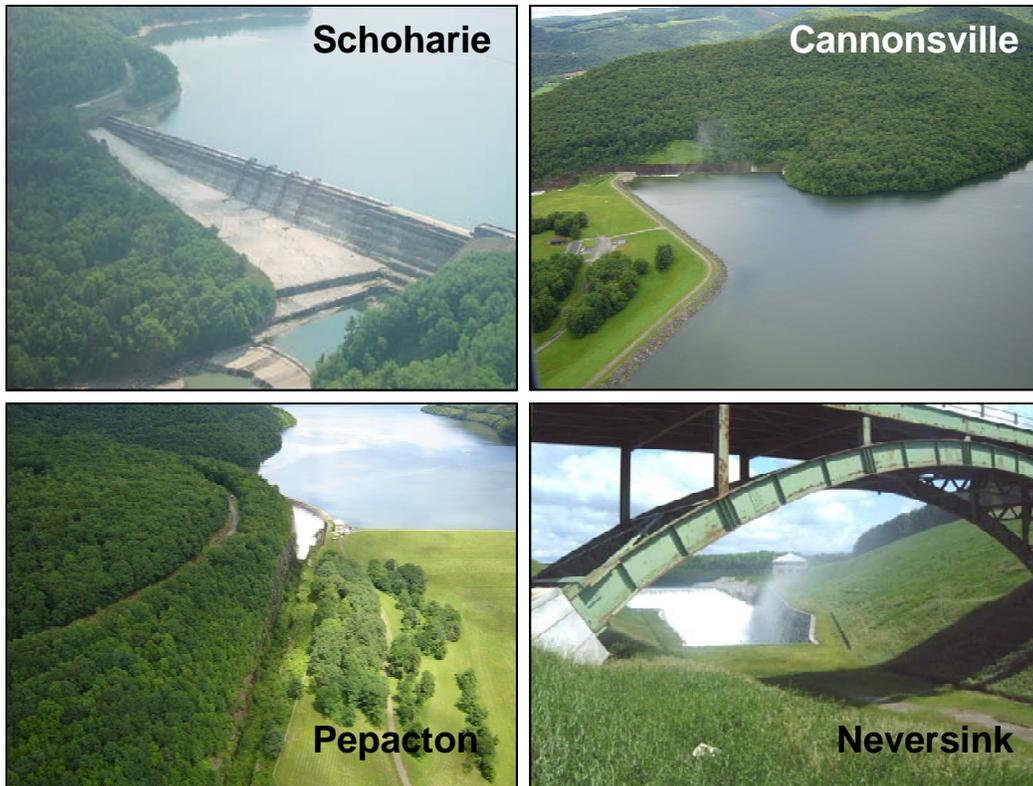


# City of New York West of Hudson Hydroelectric Project



## Project No. 13287-000 Pre-Application Document Volume 2 of 2 (Figures)

*Schoharie, Cannonsville, Pepacton, and Neversink Developments*



August 13, 2009

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# New York City's Water Supply System

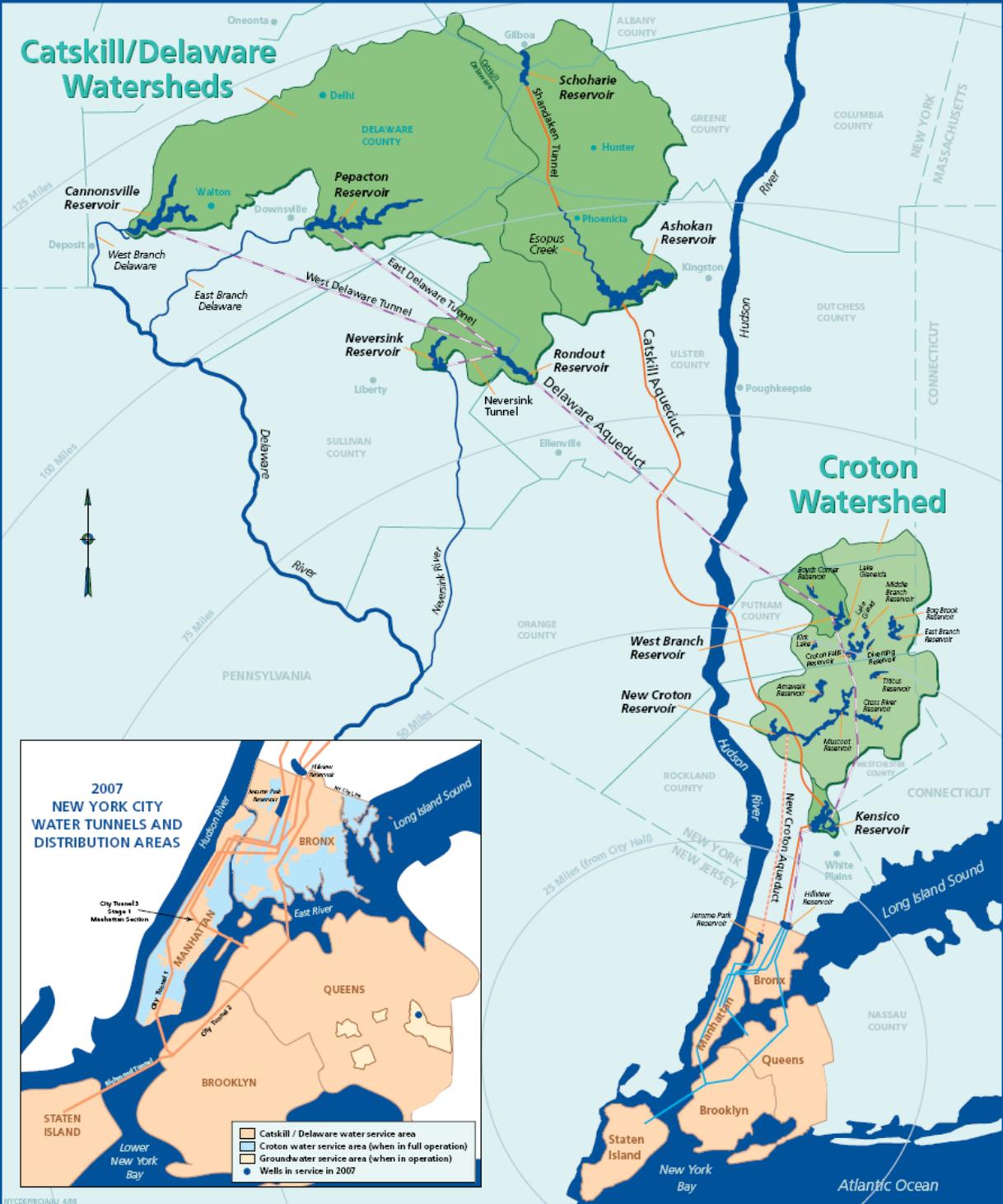
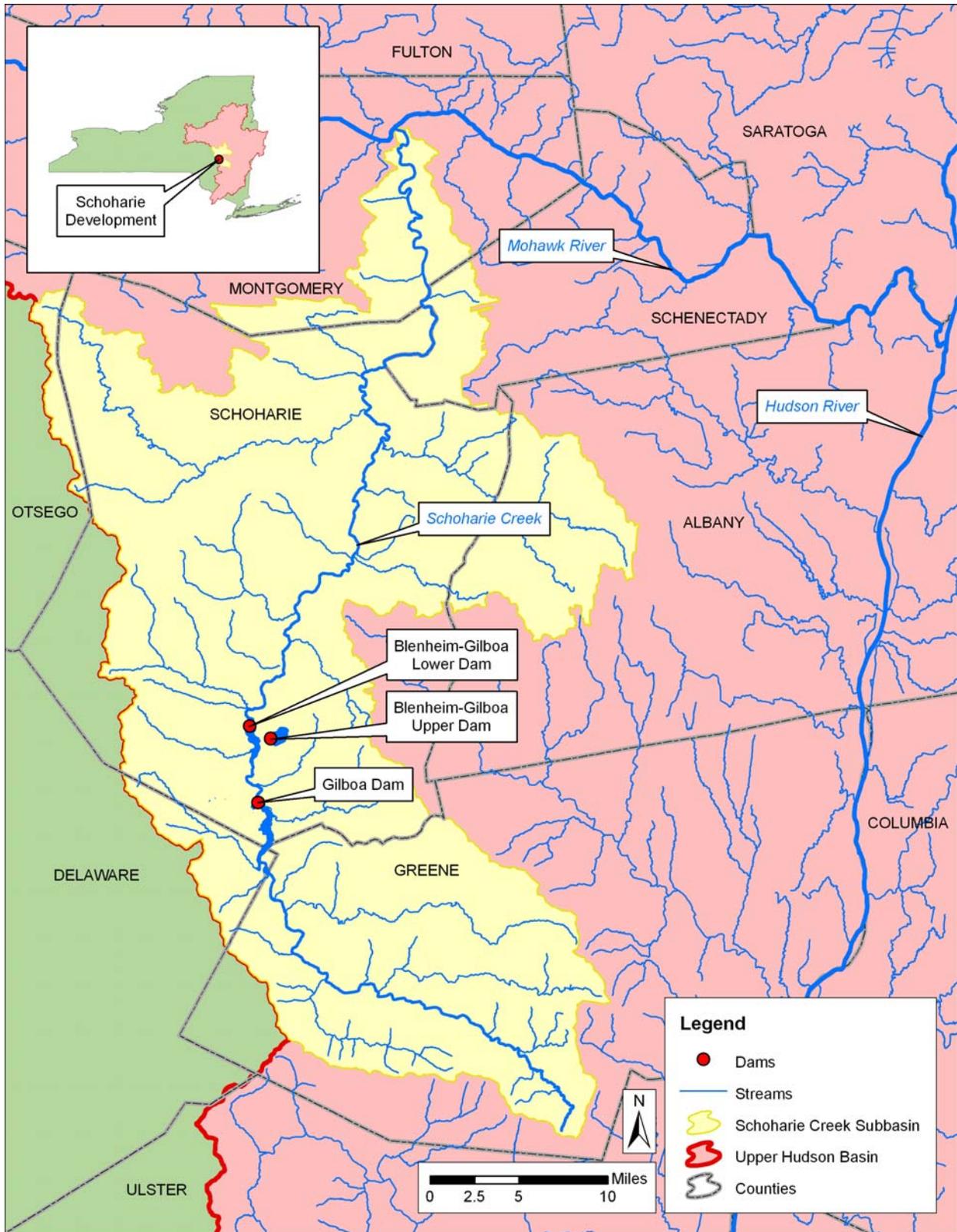


Figure 1.0-1: Schematic of New York City's Water Supply System



**Figure 3.1.1-1: Location Map of Schoharie Development**

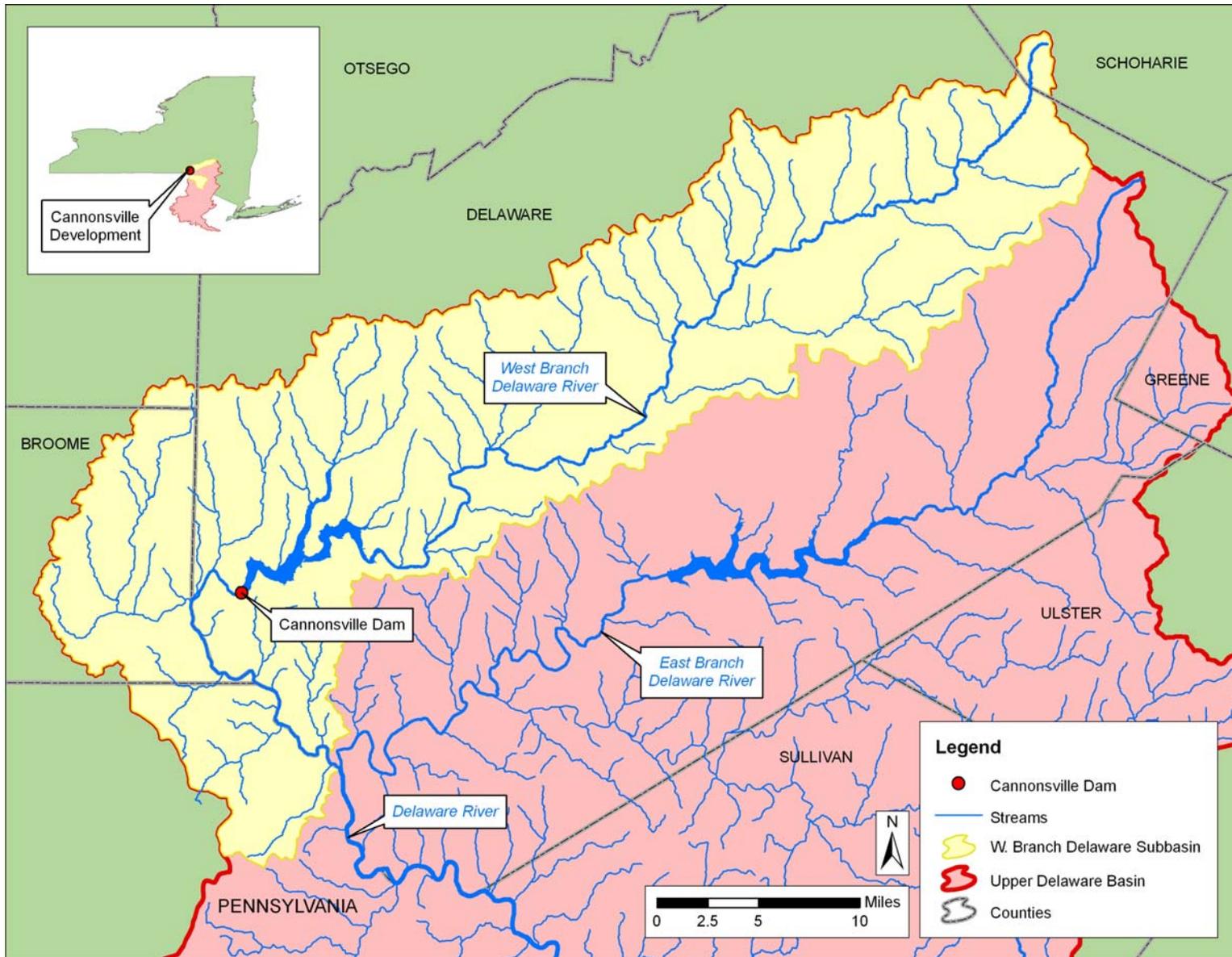
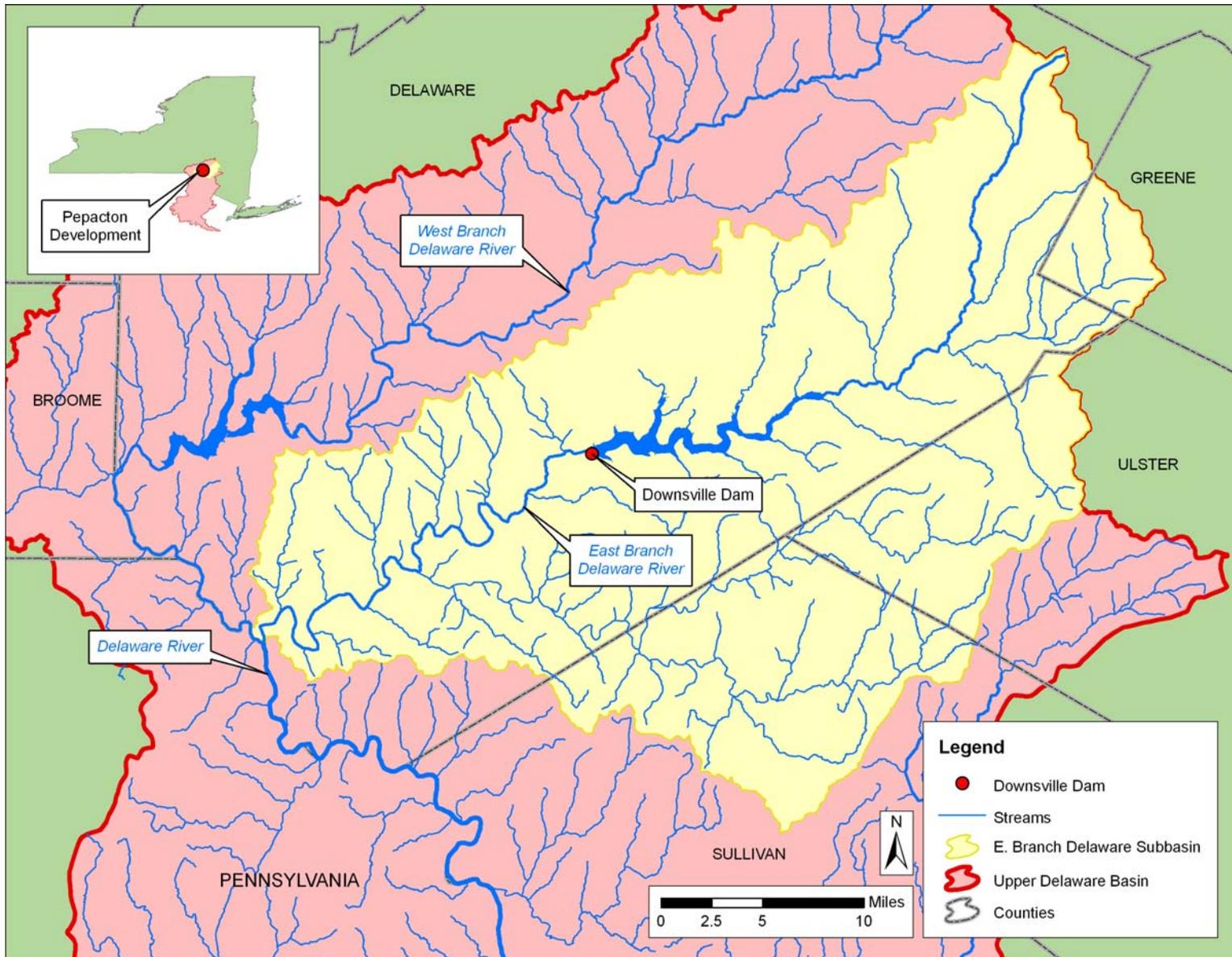
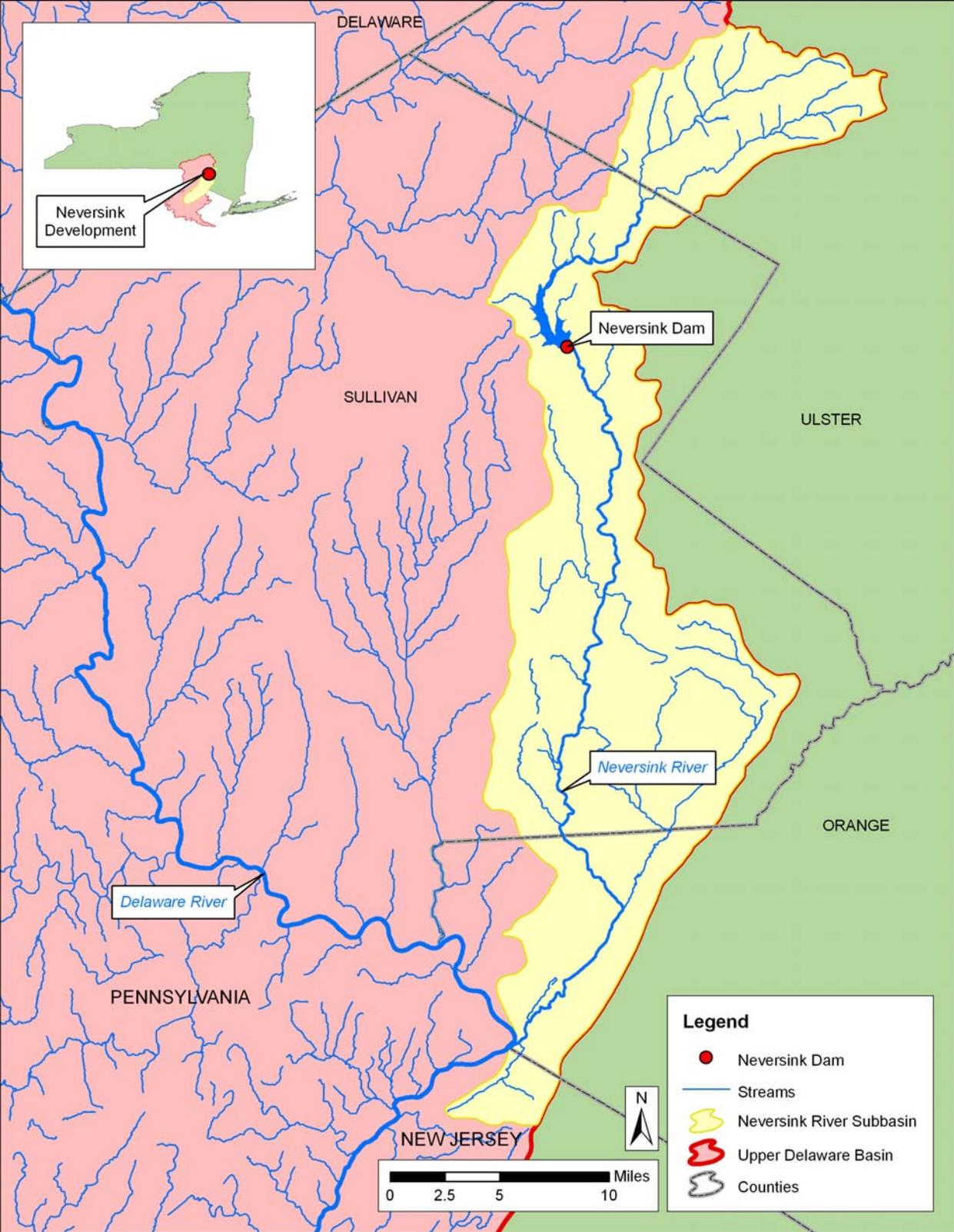


Figure 3.1.2-1: Location Map of Cannonsville Development



**Figure 3.1.3-1: Location Map of Pepacton Development**



**Figure 3.1.4-1: Location Map of Neversink Development**

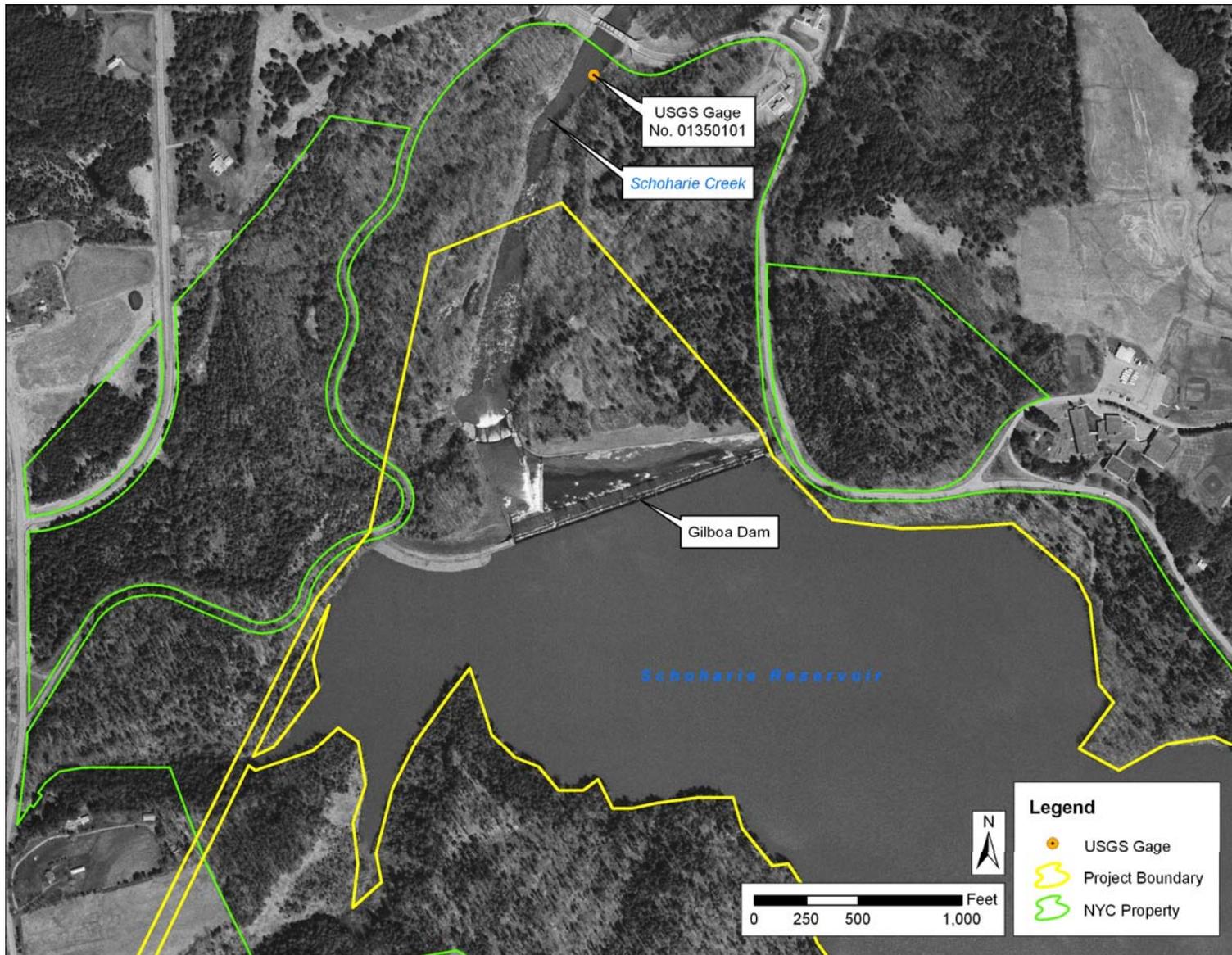


Figure 3.2.1-1: Schoharie Development Site Map

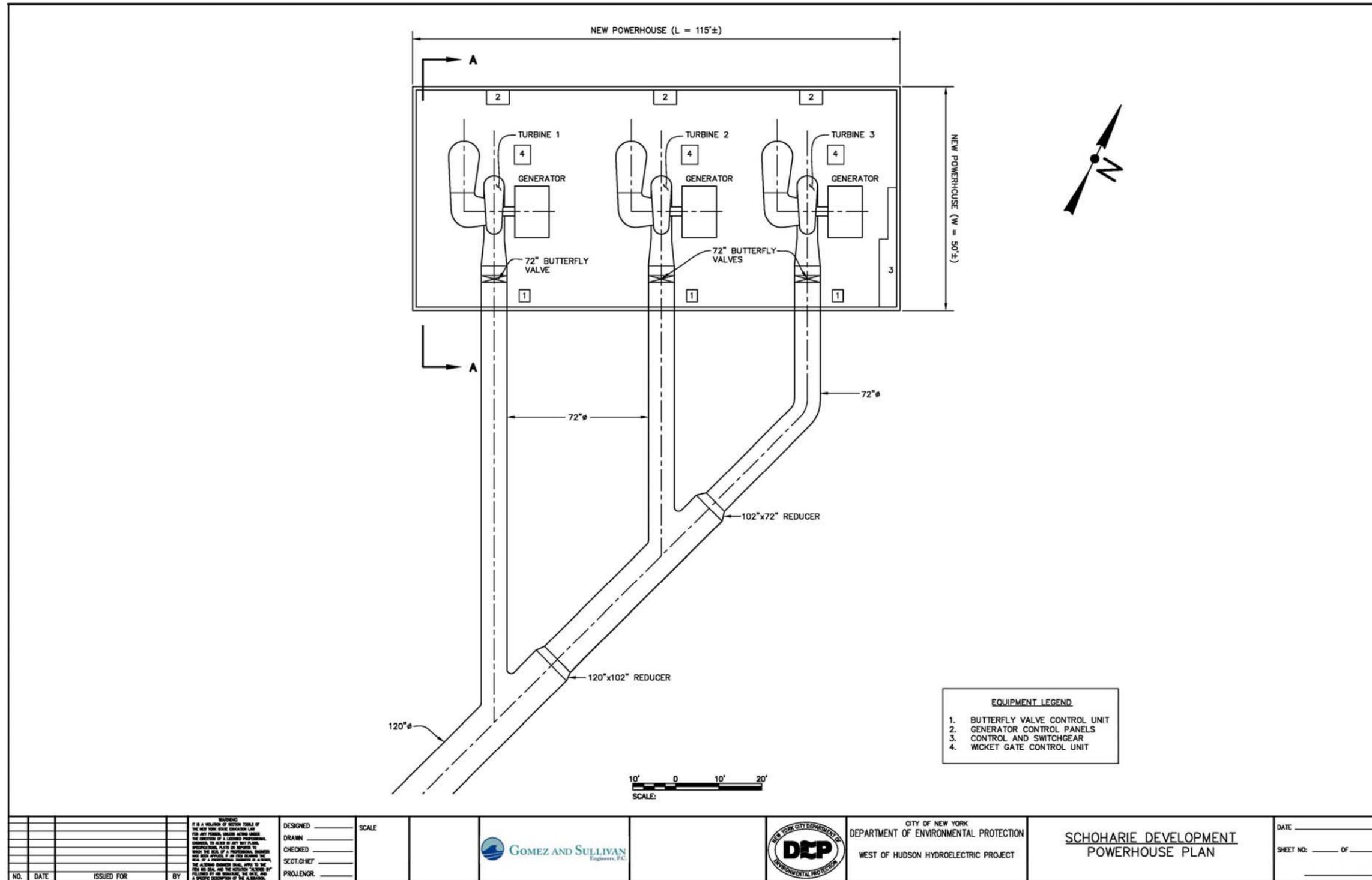
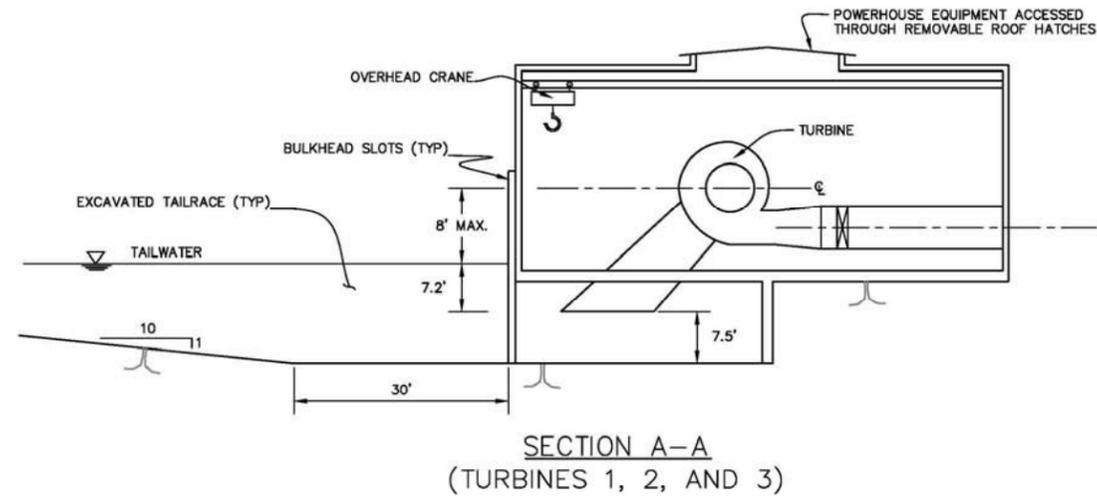
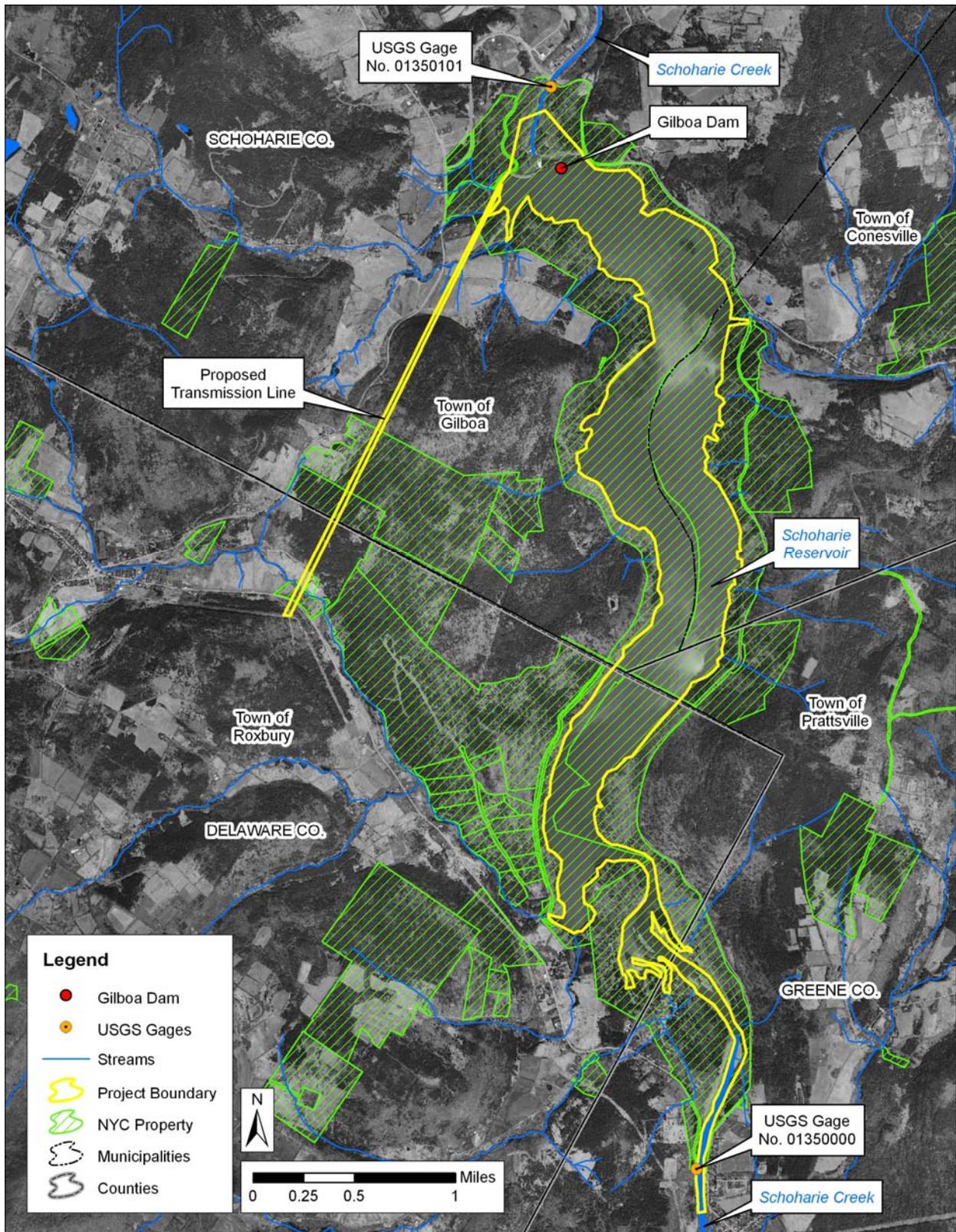


Figure 3.2.1-2: Schoharie Development Powerhouse Plan



|  |      |            |               |                |             |  |   |   |            |                          |
|--|------|------------|---------------|----------------|-------------|--|---|---|------------|--------------------------|
| <small>WARNING</small><br>IT IS A VIOLATION OF SECTION 205-B OF THE NEW YORK STATE CONSUMER LAW FOR ANY PERSON, UNDER ANY NAME OR ASSUMED NAME, TO ENGAGE IN ANY BUSINESS, TRADE, OR SERVICE, TO WHICH THE SALE OF A PROFESSIONAL SERVICE OR ANY OTHER SERVICE IS RELATED, WITHOUT THE SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT. THE ABOVE WARNING SHALL APPLY TO THE TIME AND FROM THE DATE OF THE SIGNATURE OF THE PROFESSIONAL ENGINEER OR ARCHITECT. |      |            |               | DESIGNED _____ | SCALE _____ | <br>GOMEZ AND SULLIVAN<br>Engineers, P.C. | <br>CITY OF NEW YORK<br>DEPARTMENT OF ENVIRONMENTAL PROTECTION<br>WEST OF HUDSON HYDROELECTRIC PROJECT | SCHOHARIE DEVELOPMENT<br>PROFILE THROUGH TURBINES | DATE _____ |                          |
|  |      |            | DRAWN _____   |                |             |  |   |   |            | SHEET NO: _____ OF _____ |
|  |      |            | CHECKED _____ |                |             |  |   |   |            |                          |
| NO.  | DATE | ISSUED FOR | BY            | PROJ. ENGR.    |             |  |   |   |            |                          |

Figure 3.2.1-3: Schoharie Development Profile Through Turbines



**Figure 3.2.1-4: Schoharie Development Project Boundary Map**

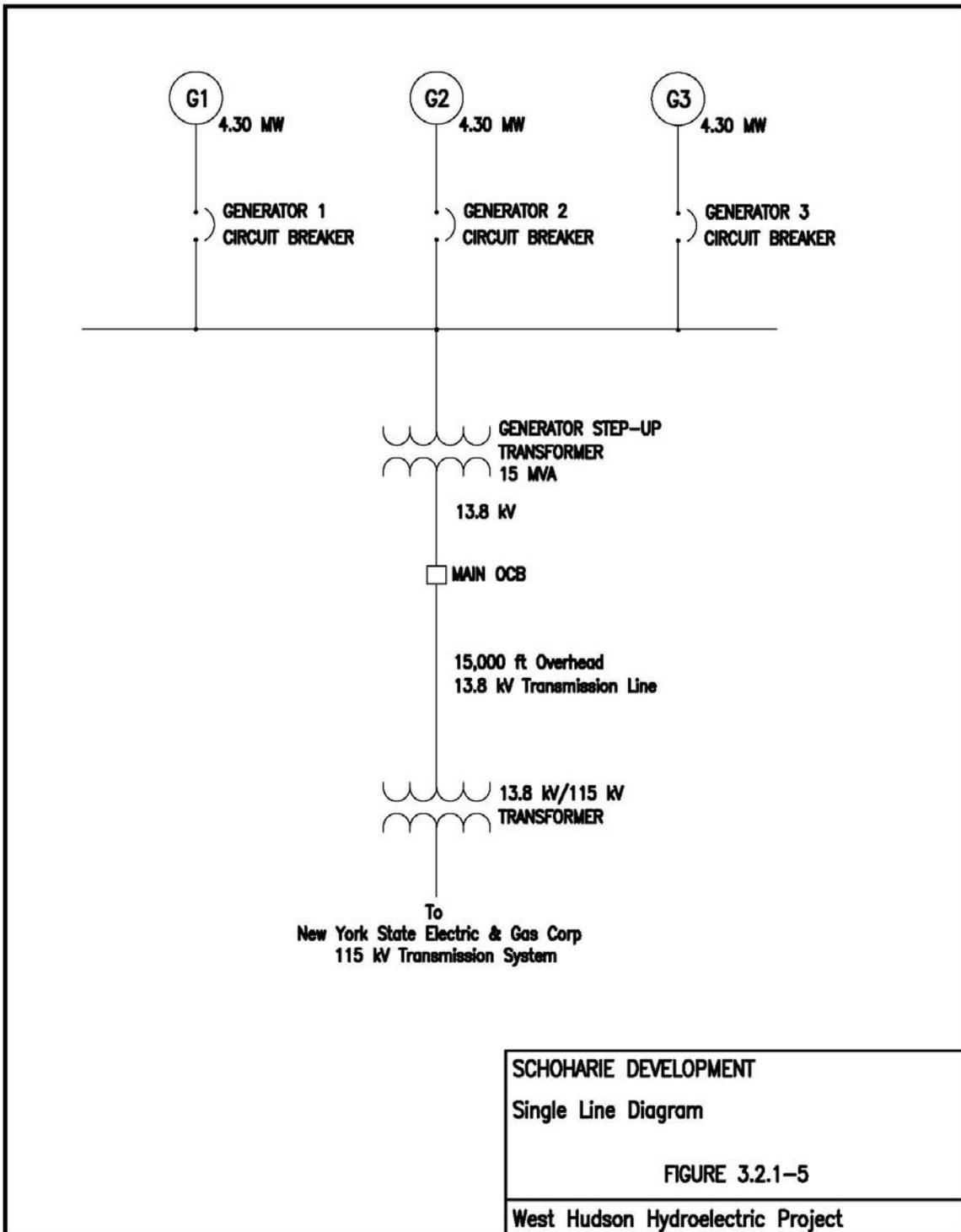


Figure 3.2.1-5: Schoharie Development Single-Line Electrical Diagram

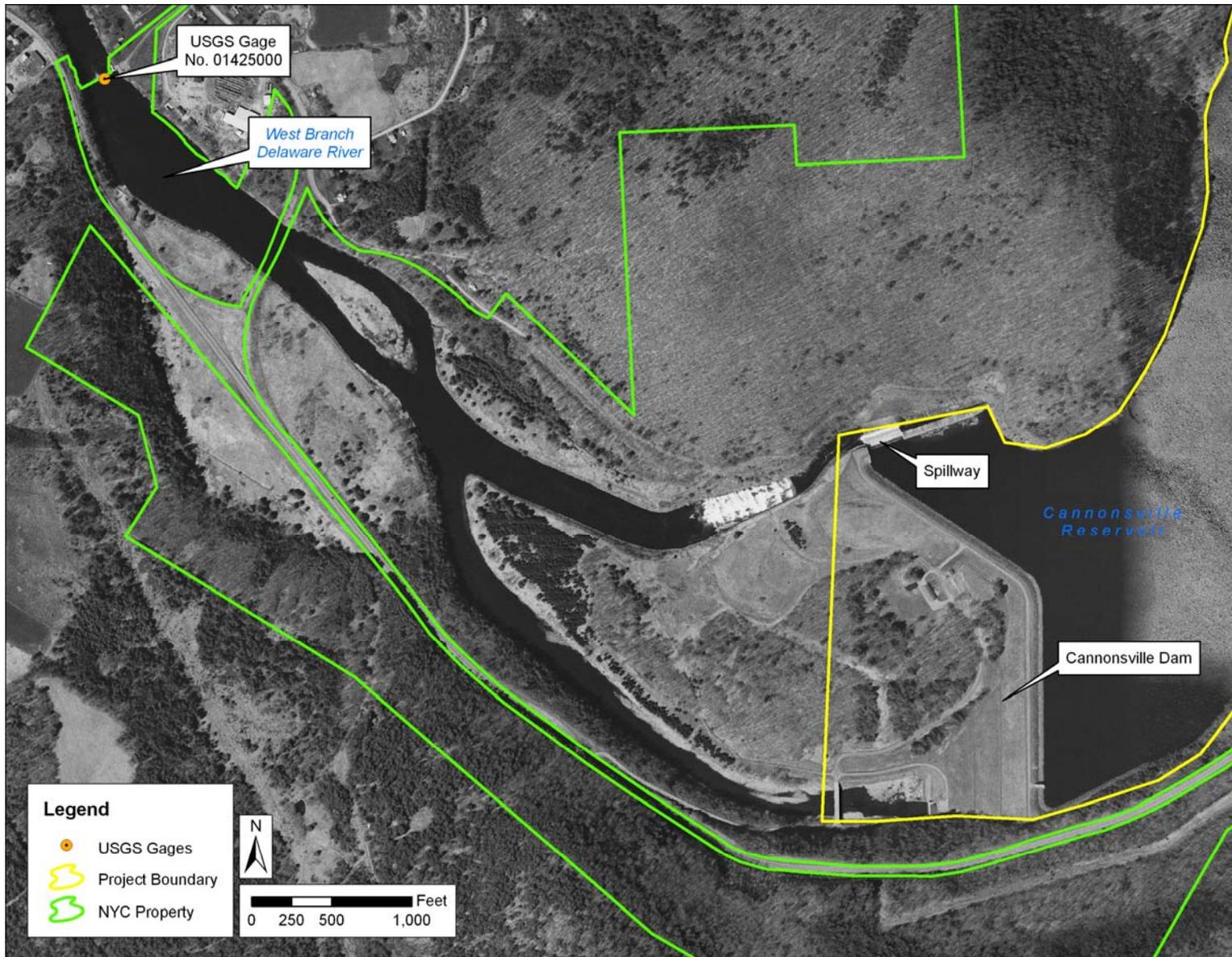


Figure 3.2.2-1: Cannonsville Development Site Map

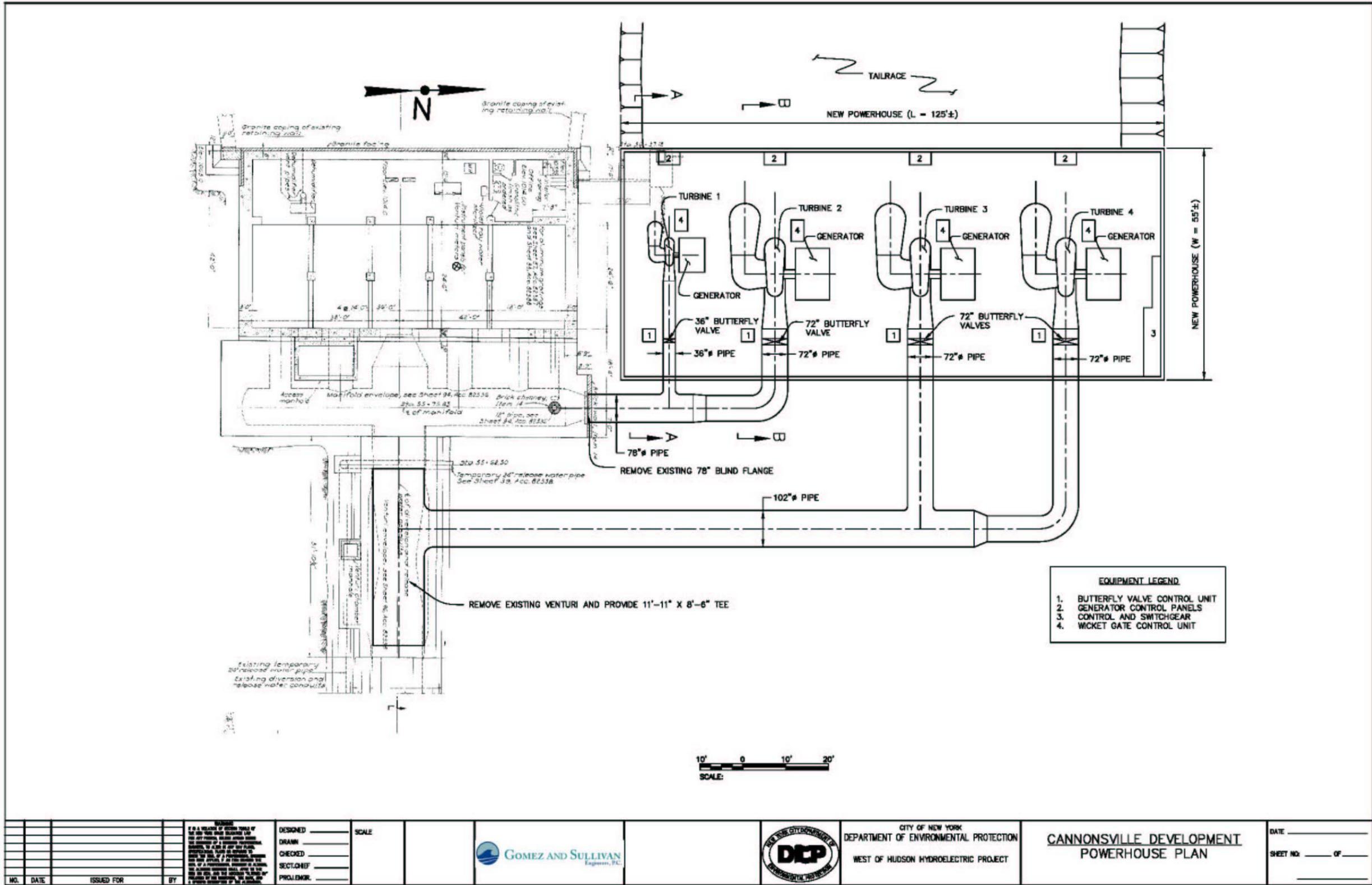


Figure 3.2.2-2: Cannonsville Development Powerhouse Plan

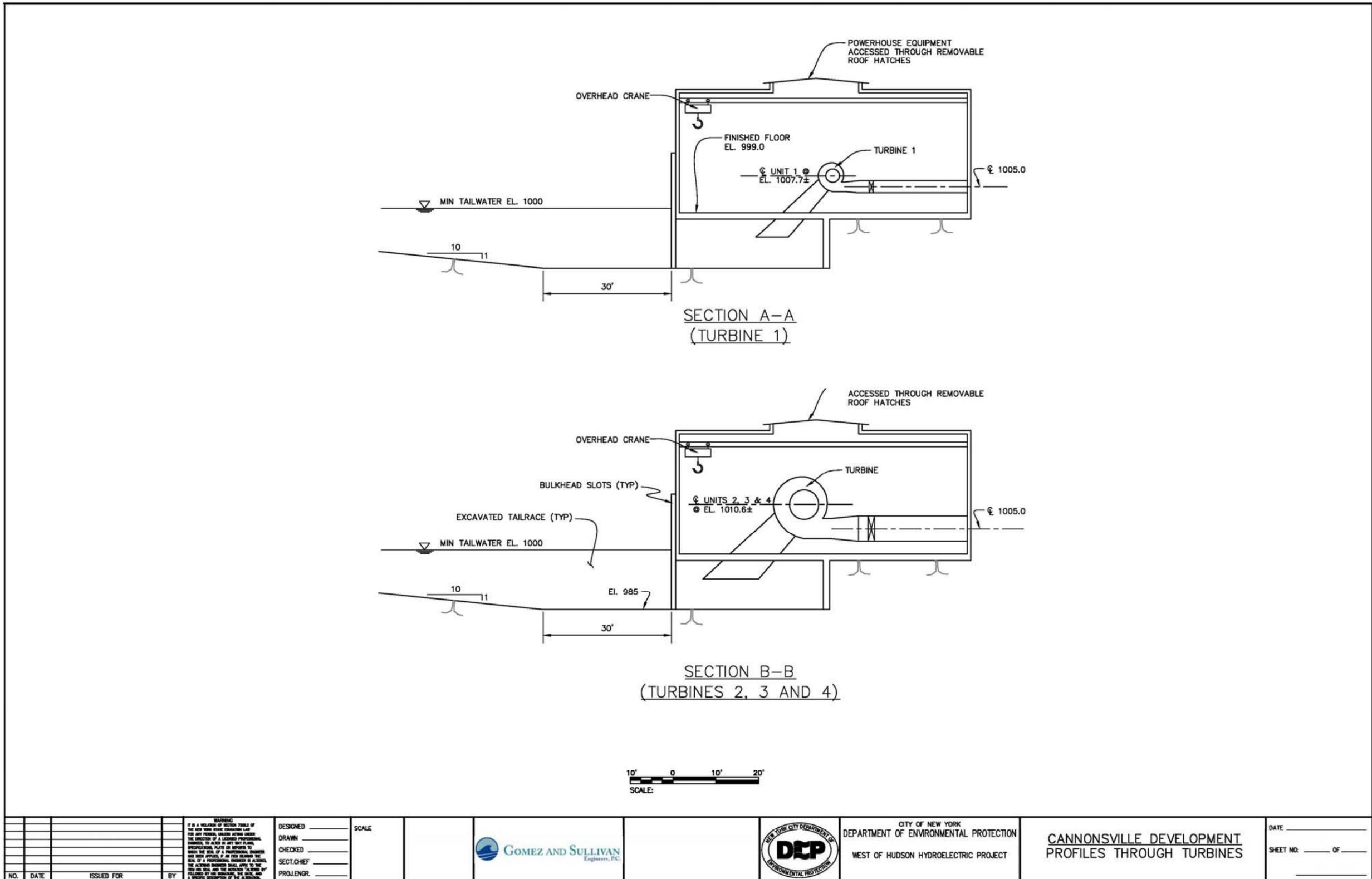
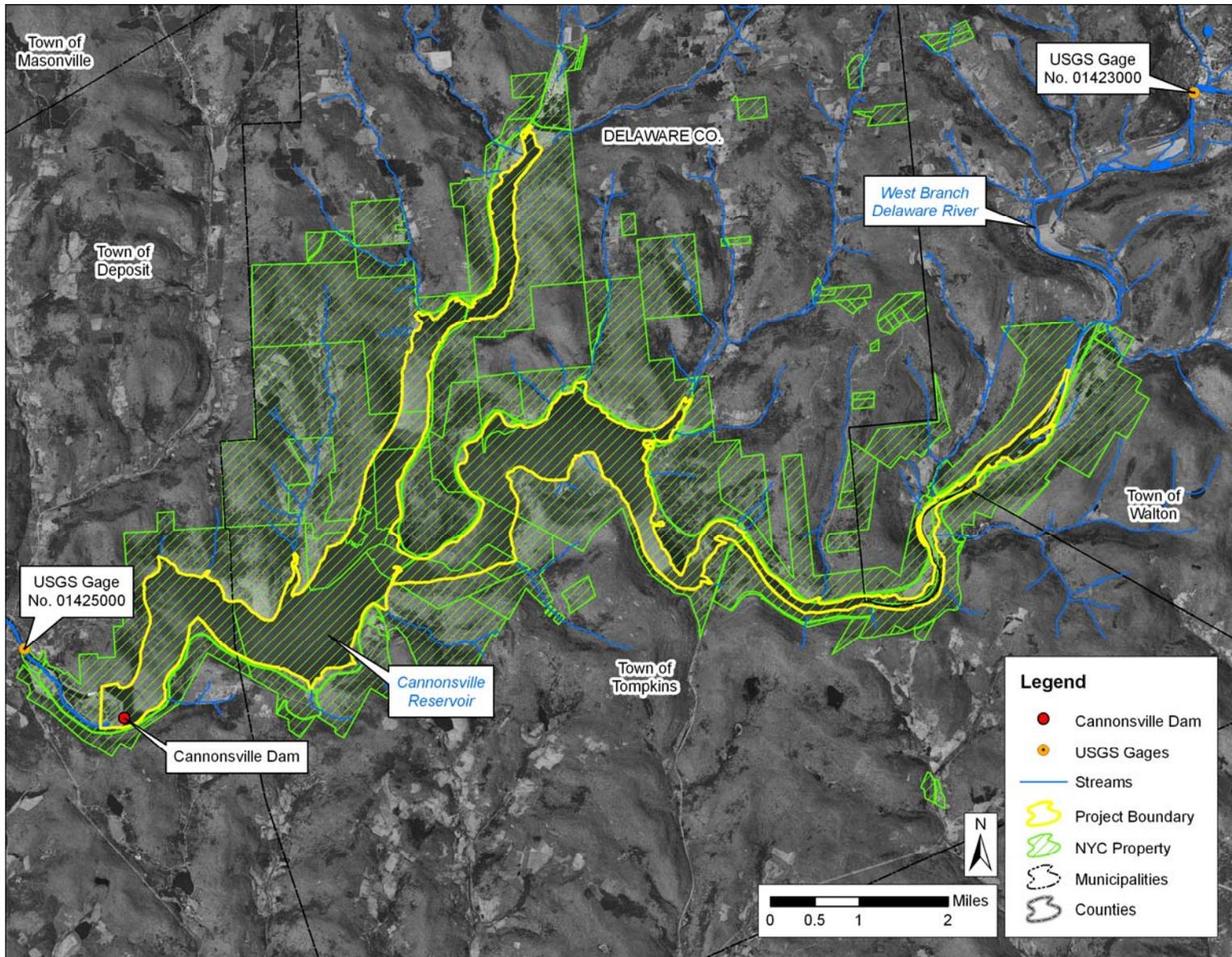


