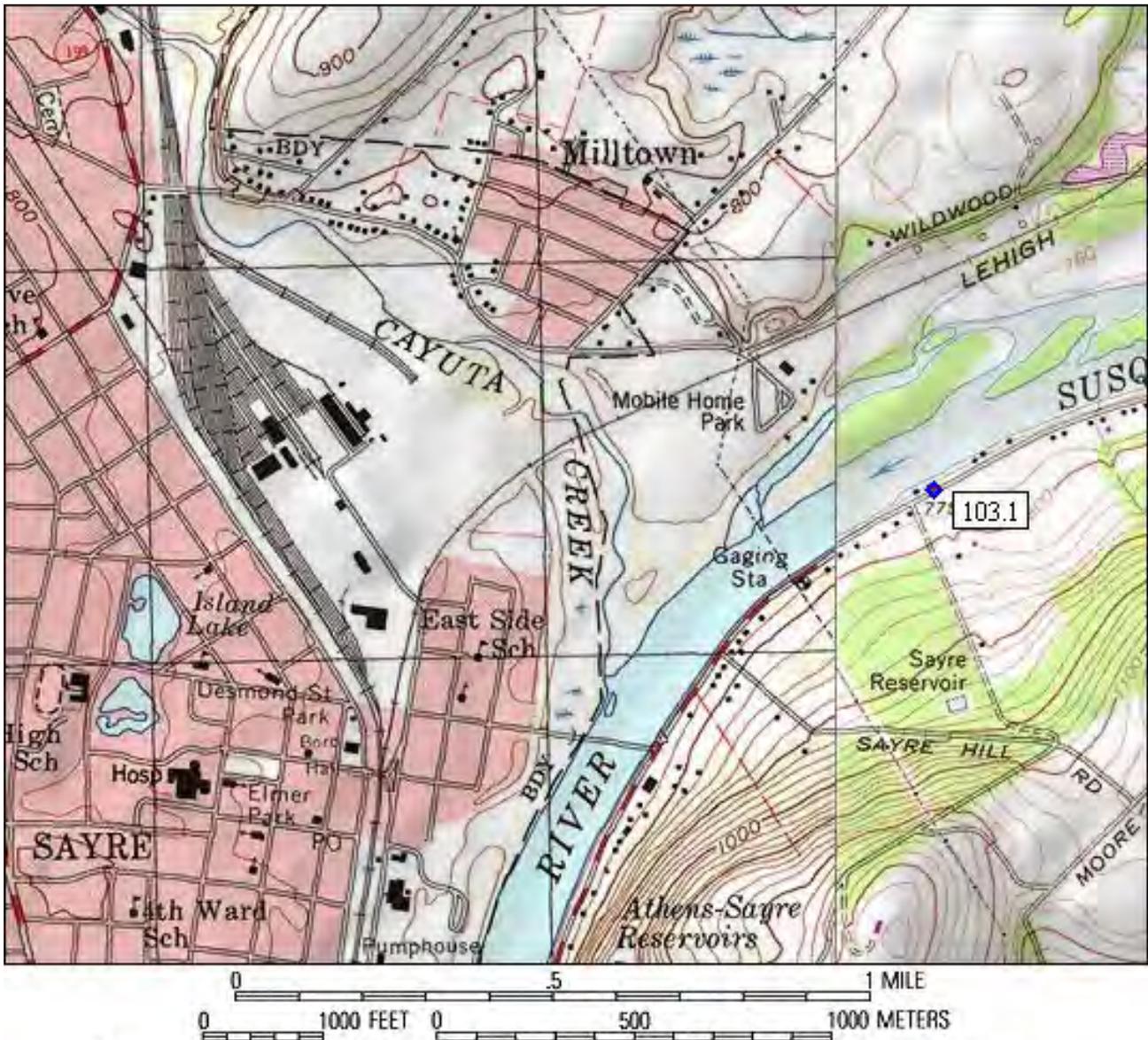
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Owego quad map with location of site 102, Susquehanna River at State Route 17 at Nichols, NY



High-water mark 102.1 is an excellent seed line 1.0 foot above the ground, on the east abutment of the eastbound (upstream) State Route 17 bridge over Wappasening Creek, on the left bank, at elevation 795.01 feet above NGVD 29 (lat 42°01'26.5", long 76°21'41.7").

SITE DESCRIPTION
<b>Site 103:</b> Susquehanna River at Riverside Drive at Sayre, PA
<b>Site Location:</b> Riverside Drive, lat 41°59'13.3", long 76°29'47.8", NAD 83
Township of Athens, Bradford County, PA
Litchfield USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> Seven high-water marks were surveyed: five debris lines, one mud line, and one seed line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were surveyed and photos taken by W.F. Coon, J.S. Grover, and A.G. Morgan on August 2, 2006.
High-water-mark elevations were surveyed from a reference mark that is the USGS stream-gaging station 01515000 reference mark RM 8. Elevation is 766.56 feet above NGVD 29. To convert to NAVD 88, subtract 0.59 feet from elevations at this site.