Figure 3.2.2-3: Cannonsville Development Profile Through Turbines



**Figure 3.2.2-4: Cannonsville Development Project Boundary Map**

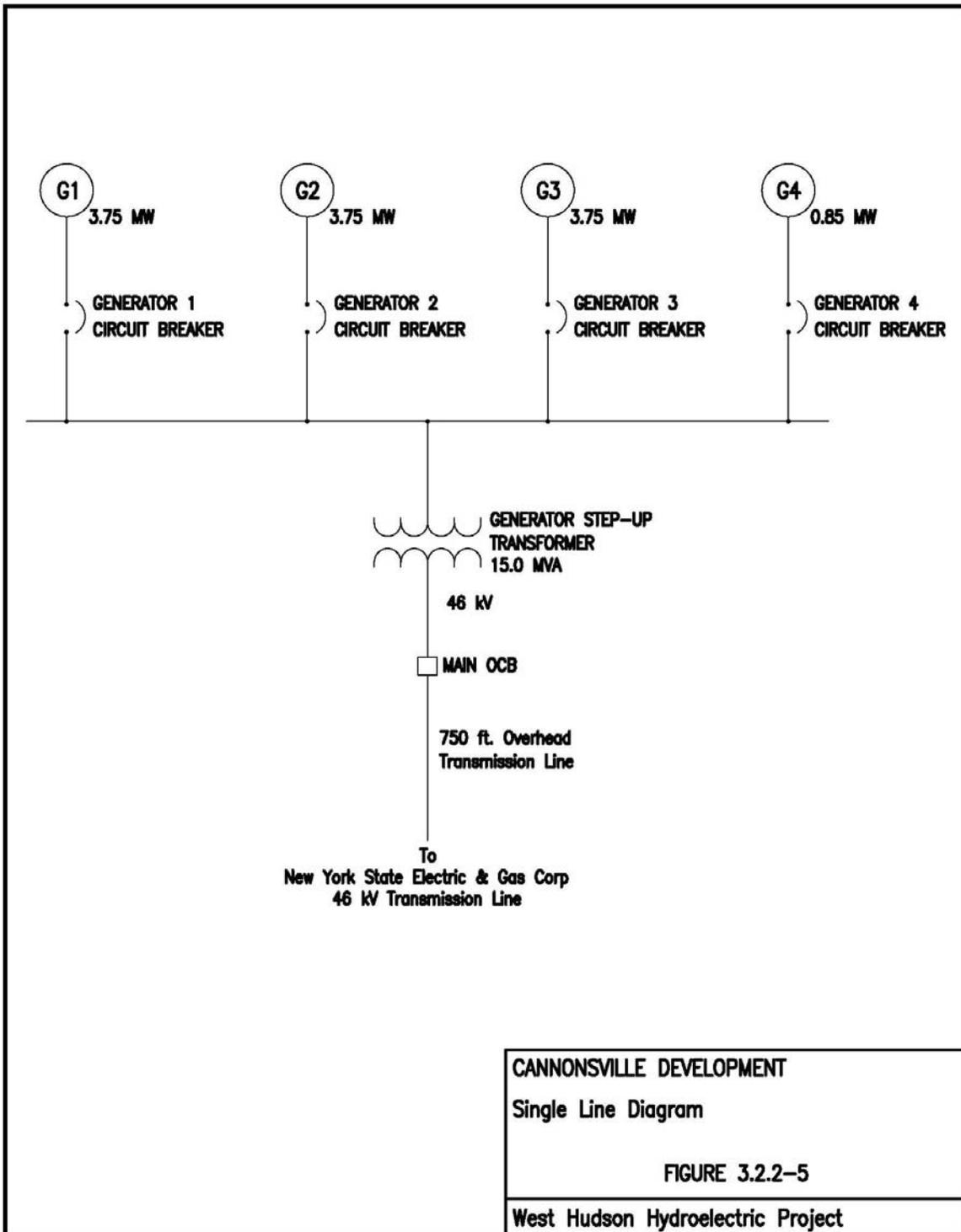
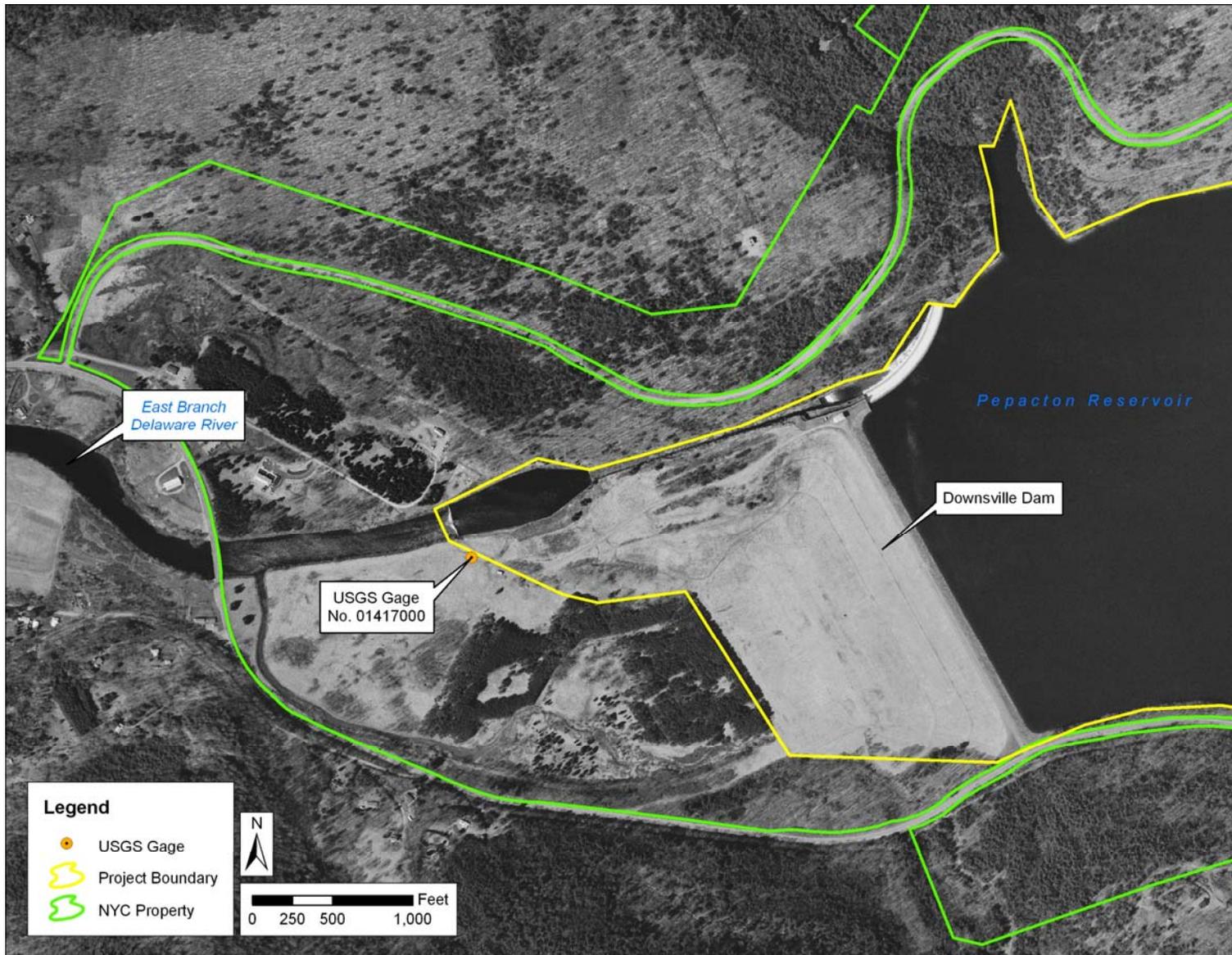


Figure 3.2.2-5: Cannonsville Development Single-Line Electrical Diagram



**Figure 3.2.3-1: Pepacton Development Site Map**

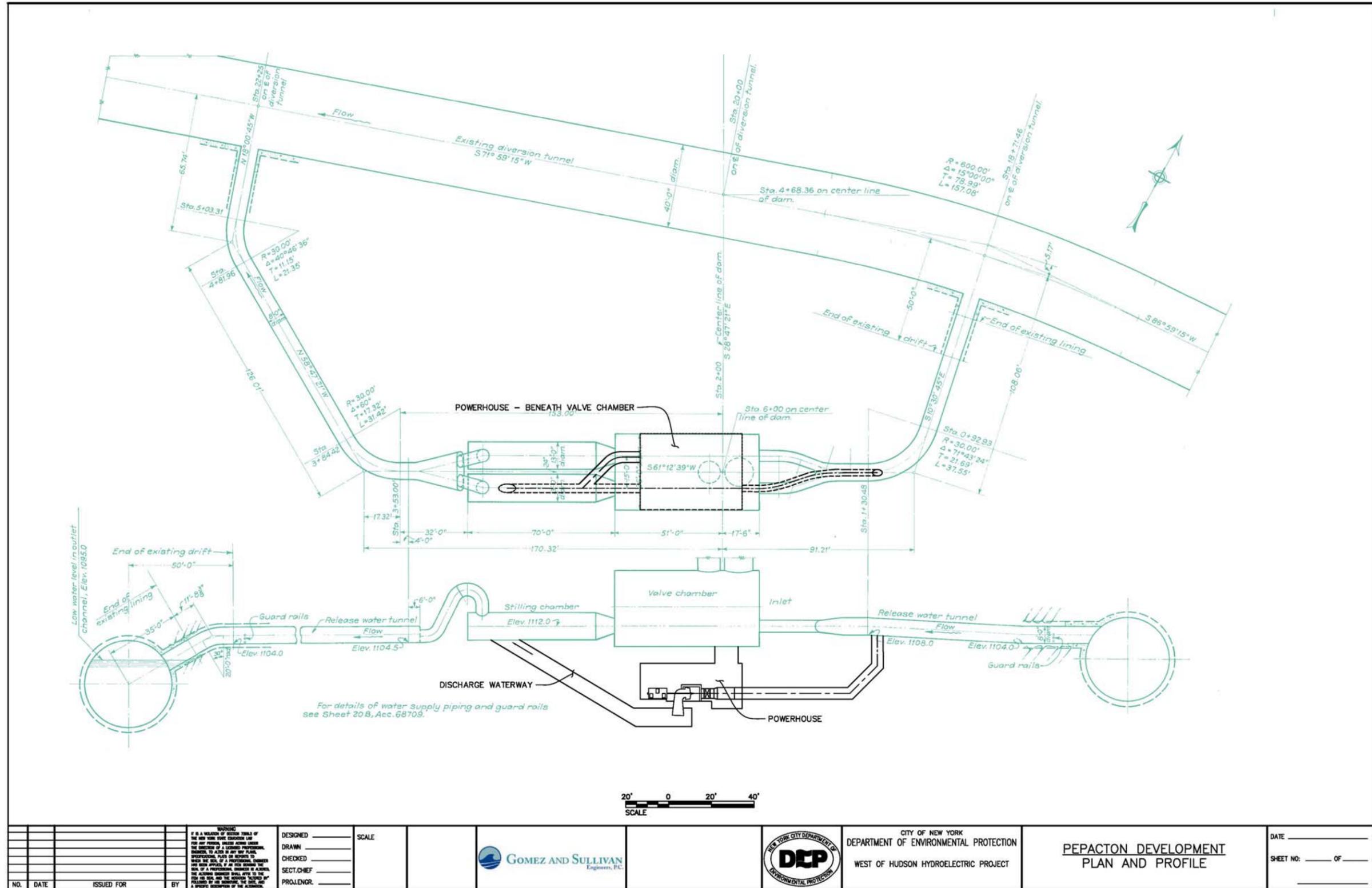


Figure 3.2.3-2: Pepacton Development Plan and Profile



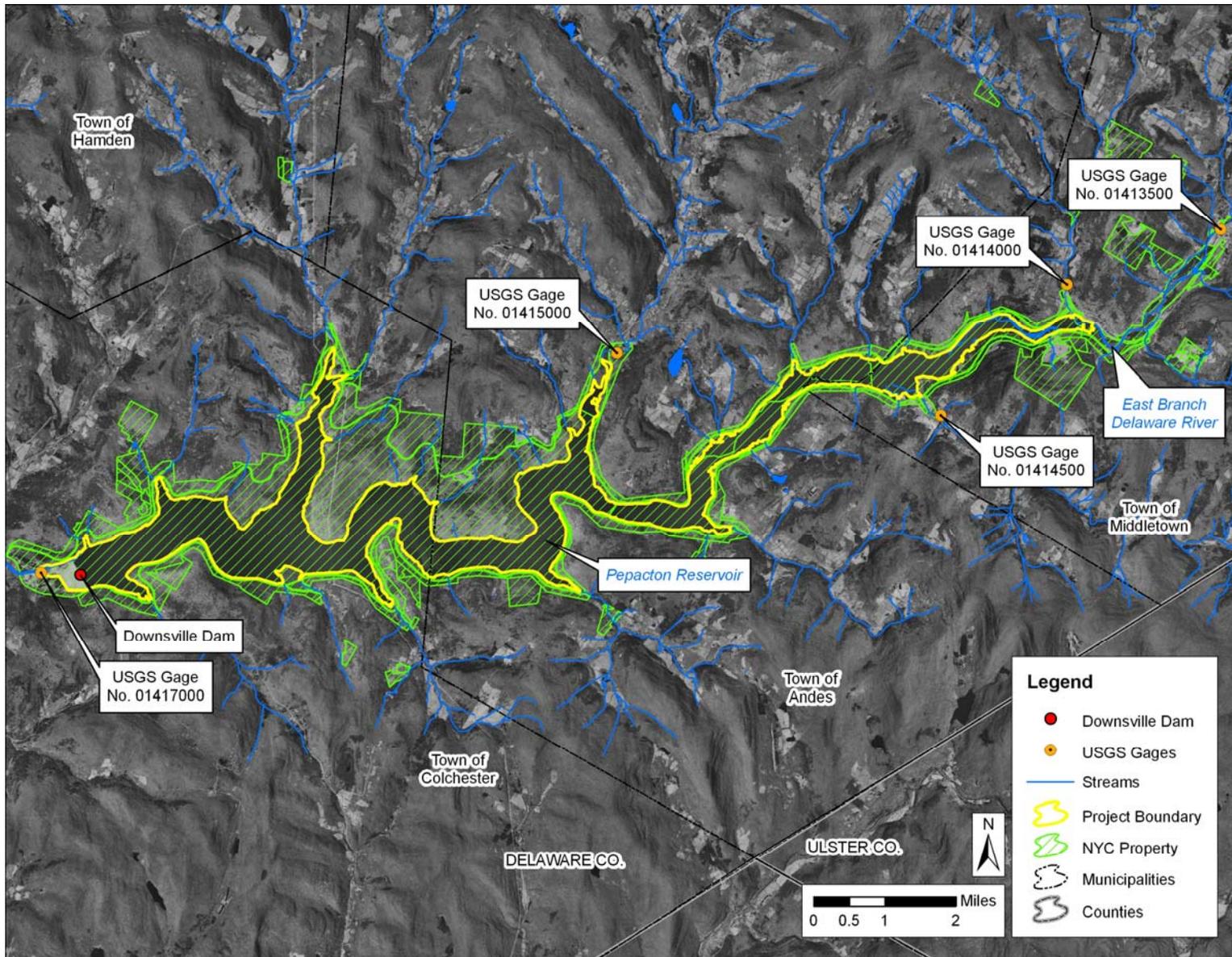


Figure 3.2.3-4: Pepacton Development Project Boundary Map

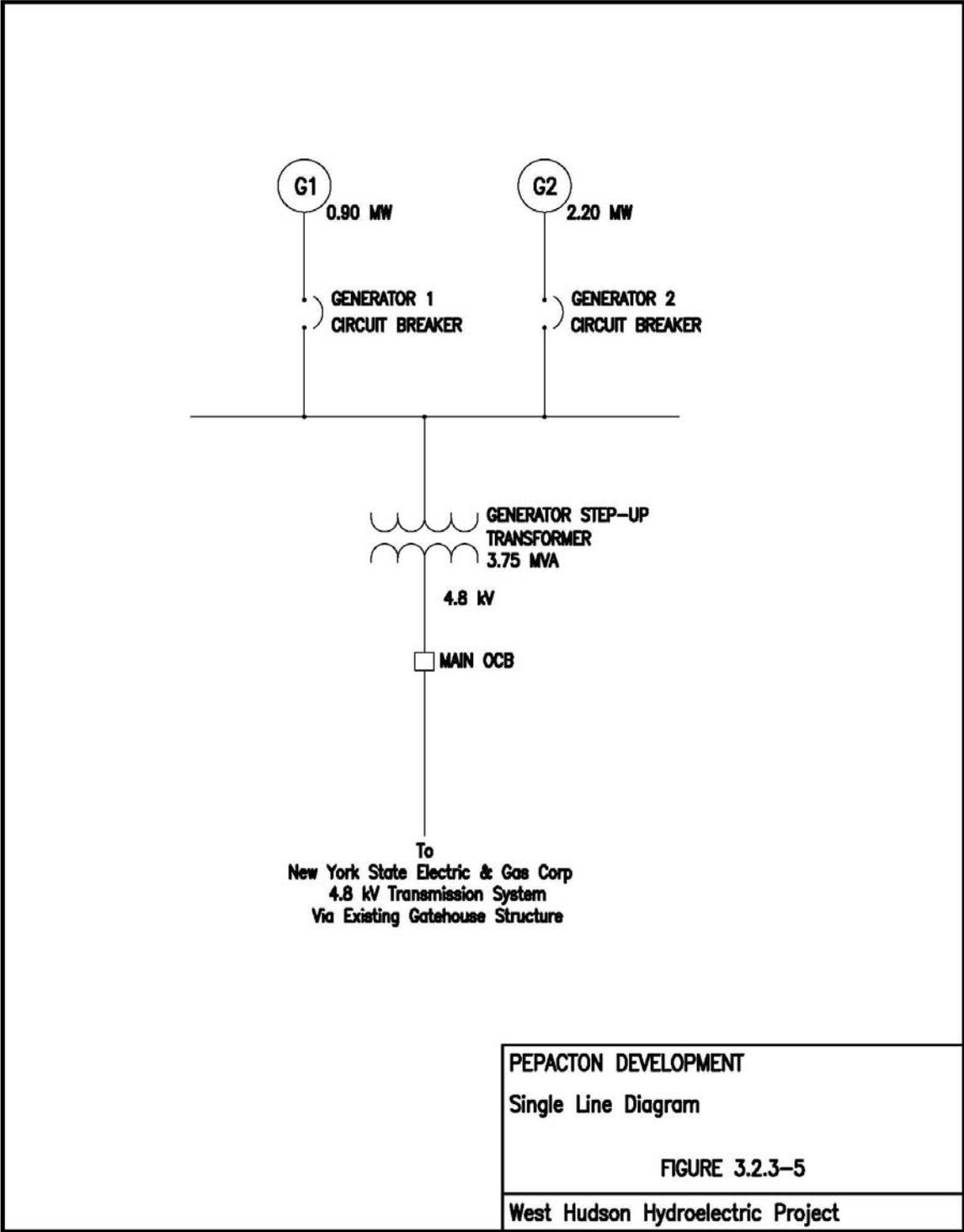


Figure 3.2.3-5: PEPACTON DEVELOPMENT Single-Line Electrical Diagram



Figure 3.2.4-1: Neversink Development Site Map

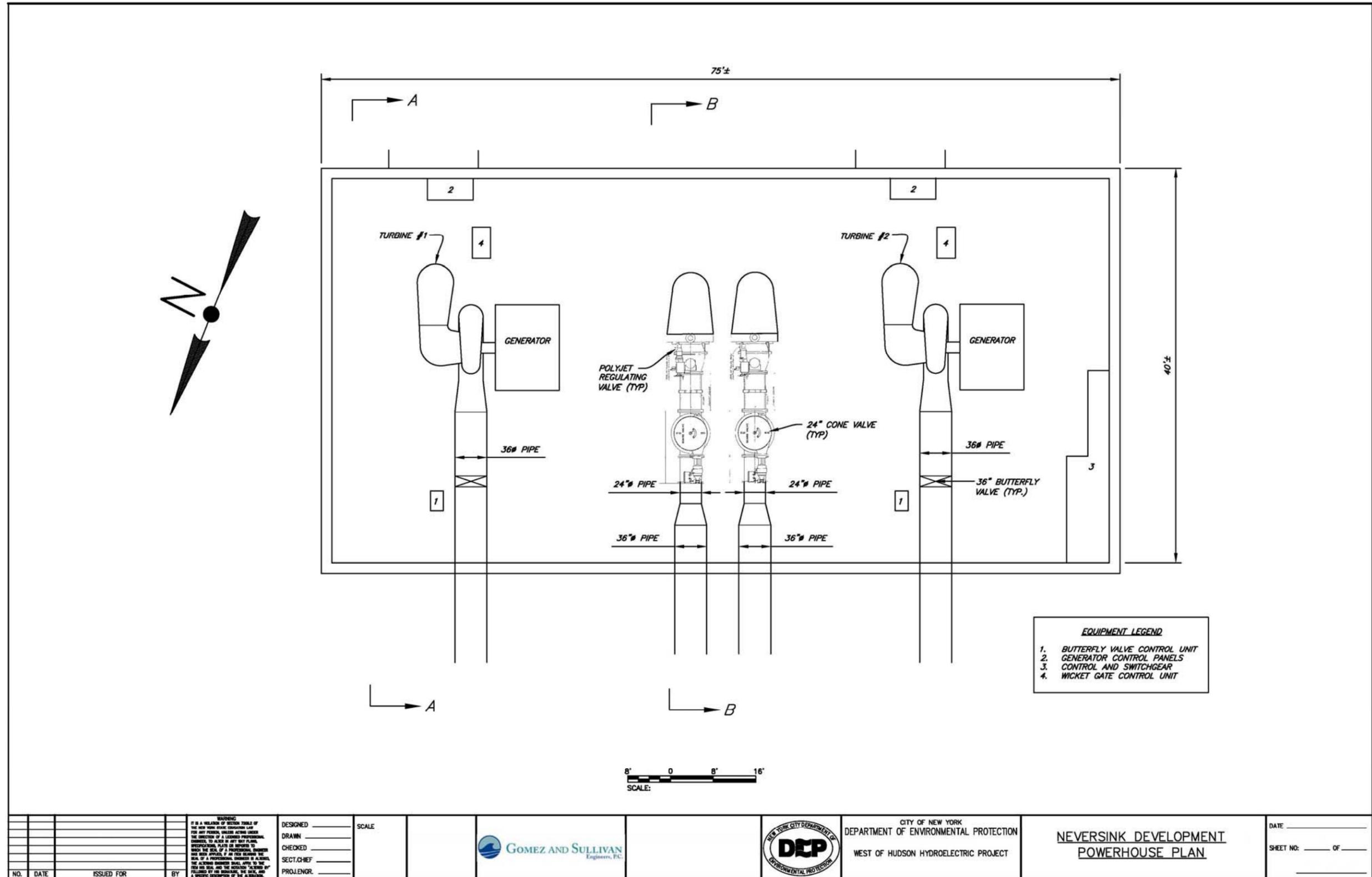
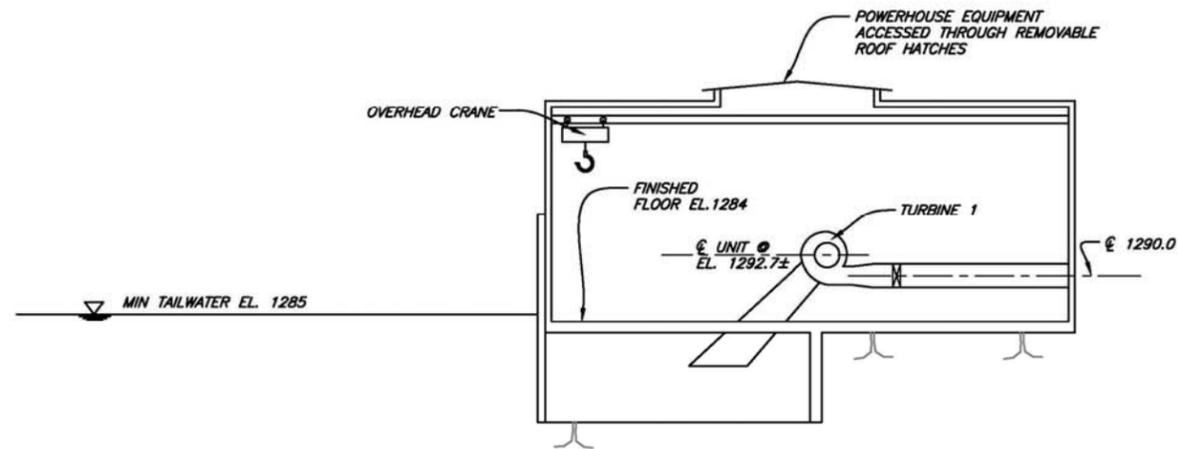
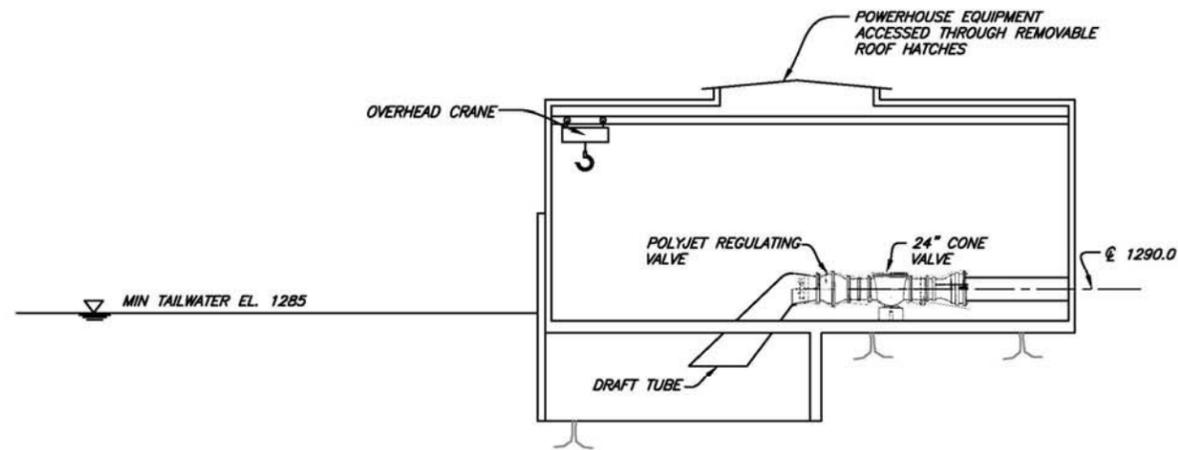


Figure 3.2.4-2: Neversink Development Powerhouse Plan

|  |      |            |    |  |             |  |  |  |   |  |
|--|------|------------|----|--|-------------|--|--|--|---|--|
| <p><b>WARNING</b><br/>         IT IS A VIOLATION OF SECTION 2203 OF THE NEW YORK STATE CONSUMER LAW FOR ANY PERSON UNDER ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ACCEPT ANY CONTRACT TO PROVIDE PROFESSIONAL SERVICES TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF HE HAS GIVEN HIS SEAL OF A PROFESSIONAL ENGINEER TO ANY OTHER PERSON, COMPANY OR ENTITY, OR IF HE HAS NOT BEEN LICENSED BY THE STATE OF NEW YORK, OR IF HE HAS NOT BEEN LICENSED BY THE STATE OF NEW YORK, OR IF HE HAS NOT BEEN LICENSED BY THE STATE OF NEW YORK, OR IF HE HAS NOT BEEN LICENSED BY THE STATE OF NEW YORK.</p> |      |            |    | DESIGNED _____<br>DRAWN _____<br>CHECKED _____<br>SECT. CHIEF _____<br>PROJ. ENGR. _____ | SCALE _____ |  |  | CITY OF NEW YORK<br>DEPARTMENT OF ENVIRONMENTAL PROTECTION<br>WEST OF HUDSON HYDROELECTRIC PROJECT | <b>NEVERSINK DEVELOPMENT<br/>         POWERHOUSE PLAN</b> | DATE _____<br>SHEET NO: _____ OF _____ |
| NO.  | DATE | ISSUED FOR | BY |  |             |  |  |  |   |  |



**SECTION A-A**



**SECTION B-B**



|   |      |            |    |  |             |  |  |  |   |   |
|---|------|------------|----|--|-------------|--|--|--|---|---|
| <p><b>WARNING</b><br/>         IT IS A VIOLATION OF SECTION 2204 OF THE NEW YORK STATE CONSUMER LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO SEAL OR SIGN ANY SPECIFICATIONS, PLANS OR REPORTS TO WHICH THE SEAL OF A PROFESSIONAL ENGINEER HAS BEEN APPLIED, IF HE OR SHE IS NOT A LICENSED PROFESSIONAL ENGINEER IN ALBANY, THE LICENSE NUMBER SHOWN ABOVE TO THE LEFT OF HIS SIGNATURE, HIS TITLE, AND A BRIEF DESCRIPTION OF THE ALIENATION.</p> |      |            |    | DESIGNED _____<br>DRAWN _____<br>CHECKED _____<br>SECT. CHIEF _____<br>PROJ. ENGR. _____ | SCALE _____ |  |  | CITY OF NEW YORK<br>DEPARTMENT OF ENVIRONMENTAL PROTECTION<br>WEST OF HUDSON HYDROELECTRIC PROJECT | <b>NEVERSINK DEVELOPMENT<br/>         POWERHOUSE SECTIONS</b> | DATE _____<br>SHEET NO: _____ OF _____<br>DWG NO: _____ |
| NO.   | DATE | ISSUED FOR | BY |  |             |  |  |  |   |   |

Figure 3.2.4-3: Neversink Development Powerhouse Section

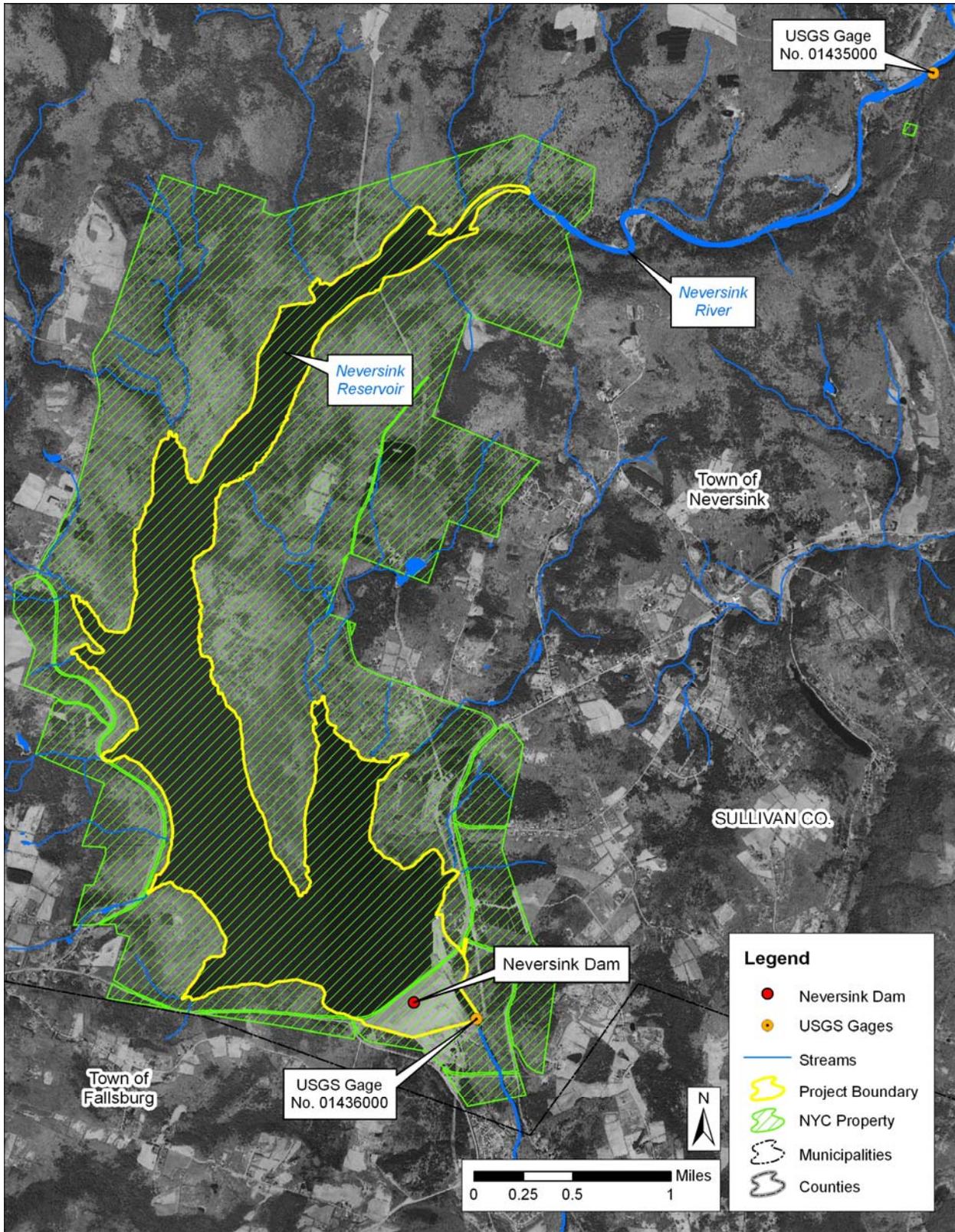


Figure 3.2.4-4: Neversink Development Project Boundary Map

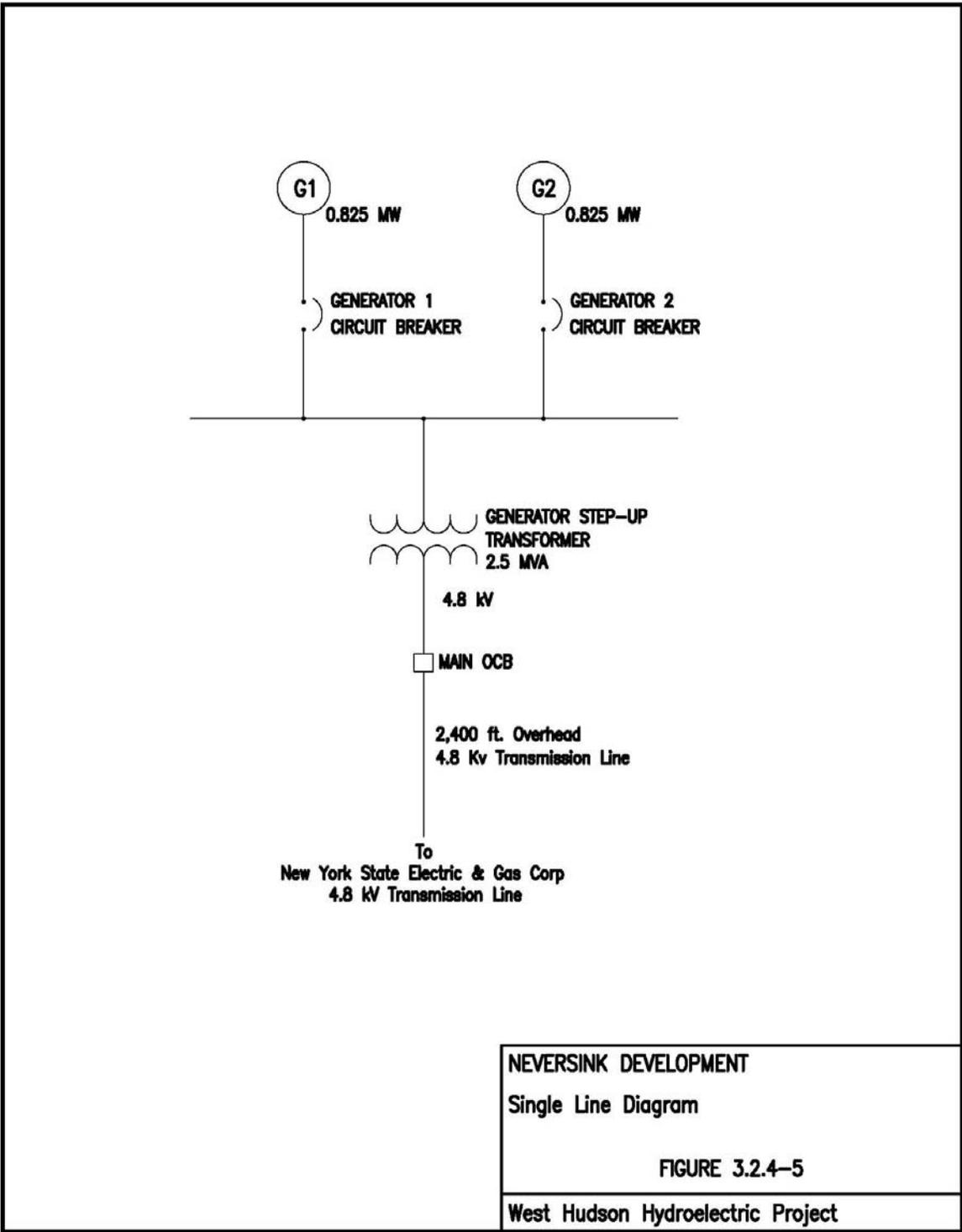


Figure 3.2.4-5: Neversink Development Single-Line Electrical Diagram

# NYC Delaware System Usable Combined Storage

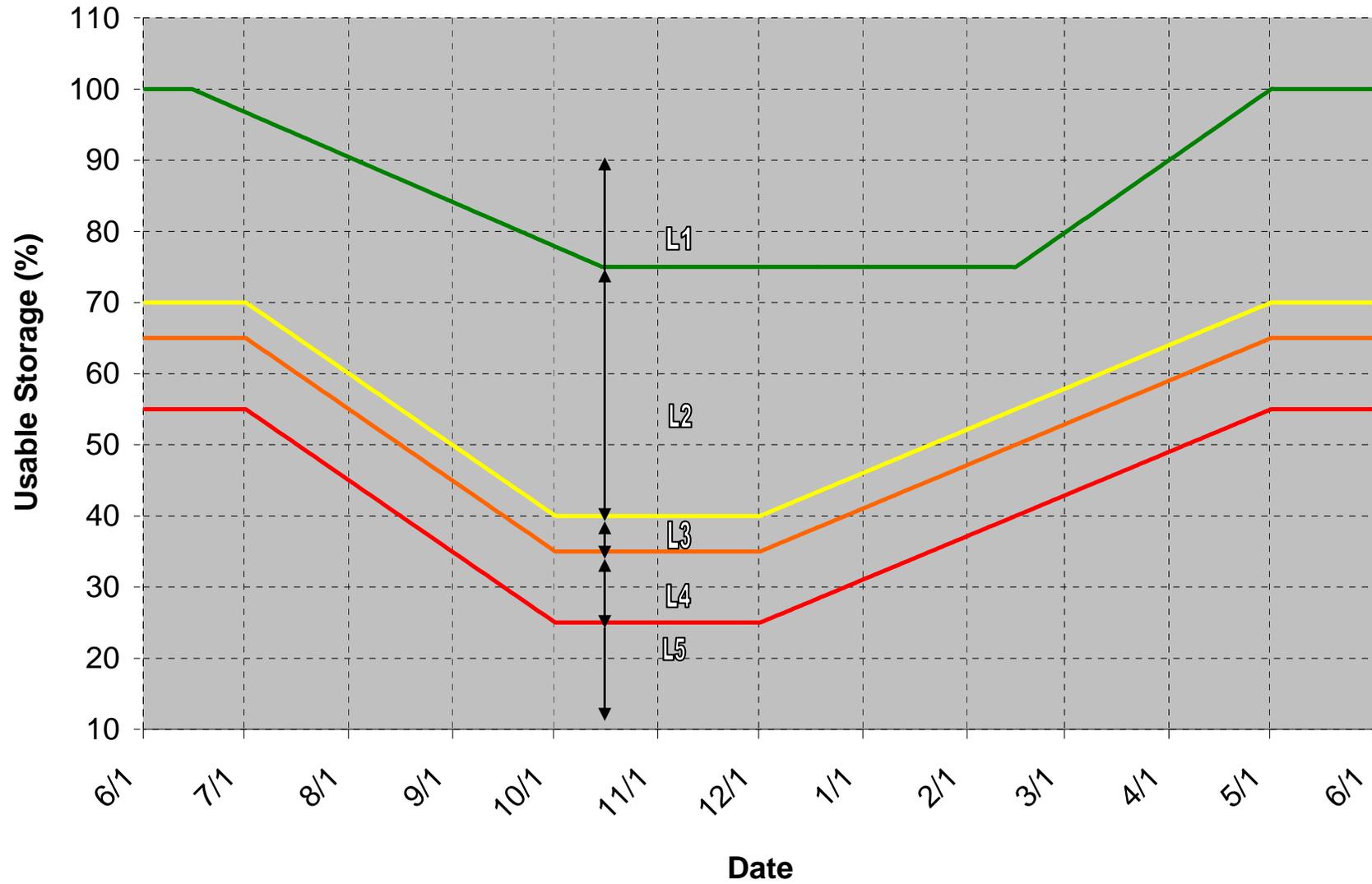


Figure 3.5.3.4-1: NYC Delaware System Usable Combined Storage

# NYC Delaware System Usable Individual Storage

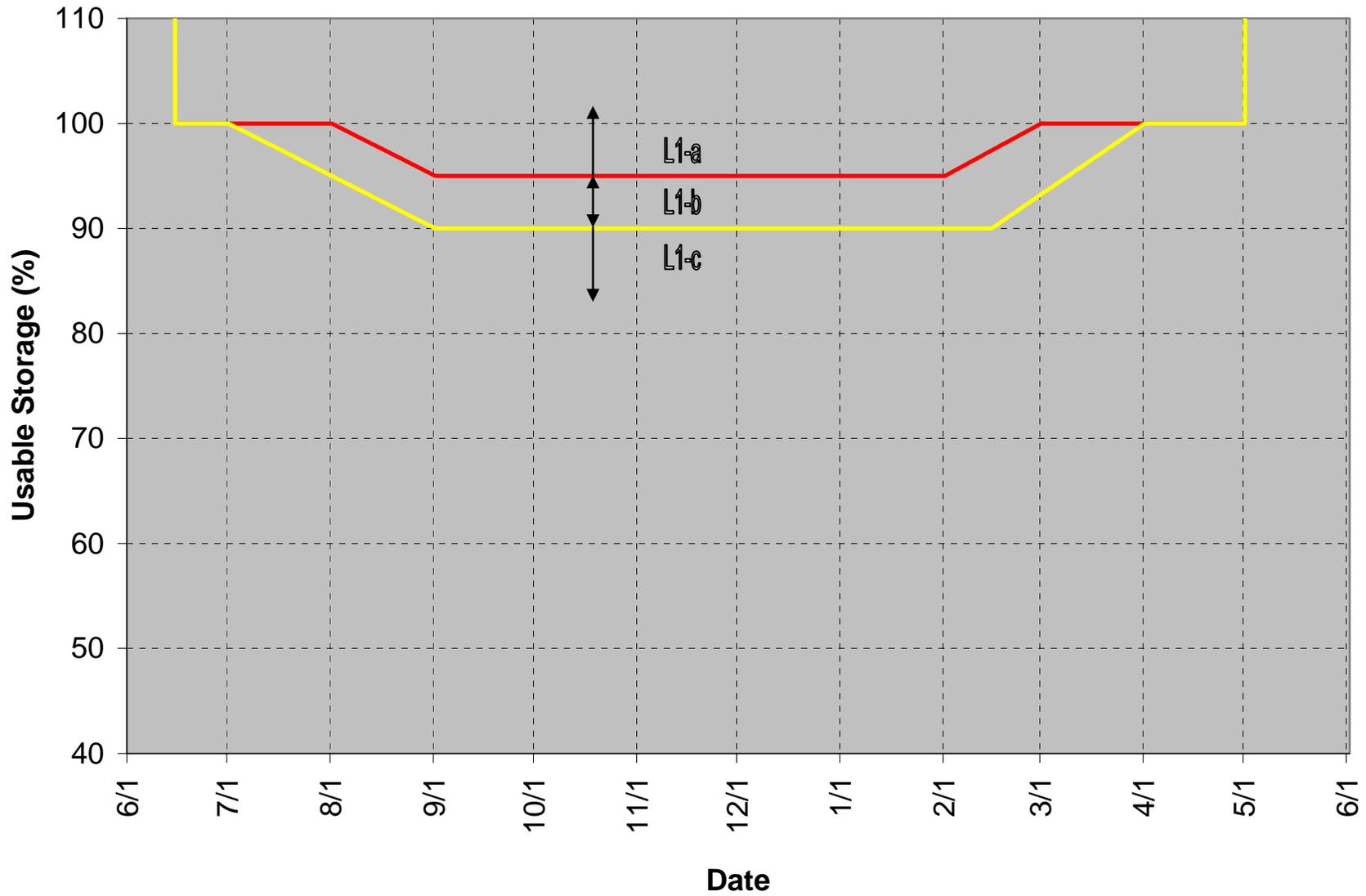
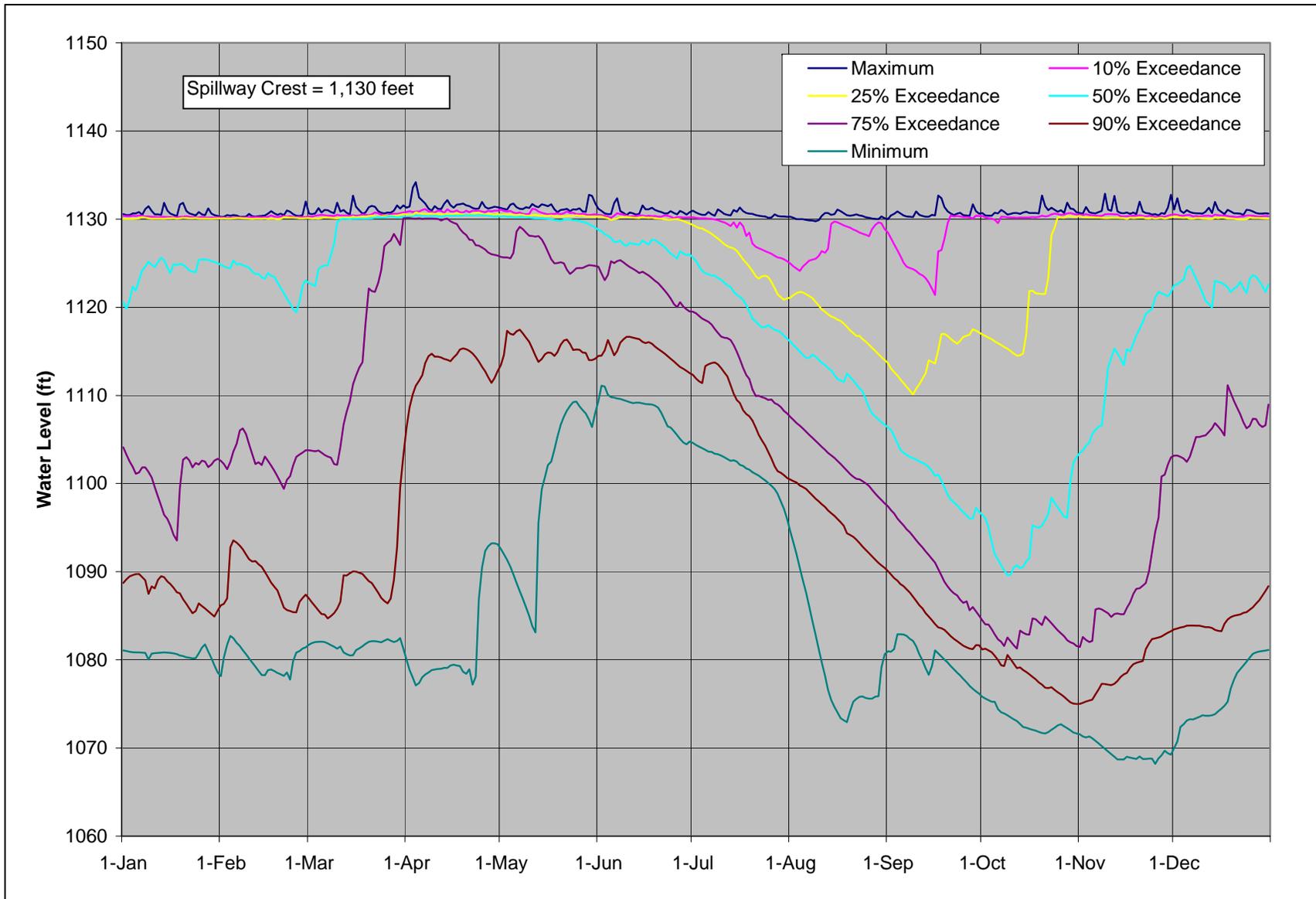
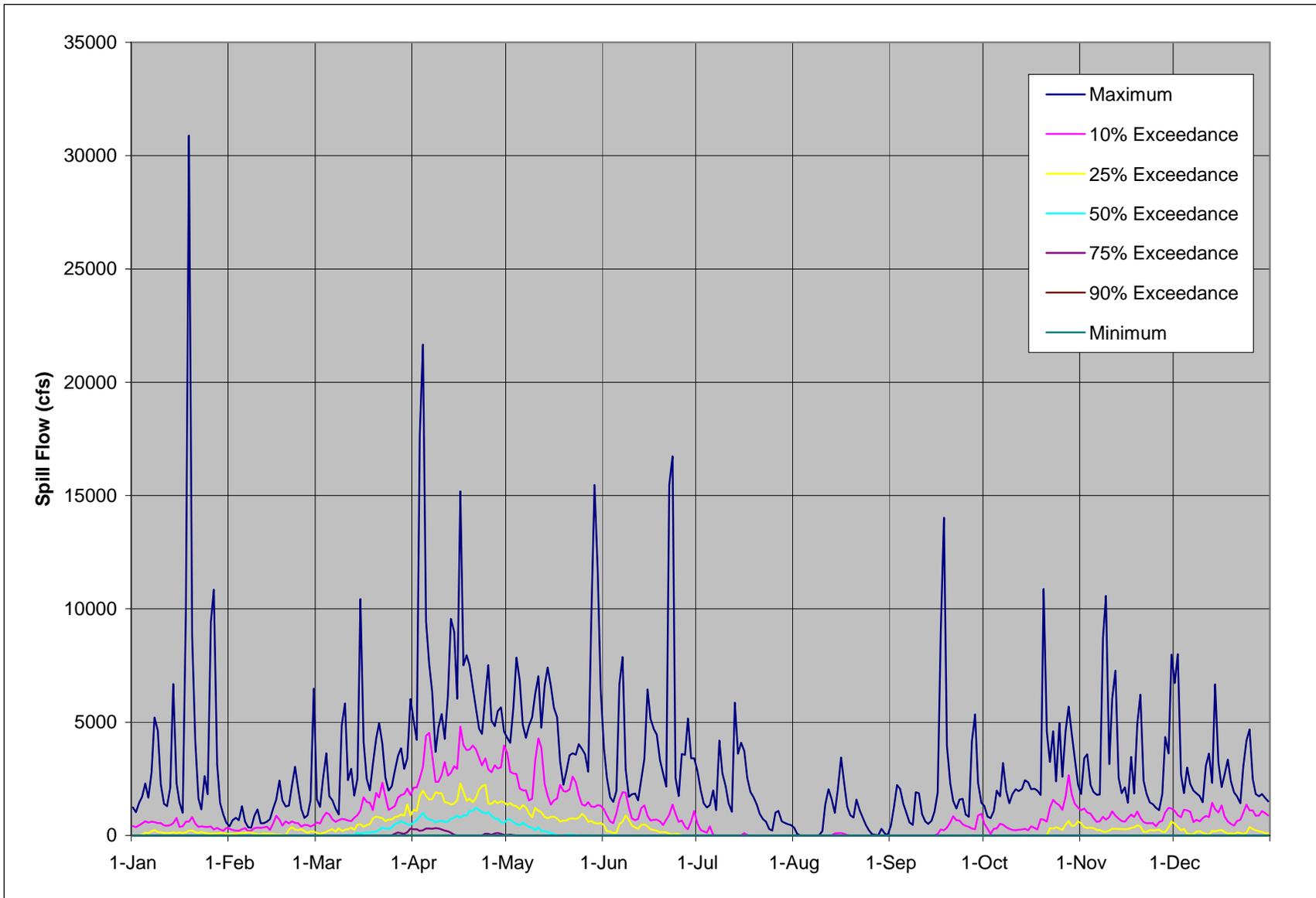


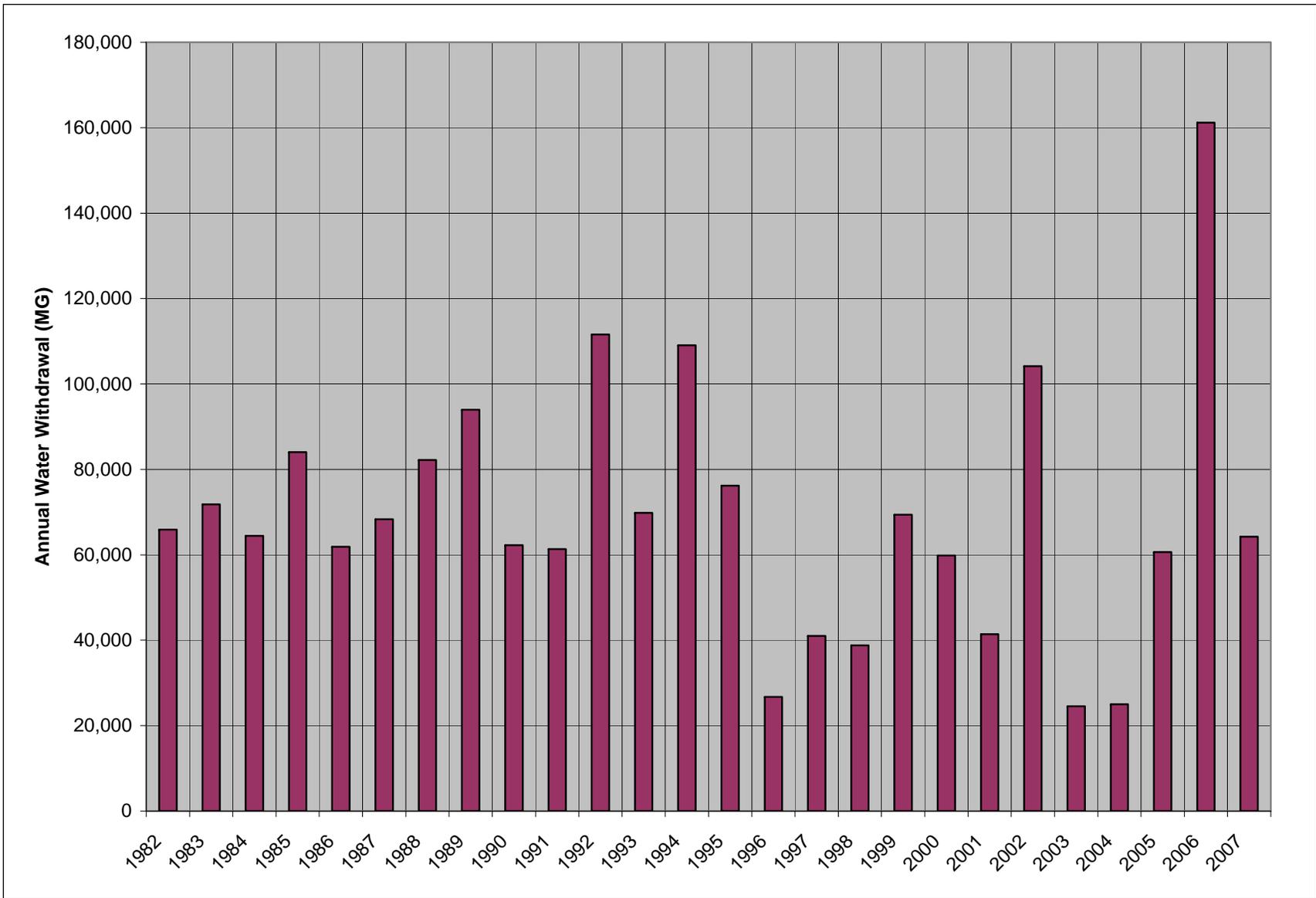
Figure 3.5.3.4-2: NYC Delaware System Usable Individual Storage



**Figure 3.6.1-1: Schoharie Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1982-2007 (Existing Conditions), Drainage area at dam = 316 square miles**

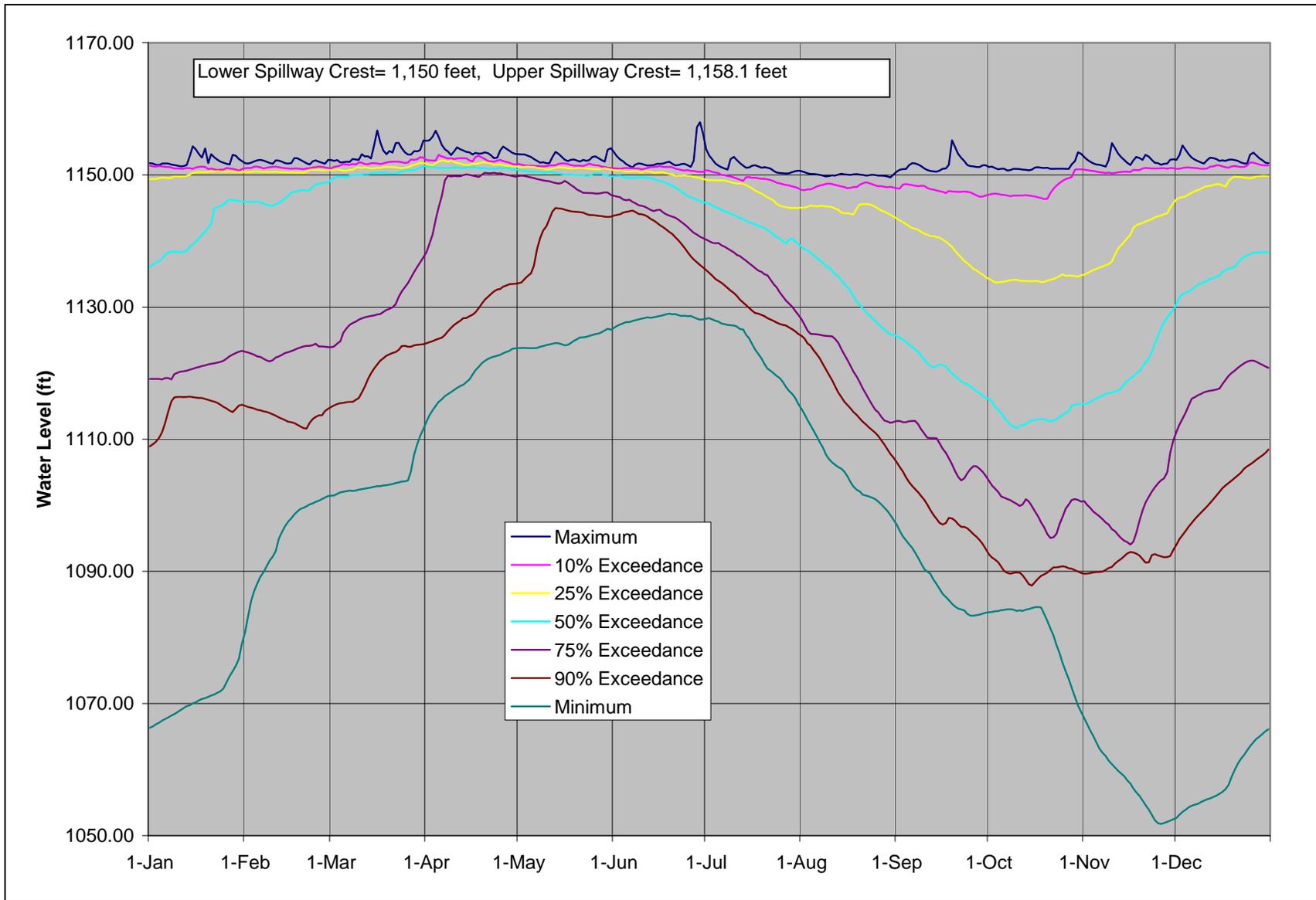


**Figure 3.6.1-2: Gilboa Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Spill Flows from 1982-2007 (Existing Conditions), Drainage area at dam = 316 square miles**

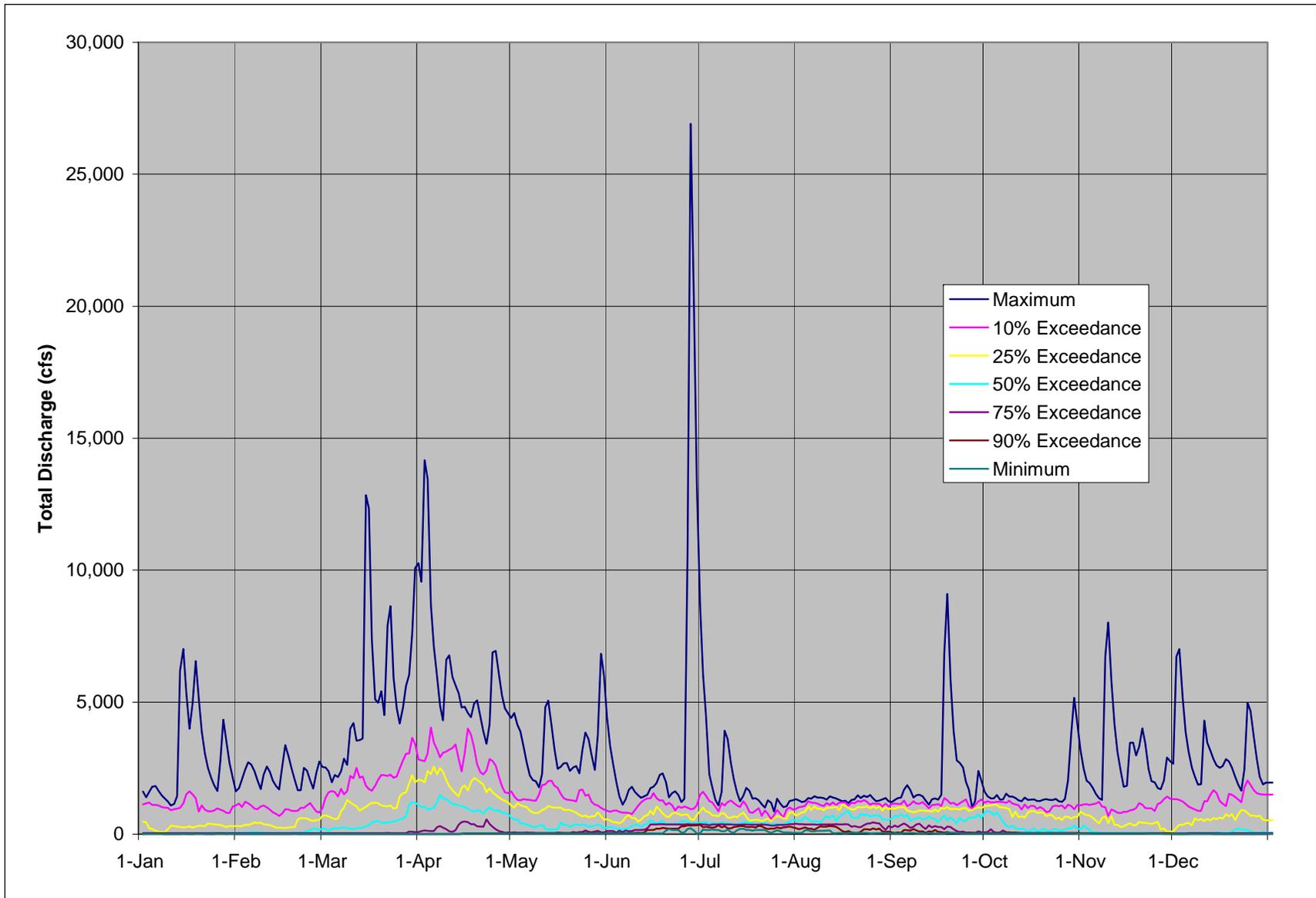


**Figure 3.6.1-3: Schoharie Annual Water Withdrawal from 1982-2007 (Existing Conditions)**

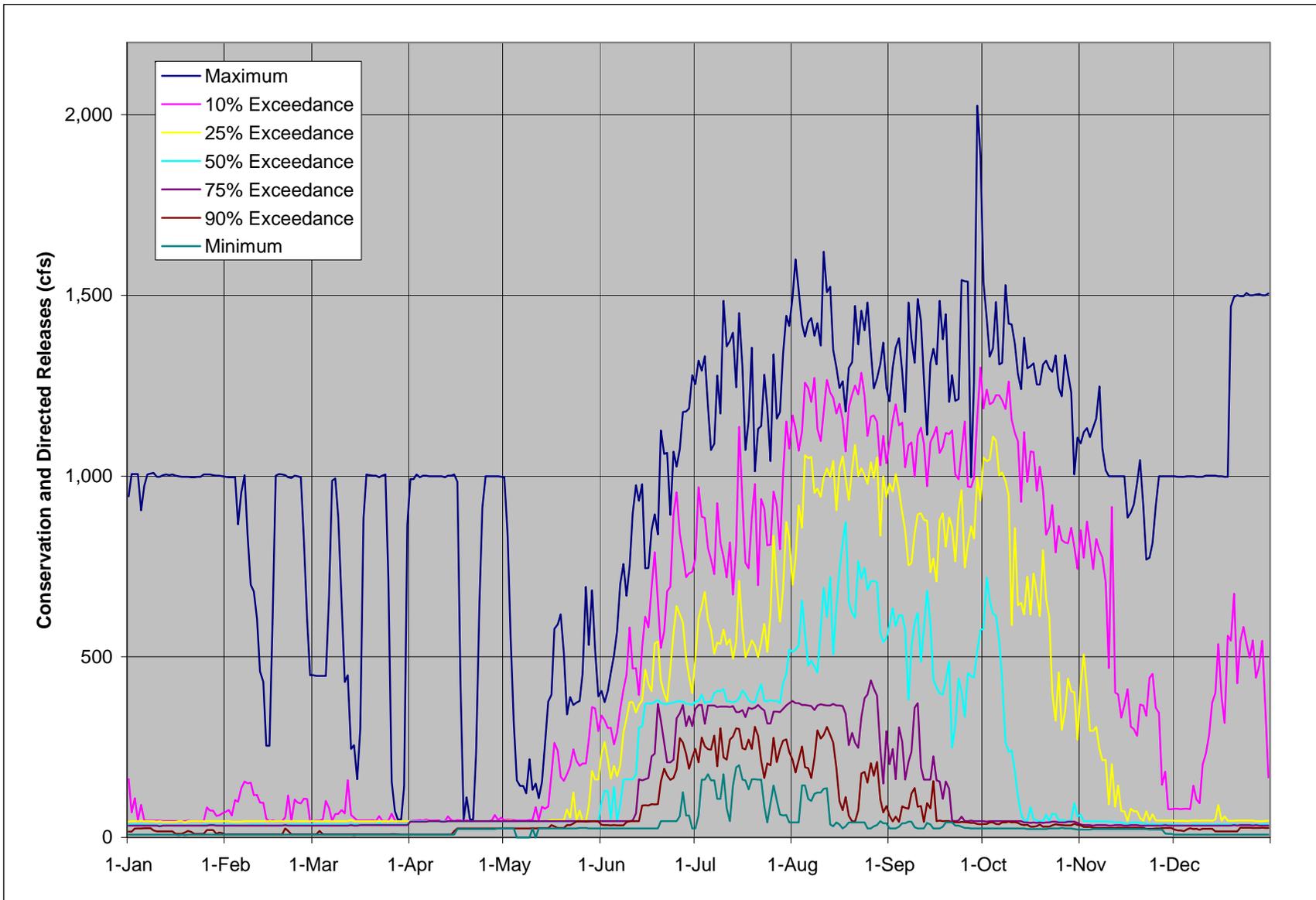
Drainage area at dam = 316 square miles



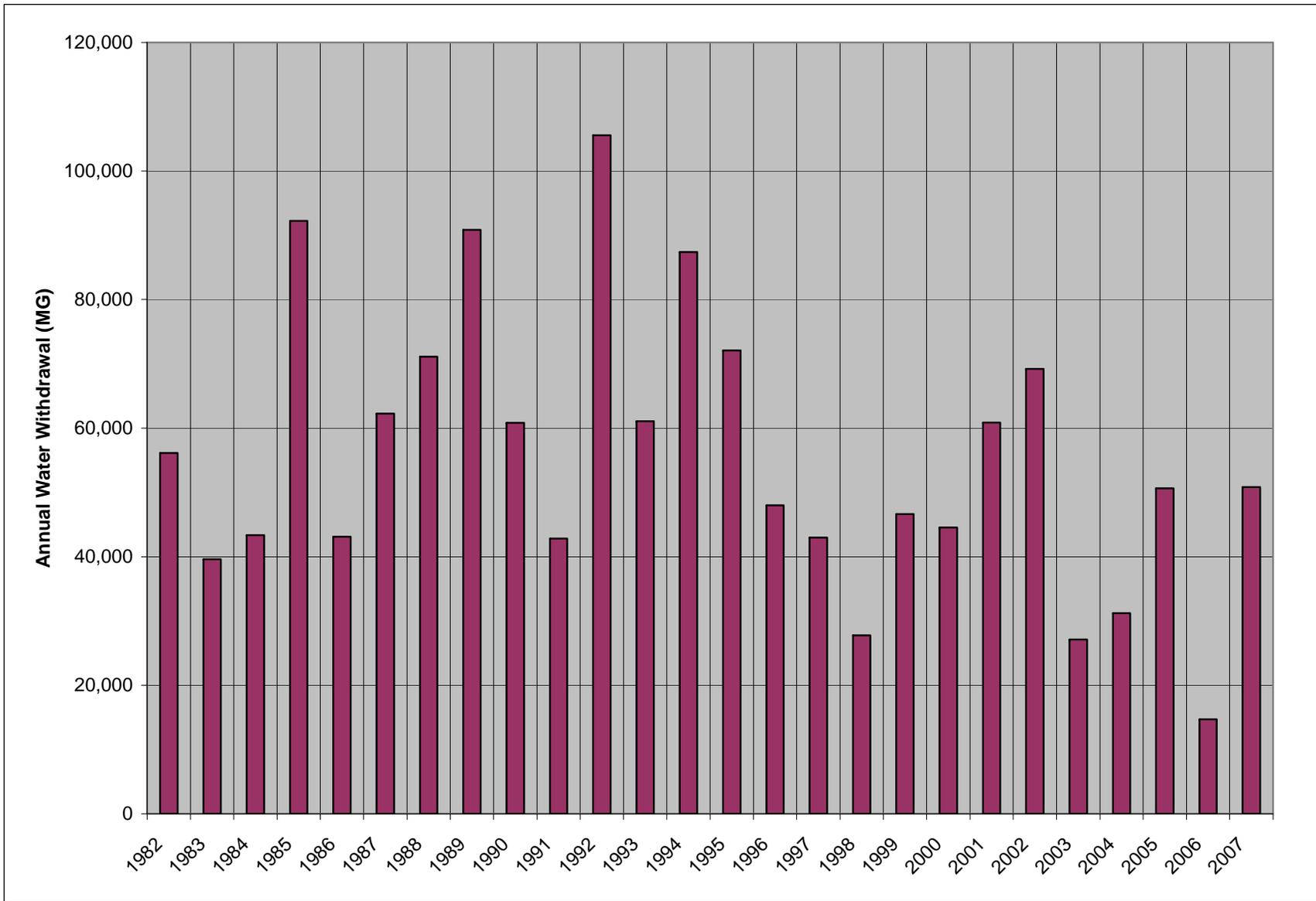
**Figure 3.6.2-1: Cannonsville Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1982-2007 (Existing Conditions), Drainage area at dam = 454 square miles**



**Figure 3.6.2-2: Cannonsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1982-2007 (Existing Conditions), Drainage area at dam = 454 square miles**

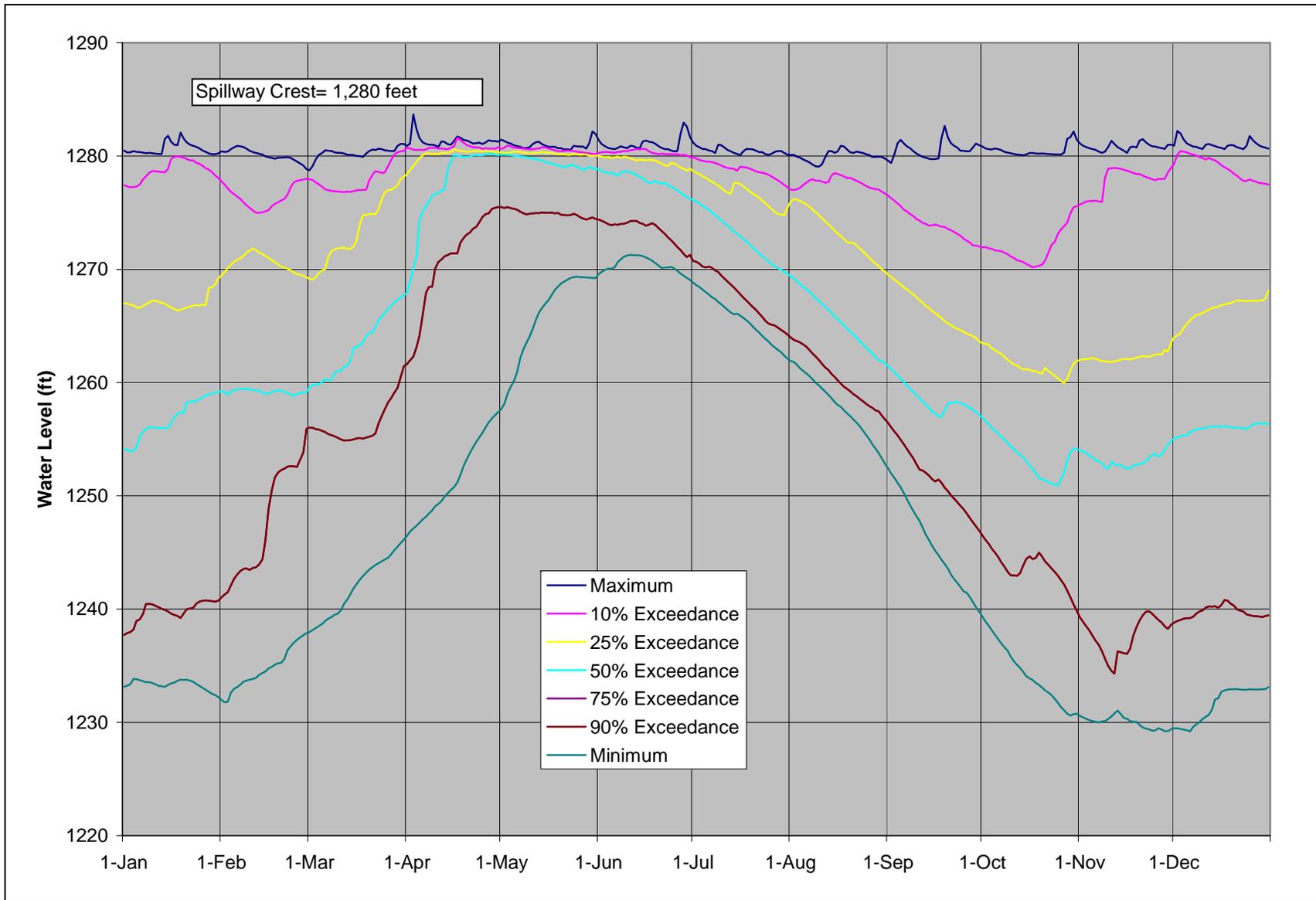


**Figure 3.6.2-3: Cannonsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation and Directed Releases from 1982-2007 (Existing Conditions), Drainage area at dam = 454 square miles**

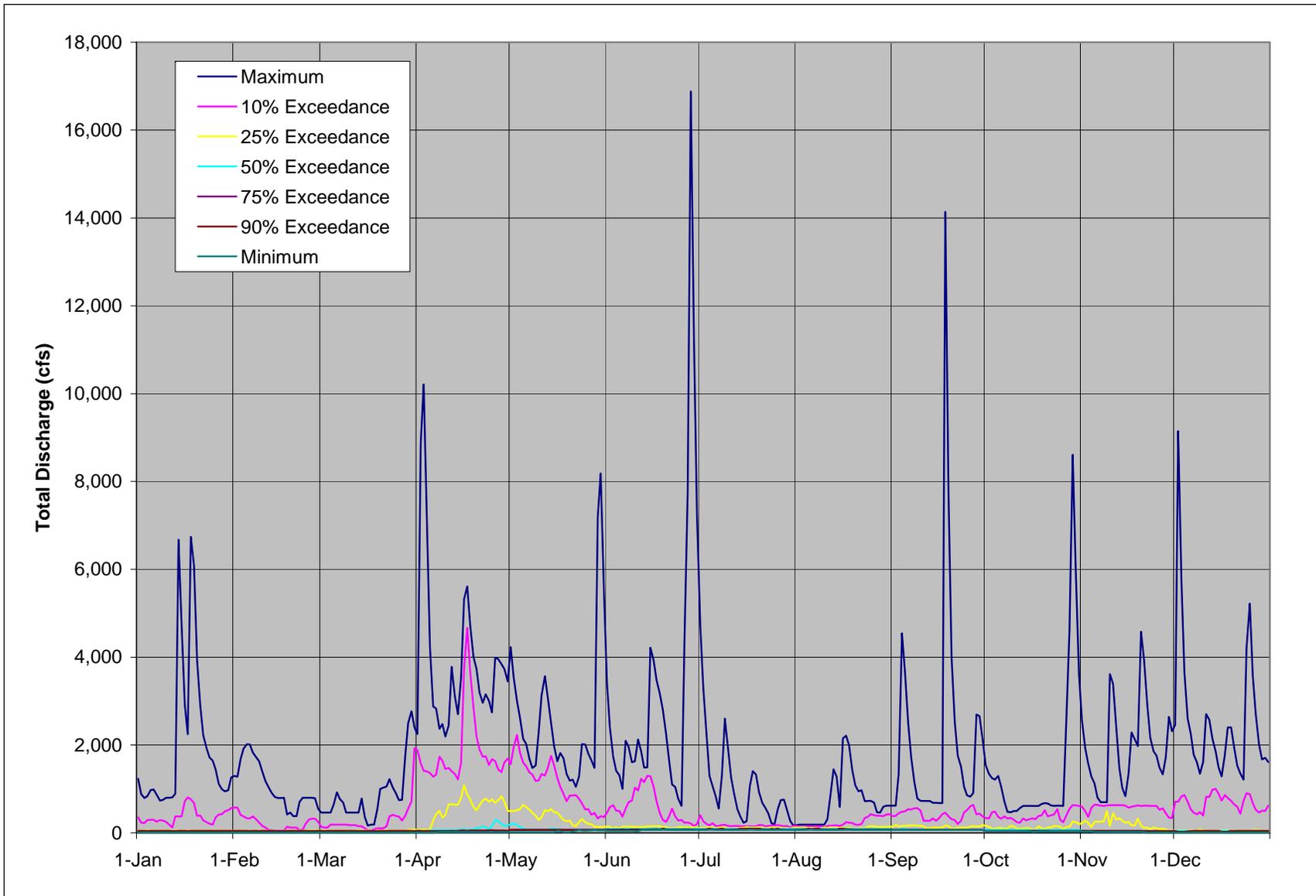


**Figure 3.6.2-4: Cannonsville Annual Water Withdrawal from 1982-2007 (Existing Conditions)**

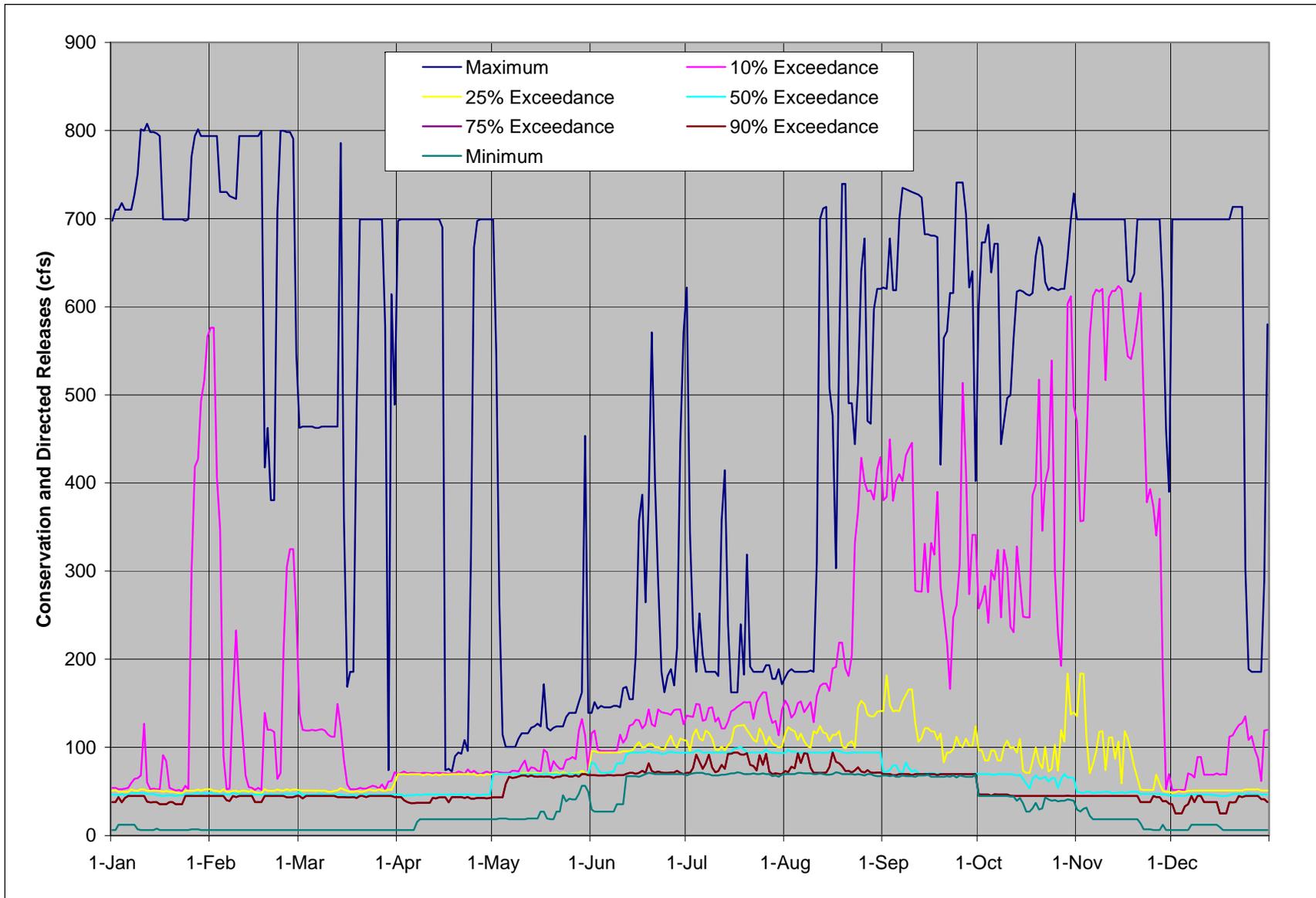
Drainage area at dam = 454 square miles



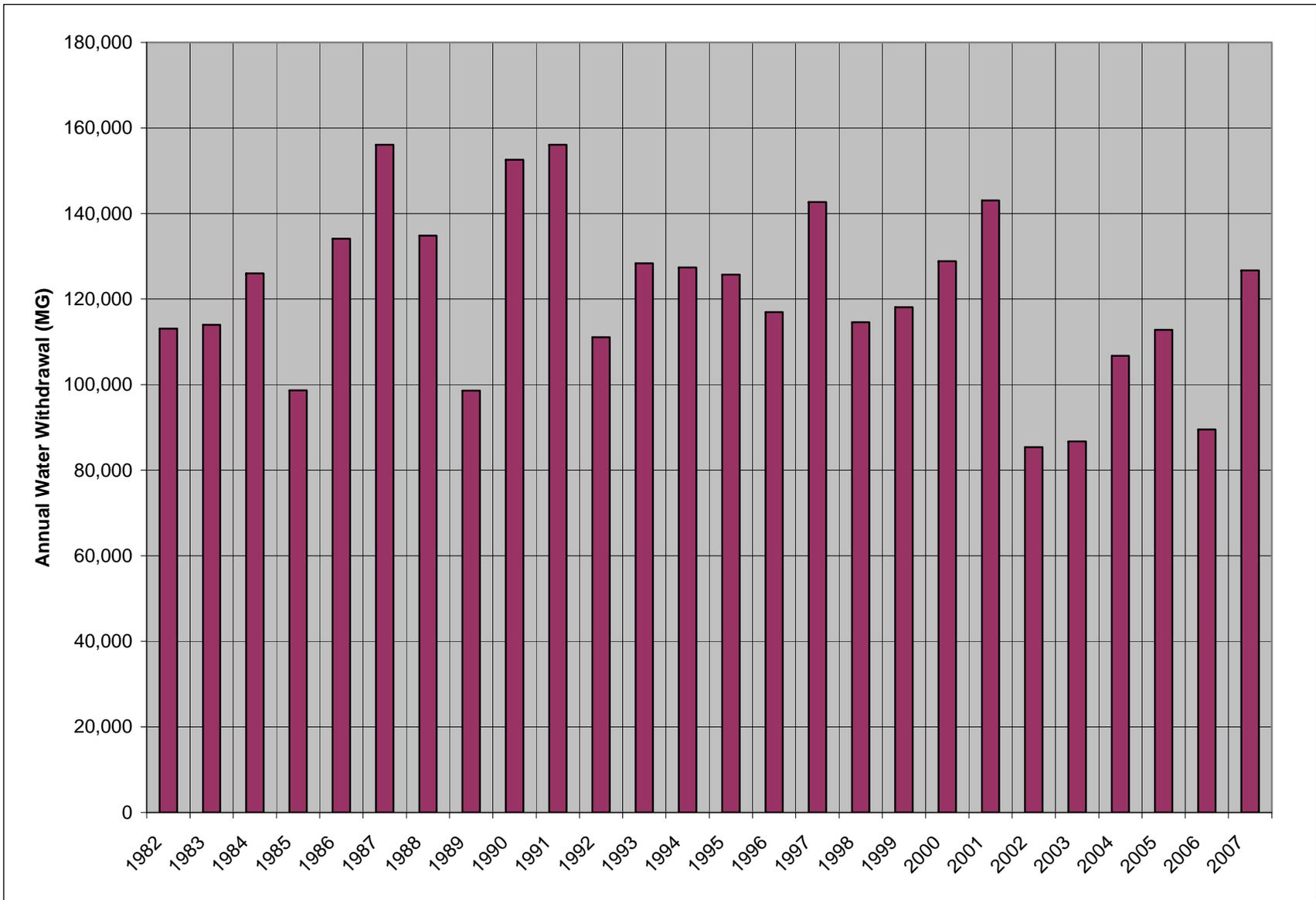
**Figure 3.6.3-1: Pepacton Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1982-2007 (Existing Conditions), Drainage area at dam = 372 square miles**



**Figure 3.6.3-2: Downsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1982-2007 (Existing Conditions), Drainage area at dam = 372 square miles**

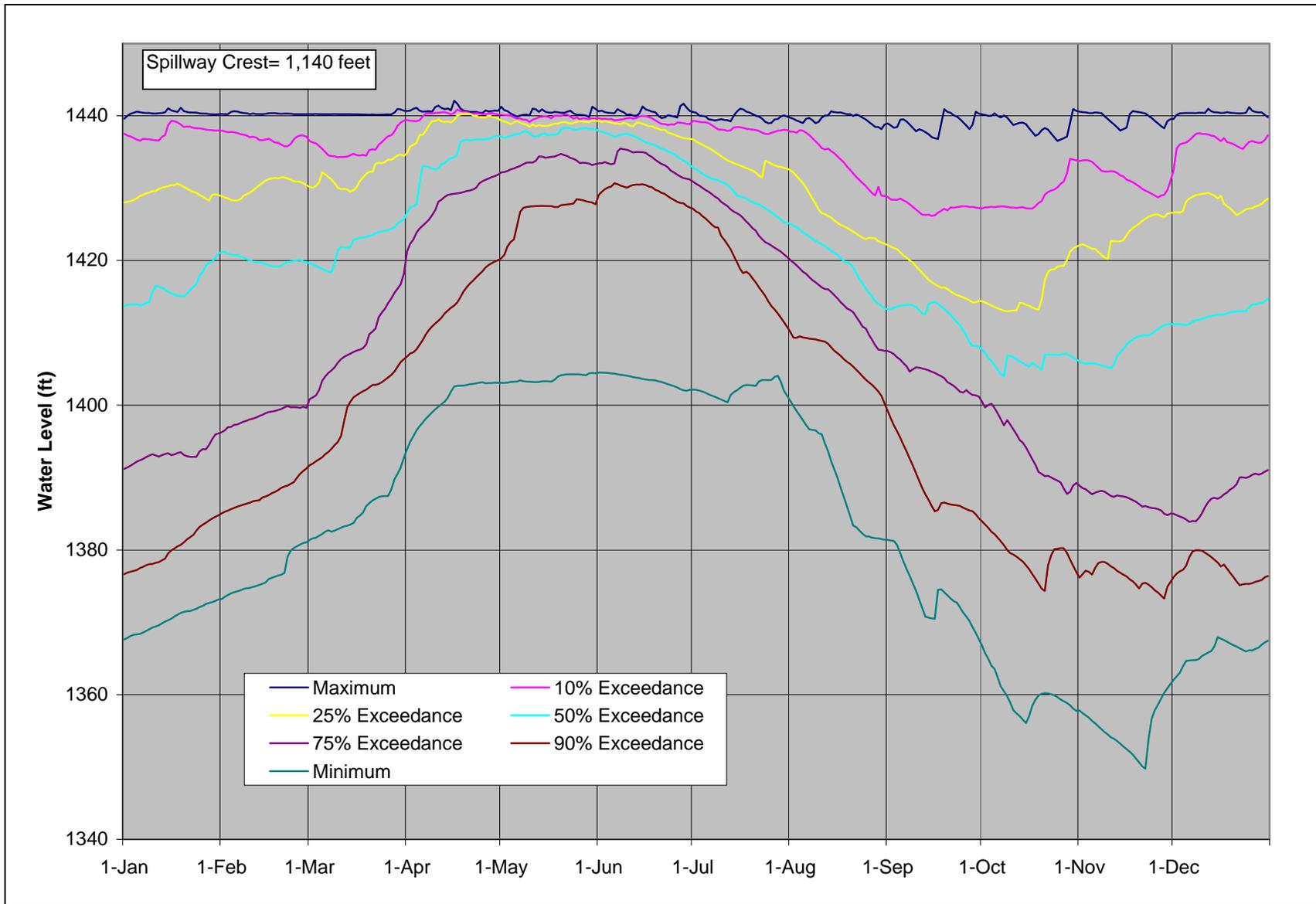


**Figure 3.6.3-3: Downsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation and Directed Releases from 1998-2007 (Existing Conditions), Drainage area at dam = 372 square miles**