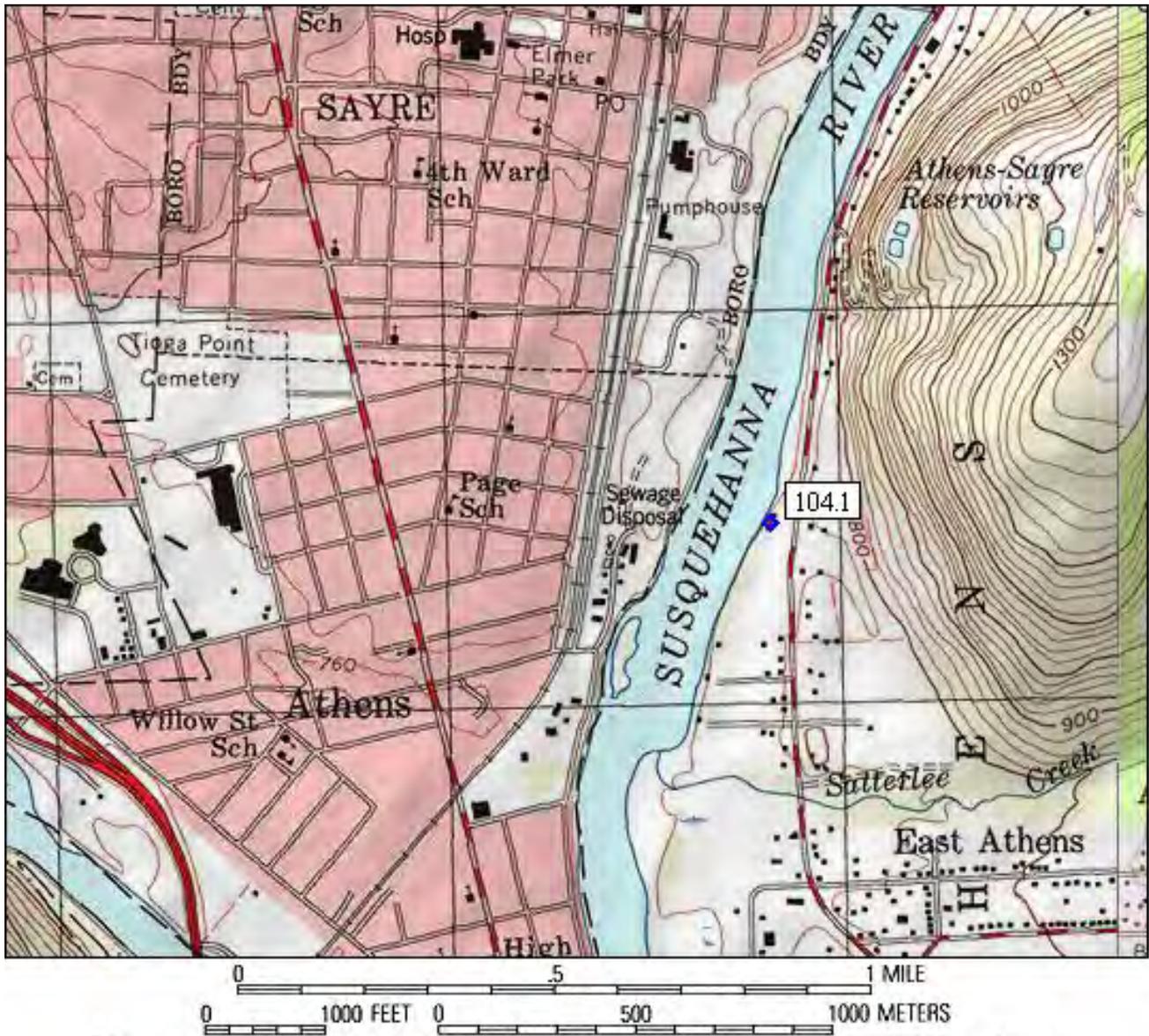


Litchfield quad map with location of site 103, Susquehanna River at Riverside Drive at Sayre, PA



High-water mark 103.1 is a good seed line 1.5 feet above the ground, on the downstream side of house at 179 Riverside Drive, on the left bank, at elevation 767.48 feet above NGVD 29 (lat 41°59'13.3", long 76°29'47.8").