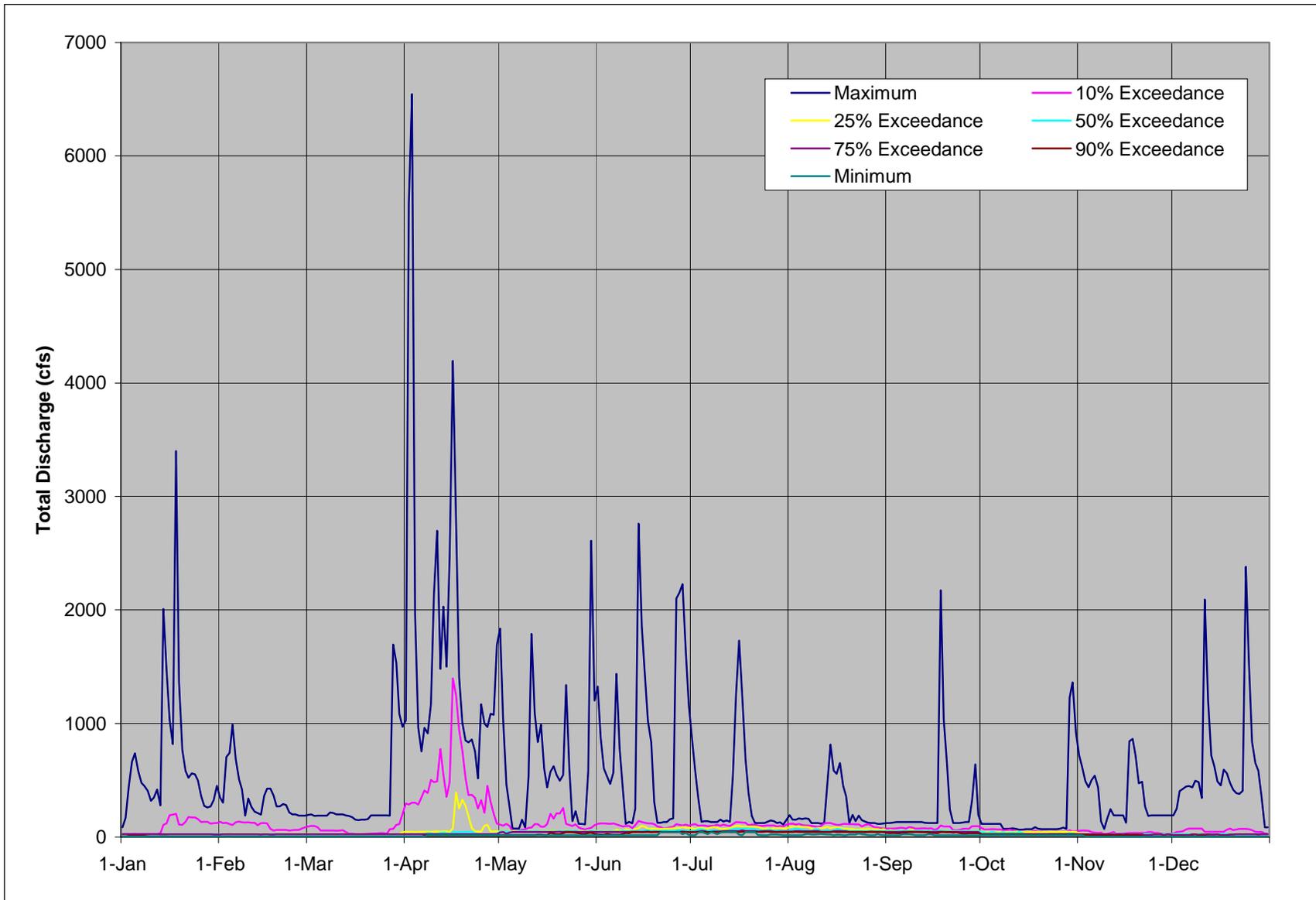


**Figure 3.6.3-4: Downsville Dam Annual Water Withdrawal from 1982-2007 (Existing Conditions)**

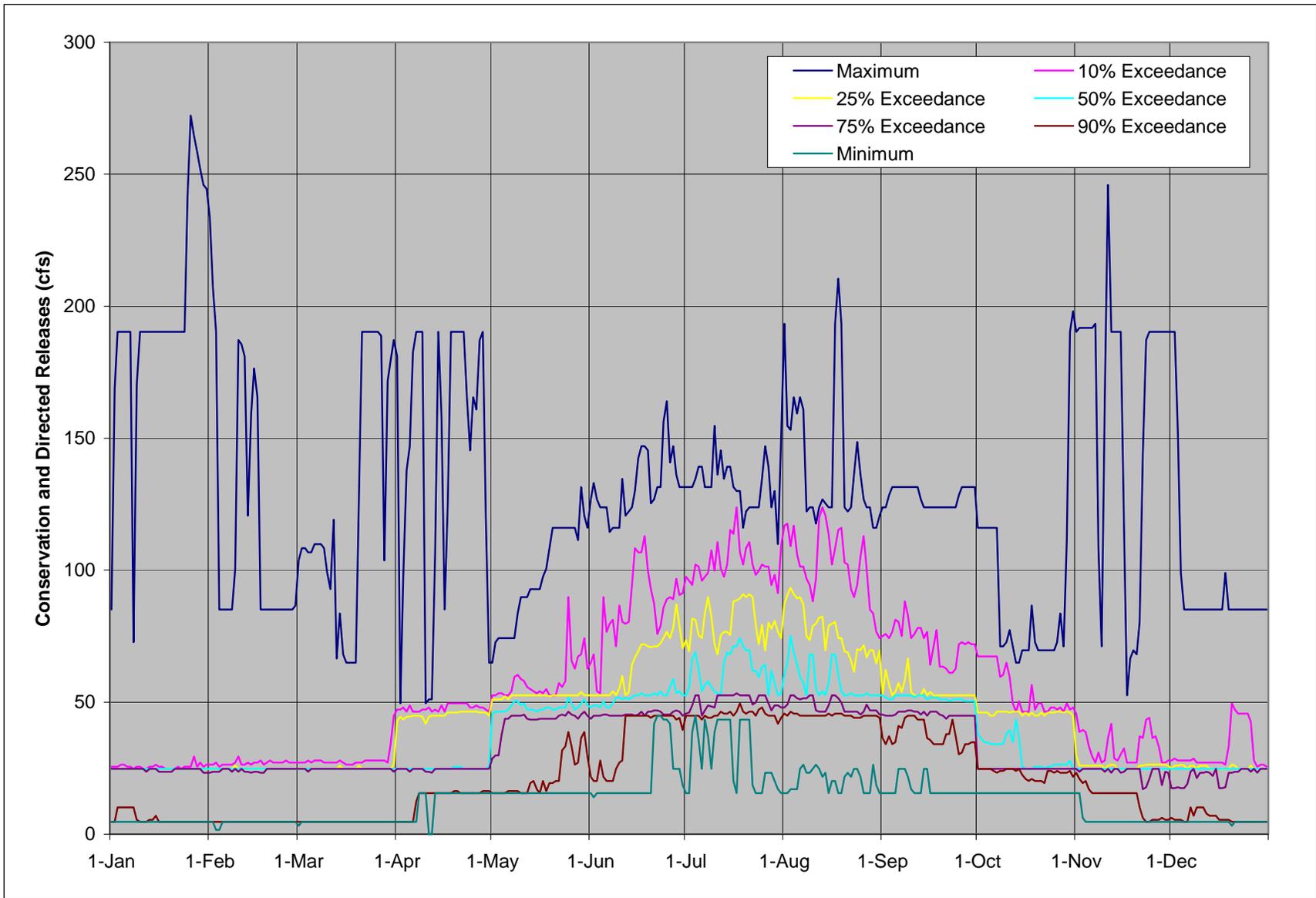
Drainage area at dam = 372 square miles



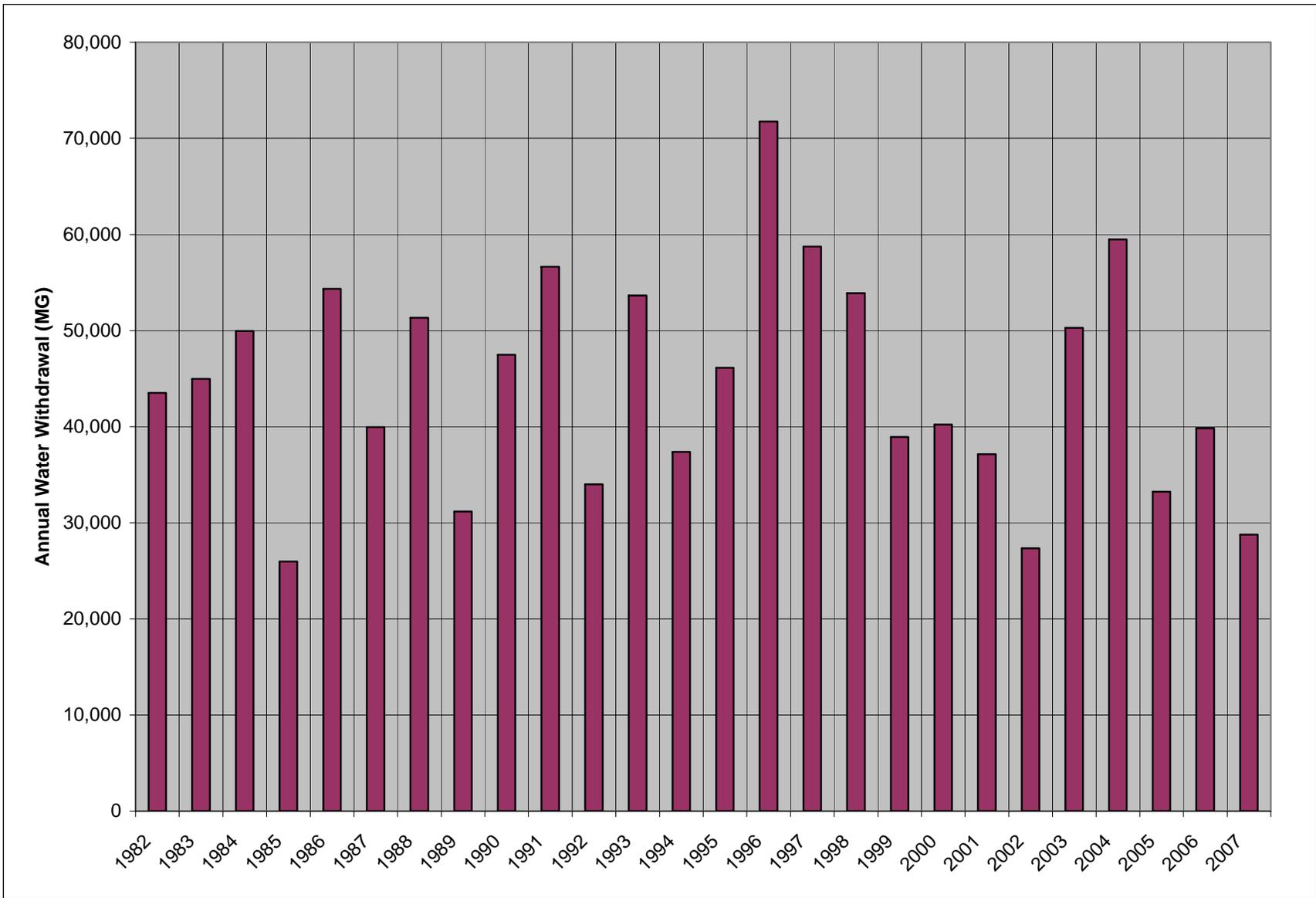
**Figure 3.6.4-1: Neversink Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1982-2007 (Existing Conditions), Drainage area at dam = 92.6 square miles**



**Figure 3.6.4-2: Neversink Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1982-2007 (Existing Conditions), Drainage area at dam = 92.6 square miles**

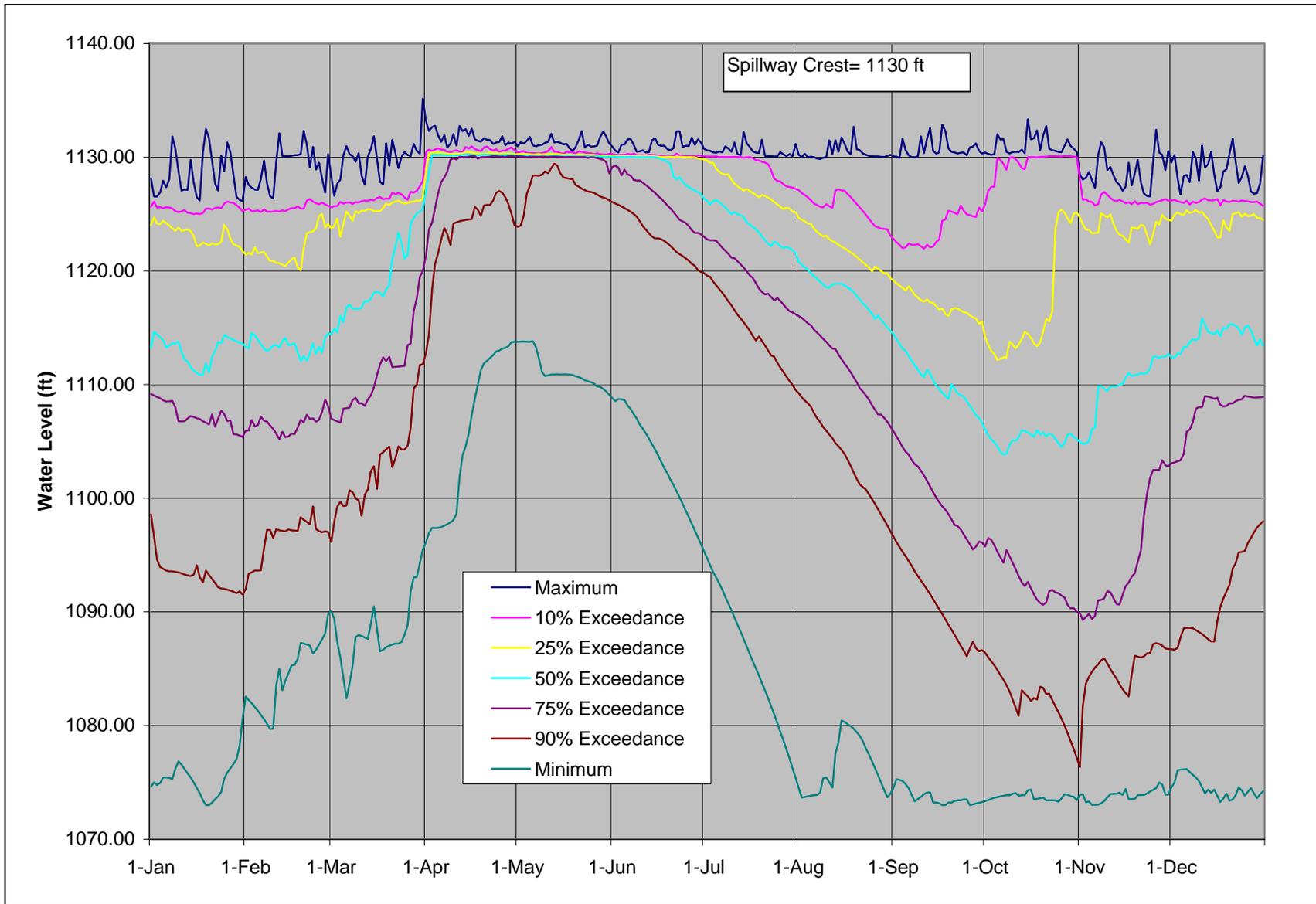


**Figure 3.6.4-3: Neversink Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation and Directed Releases from 1982-2007 (Existing Conditions), Drainage area at dam = 92.6 square miles**

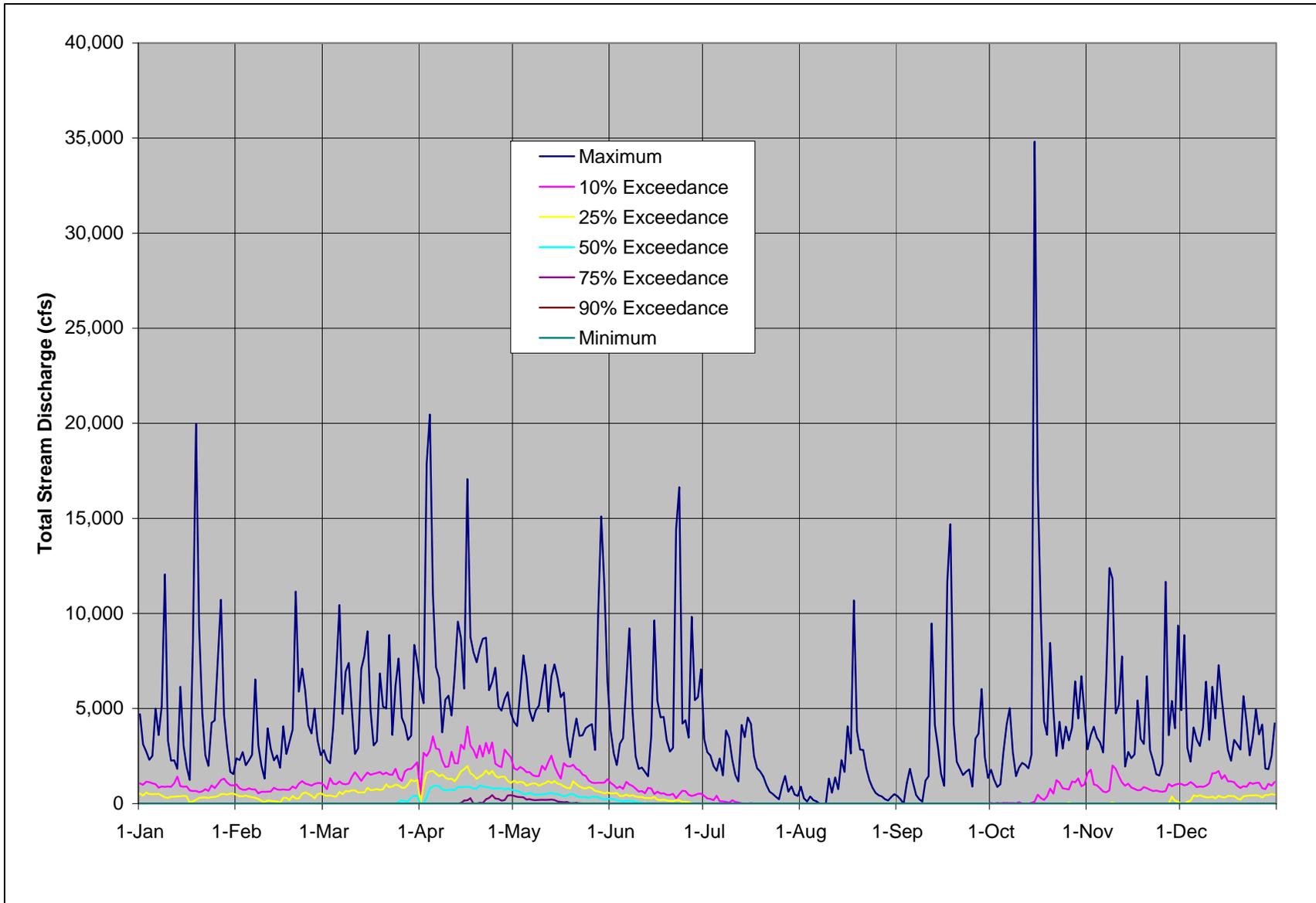


**Figure 3.6.4-4: Neversink Dam Annual Water Withdrawal from 1982-2007 (Existing Conditions)**

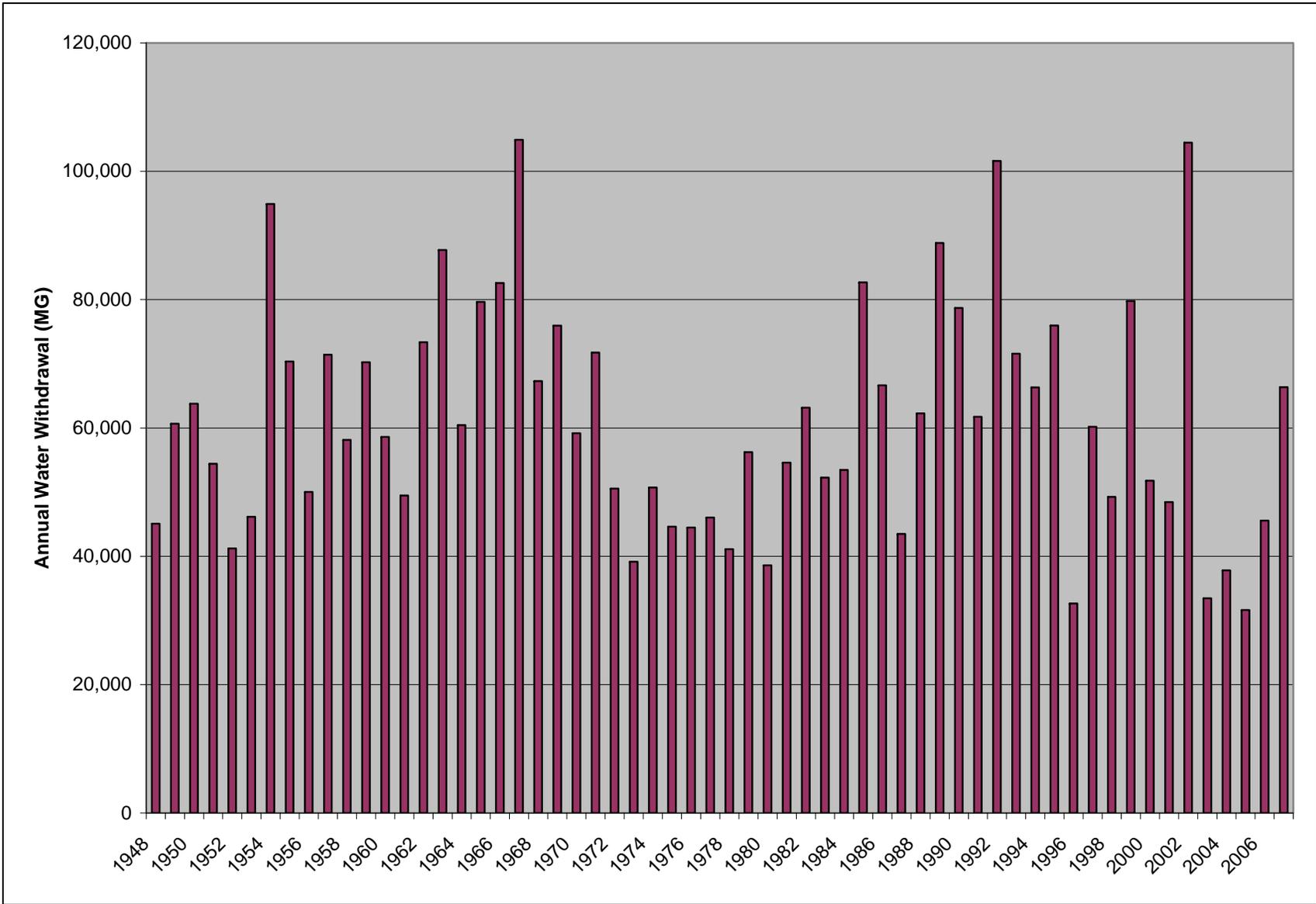
Drainage area at dam = 92.6 square miles



**Figure 3.7.1-1: Schoharie Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 316 square miles**

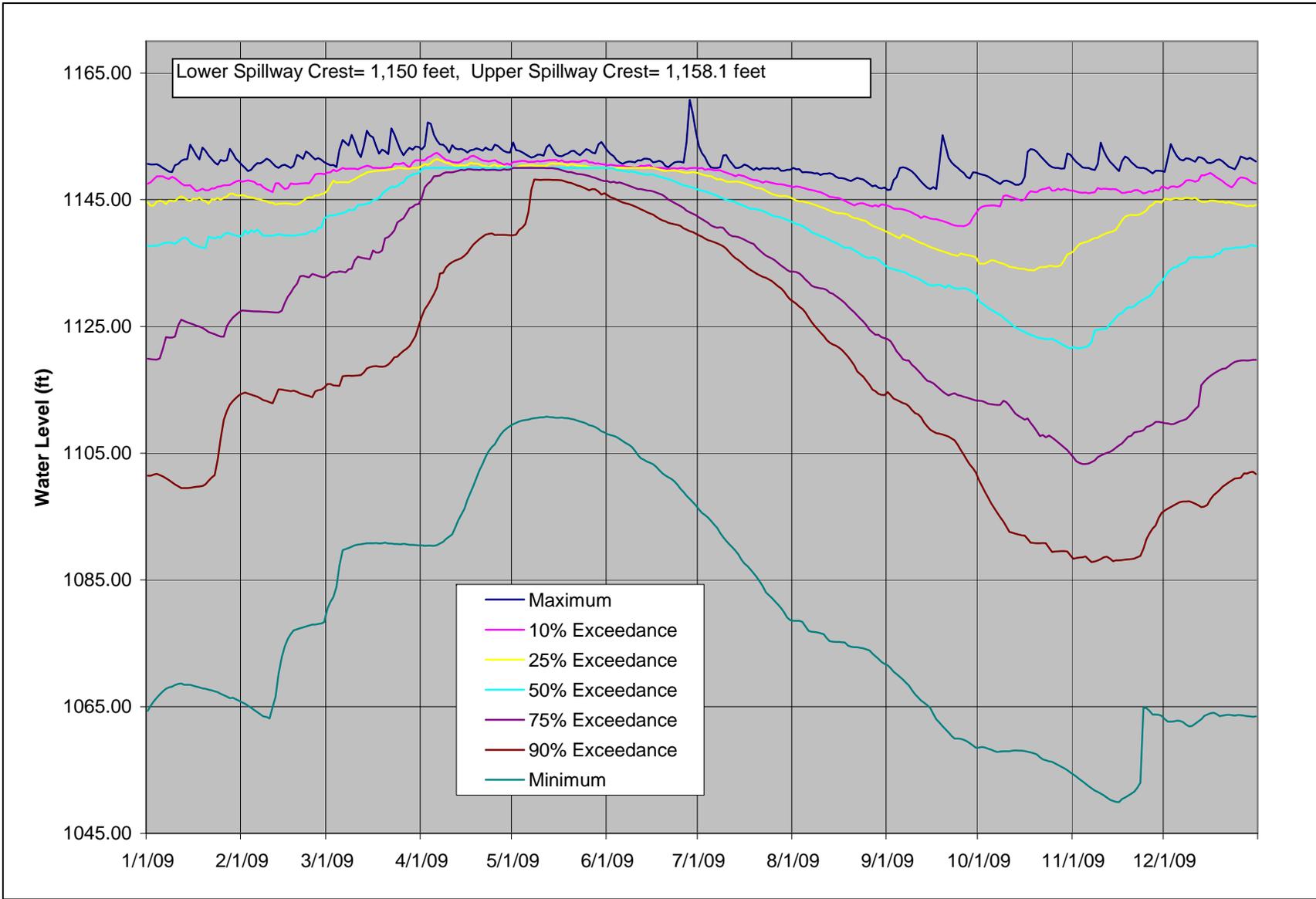


**Figure 3.7.1-2: Gilboa Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 316 square miles**

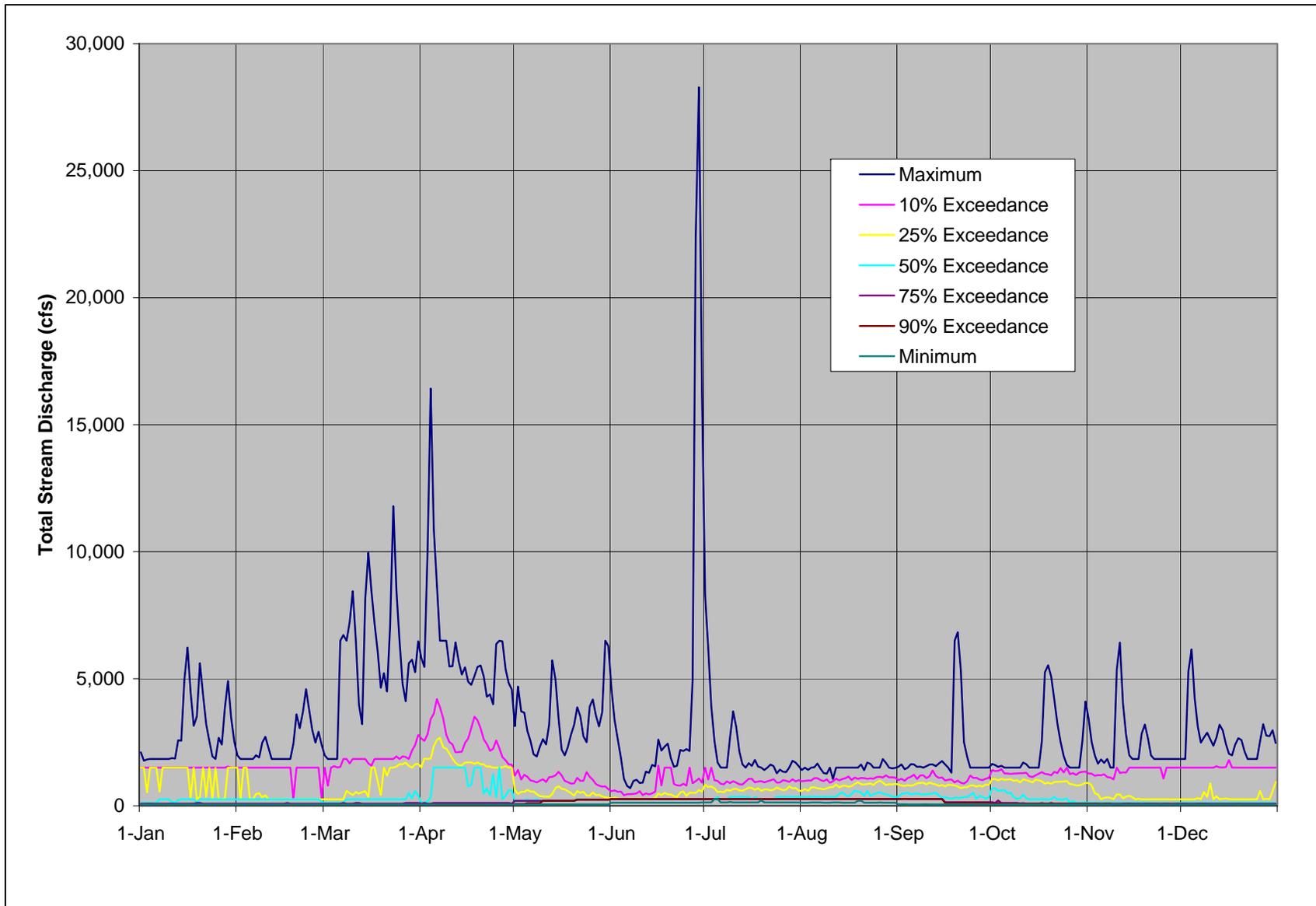


**Figure 3.7.1-3: Schoharie Annual Water Withdrawal from 1948-2008 (OASIS Modeling Results)**

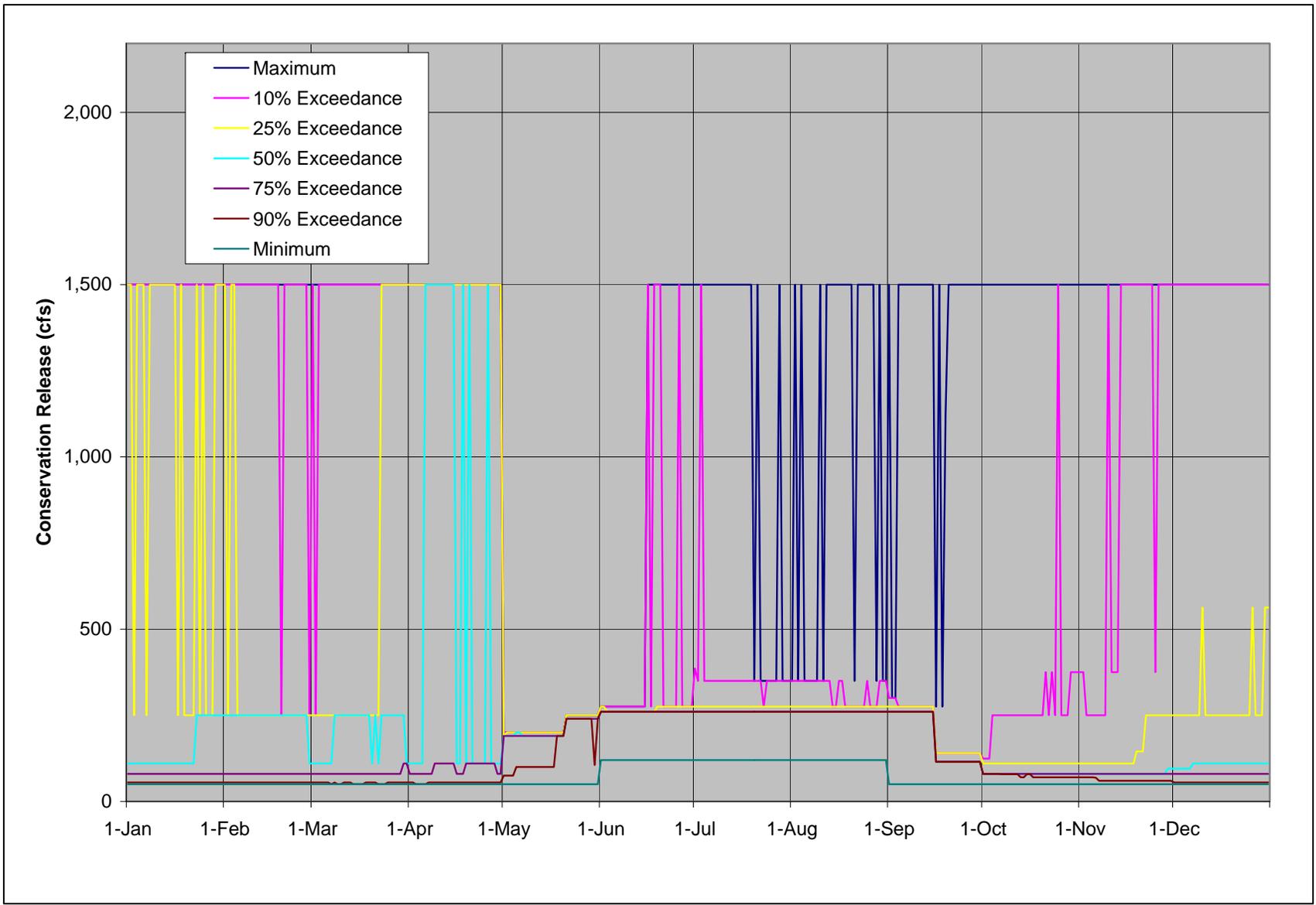
Drainage area at dam = 316 square miles



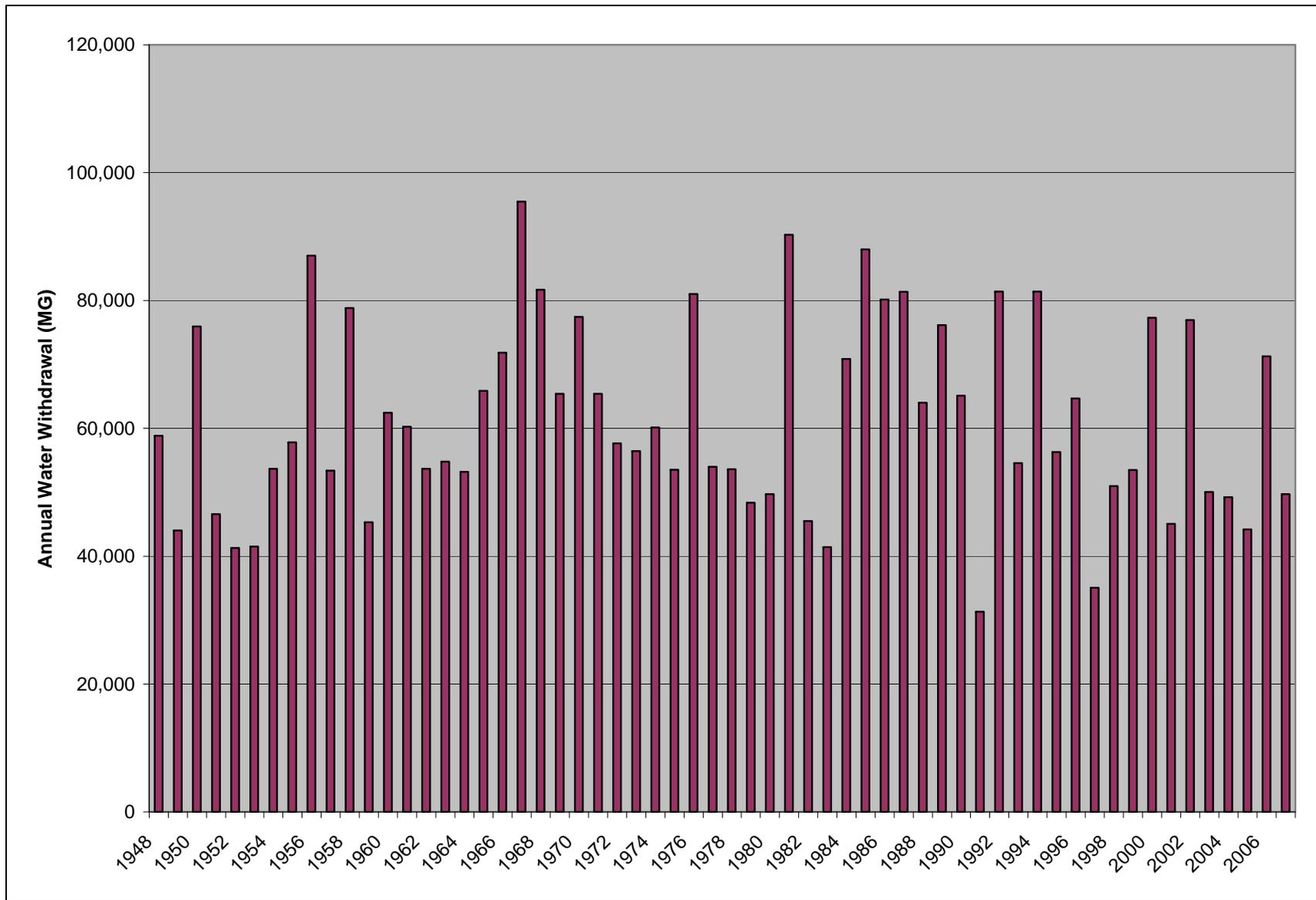
**Figure 3.7.2-1: Cannonsville Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 454 square miles**



**Figure 3.7.2-2: Cannonsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 454 square miles**

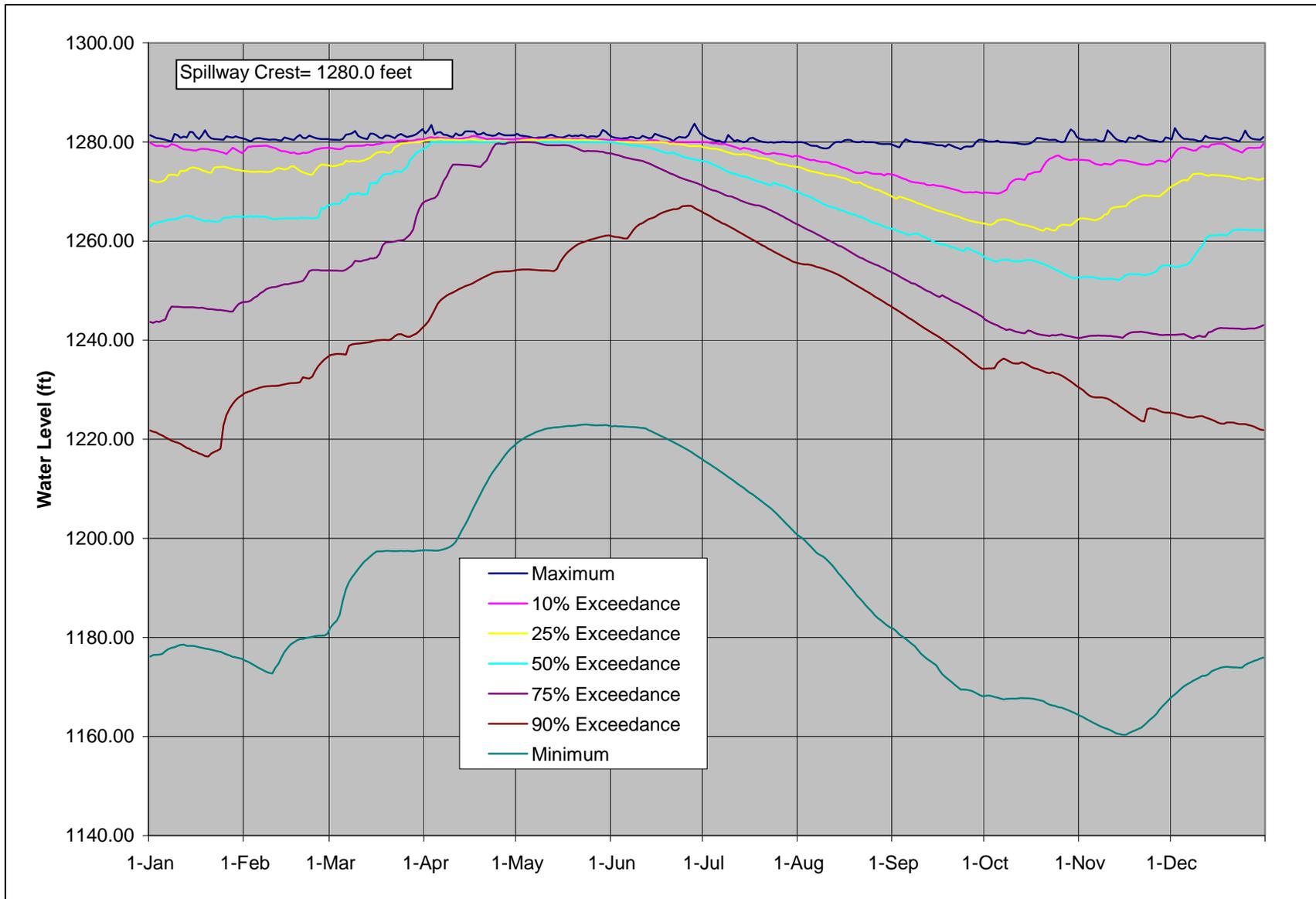


**Figure 3.7.2-3: Cannonsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation Releases from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 454 square miles**

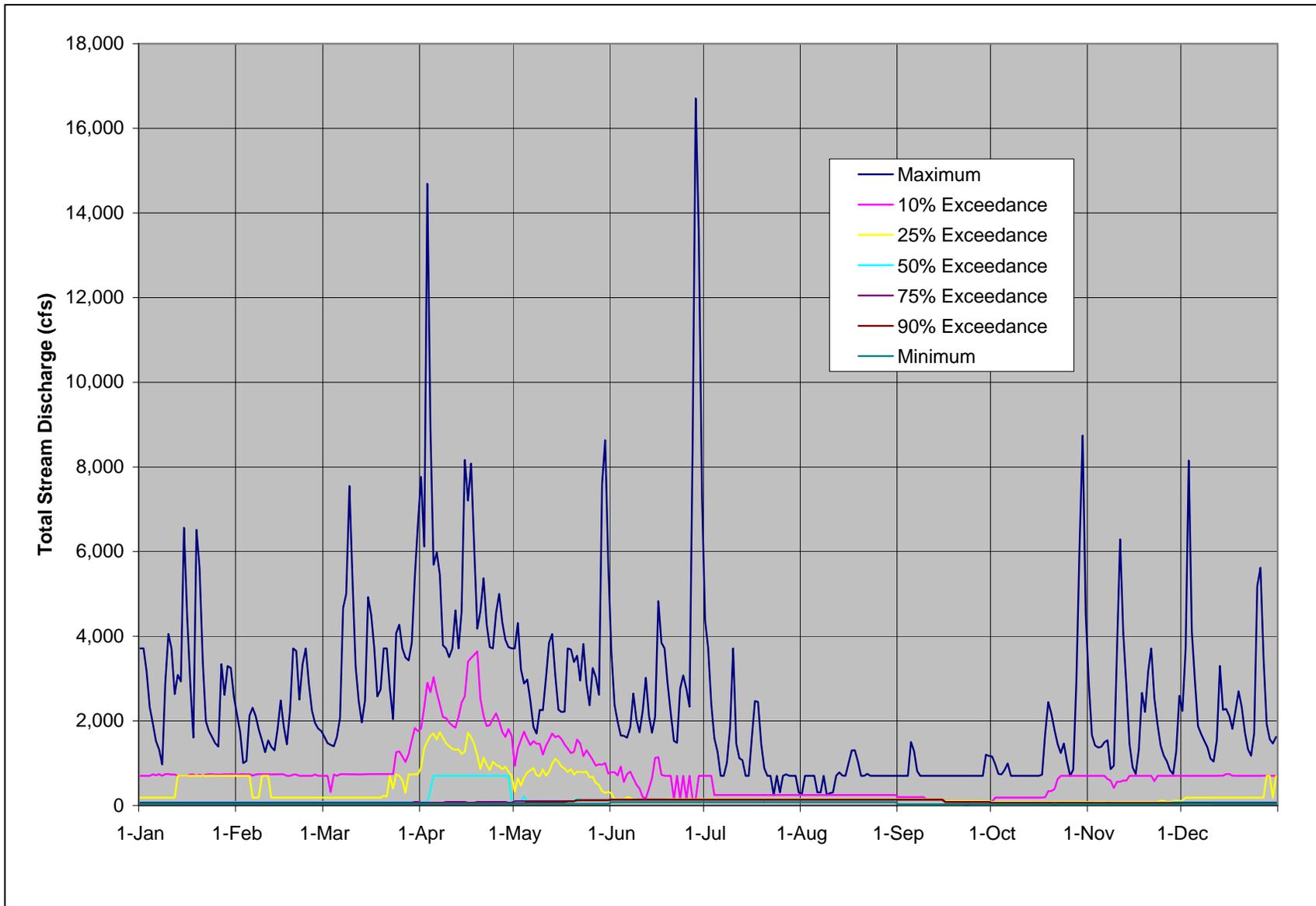


**Figure 3.7.2-4: Cannonsville Annual Water Withdrawal from 1948-2008 (OASIS Modeling Results)**

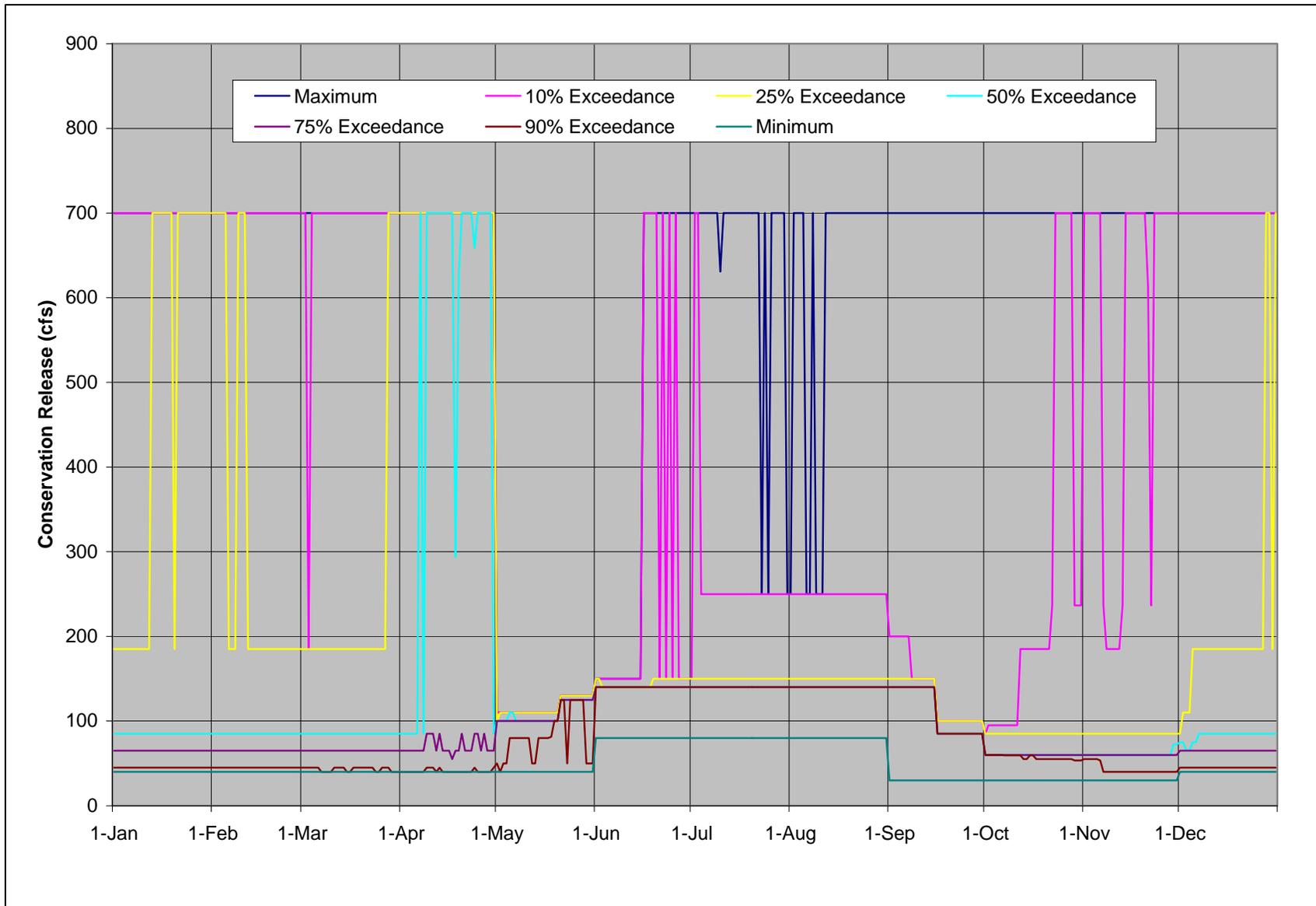
Drainage area at dam = 454 square miles



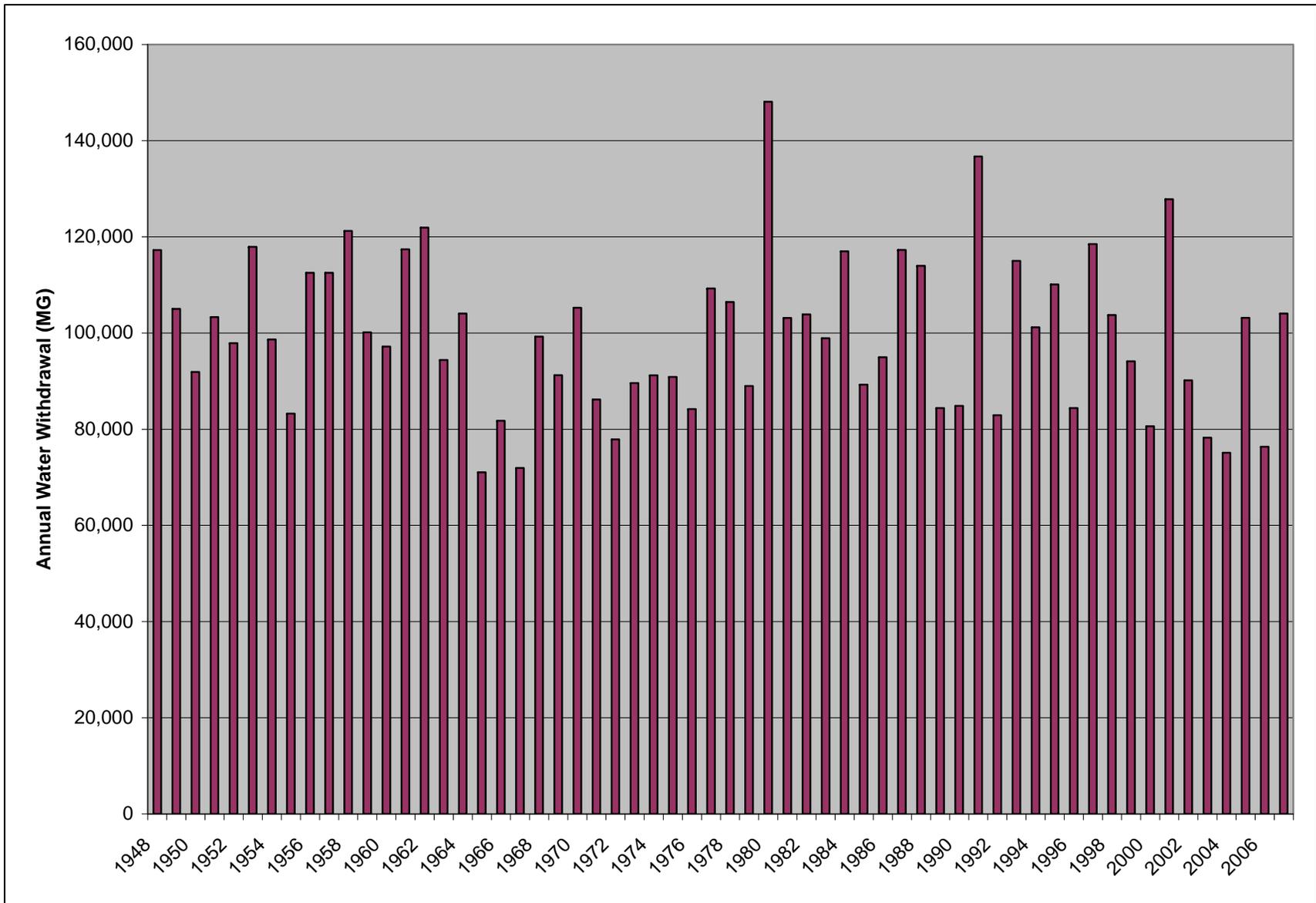
**Figure 3.7.3-1: Pepacton Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 372 square miles**



**Figure 3.7.3-2: Downsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 372 square miles**

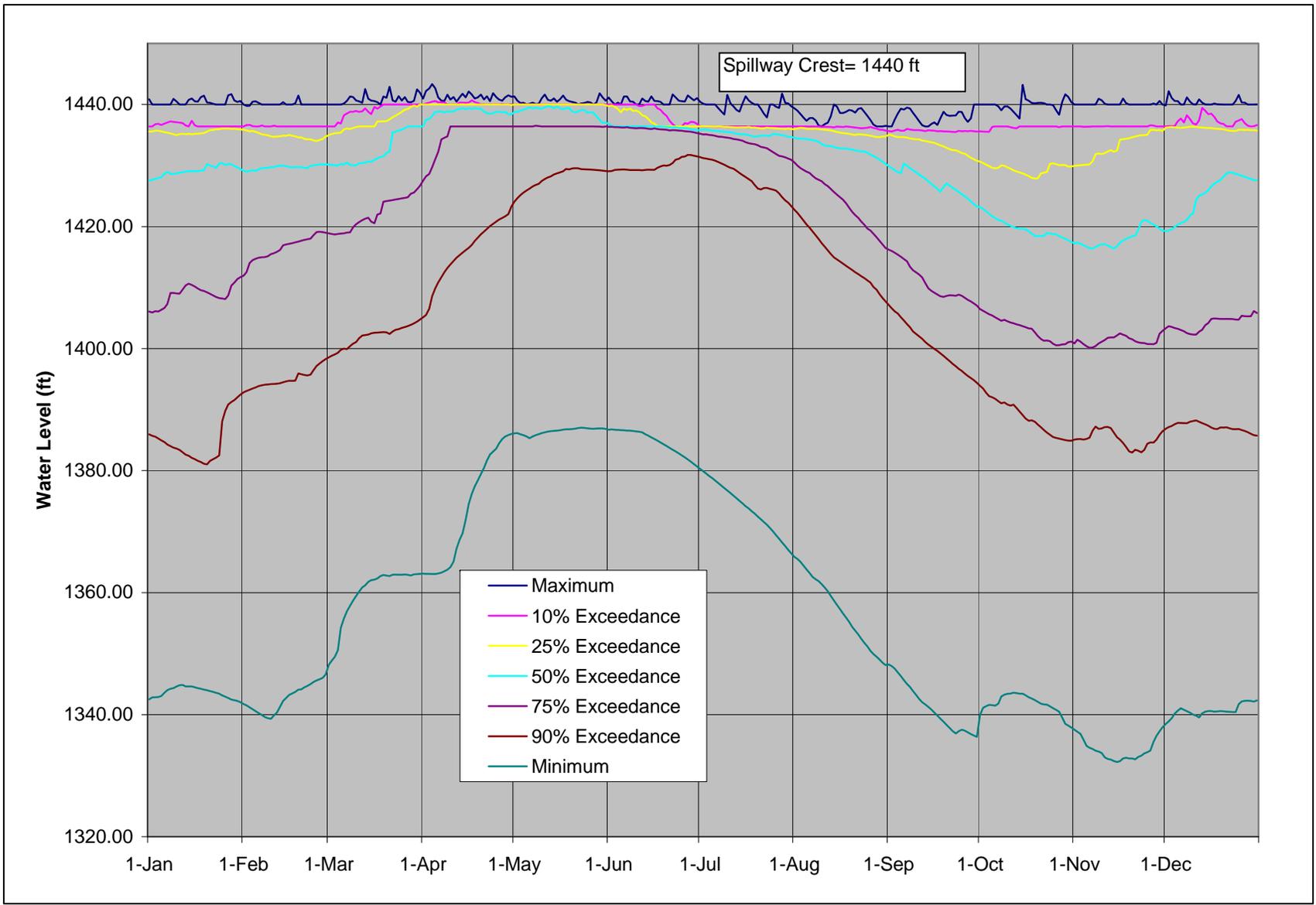


**Figure 3.7.3-3: Downsville Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation Releases from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 372 square miles**

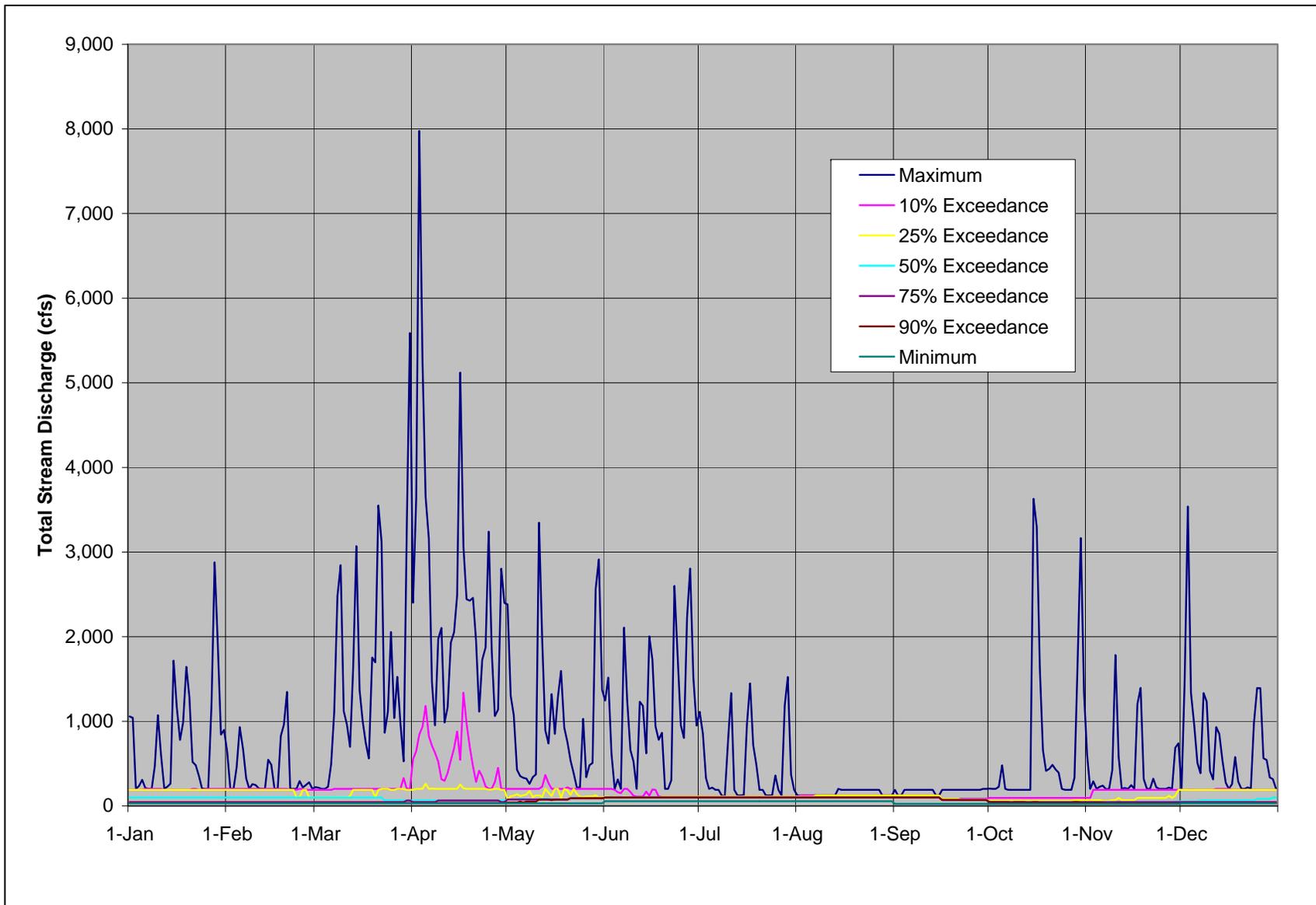


**Figure 3.7.3-4: Downsville Dam Annual Water Withdrawal from 1948-2008 (OASIS Modeling Results)**

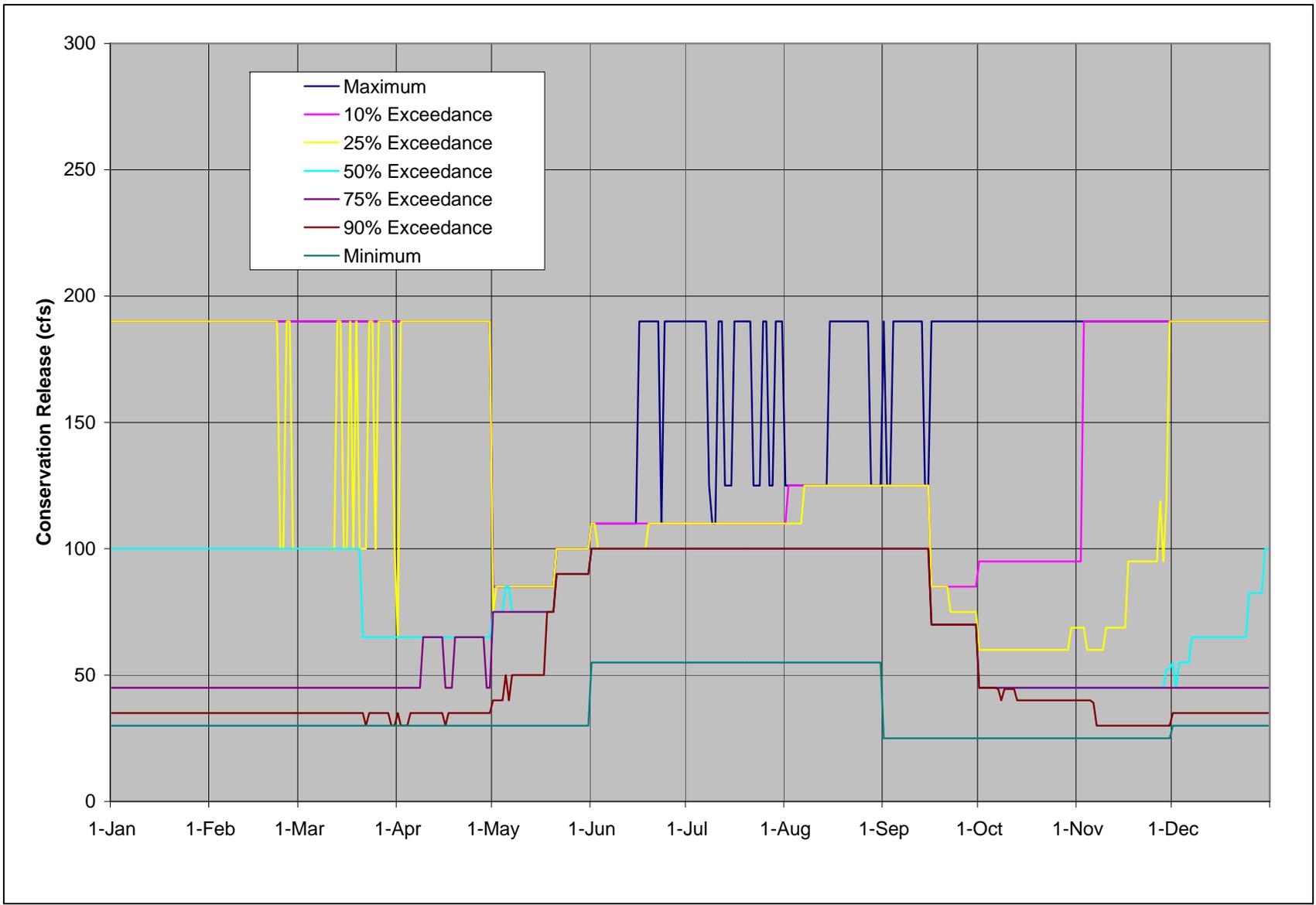
Drainage area at dam = 372 square miles



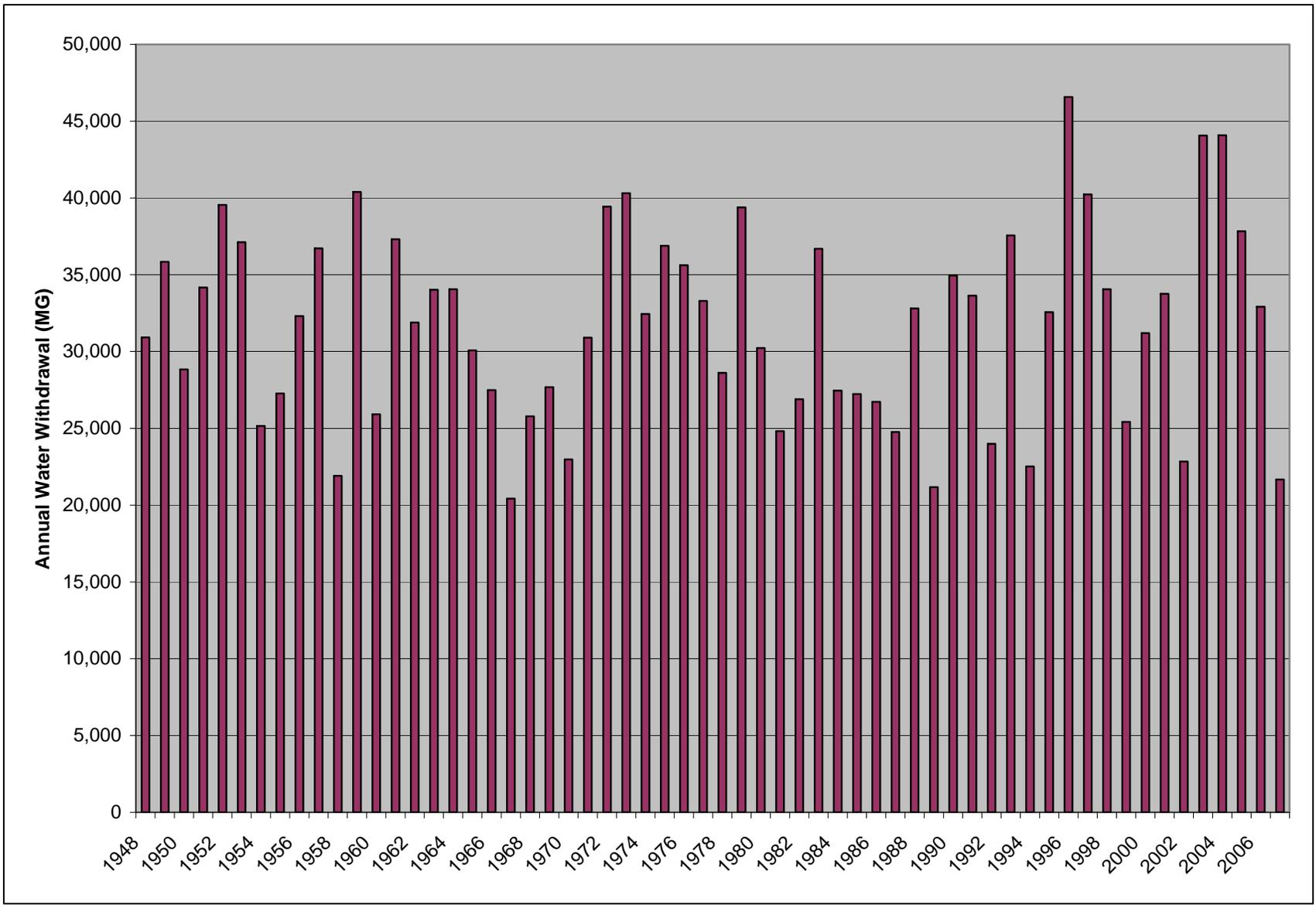
**Figure 3.7.4-1: Neversink Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Reservoir Levels from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 92.6 square miles**



**Figure 3.7.4-2: Neversink Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Total Discharge from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 92.6 square miles**

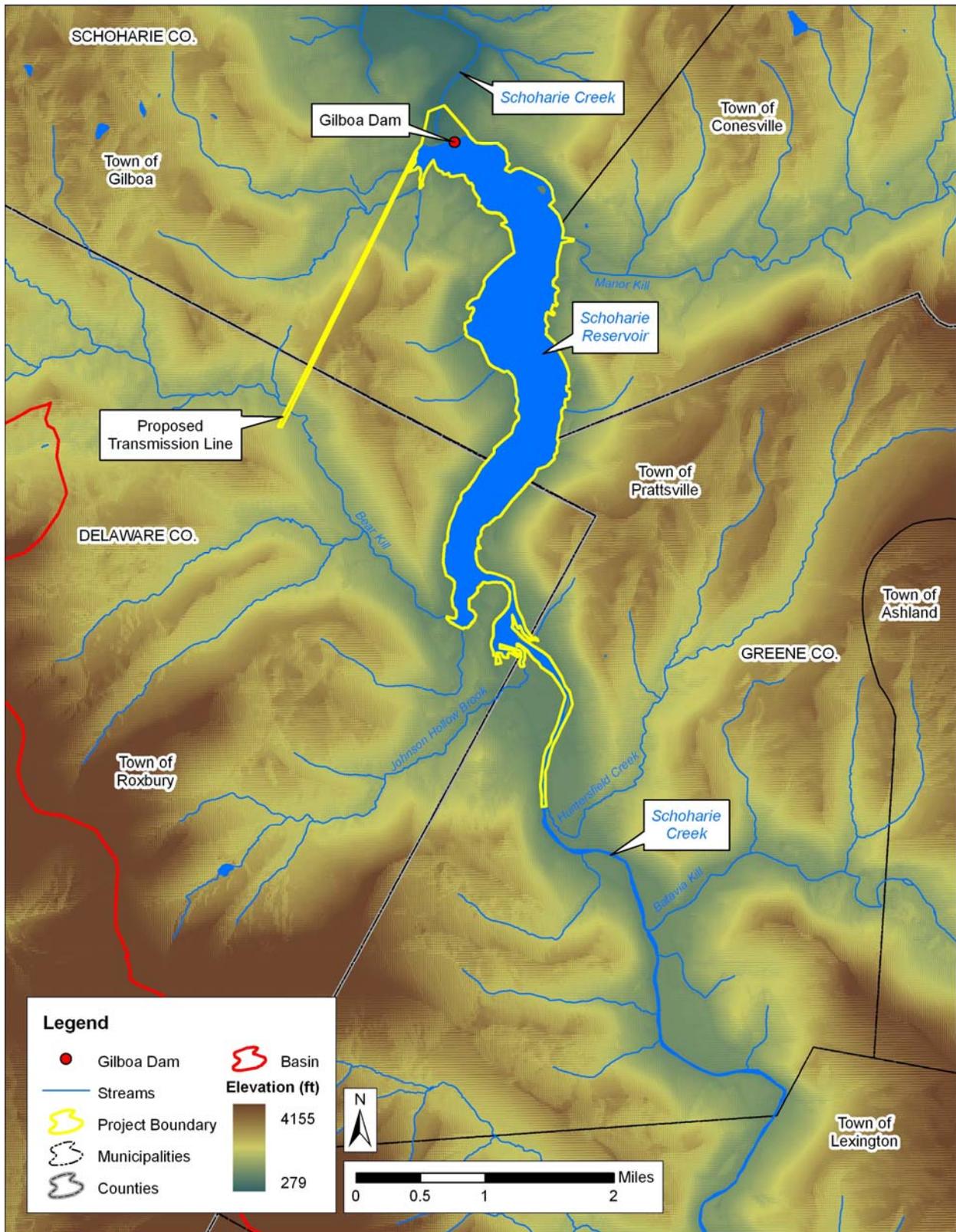


**Figure 3.7.4-3: Neversink Dam Minimum, 10%, 25%, 50%, 75%, 90%, and Maximum Exceedance of Conservation Releases from 1948-2008 (OASIS Modeling Results), Drainage area at dam = 92.6 square miles**



**Figure 3.7.4-4: Neversink Dam Annual Water Withdrawal from 1948-2008 (OASIS Modeling Results)**

Drainage area at dam = 92.6 square miles



**Figure 4.2.1.1-1: Schoharie Development Topographic Map**

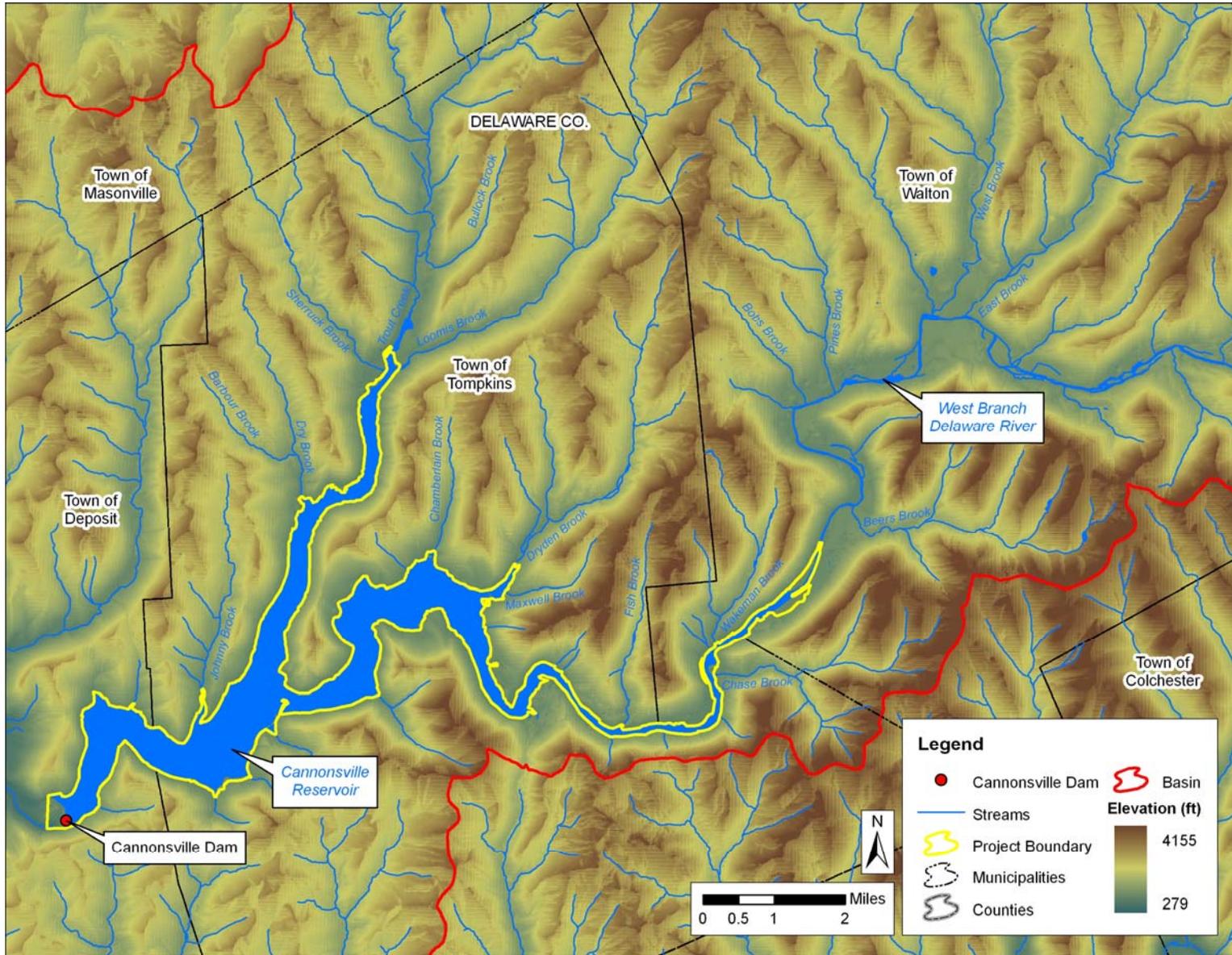


Figure 4.2.1.2-1: Cannonsville Development Topographic Map

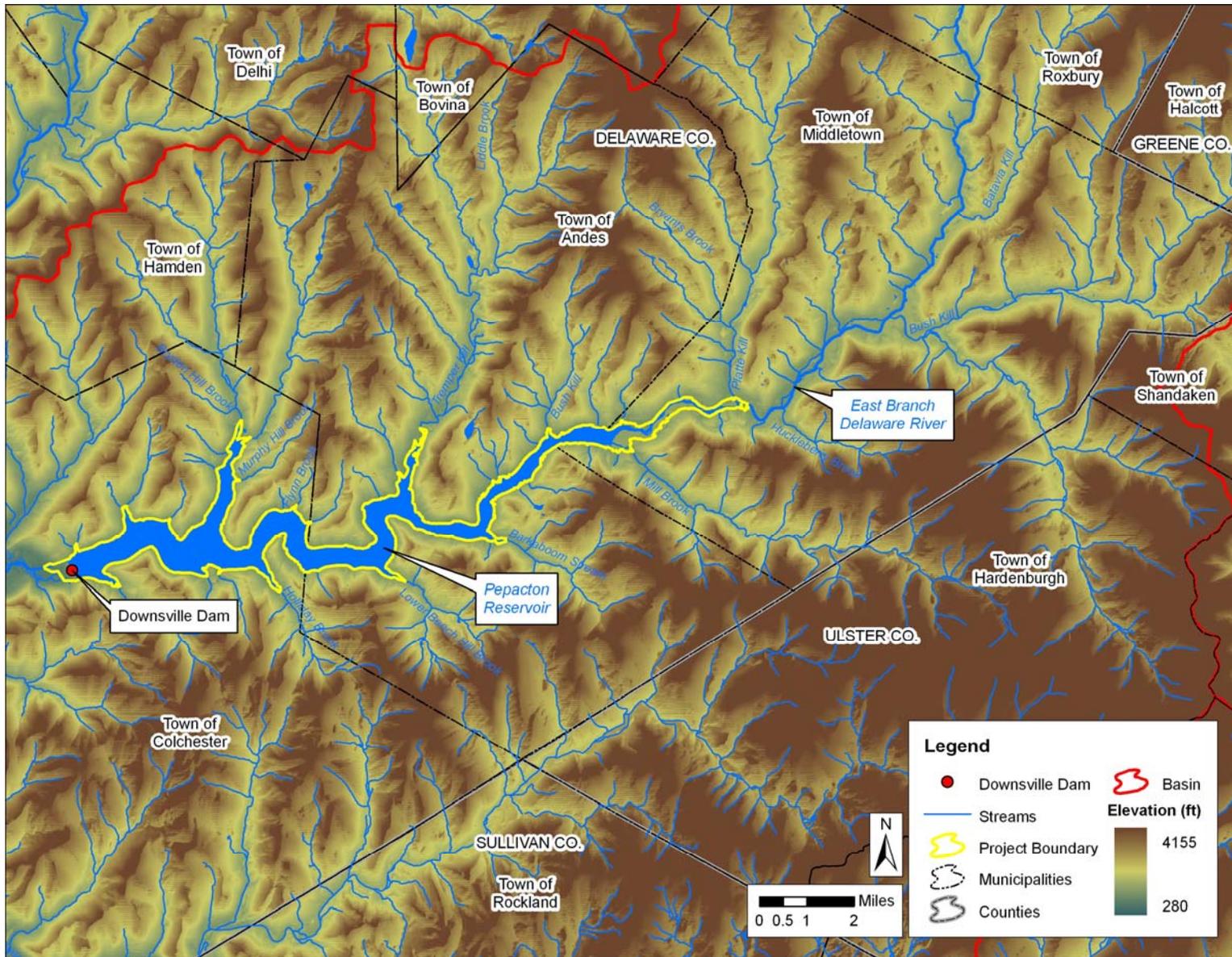
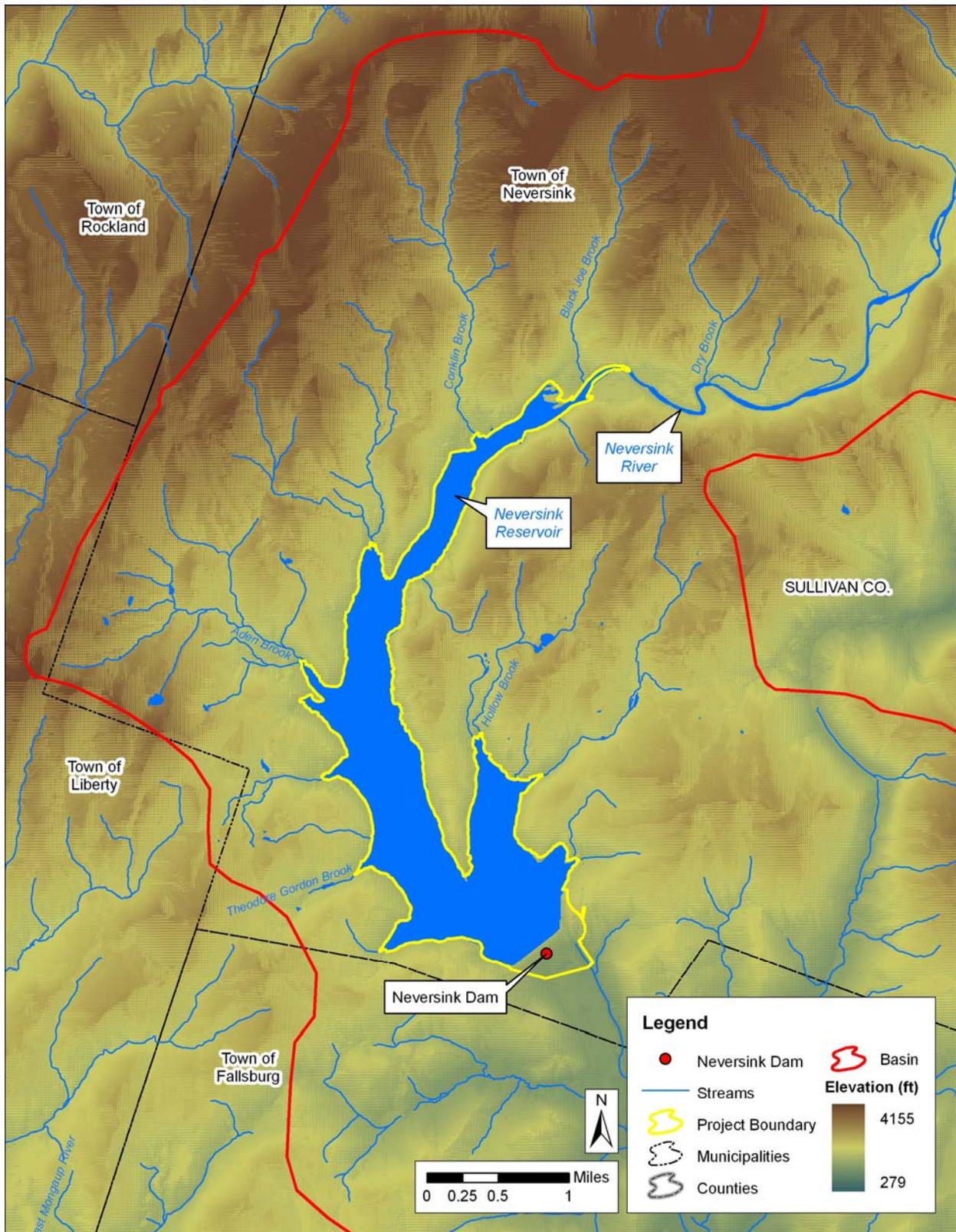
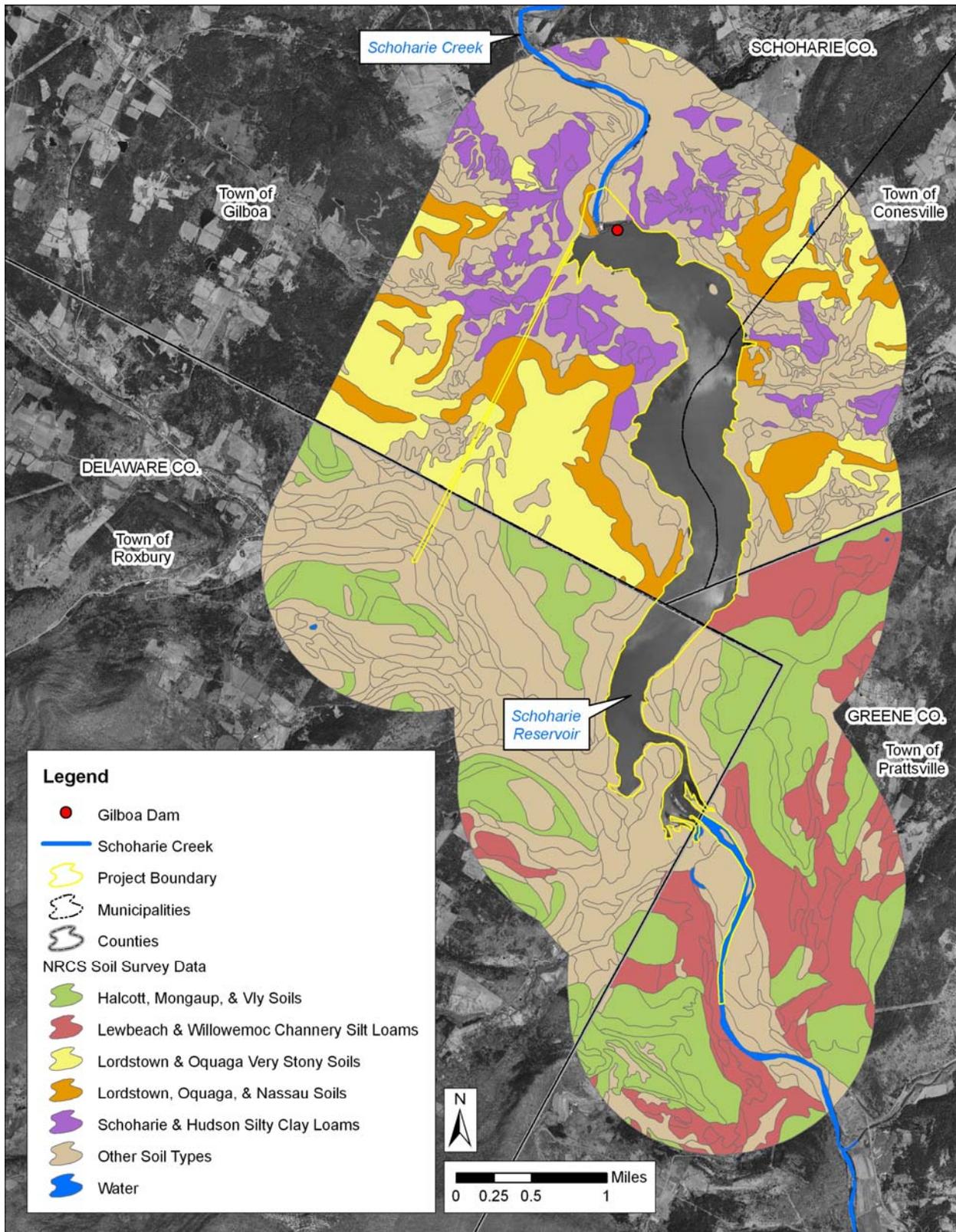


Figure 4.2.1.3-1: Pepacton Development Topographic Map



**Figure 4.2.1.4-1: Neversink Development Topographic Map**



**Figure 4.2.3.1-1: Dominant Soil Types within 1 Mile of the Schoharie Reservoir**



**Figure 4.2.3.1-2: Soil Types near Gilboa Dam (Schoharie Development)**  
*See legend of soil types on following page.*

### Legend for Figure 4.2.3.1-2

#### Soils near Gilboa Dam (Schoharie Development)

-  Al - Alluvial land
-  LrF - Lordstown, Oquaga, and Nassau soils, 35 to 70 percent slopes
-  MdF - Mardin and Cattaraugus soils, 35 to 70 percent slopes
-  MeE - Mardin and Culvers very stony soils, 0 to 35 percent slopes
-  ShB - Schoharie and Hudson silt loams, 2 to 6 percent slopes
-  ShC - Schoharie and Hudson silt loams, 6 to 12 percent slopes
-  SnC3 - Schoharie and Hudson silty clay loams, 6 to 12 percent slopes, eroded
-  SnD3 - Schoharie and Hudson silty clay loams, 12 to 20 percent slopes, eroded
-  SoE - Schoharie soils, 20 to 40 percent slopes

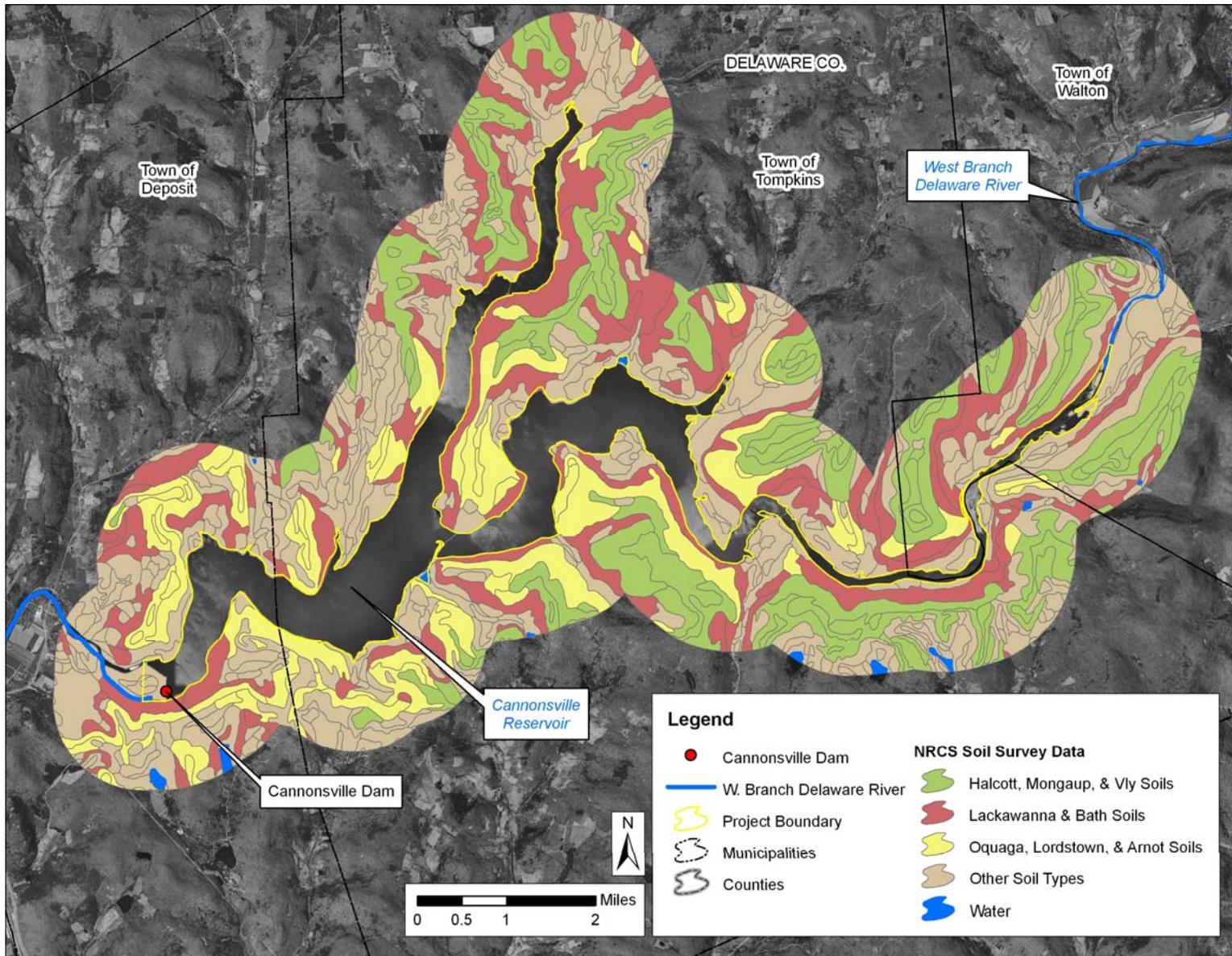
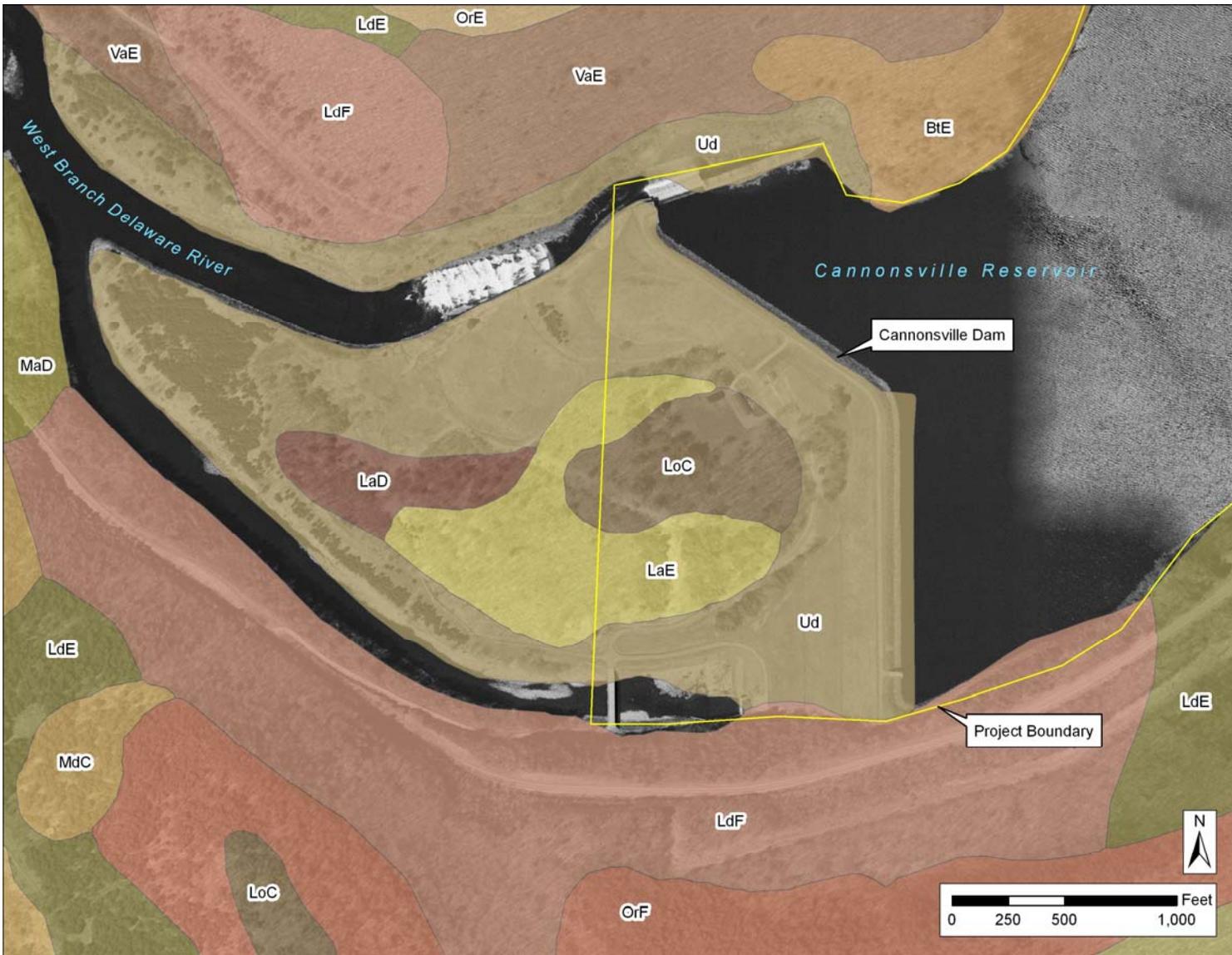


Figure 4.2.3.2-1: Dominant Soil Types within 1 Mile of the Cannonsville Reservoir



**Figure 4.2.3.2-2: Soil Types near Cannonsville Dam**  
 See legend of soil types on following page.

## Legend for Figure 4.2.3.2-2

### Soils near Cannonsville Dam

-  BtE - Bath channery silt loam, 25 to 35 percent slopes
-  LaD - Lackawanna flaggy silt loam, 15 to 25 percent slopes
-  LaE - Lackawanna flaggy silt loam, 25 to 40 percent slopes
-  LdE - Lackawanna and Bath soils, 15 to 35 percent slopes, very stony
-  LdF - Lackawanna and Bath soils, 35 to 55 percent slopes, very stony
-  LoC - Lordstown channery silt loam, 8 to 15 percent slopes
-  LoE - Lordstown channery silt loam, 25 to 40 percent slopes
-  MaC - Maplecrest gravelly silt loam, 8 to 15 percent slopes
-  MaD - Maplecrest gravelly silt loam, 15 to 25 percent slopes
-  MdC - Mardin channery silt loam, 8 to 15 percent slopes
-  OrE - Oquaga, Lordstown, and Arnot soils, 15 to 35 percent slopes, very rocky
-  OrF - Oquaga, Lordstown, and Arnot soils, 35 to 70 percent slopes, very rocky
-  Ud - Udorthents, graded
-  VaE - Valois very fine sandy loam, 25 to 60 percent slopes

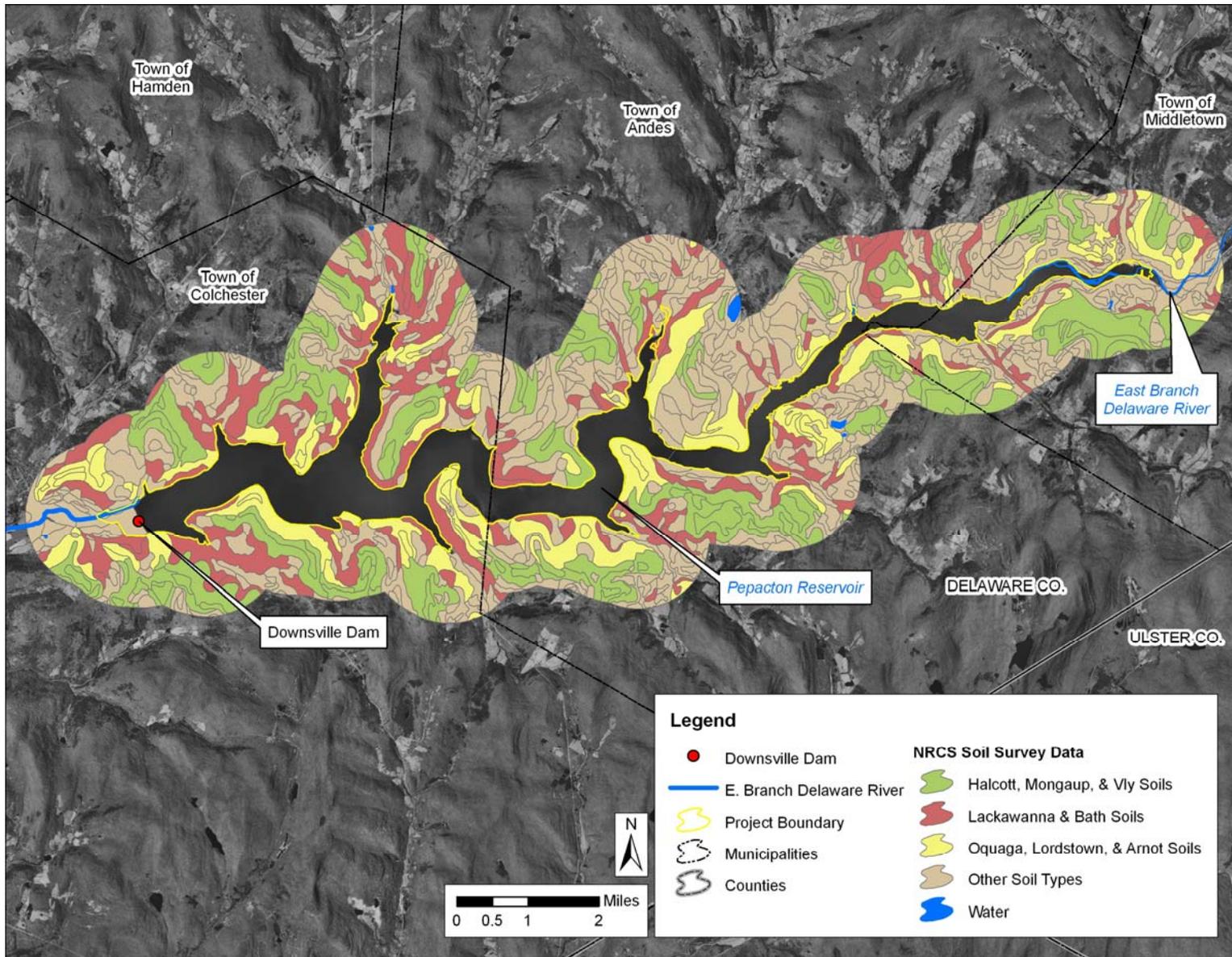
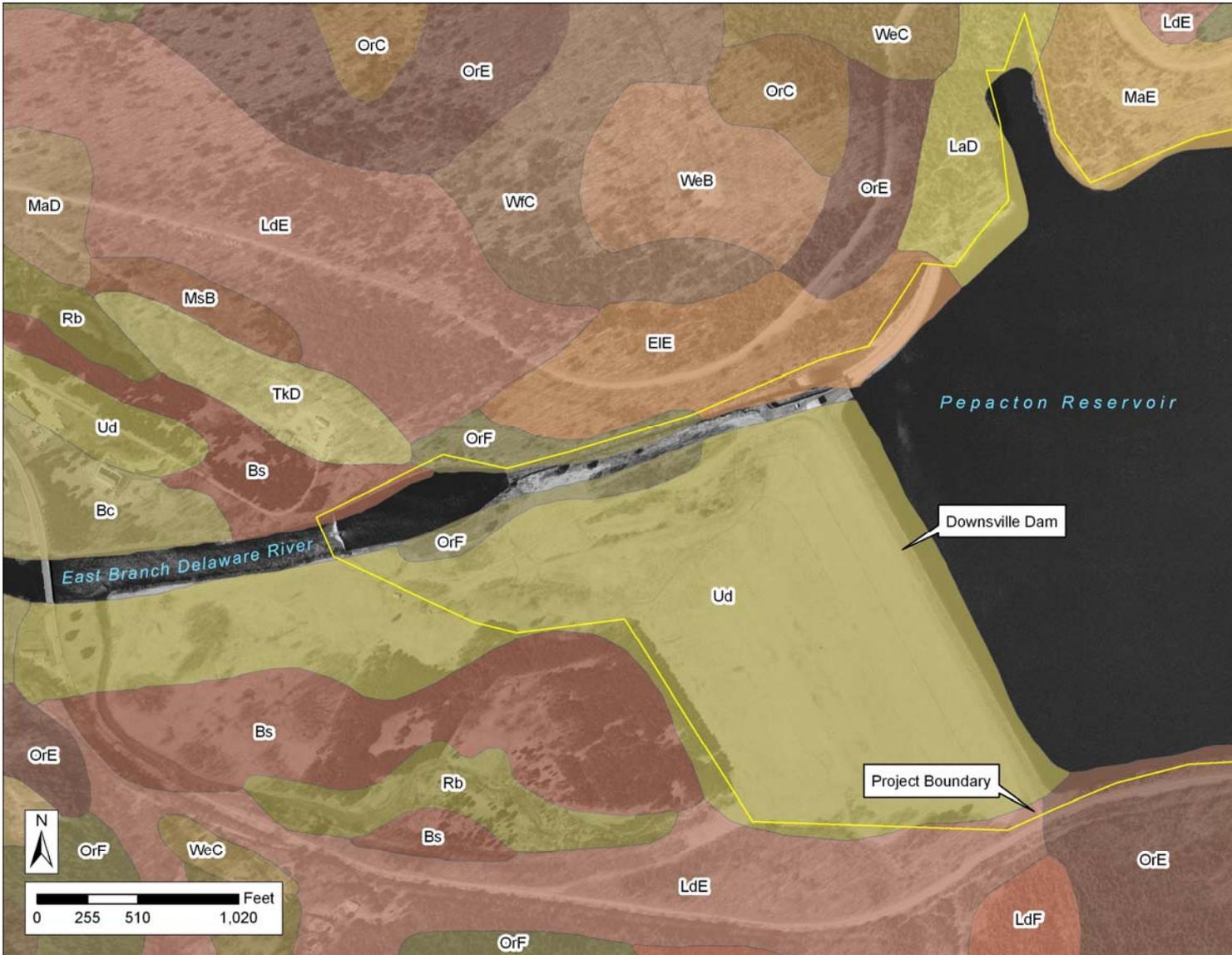


Figure 4.2.3.3-1: Dominant Soil Types within 1 Mile of the Pepacton Reservoir

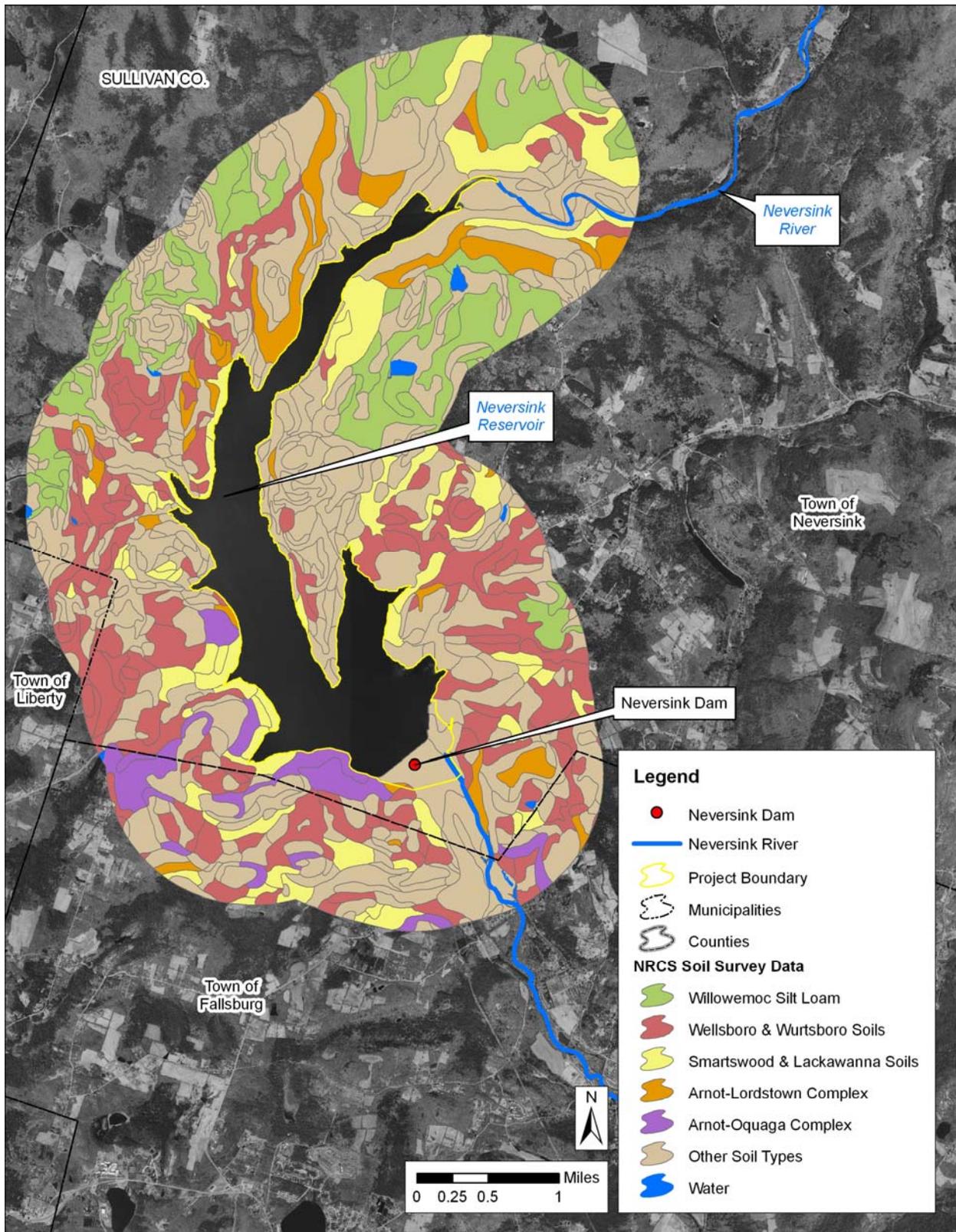


**Figure 4.2.3.3-2: Soil Types near Downsville Dam (Pepacton Development)**  
 See legend of soil types on following page.