SITE DESCRIPTION
<b>Site 104:</b> Susquehanna River at Riverside Drive at Athens, PA
<b>Site Location:</b> Riverside Drive, lat 41°58'09.3", long 76°30'36.9", NAD 83
Township of Athens, Bradford County, PA
Sayre USGS 7.5' Topographic Quadrangle
<b>High-Water Marks:</b> One high-water mark was surveyed: one mud line.
Photos and GPS readings were taken at each high-water mark. Field notes are filed at the USGS office in Troy, NY
Marks were flagged and photos taken by C.O. Szabo and URS on July 22, 2006.
High-water-mark elevations were surveyed by URS using DGPS methods on August 24, 2006. To convert to NAVD 88, subtract 0.59 feet from elevations at this site.



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Sayre quad map with location of site 104, Susquehanna River at Riverside Drive at Athens, PA



High-water mark 104.1 is an excellent mud line 2.2 feet above the ground, on the landward side of a detached garage downstream and landward from house at 815 Riverside Drive, on the left bank, at elevation 764.19 feet above NGVD 29 (lat 41°58'09.3", long 76°30'36.9").

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**Appendix 2. Comparison of High-Water Marks and Photographs at Selected Study Sites, Floods of September 18–19, 2004, and June 26–29, 2006, Delaware River Basin, New York**

Site 25: Little Beaver Kill at Pearl Street at Livingston Manor, NY  
Flood of June 26-29, 2006



High-water mark 25.1 at elevation 1,426.14 feet above NGVD 29.

Flood of September 18-19, 2004



High-water mark at same location at elevation 1,424.60 feet above NGVD 29 (Site 36, Brooks, 2005).

Site 30: Willowemoc Creek at County Route 124 (Stewart Avenue) at Roscoe, NY  
Flood of June 26-29, 2006



High-water mark 30.1 at elevation 1,286.50 feet above NGVD 29.

Flood of September 18-19, 2004



High-water mark at same location at elevation 1,284.35 feet above NGVD 29 (Site 39, Brooks, 2005).

Site 40: East Branch Delaware River at Norfolk Southern Railway at Hancock, NY  
Flood of June 26-29, 2006



High-water mark 40.3 at elevation 907.95 feet above NGVD 29.

Flood of September 18-19, 2004



High-water mark at same location at elevation 904.93 feet above NGVD 29 (Site 17, Brooks, 2005).

Site 60: Delaware River at Skinners Falls West Road at Skinners Falls, NY  
Flood of June 26-29, 2006



High-water mark 60.1 at elevation 725.36 feet above NGVD 29. High-water mark 60.1 is 0.7 foot lower than elevation indicated by surveying rod.

Flood of September 18-19, 2004



High-water mark at same location at elevation 720.60 feet above NGVD 29 (Site 22, Brooks, 2005).

Site 61: Delaware River at Narrowsburg, NY  
Flood of June 26-29, 2006



High-water mark 61.7 at elevation 692.29 feet above NGVD 29.

Flood of September 18-19, 2004



High-water mark at same location at elevation 688.27 feet above NGVD 29 (Site 24, Brooks, 2005).

Site 66: Delaware River at U.S. Routes 6 and 209 (Pike Street) at Port Jervis, NY  
Flood of June 26-29, 2006



High-water mark 66.1 at elevation 438.67 feet above NGVD 29.

Flood of September 18-19, 2004



High-water mark at same location at elevation 436.51 feet above NGVD 29 (Site 32, Brooks, 2005).

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**Appendix 3. Selected Photographs of Flood Damage During the Flood of June 26–29, 2006, Mohawk, Delaware, and Susquehanna River Basins, New York**

Mohawk River Basin



The Dolgeville Restaurant located along the banks of the East Canada Creek in Dolgeville, NY, collapses from floodwaters on June 28, 2006.

Photos courtesy of WKTV NewsChannel 2 Staff.





River Street in Fort Plain, NY, on June 28, 2006. Photo courtesy of Julie Sadler.



Erie Canal Lock 14 at Canajoharie, NY, on June 28, 2006. Photo courtesy of Ryan Peterson and Valley View Aviation.



Canajoharie, NY, on June 28, 2006. Photo courtesy of Ryan Peterson and Valley View Aviation.



Beech-Nut factory, Canajoharie, NY, on June 28, 2006. Photo courtesy of CBS6News/WRGBTV.



Church Street in Canajoharie, NY, on June 28, 2006. Photo courtesy of CBS6News/WRGBTV.



Erie Canal Lock 13 between Canajoharie and Fonda/Fultonville, NY, on June 28, 2006. Photo courtesy of Ryan Peterson and Valley View Aviation.



Fonda Speedway near Fonda, NY, on June 28, 2006. Photo courtesy of Ryan Peterson and Valley View Aviation.



Erie Canal Lock 12 at Tribes Hill, NY, on June 29, 2006. Photo courtesy of New York State Canal Corporation.

Delaware River Basin



Little Beaver Kill floodwaters inundate Maiden Lane in Livingston Manor, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Tara Engberg.