## Legend for Figure 4.2.3.3-2

### Soils near Downsville Dam (Pepacton Development)

-  Bc - Barbour loam
-  Bs - Basher silt loam
-  EIE - Elka-Vly channery silt loams, 15 to 35 percent slopes, very stony
-  HcE - Halcott, Mongaup, and Vly soils, 15 to 35 percent slopes, very rocky
-  LaD - Lackawanna flaggy silt loam, 15 to 25 percent slopes
-  LdE - Lackawanna and Bath soils, 15 to 35 percent slopes, very stony
-  LdF - Lackawanna and Bath soils, 35 to 55 percent slopes, very stony
-  MaB - Maplecrest gravelly silt loam, 3 to 8 percent slopes
-  MaD - Maplecrest gravelly silt loam, 15 to 25 percent slopes
-  MaE - Maplecrest gravelly silt loam, 25 to 60 percent slopes
-  MsB - Morris and Volusia soils, 2 to 10 percent slopes, very stony
-  OrC - Oquaga, Lordstown, and Arnot soils, 2 to 15 percent slopes, very rocky
-  OrE - Oquaga, Lordstown, and Arnot soils, 15 to 35 percent slopes, very rocky
-  OrF - Oquaga, Lordstown, and Arnot soils, 35 to 70 percent slopes, very rocky
-  Ph - Pits, quarry
-  Rb - Raypol silt loam
-  TkD - Tunkhannock gravelly loam, 15 to 25 percent slopes
-  Ud - Udorthents, graded
-  WeB - Wellsboro channery silt loam, 3 to 8 percent slopes
-  WeC - Wellsboro channery silt loam, 8 to 15 percent slopes
-  WfC - Wellsboro and Mardin soils, 2 to 15 percent slopes, very stony



**Figure 4.2.3.4-1: Dominant Soil Types within 1 Mile of the Neversink Reservoir**

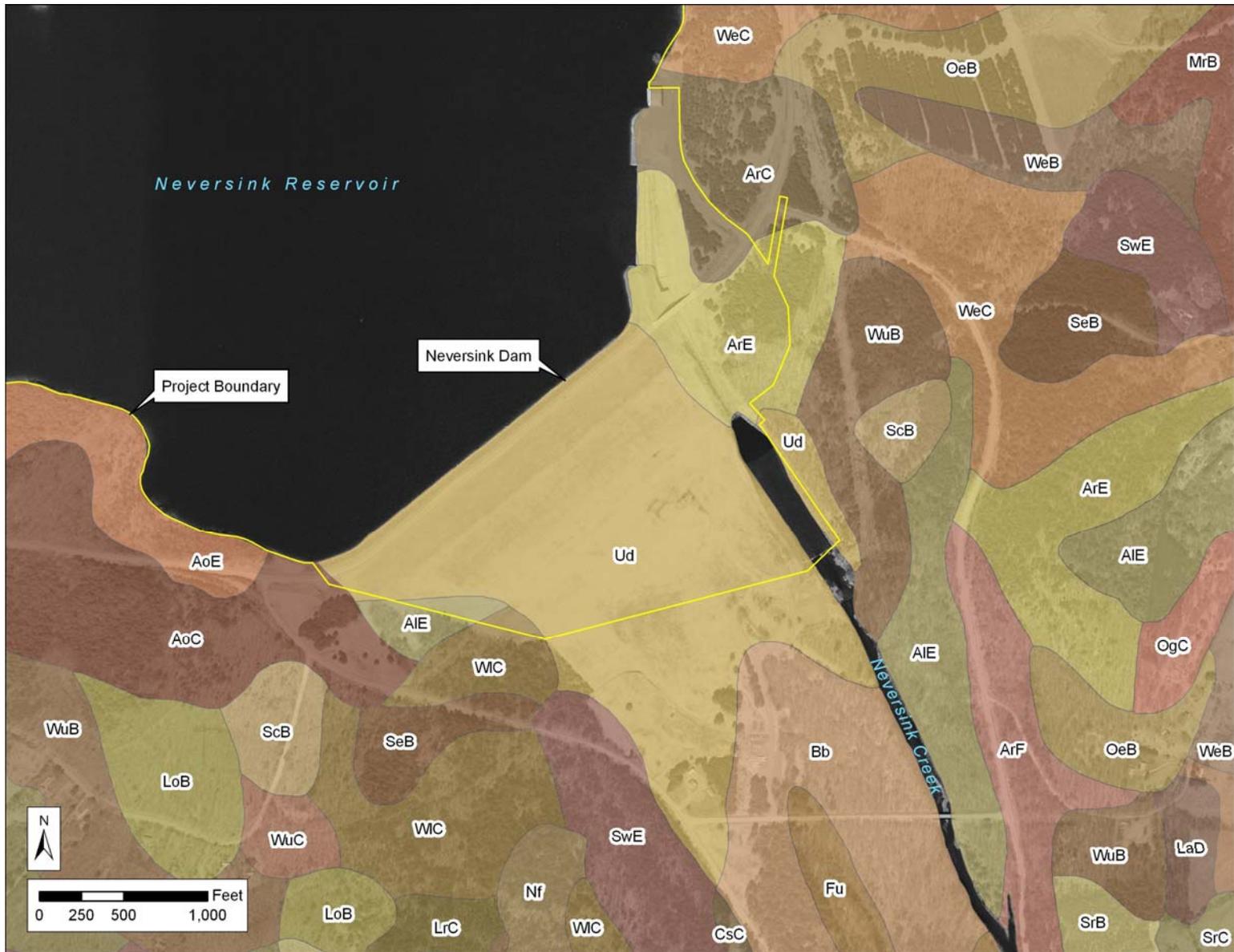
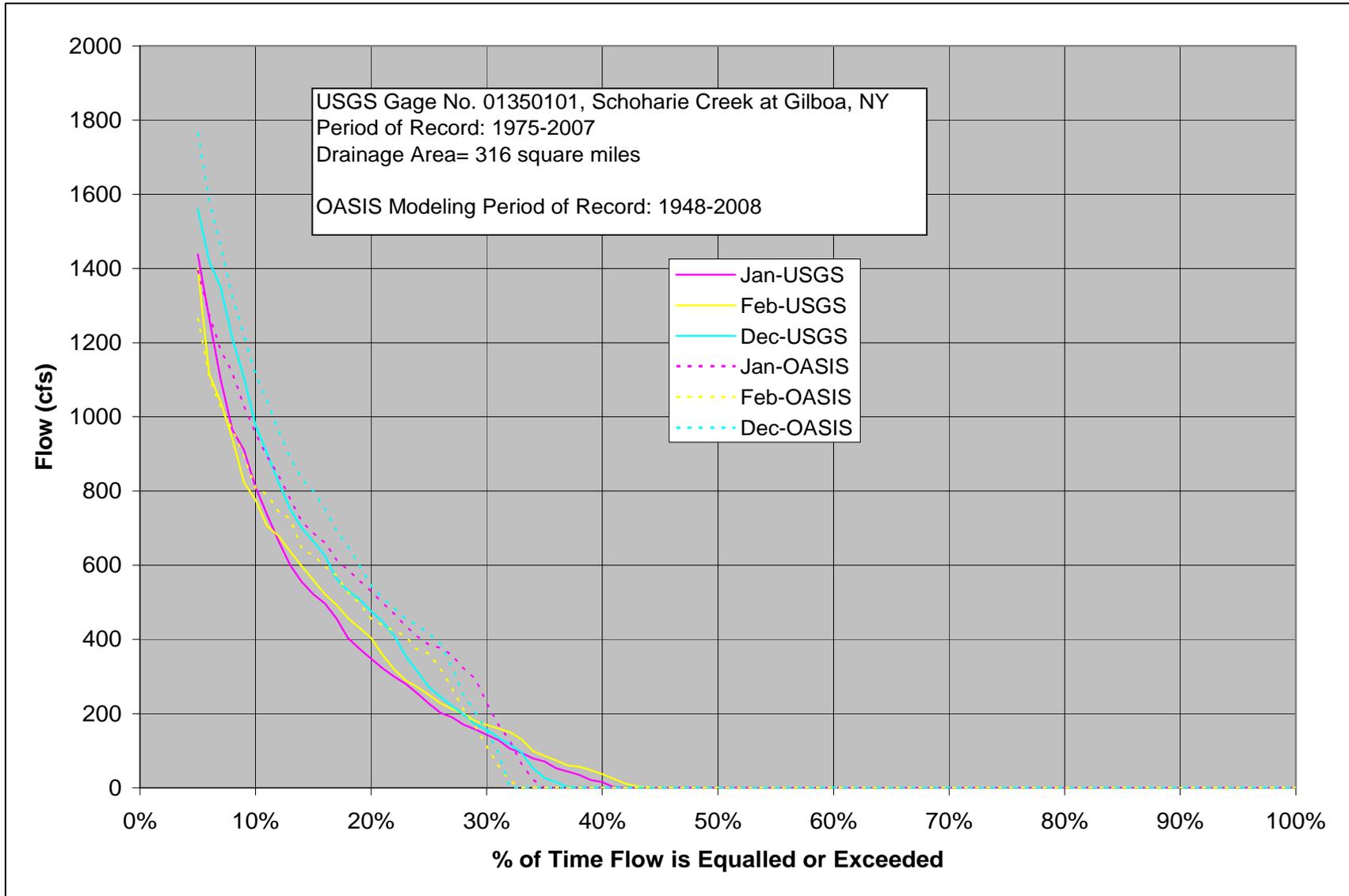


Figure 4.2.3.4-2: Soil Types near Neversink Dam

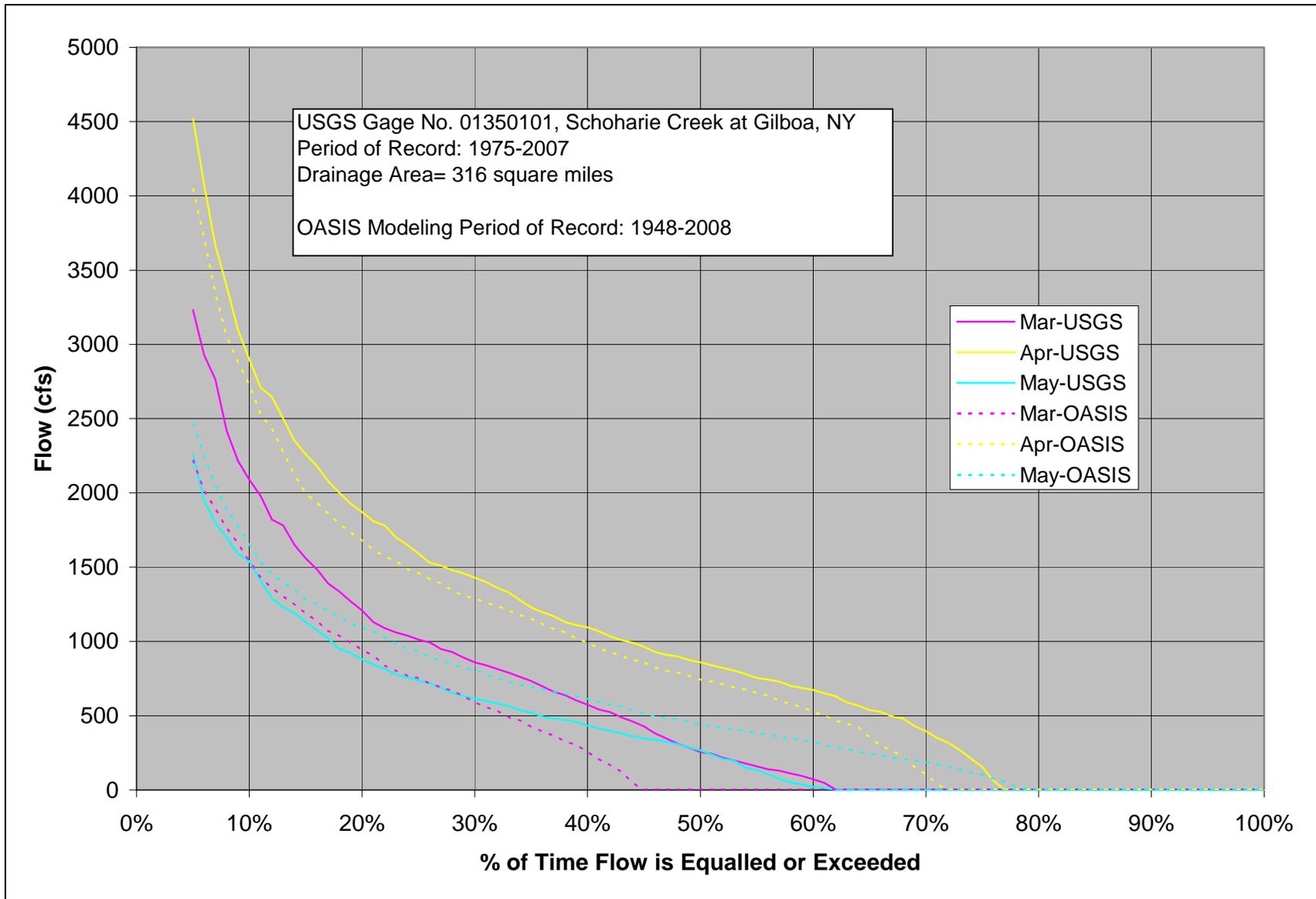
## Legend for Figure 4.2.3.4-2

### Soils near Neversink Dam

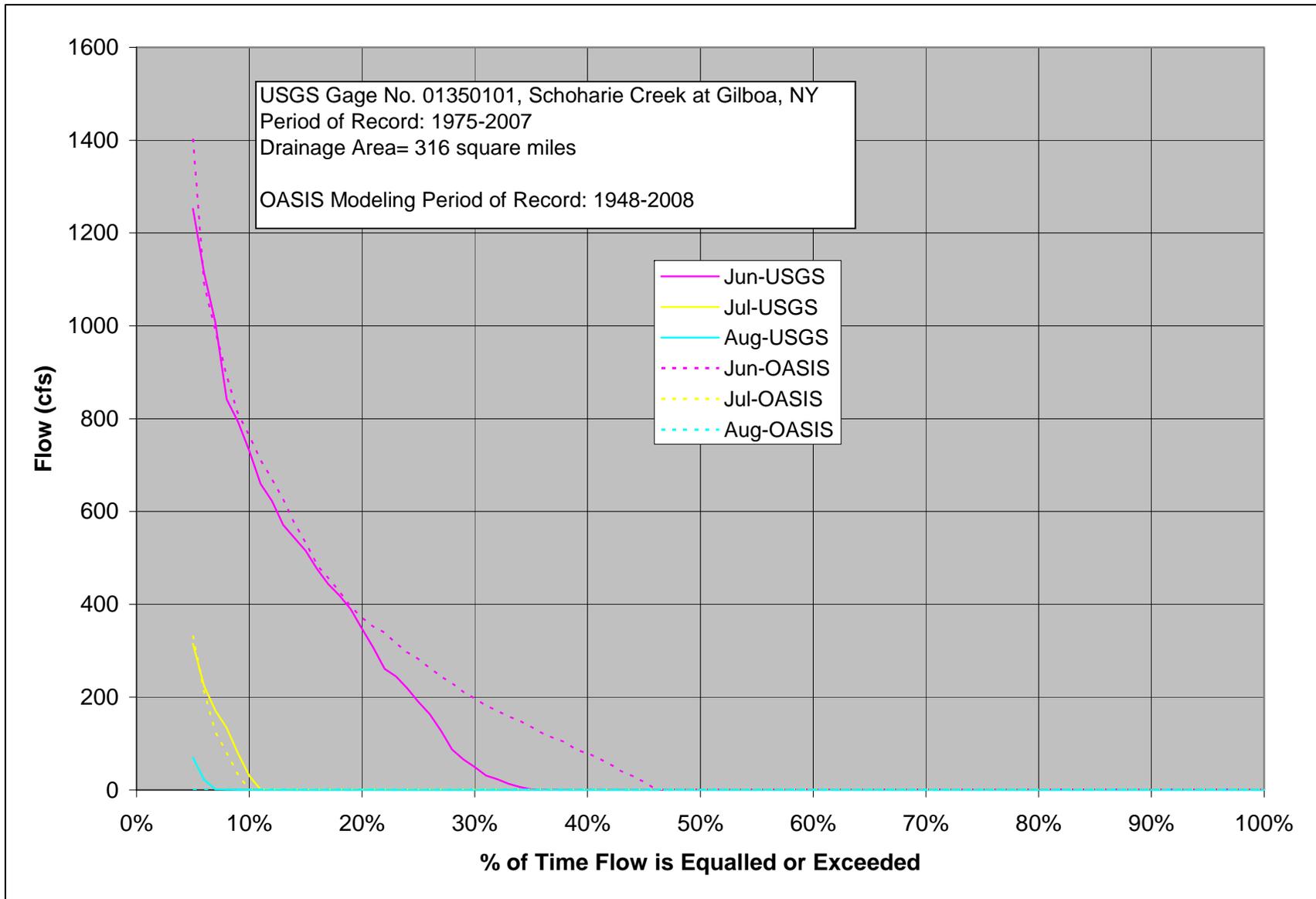
-  AIE - Arnot-Lordstown complex, 15 to 35 percent slopes, very rocky
-  AoC - Arnot-Oquaga complex, 0 to 15 percent slopes, very rocky
-  AoE - Arnot-Oquaga complex, 15 to 35 percent slopes, very rocky
-  ArC - Arnot-Rock outcrop complex, 0 to 15 percent slopes
-  ArE - Arnot-Rock outcrop complex, 15 to 35 percent slopes
-  ArF - Arnot-Rock outcrop complex, 35 to 70 percent slopes
-  Bb - Barbour loam
-  CsC - Cheshire channery loam, 8 to 15 percent slopes, stony
-  Fu - Fluvaquents-Udifluvents complex, frequently flooded
-  LaB - Lackawanna channery loam, 3 to 8 percent slopes
-  LaD - Lackawanna channery loam, 15 to 25 percent slopes
-  LoB - Lordstown silt loam, 3 to 8 percent slopes, stony
-  LrC - Lordstown-Arnot complex, 8 to 15 percent slopes, very stony
-  MrB - Morris loam, 3 to 8 percent slopes
-  Nf - Neversink and Alden soils, very stony
-  OeB - Oquaga very channery silt loam, 3 to 8 percent slopes
-  OgC - Oquaga-Arnot complex, 8 to 15 percent slopes
-  ScB - Scriba loam, 3 to 8 percent slopes, stony
-  SeB - Scriba and Morris loams, gently sloping, extremely stony
-  SrB - Swartswood gravelly loam, 3 to 8 percent slopes, stony
-  SrC - Swartswood gravelly loam, 8 to 15 percent slopes, stony
-  SwE - Swartswood and Lackawanna soils, steep, very stony
-  Ud - Udorthents, smoothed
-  WeB - Wellsboro gravelly loam, 3 to 8 percent slopes
-  WeC - Wellsboro gravelly loam, 8 to 15 percent slopes
-  WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony
-  WuB - Wurtsboro loam, 3 to 8 percent slopes, stony
-  WuC - Wurtsboro loam, 8 to 15 percent slopes, stony



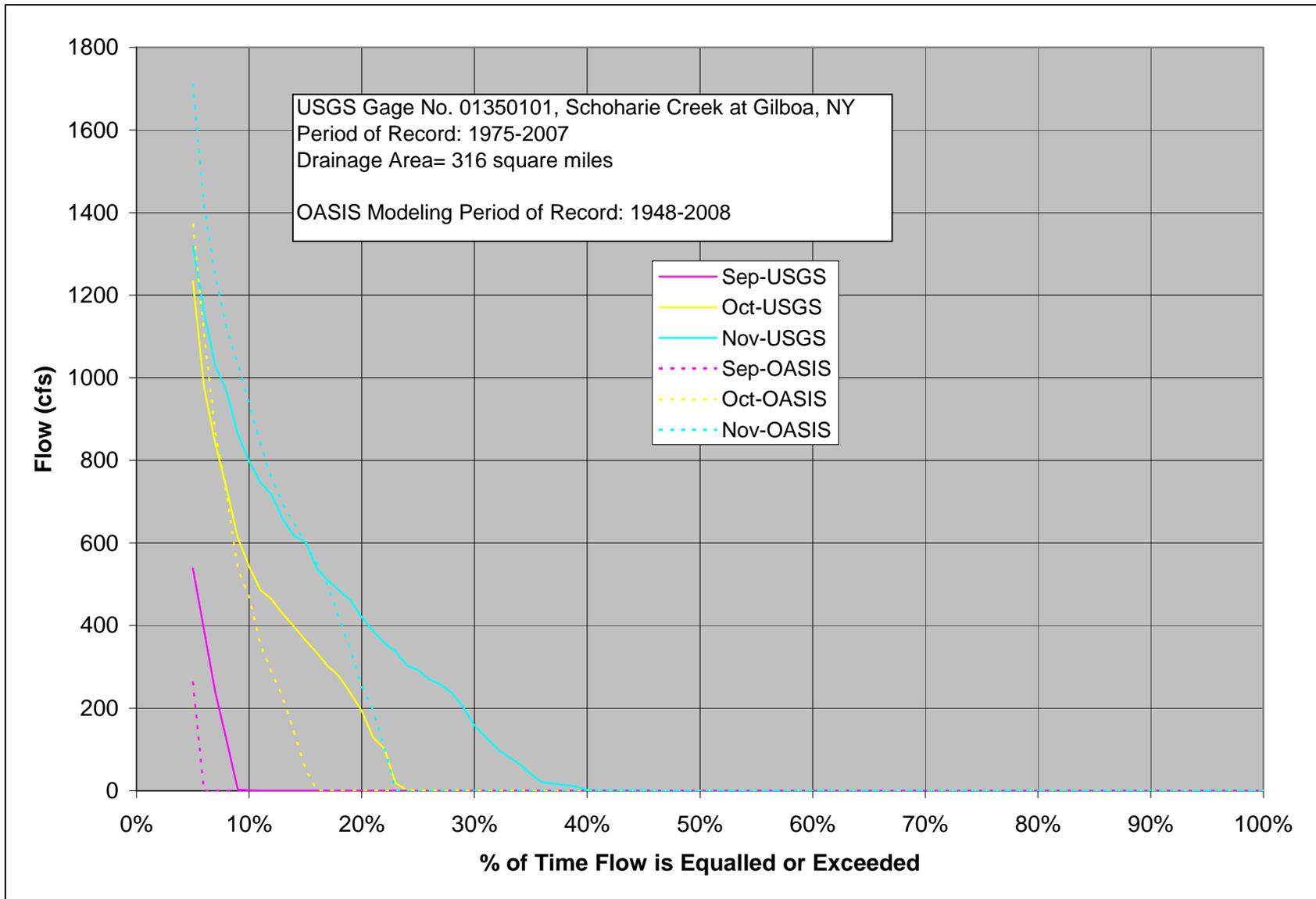
**Figure 4.3.2.1-1: Schoharie Creek below Gilboa Dam – Monthly Flow Duration Curves for Dec, Jan & Feb (USGS Gage and OASIS Results), Drainage Area = 316 mi<sup>2</sup>**



**Figure 4.3.2.1-2: Schoharie Creek below Gilboa Dam – Monthly Flow Duration Curves for Mar, Apr & May (USGS Gage and OASIS Results), Drainage Area = 316 mi<sup>2</sup>**



**Figure 4.3.2.1-3: Schoharie Creek below Gilboa Dam – Monthly Flow Duration Curves for Jun, July & Aug (USGS Gage and OASIS Results), Drainage Area = 316 mi<sup>2</sup>**



**Figure 4.3.2.1-4: Schoharie Creek below Gilboa Dam – Monthly Flow Duration Curves for Sep, Oct, & Nov (USGS Gage and OASIS Results), Drainage Area = 316 mi<sup>2</sup>**

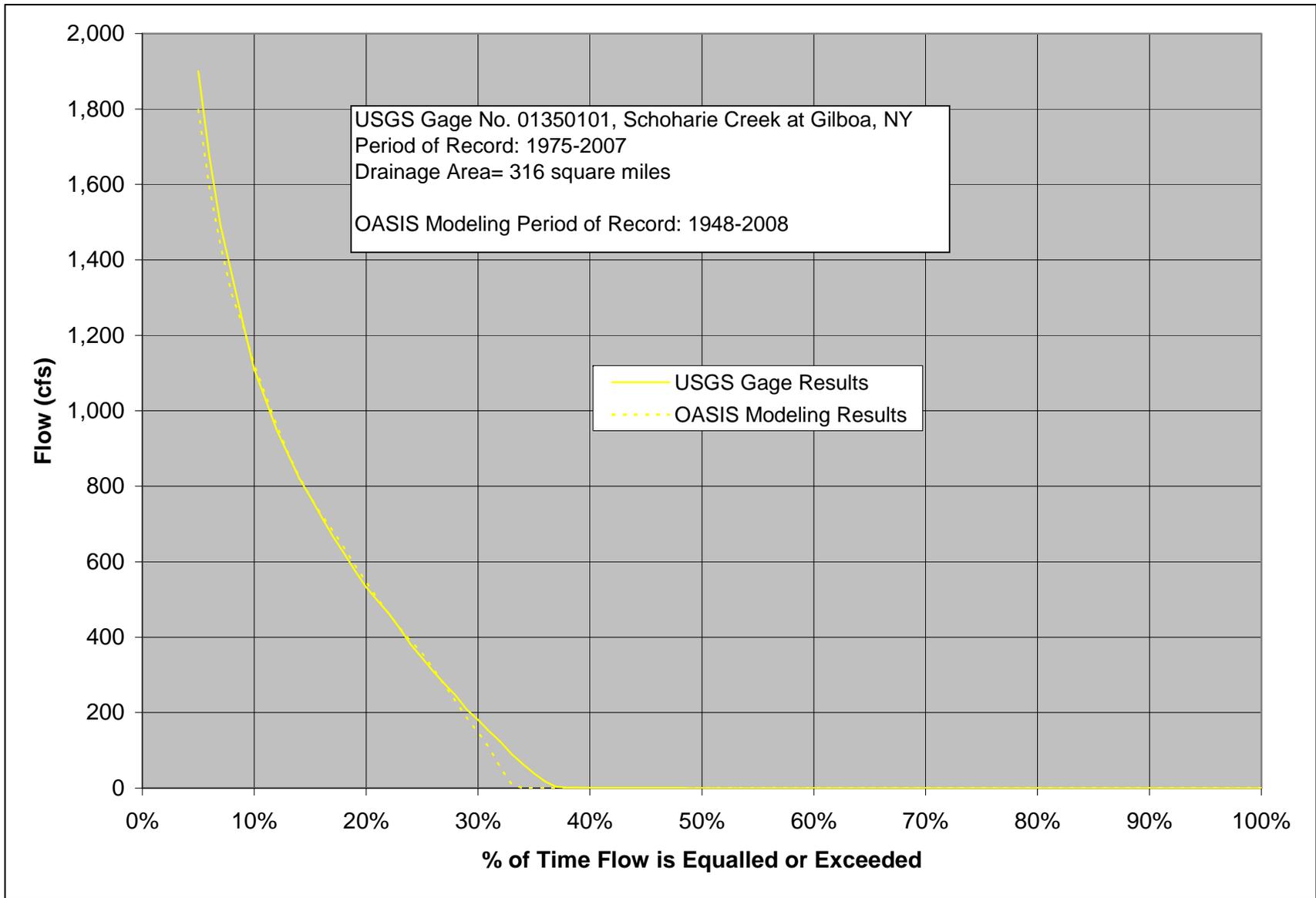


Figure 4.3.2.1-5: Schoharie Creek below Gilboa Dam – Annual Flow Duration Curve (USGS Gage and OASIS Results), Drainage Area= 316 mi<sup>2</sup>

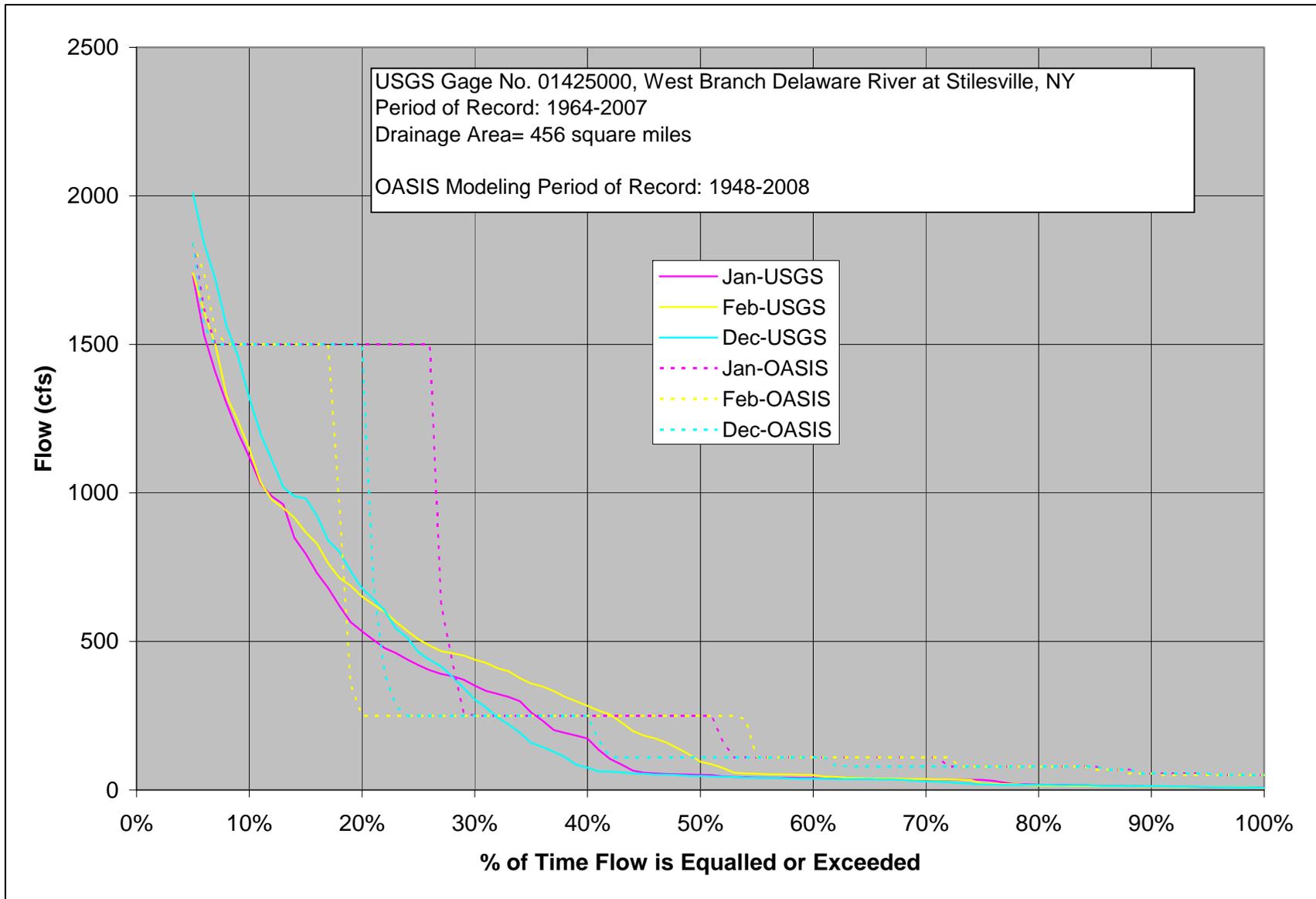
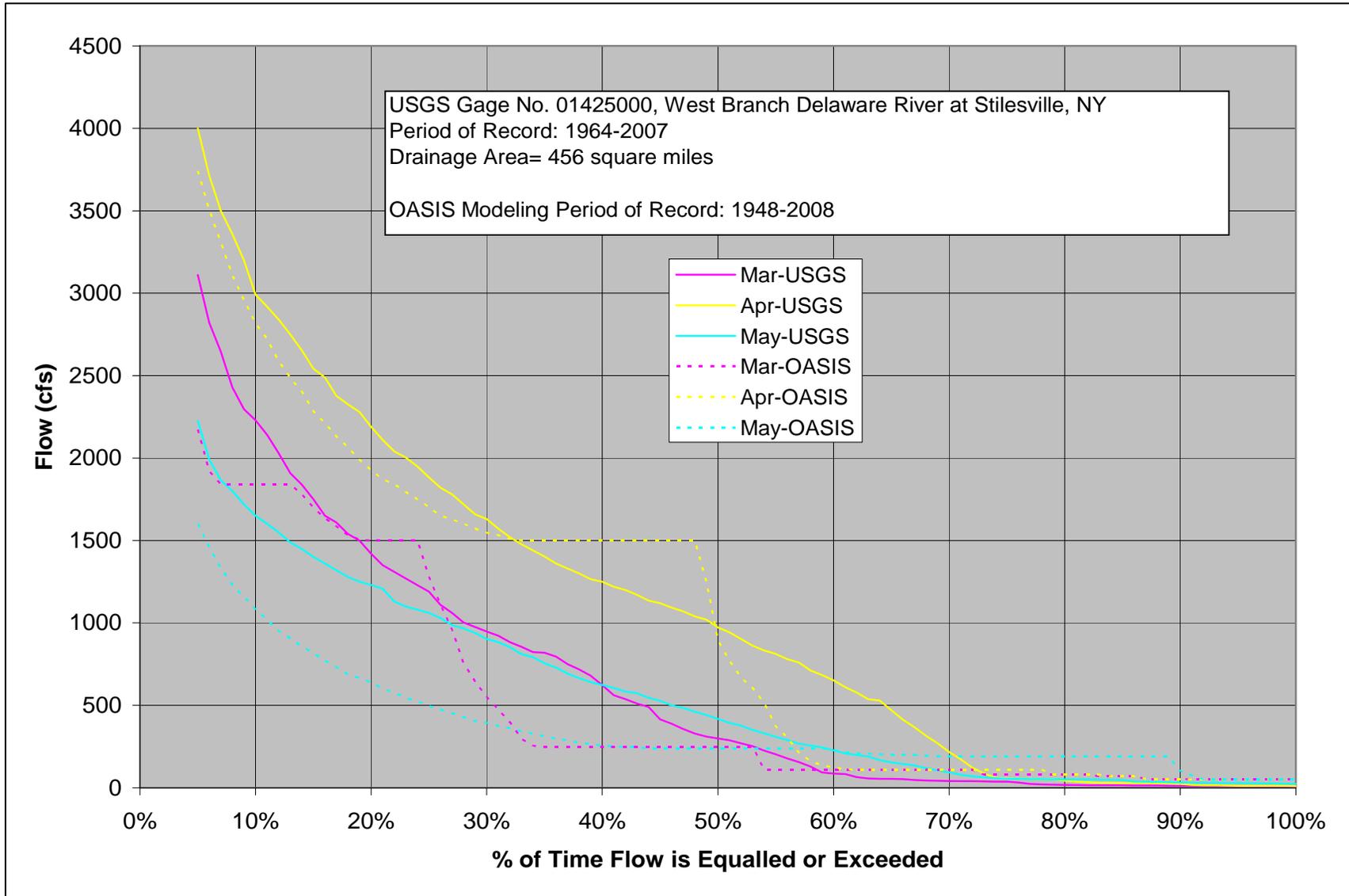
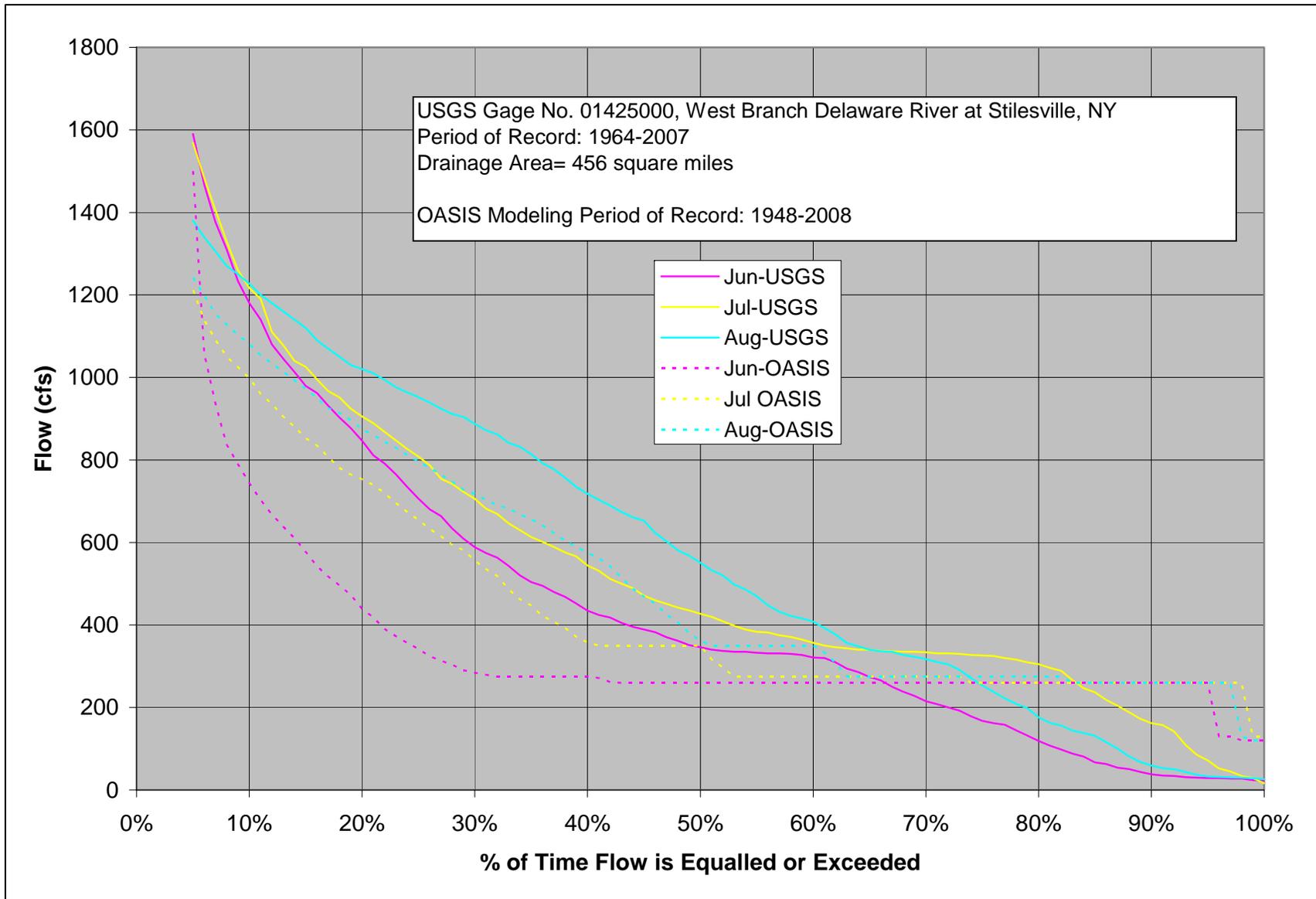


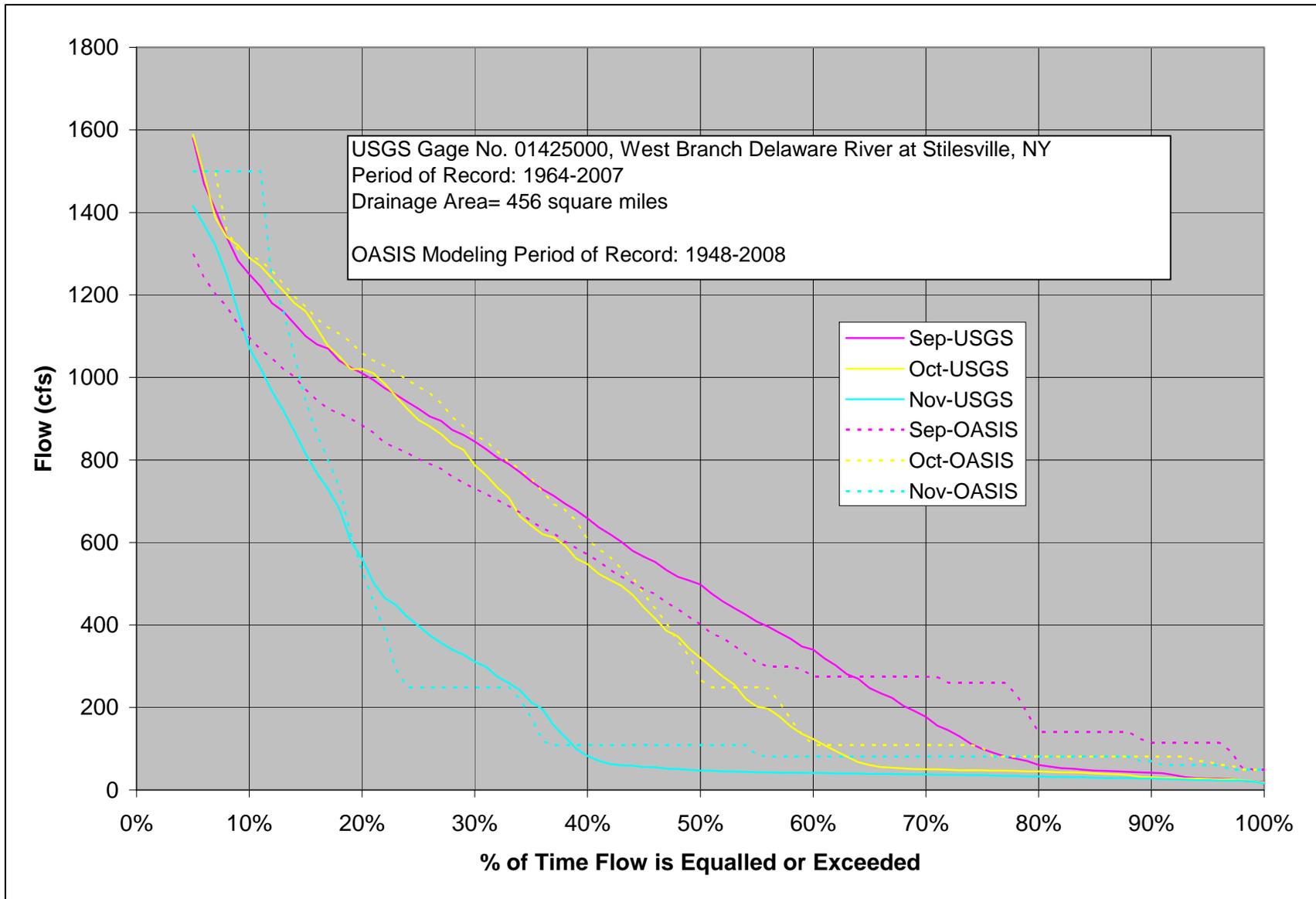
Figure 4.3.2.2-1: West Branch Delaware River below Cannonsville Dam – Monthly Flow Duration Curves for Dec, Jan, & Feb (USGS Gage and OASIS Results), Drainage Area = 456 mi<sup>2</sup>



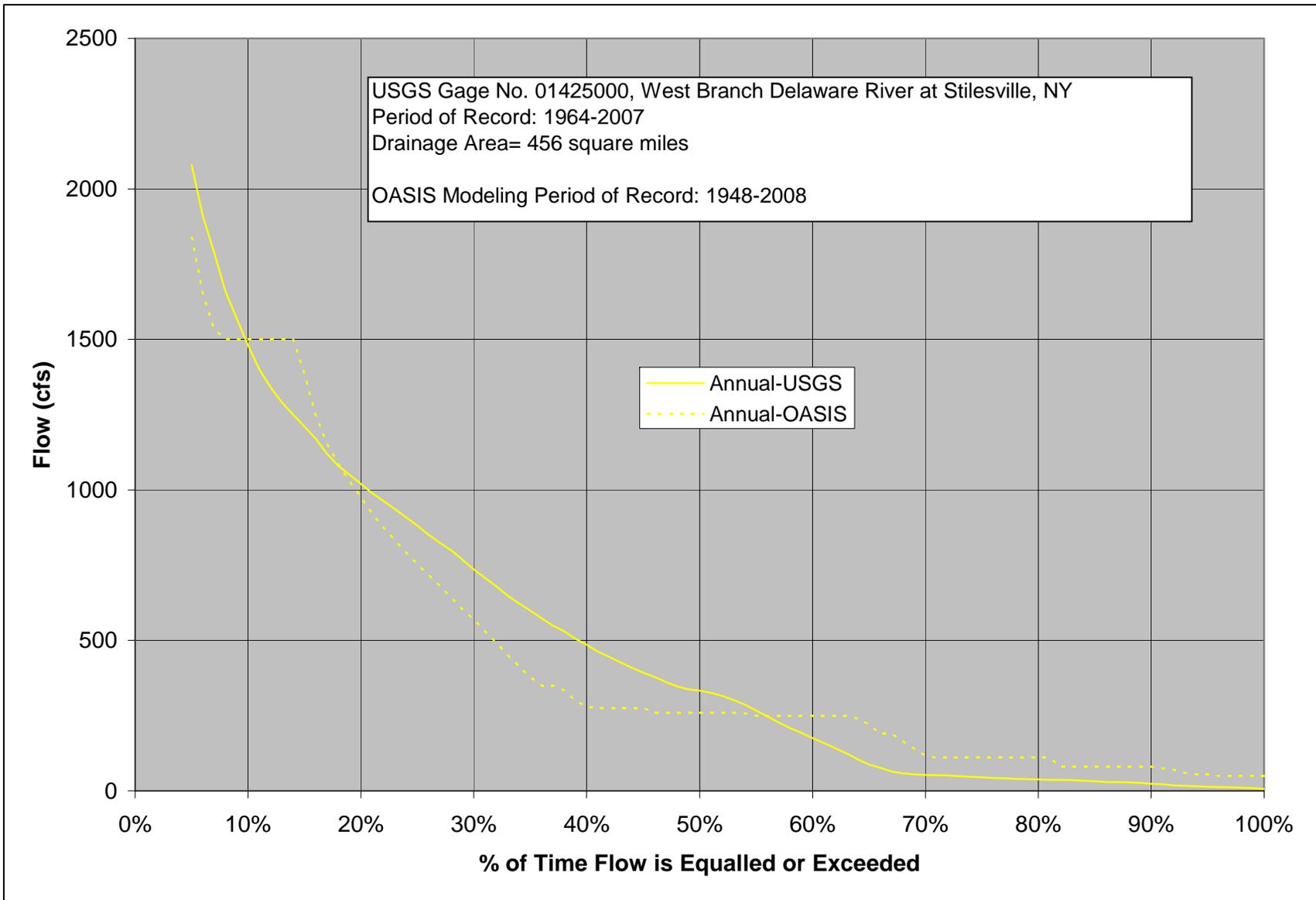
**Figure 4.3.2.2-2: West Branch Delaware River below Cannonsville Dam – Monthly Flow Duration Curves for Mar, Apr & May (USGS Gage and OASIS Results), Drainage Area = 456 mi<sup>2</sup>**



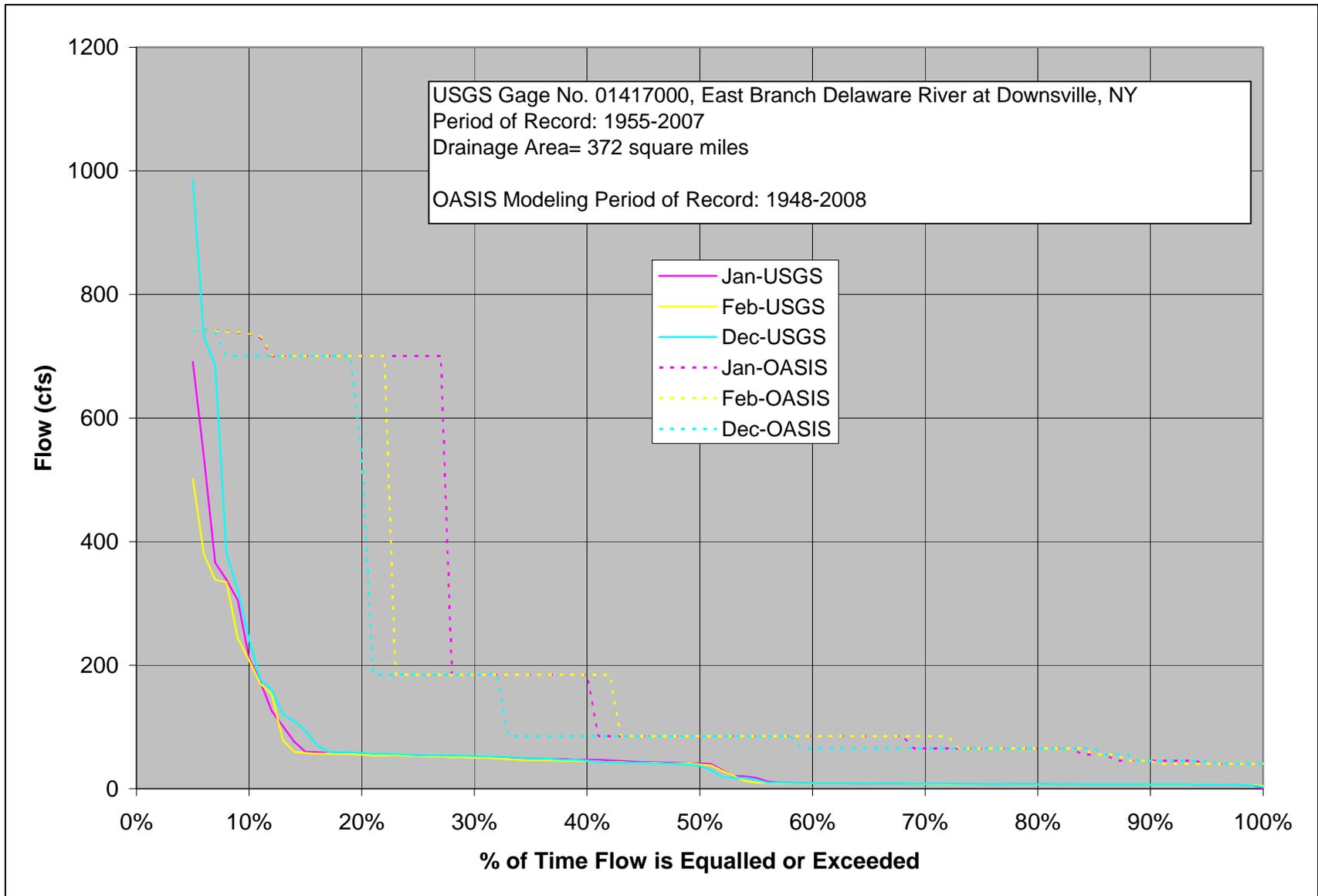
**Figure 4.3.2.2-3: West Branch Delaware River below Cannonsville Dam – Monthly Flow Duration Curves for Jun, Jul & Aug (USGS Gage and OASIS Results), Drainage Area = 456 mi<sup>2</sup>**



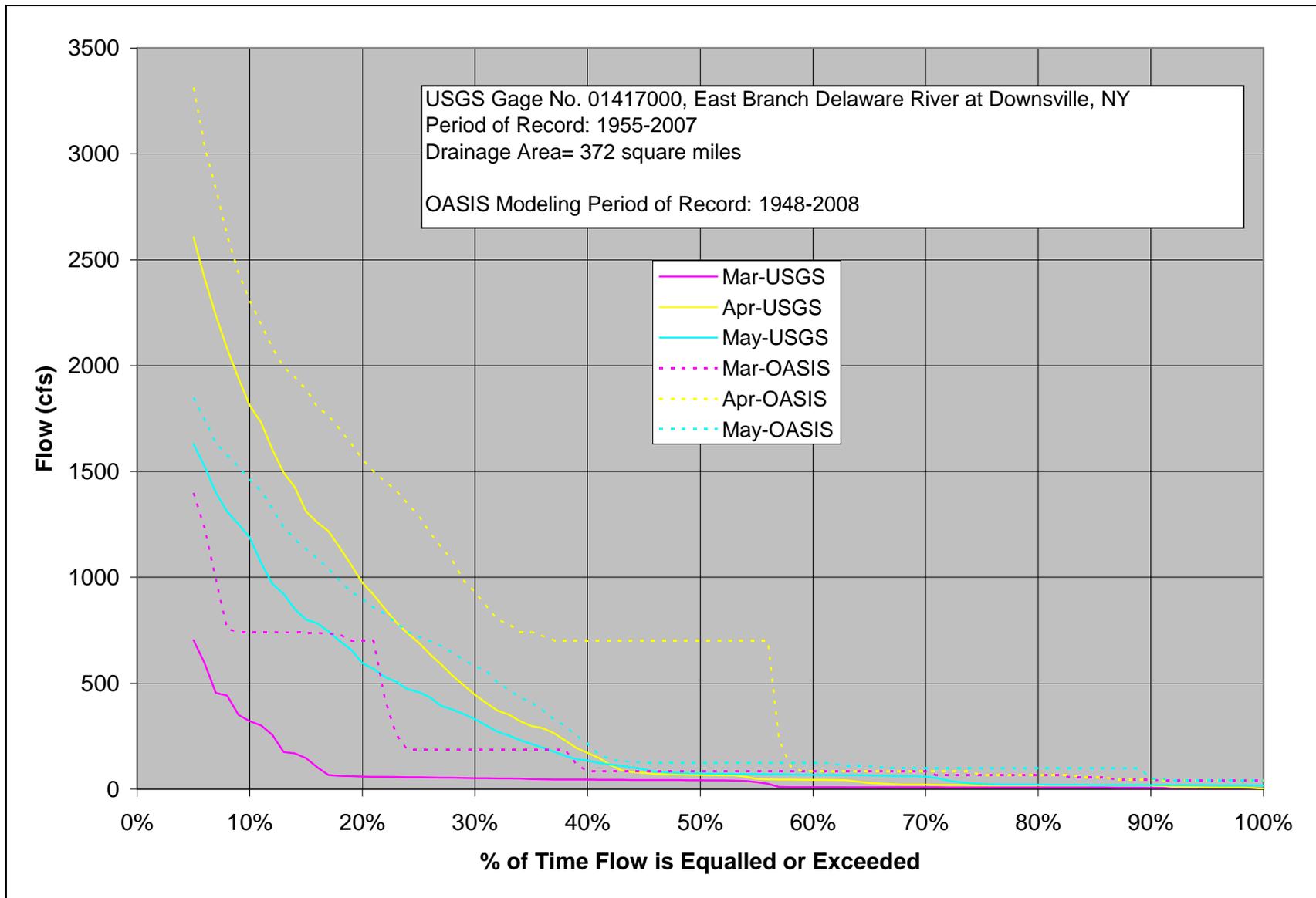
**Figure 4.3.2.2-4: West Branch Delaware River below Cannonsville Dam – Monthly Flow Duration Curves for Sep, Oct, & Nov (USGS Gage and OASIS Results), Drainage Area = 456 mi<sup>2</sup>**



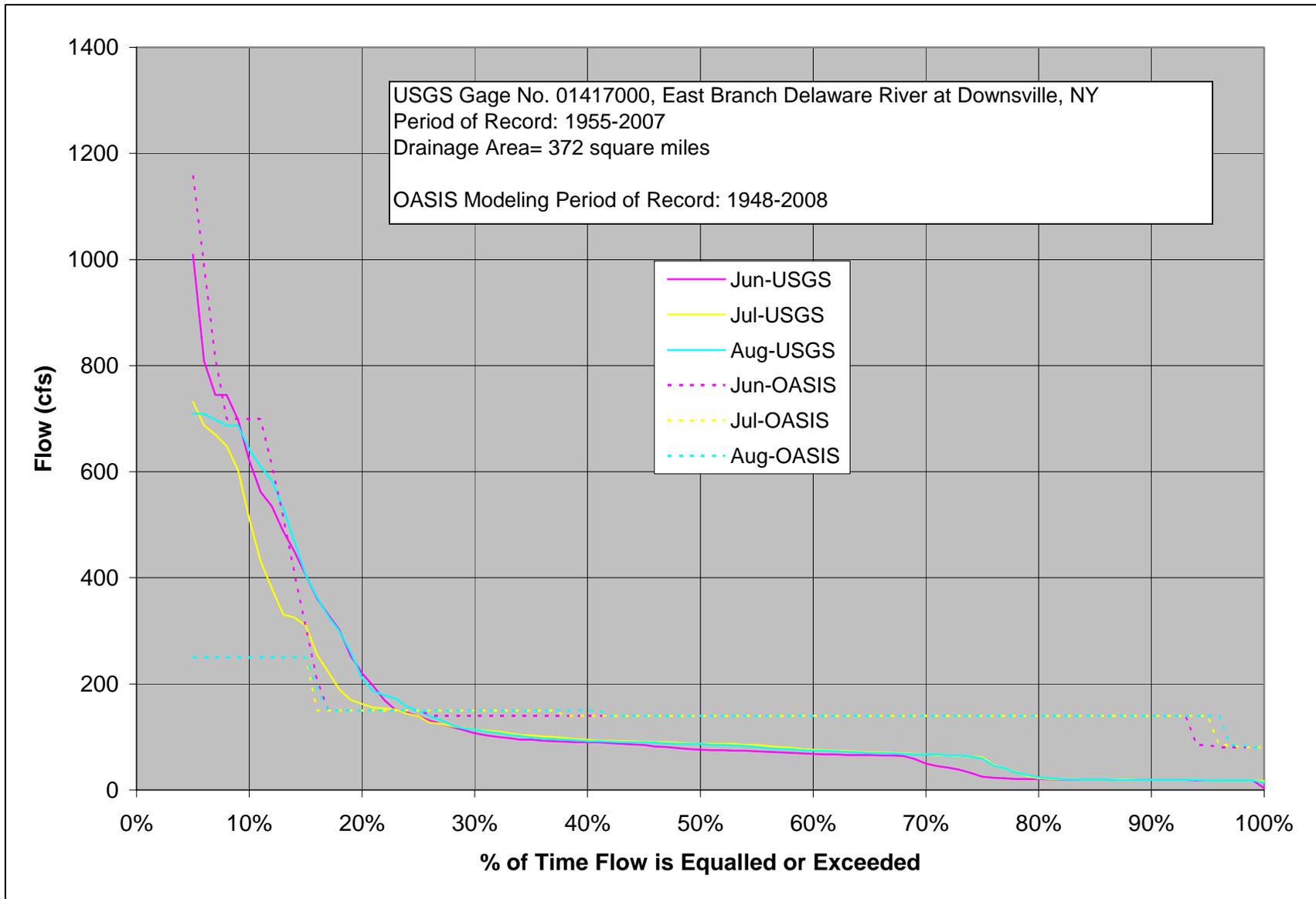
**Figure 4.3.2.2-5: West Branch Delaware River below Cannonsville Dam – Annual Flow Duration Curve (USGS Gage and OASIS Results), Drainage Area = 456 mi<sup>2</sup>**



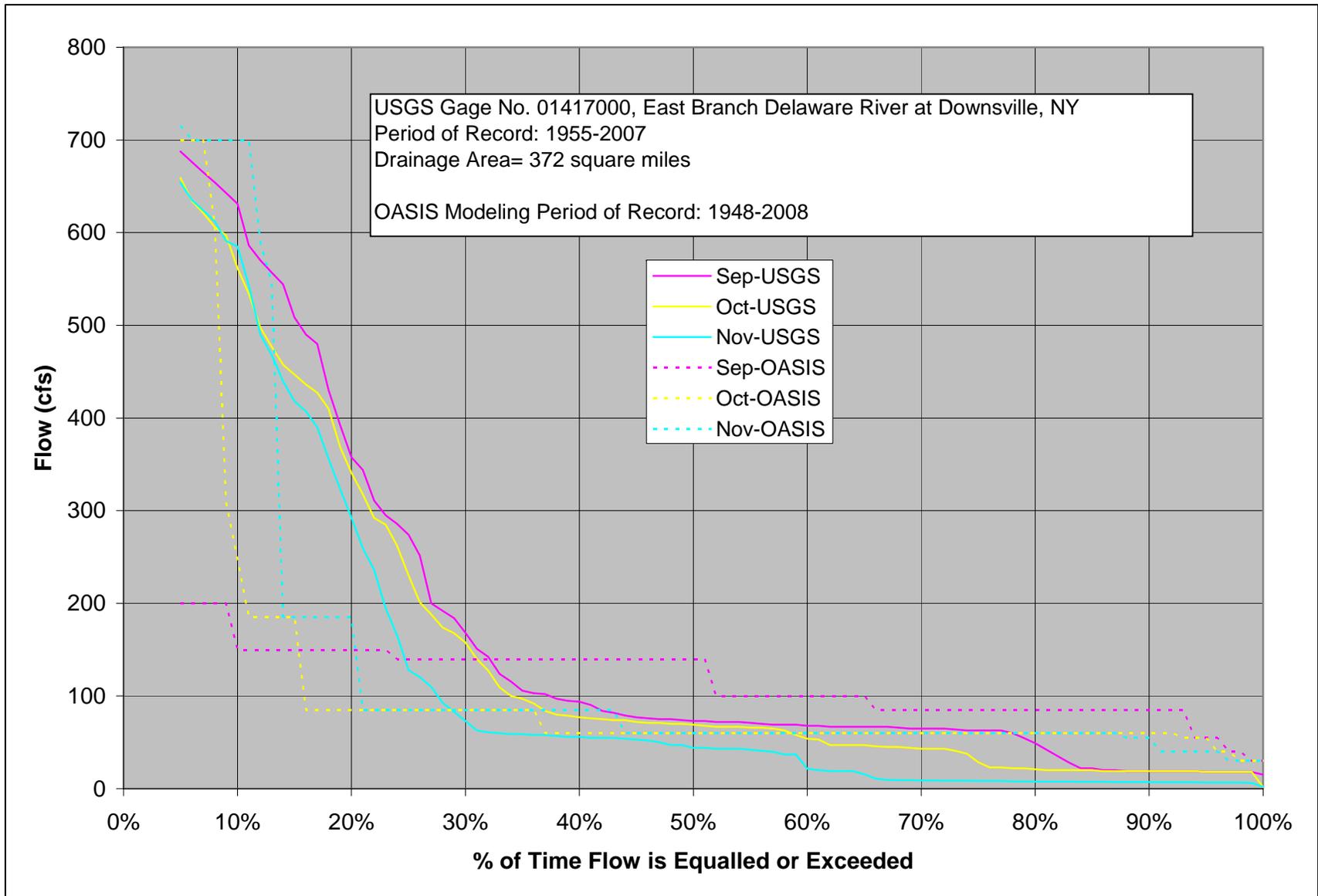
**Figure 4.3.2.3-1: East Branch Delaware River below Downsville Dam – Monthly Flow Duration Curves for Dec, Jan, & Feb (USGS Gage and OASIS Results), Drainage Area = 372 mi<sup>2</sup>**



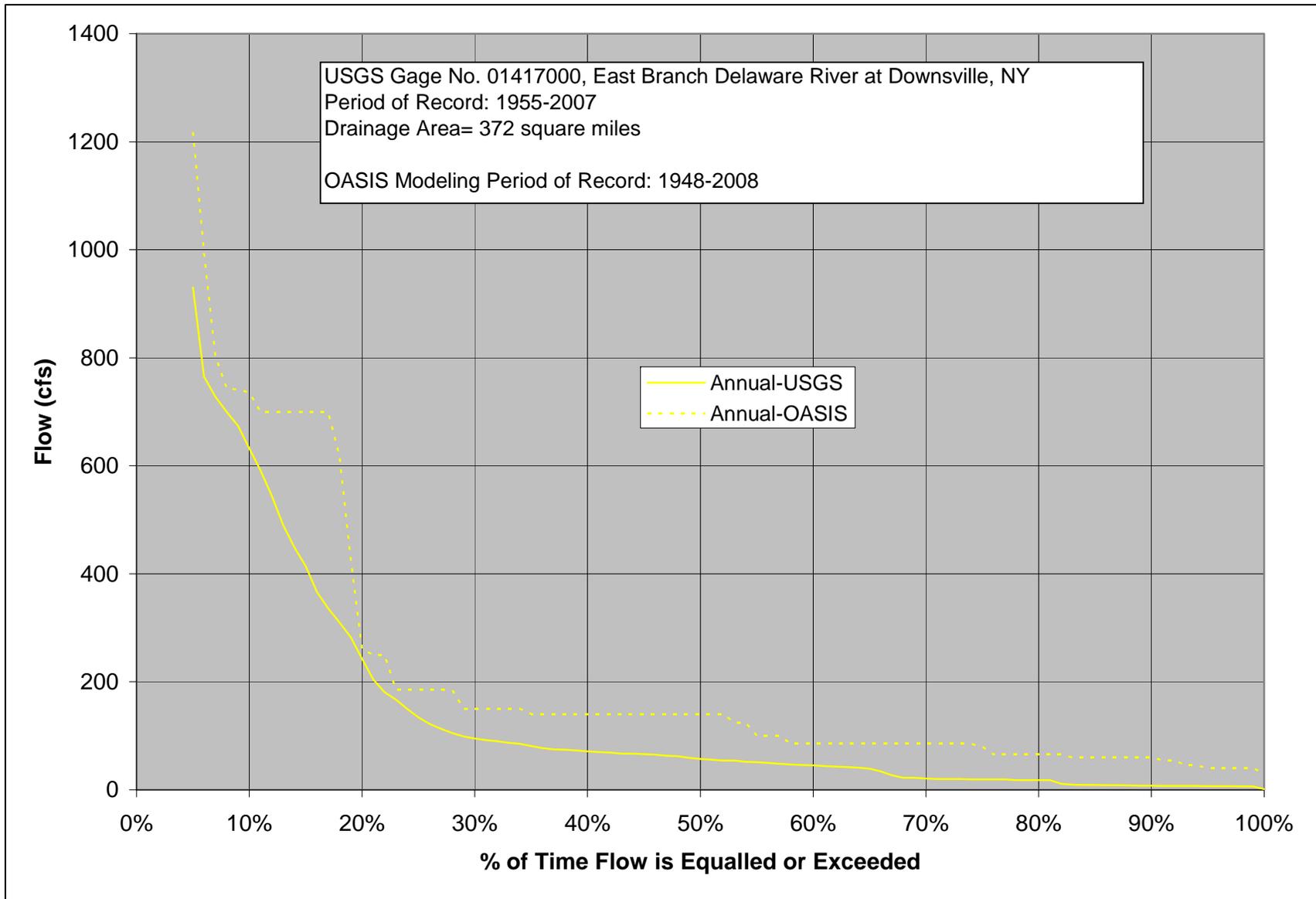
**Figure 4.3.2.3-2: East Branch Delaware River below Downsville Dam – Monthly Flow Duration Curves for Mar, Apr, & May (USGS Gage and OASIS Results), Drainage Area = 372 mi<sup>2</sup>**



**Figure 4.3.2.3-3: East Branch Delaware River below Downsville Dam – Monthly Flow Duration Curves for Jun, Jul, & Aug (USGS Gage and OASIS Results), Drainage Area = 372 mi<sup>2</sup>**



**Figure 4.3.2.3-4: East Branch Delaware River below Downsville Dam – Monthly Flow Duration Curves for Sep, Oct, & Nov (USGS Gage and OASIS Results), Drainage Area = 372 mi<sup>2</sup>**



**Figure 4.3.2.3-5: East Branch Delaware River below Downsville Dam – Annual Flow Duration Curve (USGS Gage and OASIS Results), Drainage Area = 372 mi<sup>2</sup>**

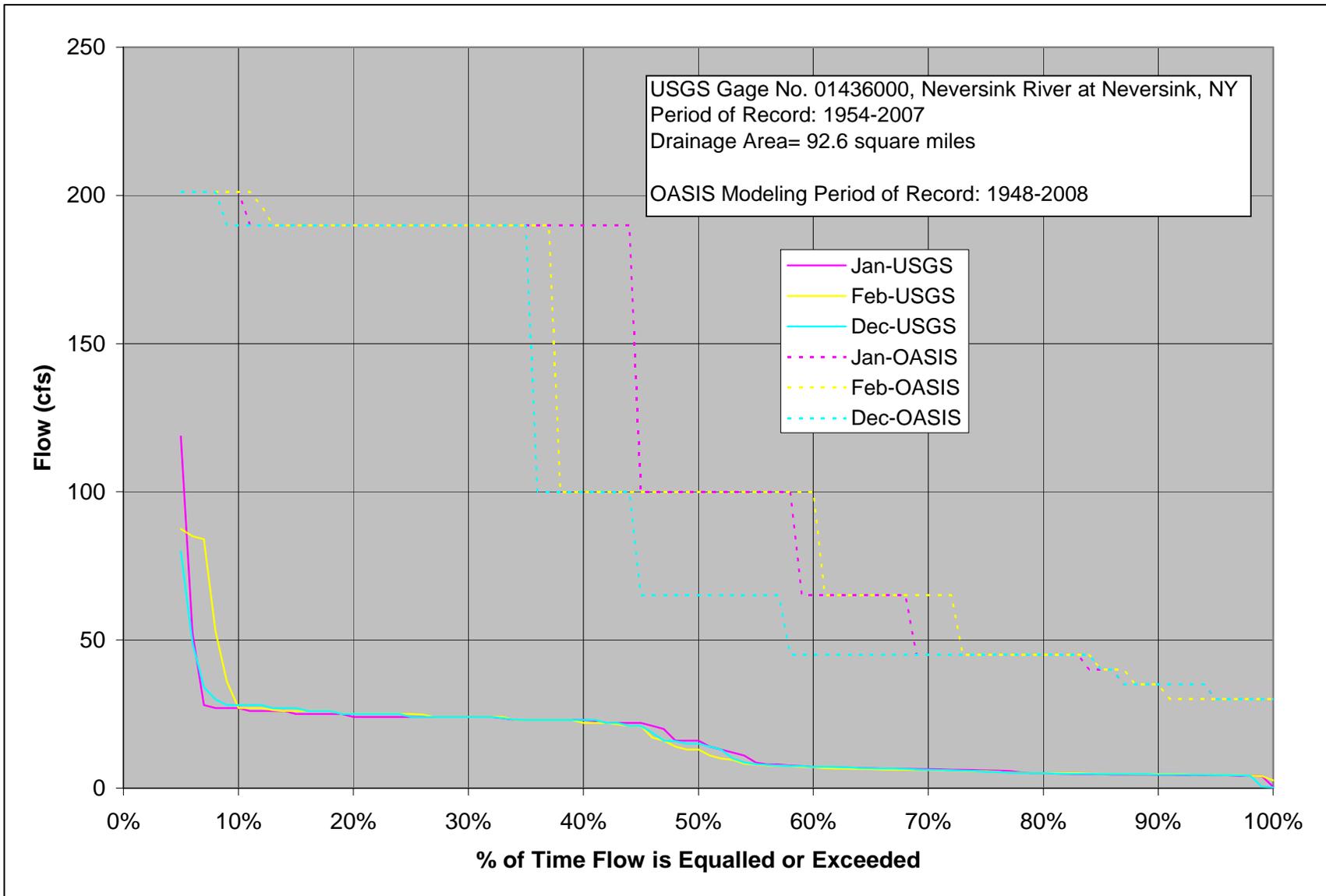


Figure 4.3.2.4-1: Neversink River below Neversink Dam – Monthly Flow Duration Curves for Dec, Jan, & Feb (USGS Gage and OASIS Results), Drainage Area = 92.6 mi<sup>2</sup>

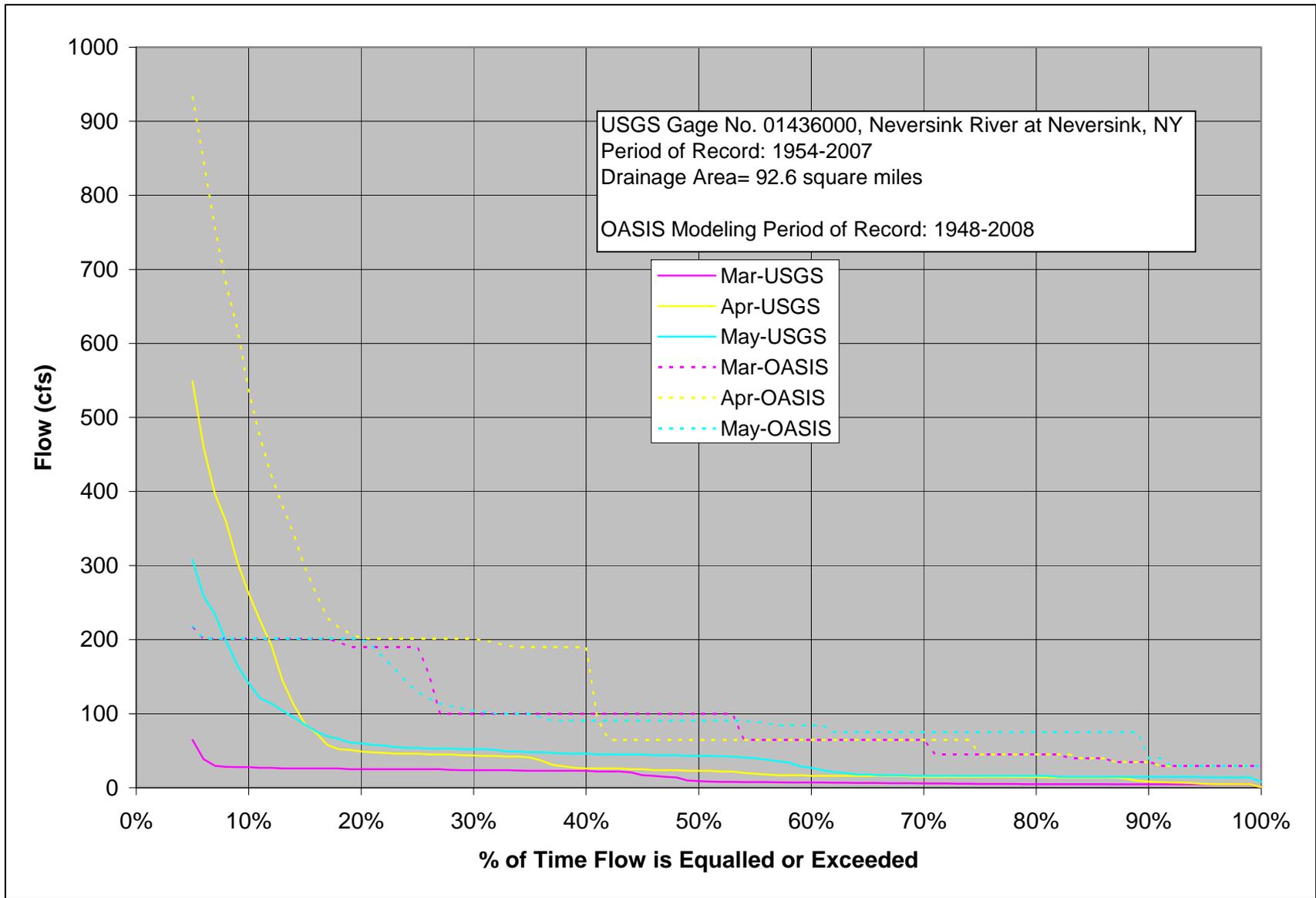
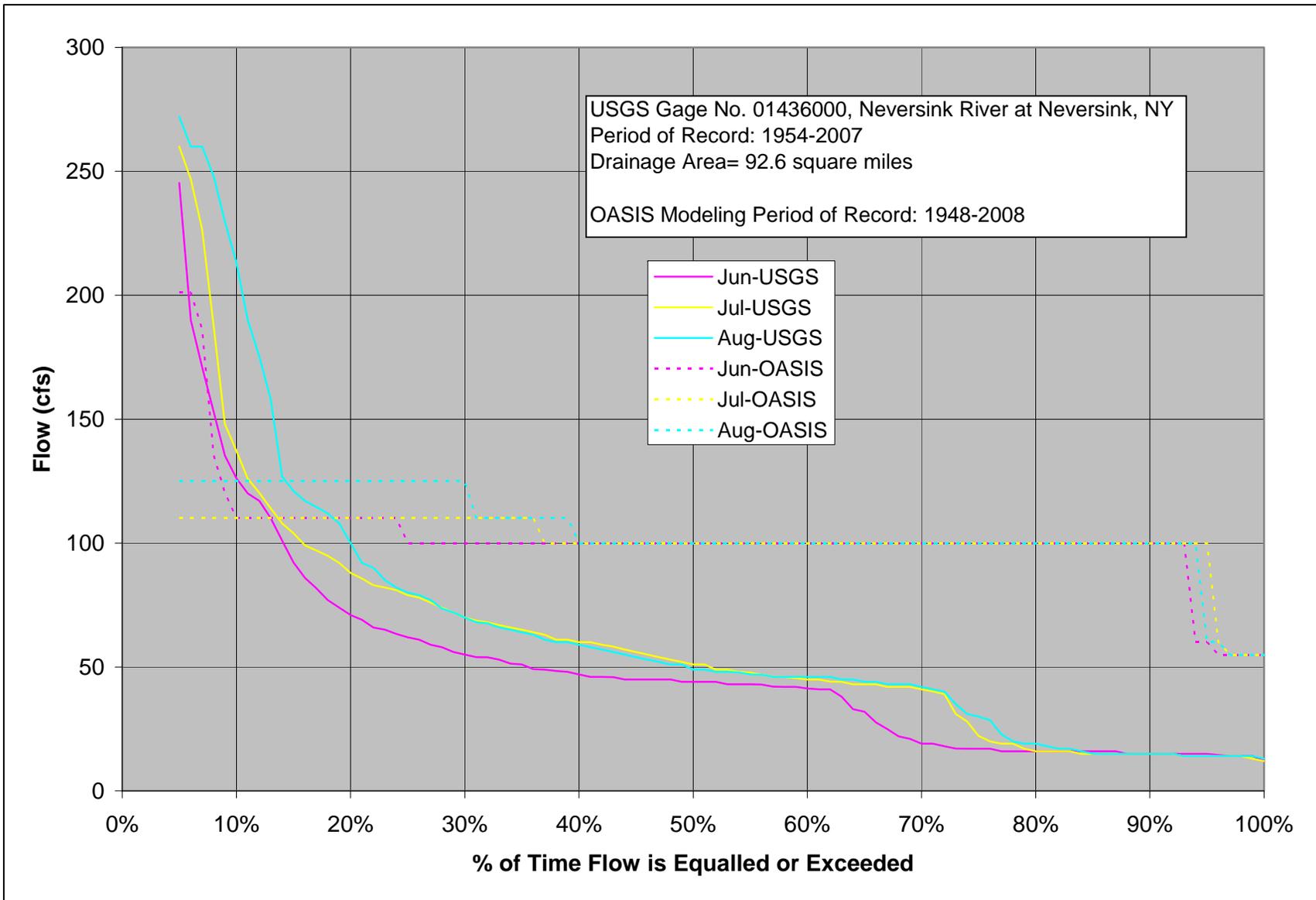
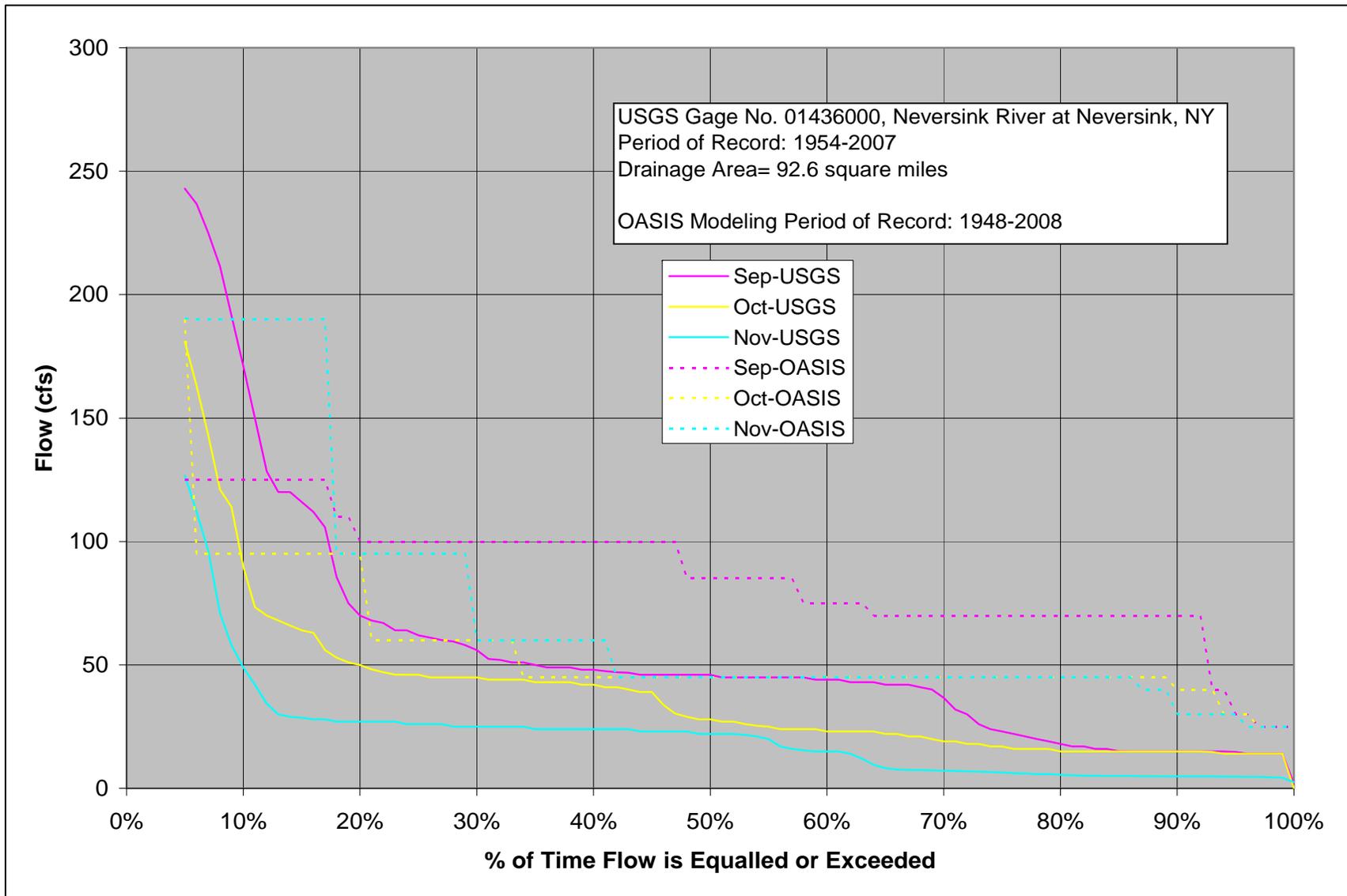


Figure 4.3.2.4-2: Neversink River below Neversink Dam – Monthly Flow Duration Curves for Mar, Apr & May (USGS Gage and OASIS Results), Drainage Area = 92.6 mi<sup>2</sup>



**Figure 4.3.2.4-3: Neversink River below Neversink Dam – Monthly Flow Duration Curves for Jun, Jul & Aug (USGS Gage and OASIS Results), Drainage Area = 92.6 mi<sup>2</sup>**



**Figure 4.3.2.4-4: Neversink River below Neversink Dam – Monthly Flow Duration Curves for Sep, Oct & Nov (USGS Gage and OASIS Results), Drainage Area = 92.6 mi<sup>2</sup>**

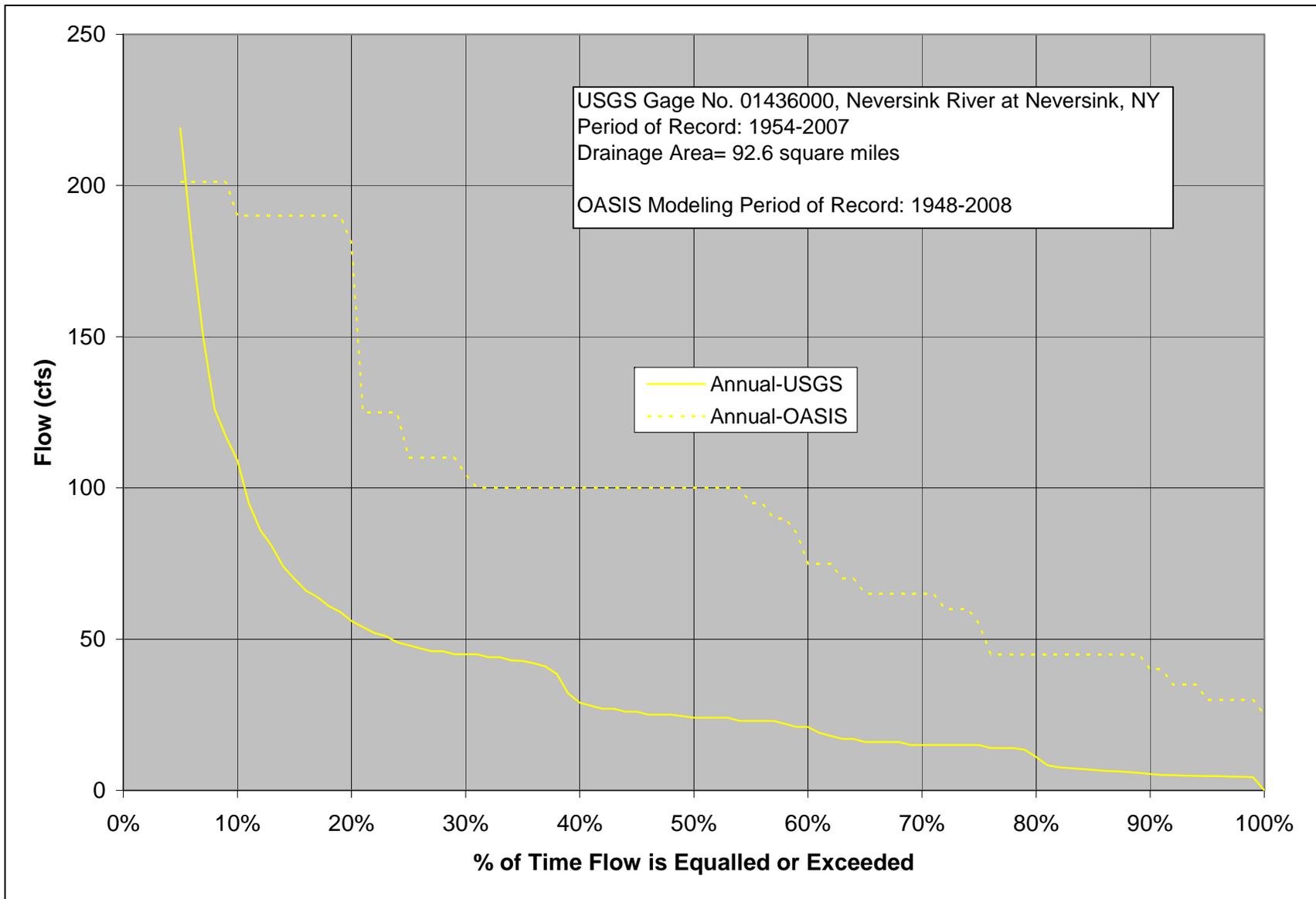
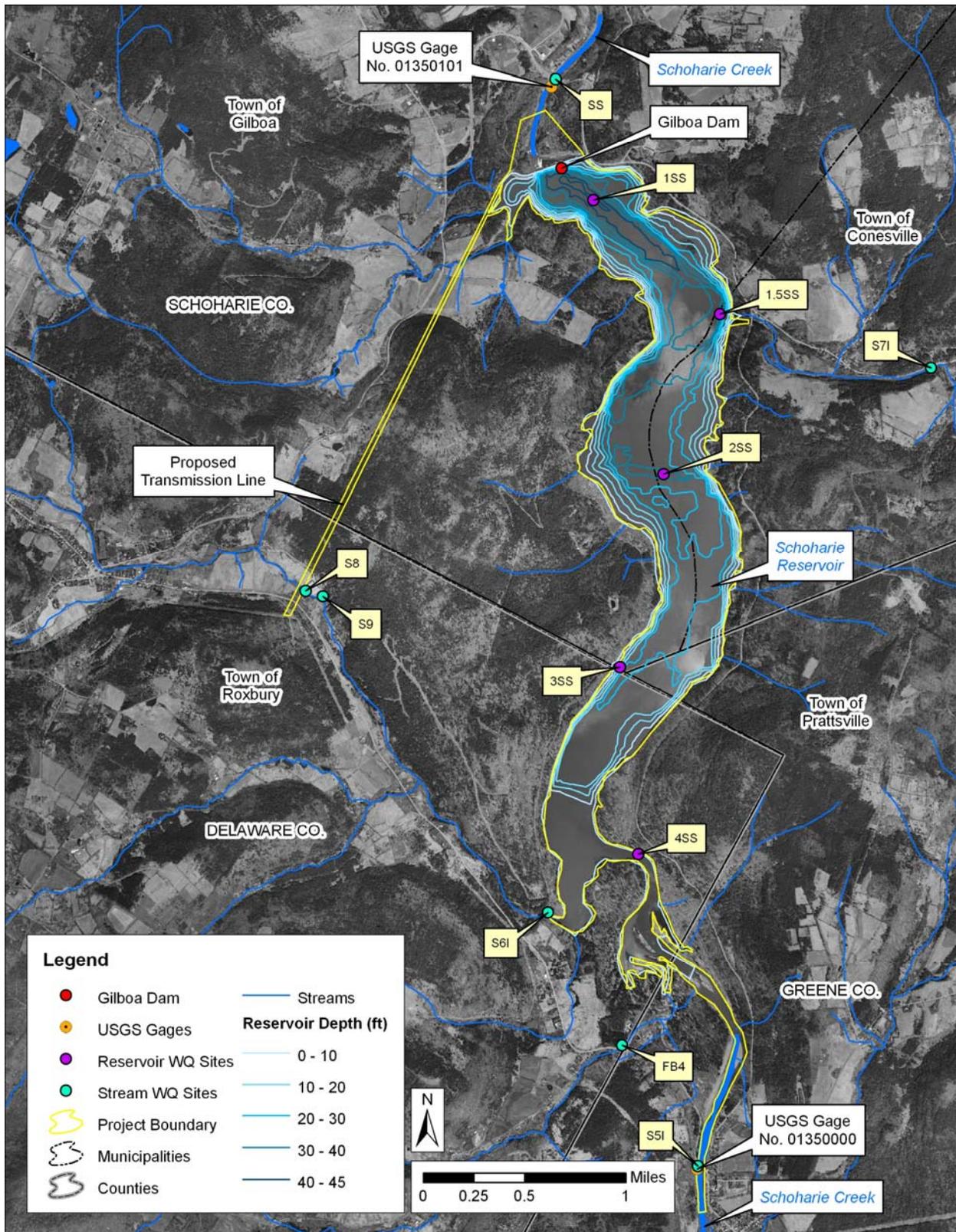
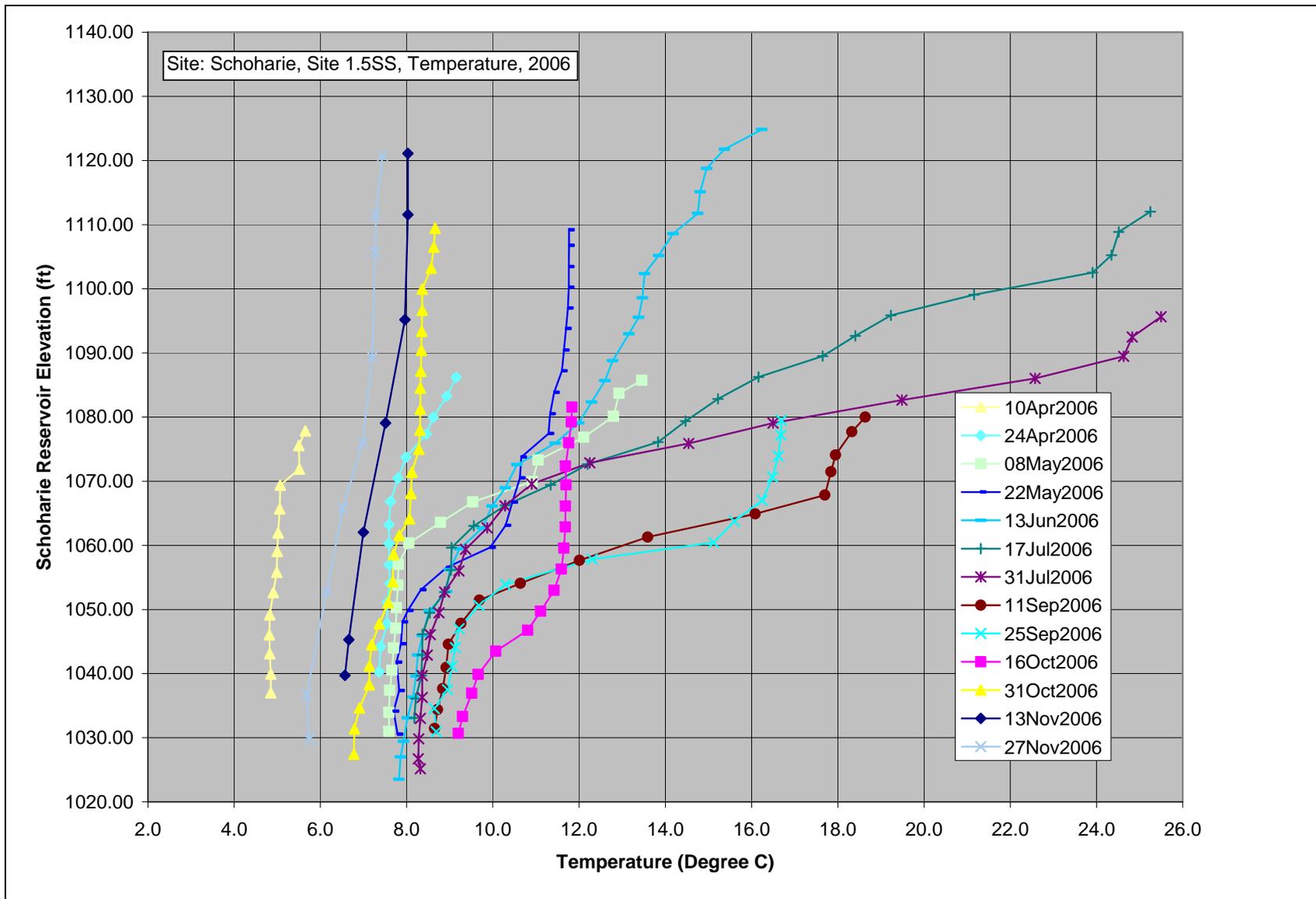


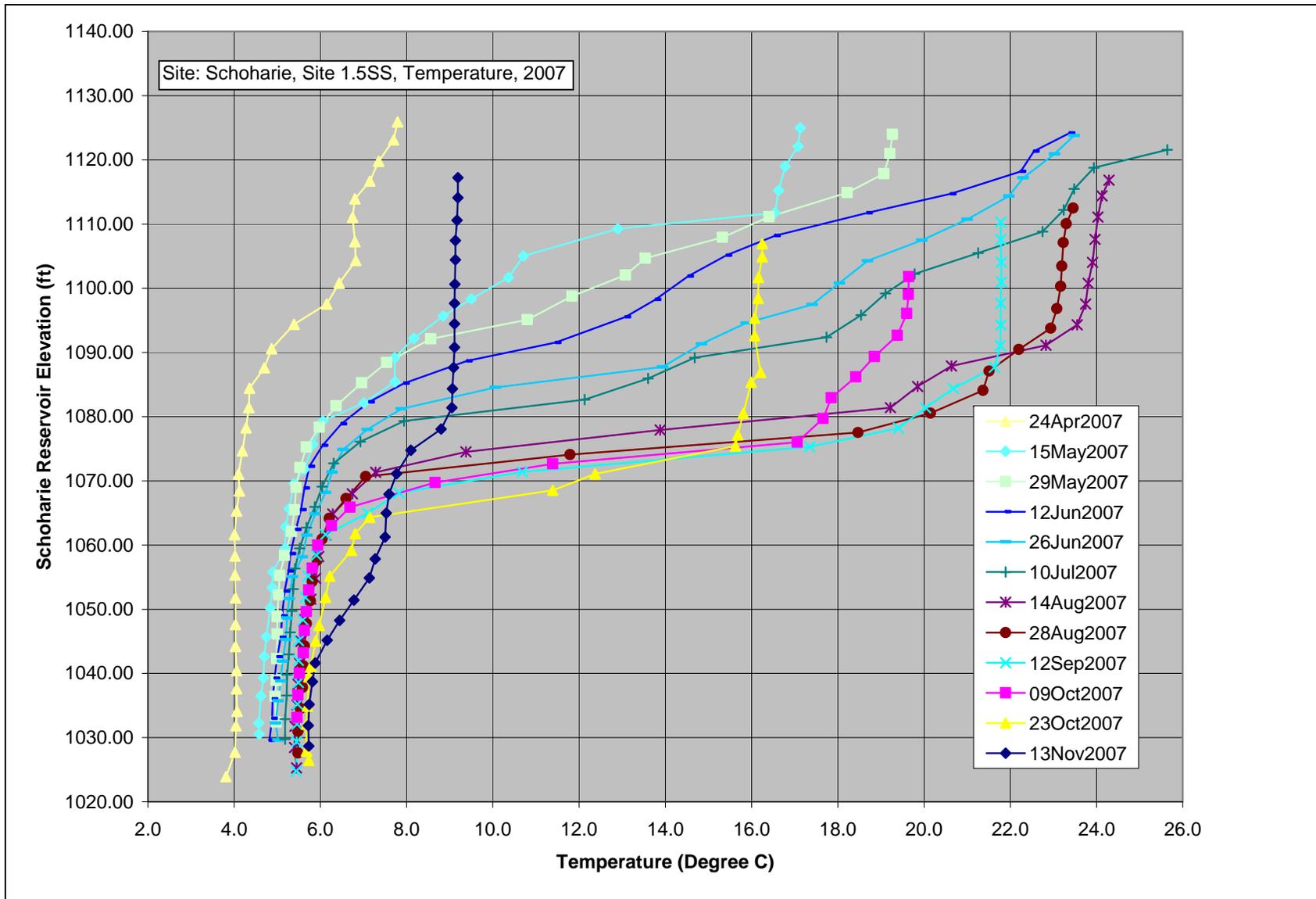
Figure 4.3.2.4-5: Neversink River below Neversink Dam – Annual Flow Duration Curve (USGS Gage and OASIS Results), Drainage Area = 92.6 mi<sup>2</sup>