Cattail Brook floodwaters collapse house on Finch Street in Livingston Manor, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Tara Engberg.



Livingston Manor, NY, flooded by Willowemoc Creek on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Jeff Goulding.



Willowemoc Creek floodwaters surround gas station along State Route 17 in Roscoe, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record.



Margaretville, NY, on June 28, 2006. Photo courtesy of Village of Margaretville. Photo courtesy of Franz Edlinger – [www.eOnePhoto.com](http://www.eOnePhoto.com)



Margaretville, NY, on June 28, 2006. Photo courtesy of Village of Margaretville. Photo courtesy of Franz Edlinger – [www.eOnePhoto.com](http://www.eOnePhoto.com)



Margaretville, NY, on June 28, 2006. Photo courtesy of Village of Margaretville. Photo courtesy of Franz Edlinger – [www.eOnePhoto.com](http://www.eOnePhoto.com)



Margaretville, NY, on June 28, 2006. Photo courtesy of Village of Margaretville. Photo courtesy of Franz Edlinger – [www.eOnePhoto.com](http://www.eOnePhoto.com)



Delaware Street in Walton, NY, on June 27, 2006. Photo courtesy of The Daily Star, taken by reader: Debra Valentine.



Delaware Street in Walton, NY, on June 27, 2006. Photo courtesy of The Daily Star, taken by reader: John M. Thurgood.



Main Street in Walton, NY, on June 28, 2006. Photo courtesy of Town of Walton.



House on Pines Brook Road in Walton, NY, on July 9, 2006. Photo courtesy of The Daily Star, taken by staff photographer Anita Briggs.



House submerged by East Branch Callicoon Creek near Stone Arch Bridge (Sickmiller Road), near Jeffersonville, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Helen Diehl.



Creamery Road bridge over Callicoon Creek in Callicoon, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record.



Narrowsburg, NY, inundated by the floodwaters of the Delaware River on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Jeff Goulding.



Narrowsburg, NY, inundated by the floodwaters of the Delaware River on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Jeff Goulding.



Delaware River at Cohecton, NY, on June 28, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Jeff Goulding.



West End Beach basketball courts in Port Jervis, NY, on June 29, 2006. Photo courtesy of the Times Herald-Record, taken by staff photographer Dominick Fiorille.

Susquehanna River Basin



Collapsed State Route 357 bridge over Ouleout Creek in Town of Franklin, NY, on July 2, 2006. Photo courtesy of The Daily Star, taken by photographer Julie Lewis.



Unadilla River floodwaters surround house on the corner of State Routes 8 and 80 in New Berlin, NY, on June 28, 2006. Photo courtesy of The Daily Star, taken by photographer Tom Grace.



Chenango River inundates East Main Street in Norwich, NY, on June 28, 2006. Photo courtesy of The Daily Star, taken by photographer Tom Grace.



Fly Meadow Creek undercuts County Route 4 in Oxford, NY, on June 28, 2006. Photo courtesy of The Daily Star, taken by reader Paul Ewen.



Flooded parking lot of Home Depot and Hannaford Supermarket on Oneonta's southside, on June 28, 2006. Photo courtesy of The Daily Star, taken by photographer Jake Palmateer.



Market Street in Oneonta, NY, on June 27, 2006. Photo courtesy of The Daily Star, taken by photographer Anita Briggs.



Oneonta, NY, municipal complex and wastewater treatment plant taken from Army National Guard helicopter on June 29, 2006. Photo courtesy of The Daily Star, taken by photographer Anita Briggs.



Interstate Route 88 looking east towards Oneonta, NY, taken from Army National Guard helicopter on June 29, 2006. Photo courtesy of The Daily Star, taken by photographer Anita Briggs.



Otego, NY, taken from Army National Guard helicopter on June 29, 2006. Photo courtesy of The Daily Star, taken by photographer Anita Briggs.



State Route 7 between Unadilla and Sidney, NY, on June 28, 2006. Photo courtesy of The Daily Star, taken by reader, Kayla McCumber.



Town of Kirkwood, NY, on June 29, 2006. Photo courtesy of Laurie P. Ryan.



Frito-Lay North America, Inc. plant, Town of Kirkwood, NY, on June 28, 2006. Photo courtesy of Laurie P. Ryan.



Exchange Street bridge, Binghamton, NY, on June 28, 2006. Photo courtesy of Jim DeVona.



Washington Street pedestrian bridge and floodwall along Conklin Avenue, Binghamton, NY, on June 28, 2006. Photo courtesy of Jim DeVona.



Riverside Drive bridge, Binghamton, NY, on June 28, 2006. Photo courtesy of Jim DeVona.



Johnson City, NY, on June 29, 2006. Photo courtesy of Laurie P. Ryan.



Owego, NY, on June 29, 2006. Photo courtesy of Laurie P. Ryan.

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