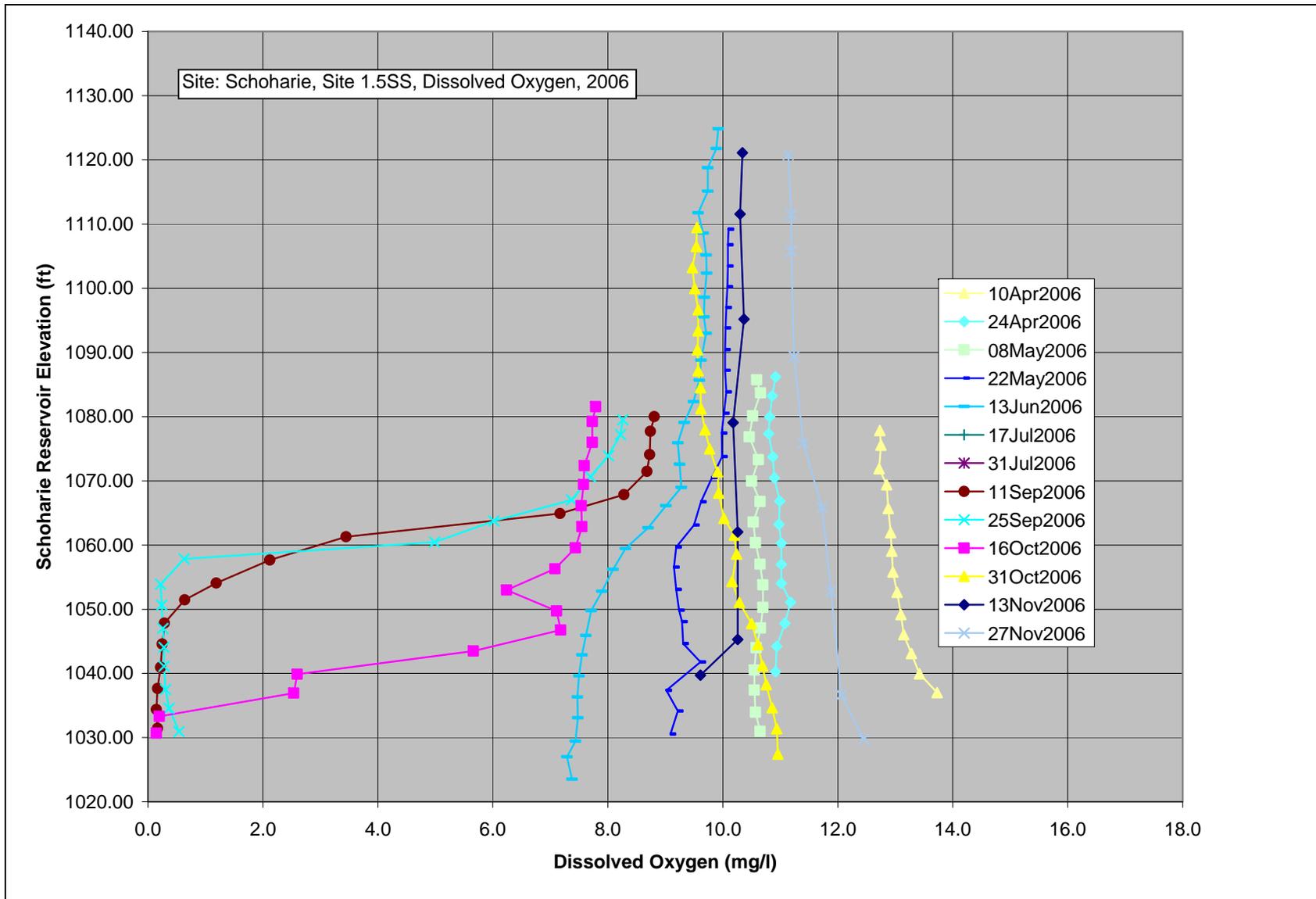
**Figure 4.3.4.1-1: Water Quality Sampling Locations near Schoharie Reservoir**



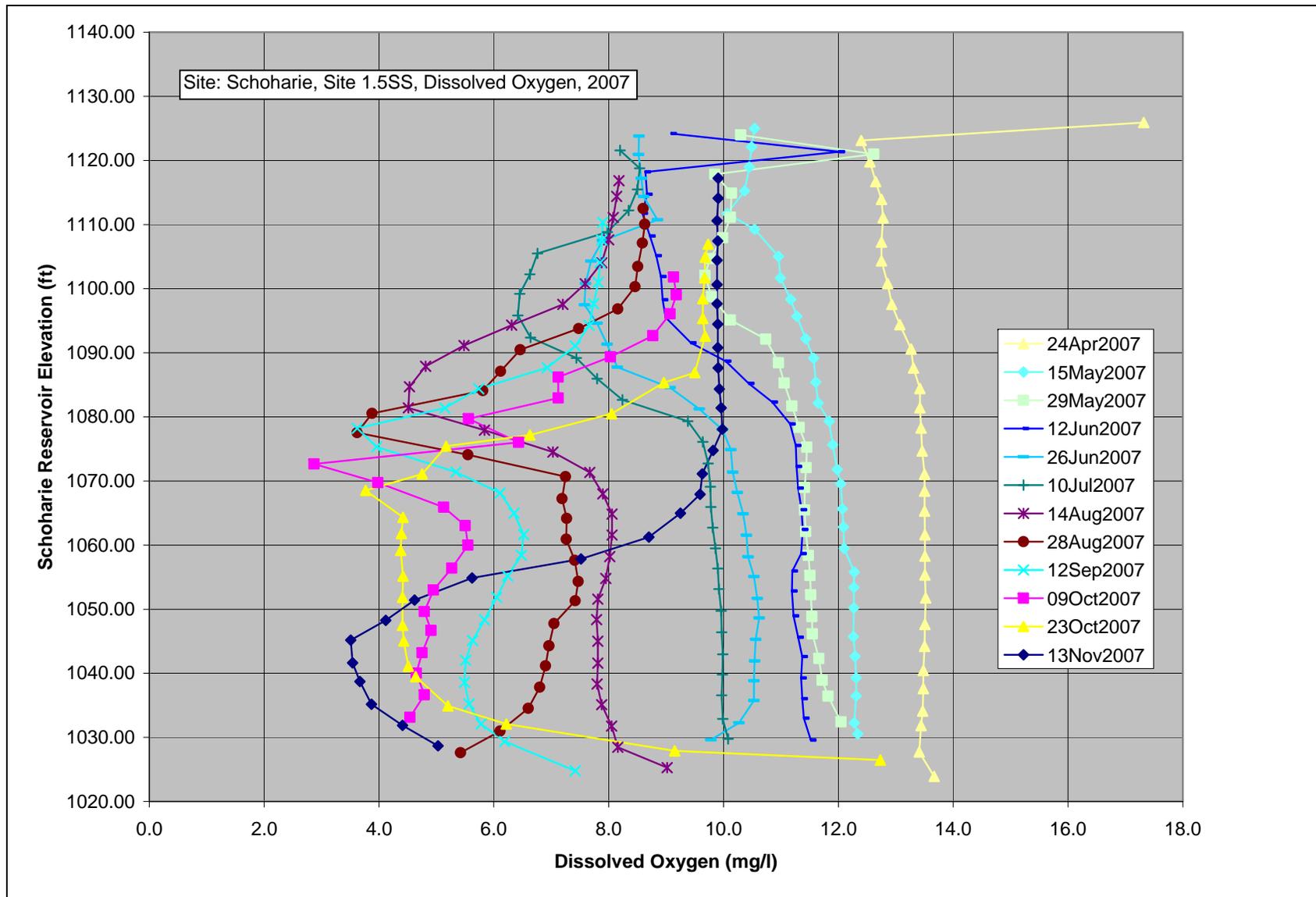
**Figure 4.3.4.1-2: Schoharie Reservoir, Sample Site 1.5SS – 2006 Temperature Profiles**  
 (halfway between Gilboa Dam & intake at Manorkill)



**Figure 4.3.4.1-3: Schoharie Reservoir, Sample Site 1.5SS – 2007 Temperature Profiles**  
 (halfway between Gilboa Dam & intake at Manorkill)



**Figure 4.3.4.1-4: Schoharie Reservoir, Sample Site 1.5SS – 2006 Dissolved Oxygen Profiles**  
 (halfway between Gilboa Dam & intake at Manorkill)



**Figure 4.3.4.1-5: Schoharie Reservoir, Sample Site 1.5SS – 2007 Dissolved Oxygen Profiles**  
(halfway between Gilboa Dam & intake at Manorkill)

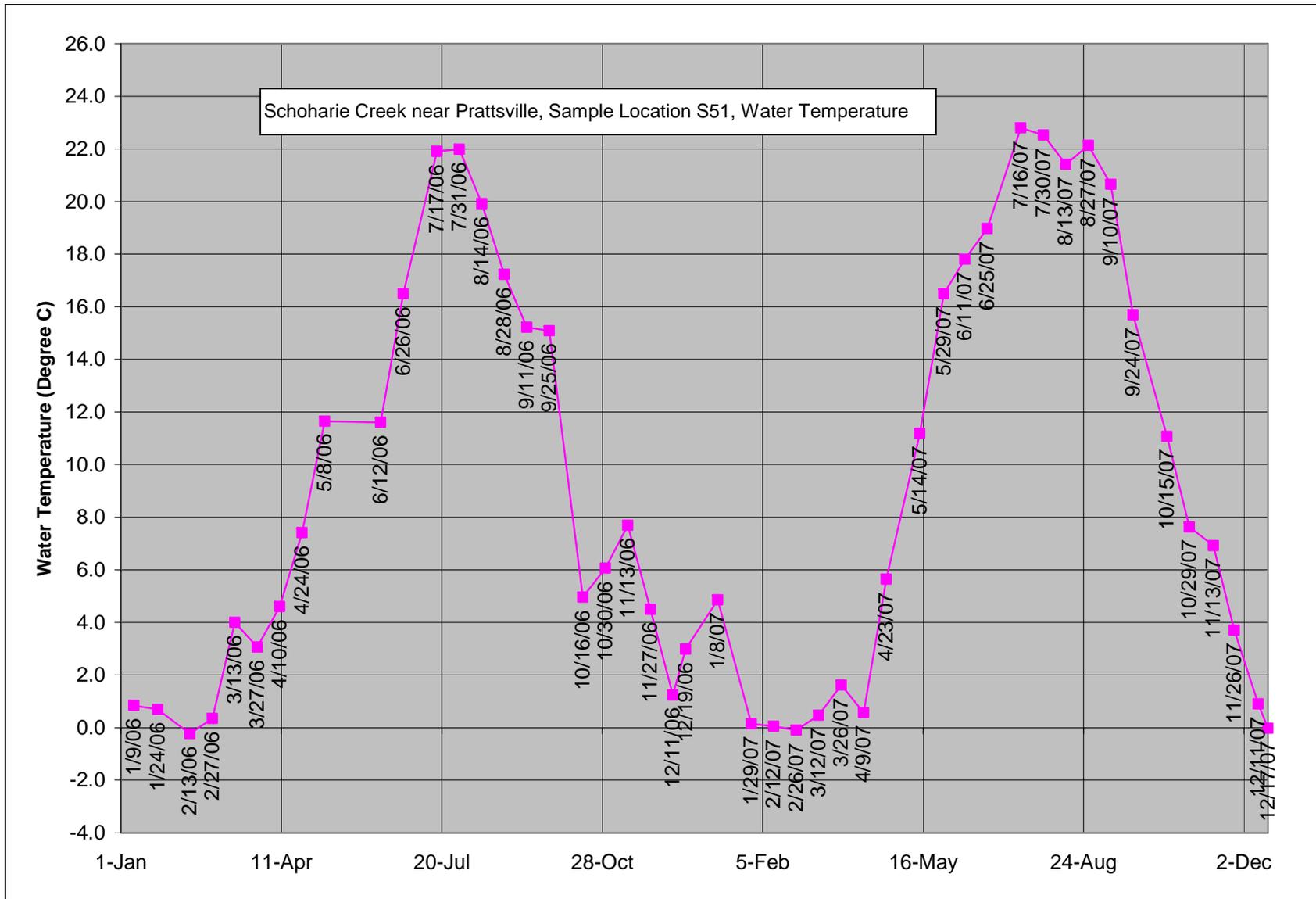
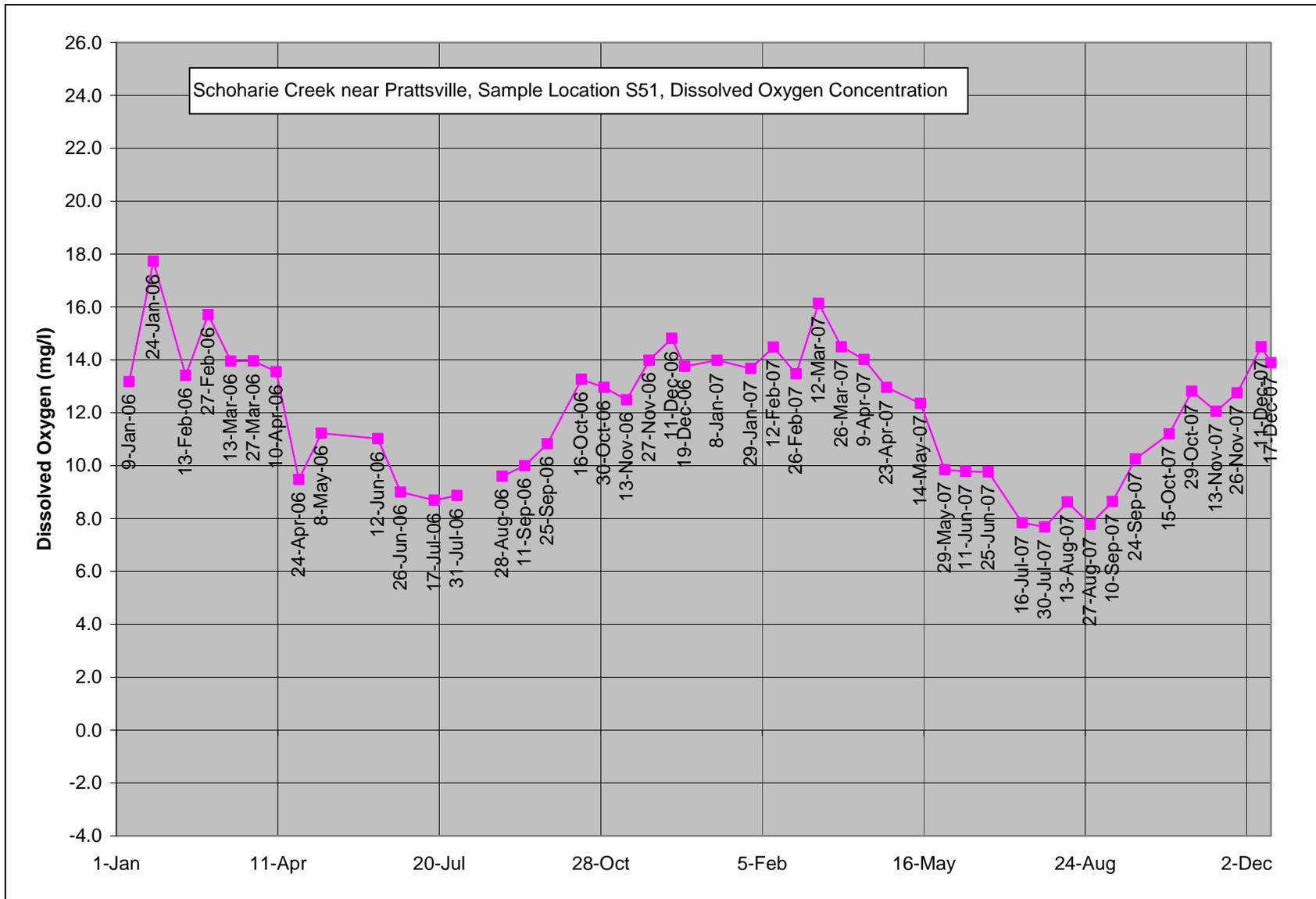


Figure 4.3.4.1-6: Schoharie Creek Inflow, Sample Site S51 – 2006 & 2007 Temperature Data  
(Schoharie Creek below Prattsville, NY)



**Figure 4.3.4.1-7: Schoharie Creek Inflow, Sample Site S51 – 2006 & 2007 Dissolved Oxygen Data**  
(Schoharie Creek below Prattsville, NY)

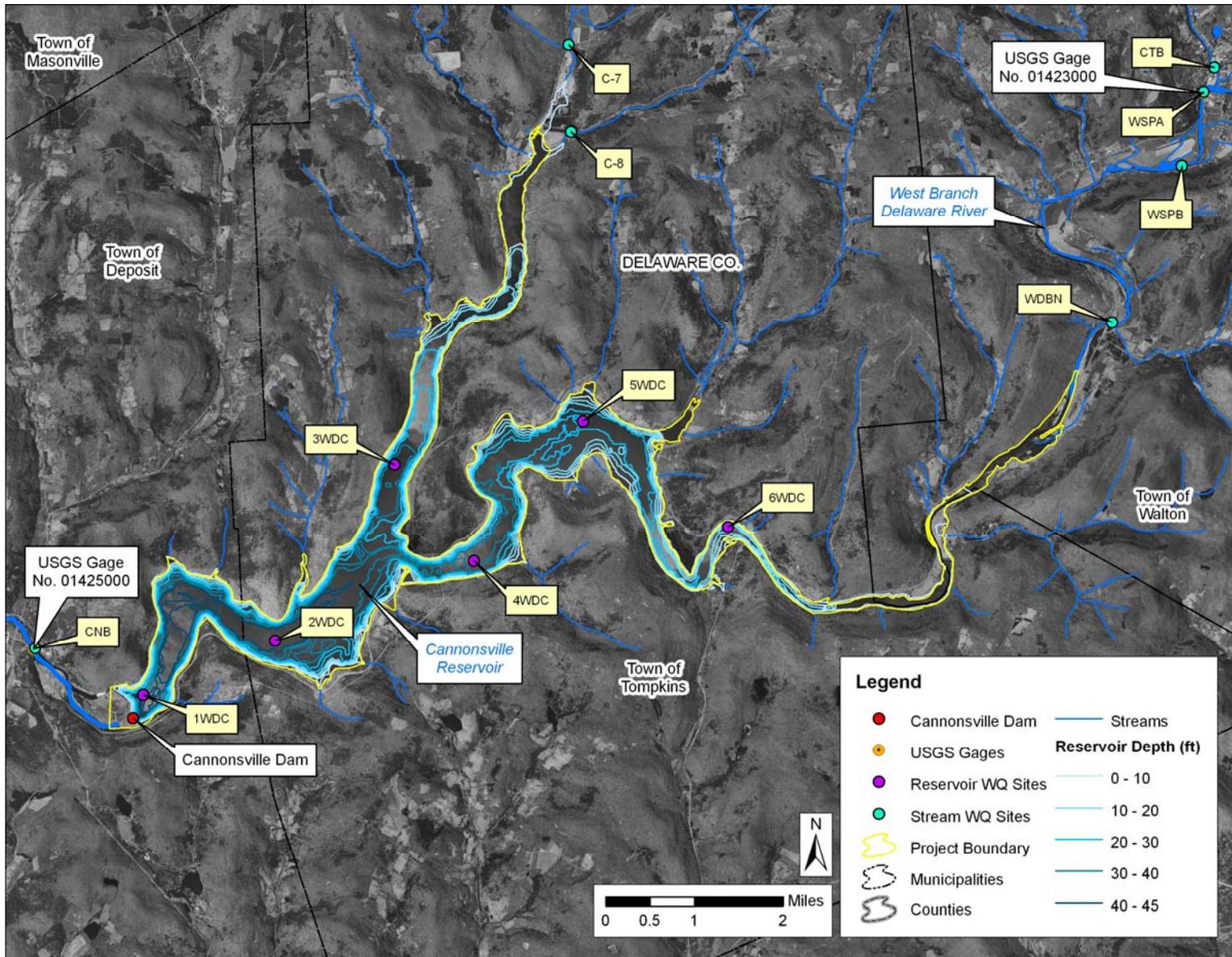
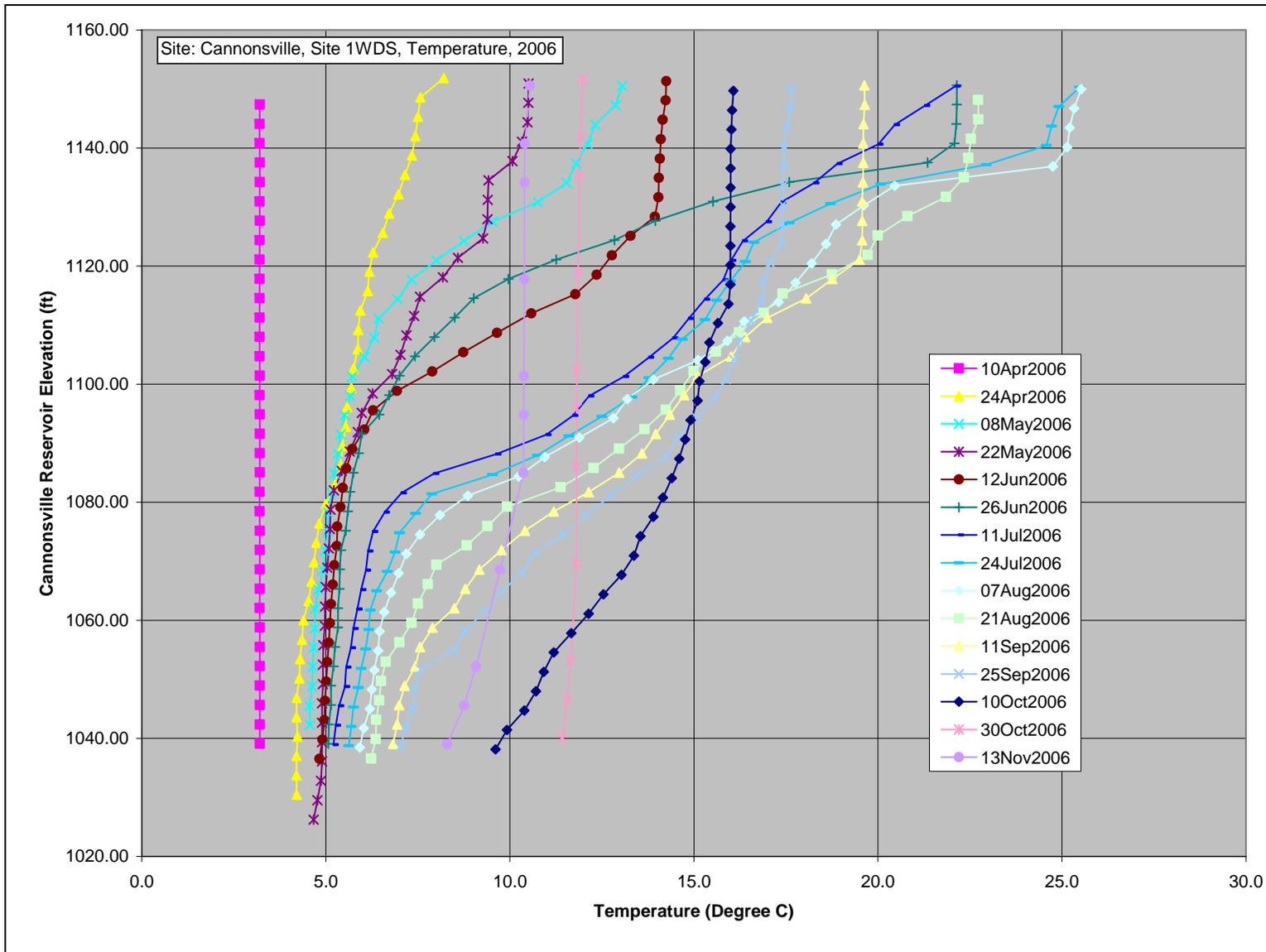
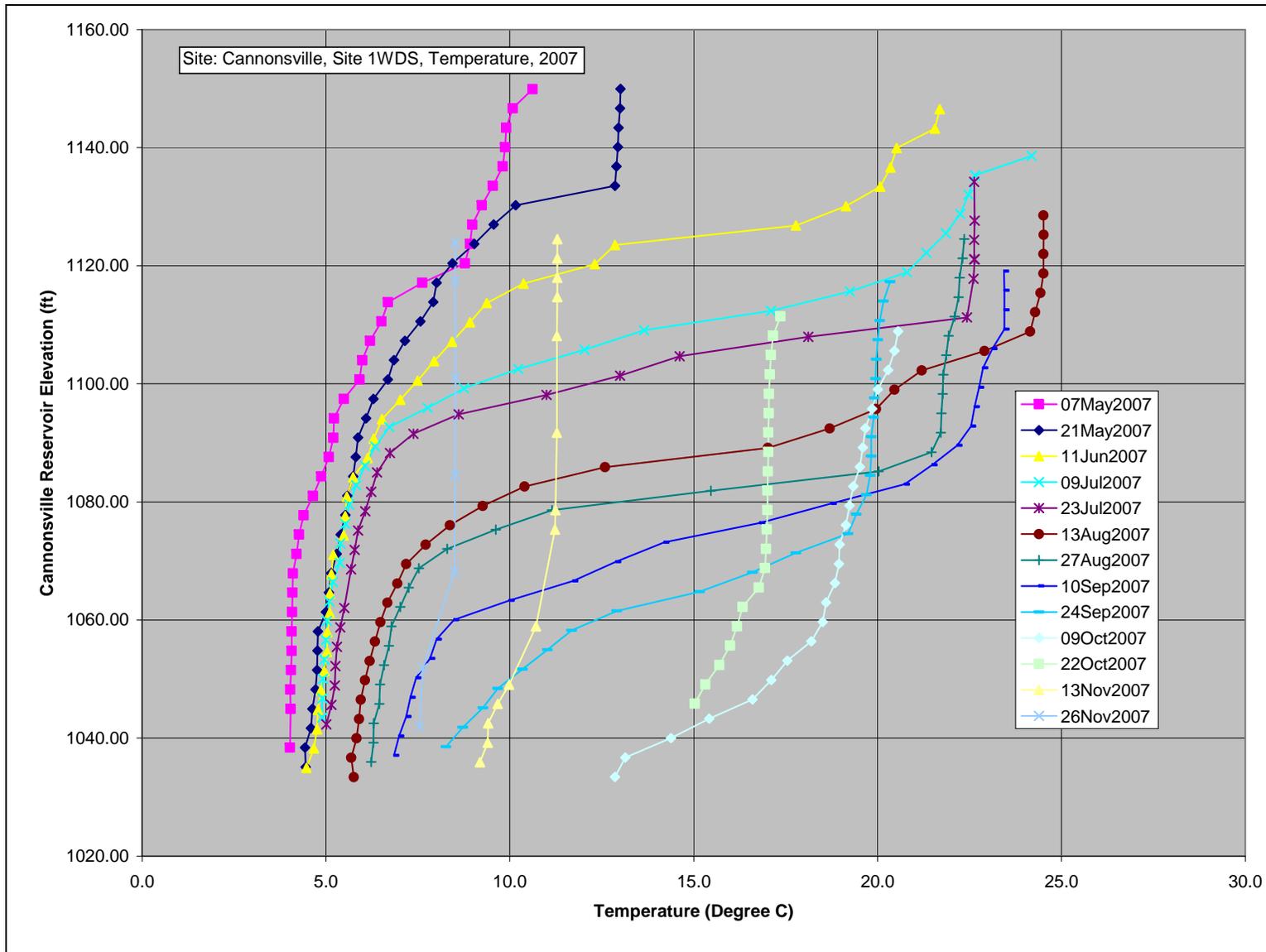


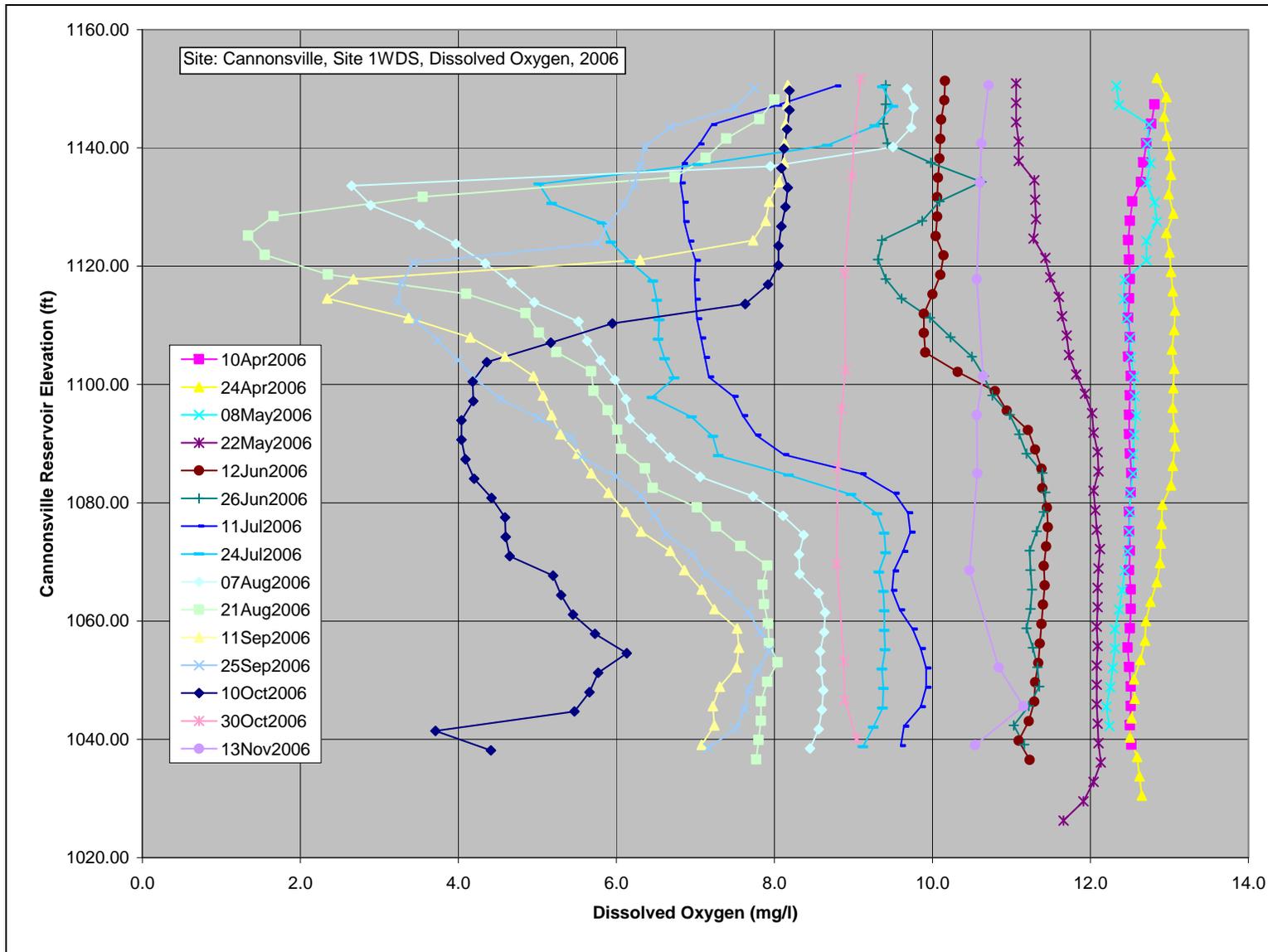
Figure 4.3.4.2-1: Water Quality Sampling Locations near the Cannonsville Reservoir



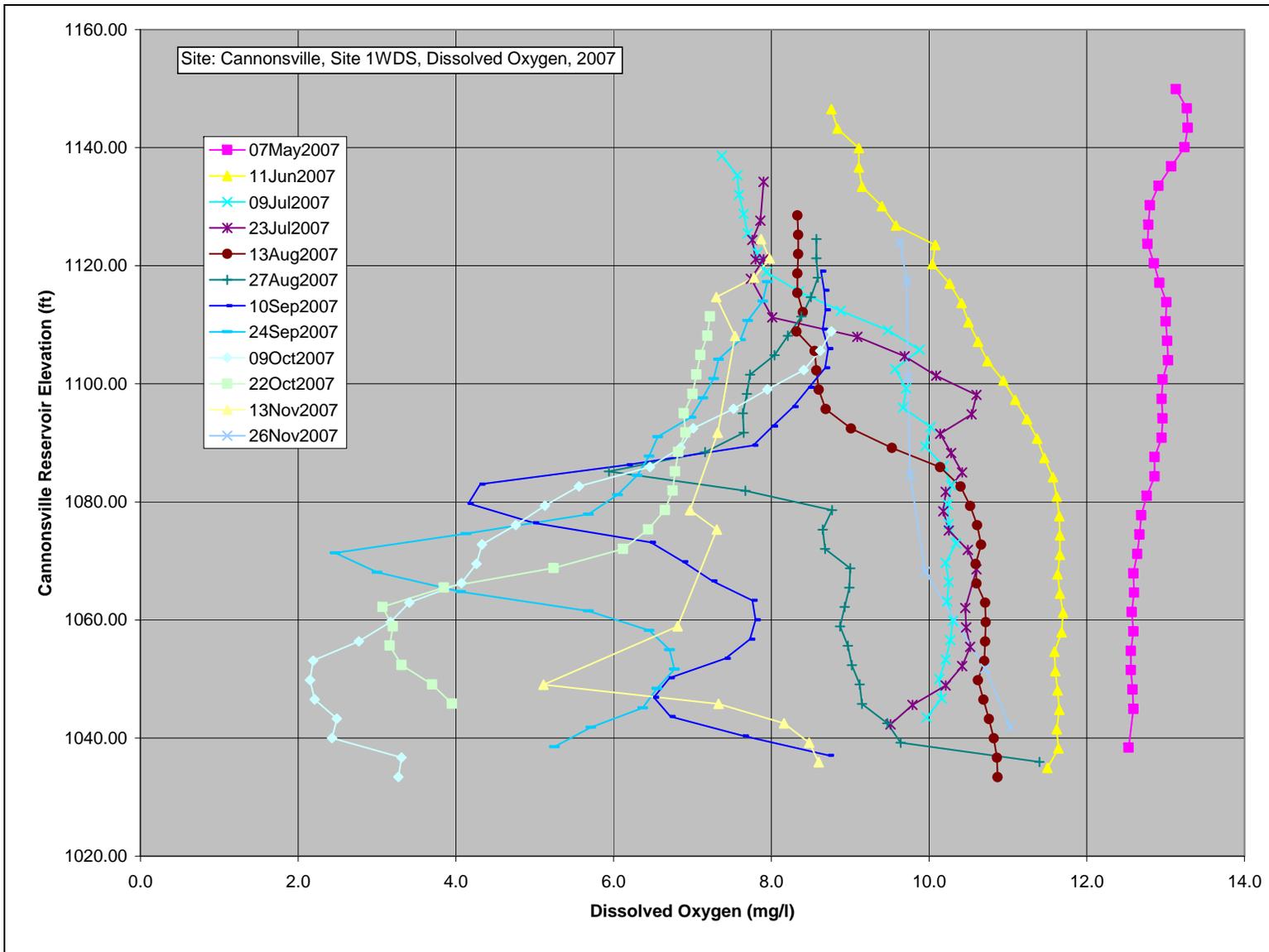
**Figure 4.3.4.2-2: Cannonsville Reservoir, Sample Site 1WDC – 2006 Temperature Profiles**  
(mid-channel at Cannonsville Dam)



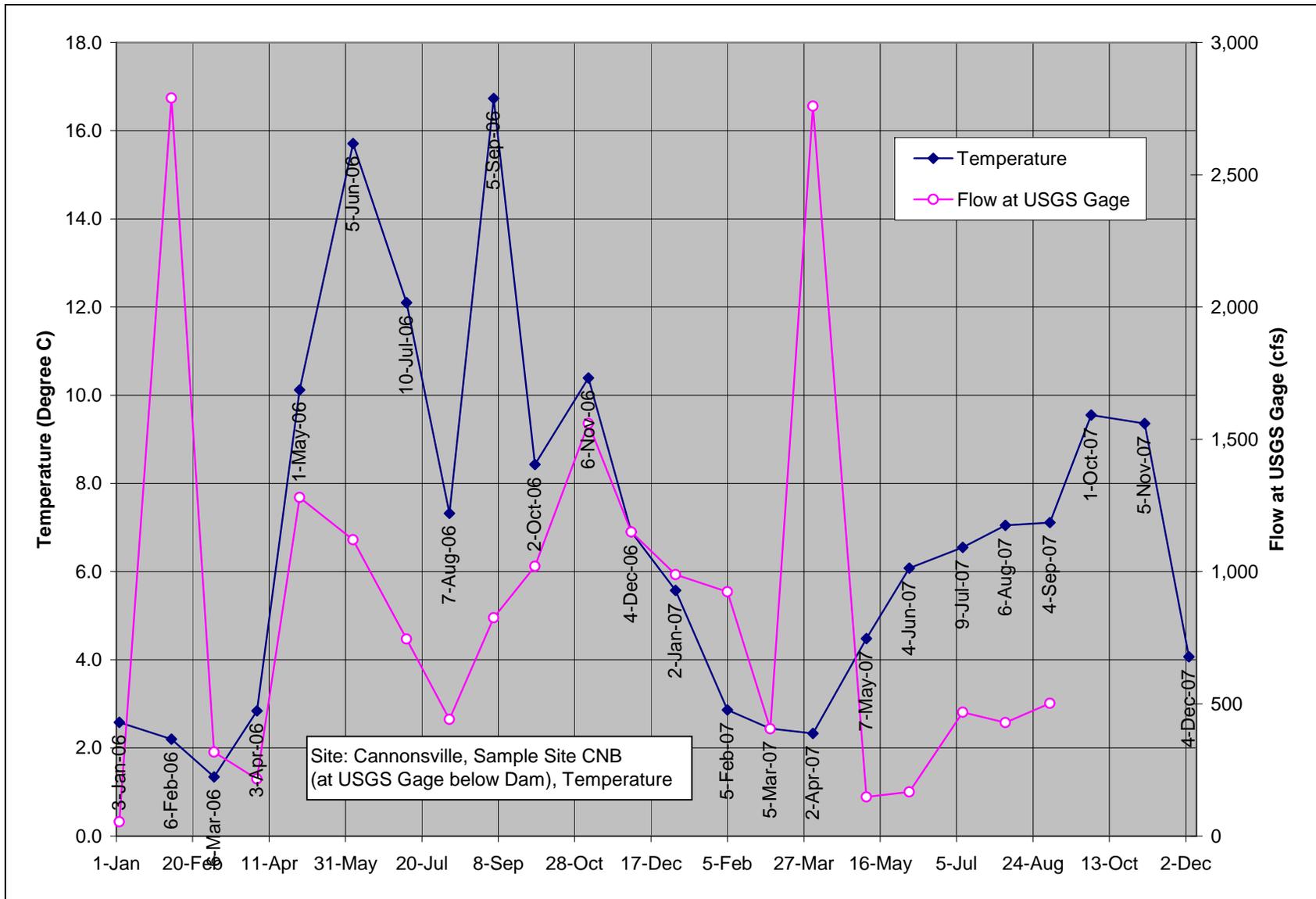
**Figure 4.3.4.2-3: Cannonsville Reservoir, Sample Site 1WDC – 2007 Temperature Profiles**  
(mid-channel at Cannonsville Dam)



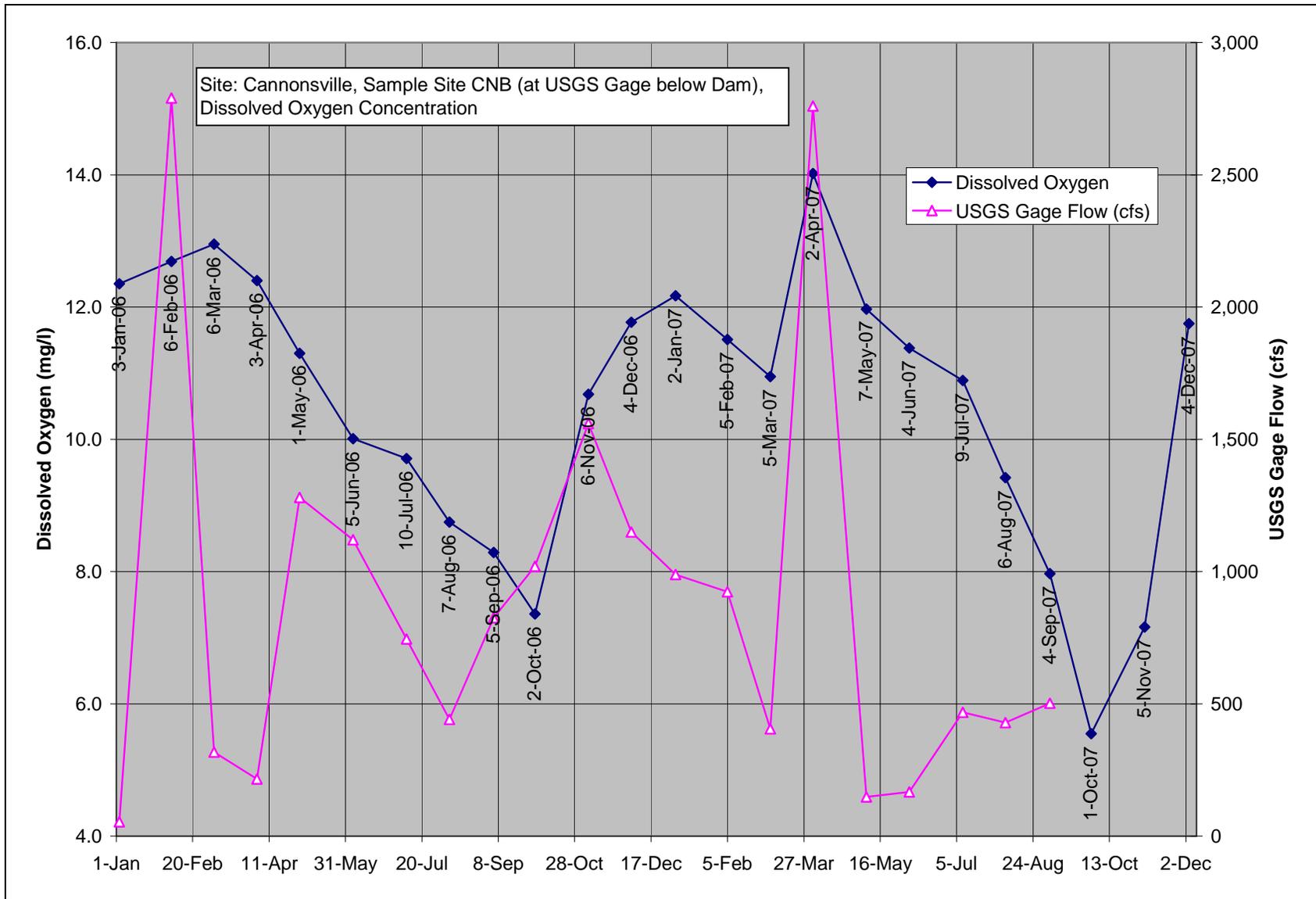
**Figure 4.3.4.2-4: Cannonsville Reservoir, Sample Site 1WDC – 2006 Dissolved Oxygen Profiles**  
(mid-channel at Cannonsville Dam)



**Figure 4.3.4.2-5: Cannonsville Reservoir, Sample Site 1WDC – 2007 Dissolved Oxygen Profiles**  
(mid-channel at Cannonsville Dam)



**Figure 4.3.4.2-6: Cannonsville Release, Sample Site CNB – 2006 & 2007 Temperature Data**  
(near Stilesville Bridge, at USGS Gage)



**Figure 4.3.4.2-7: Cannonsville Release, Sample Site CNB – 2006 & 2007 Dissolved Oxygen Data**  
 (near Stilesville Bridge, at USGS Gage)

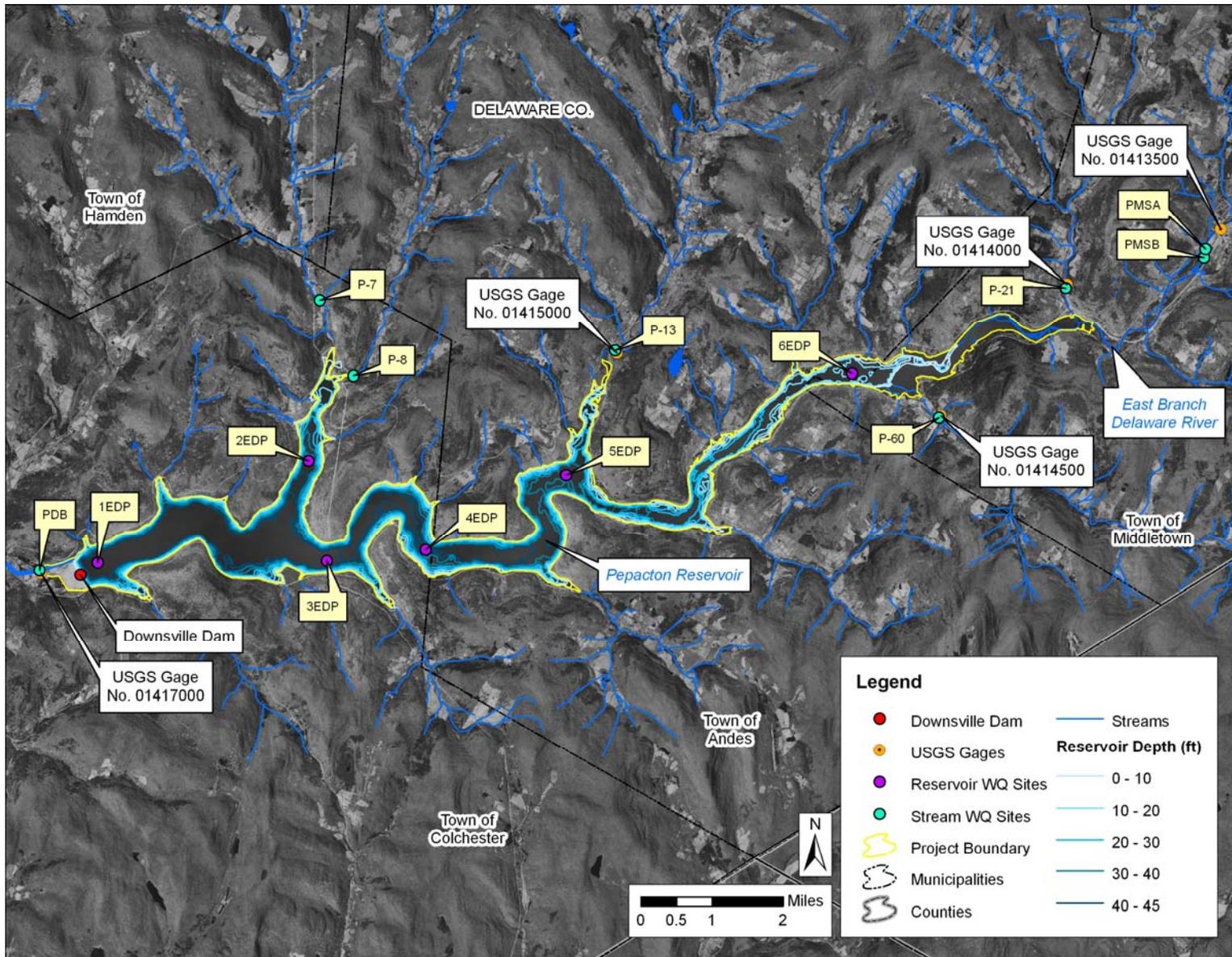
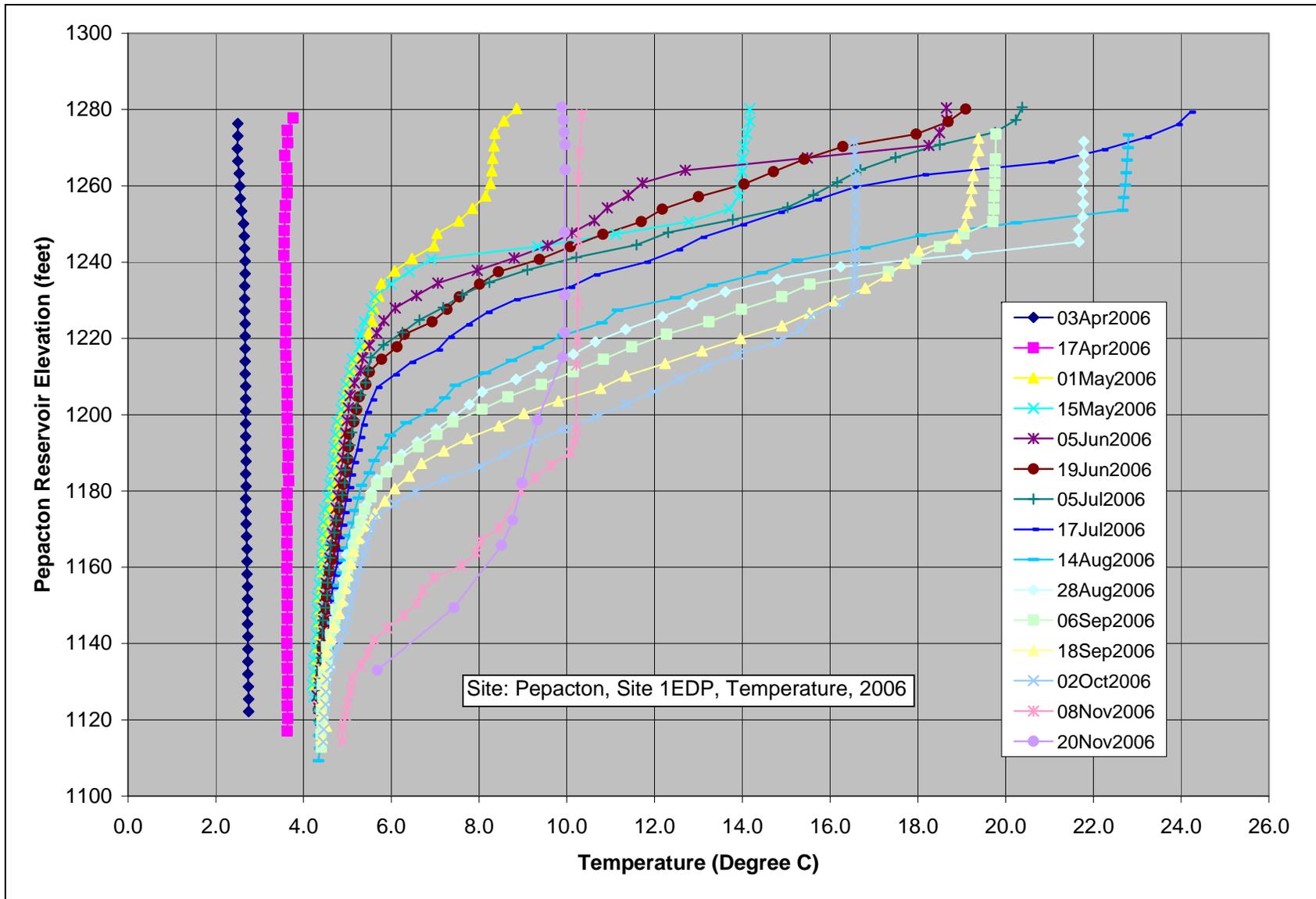
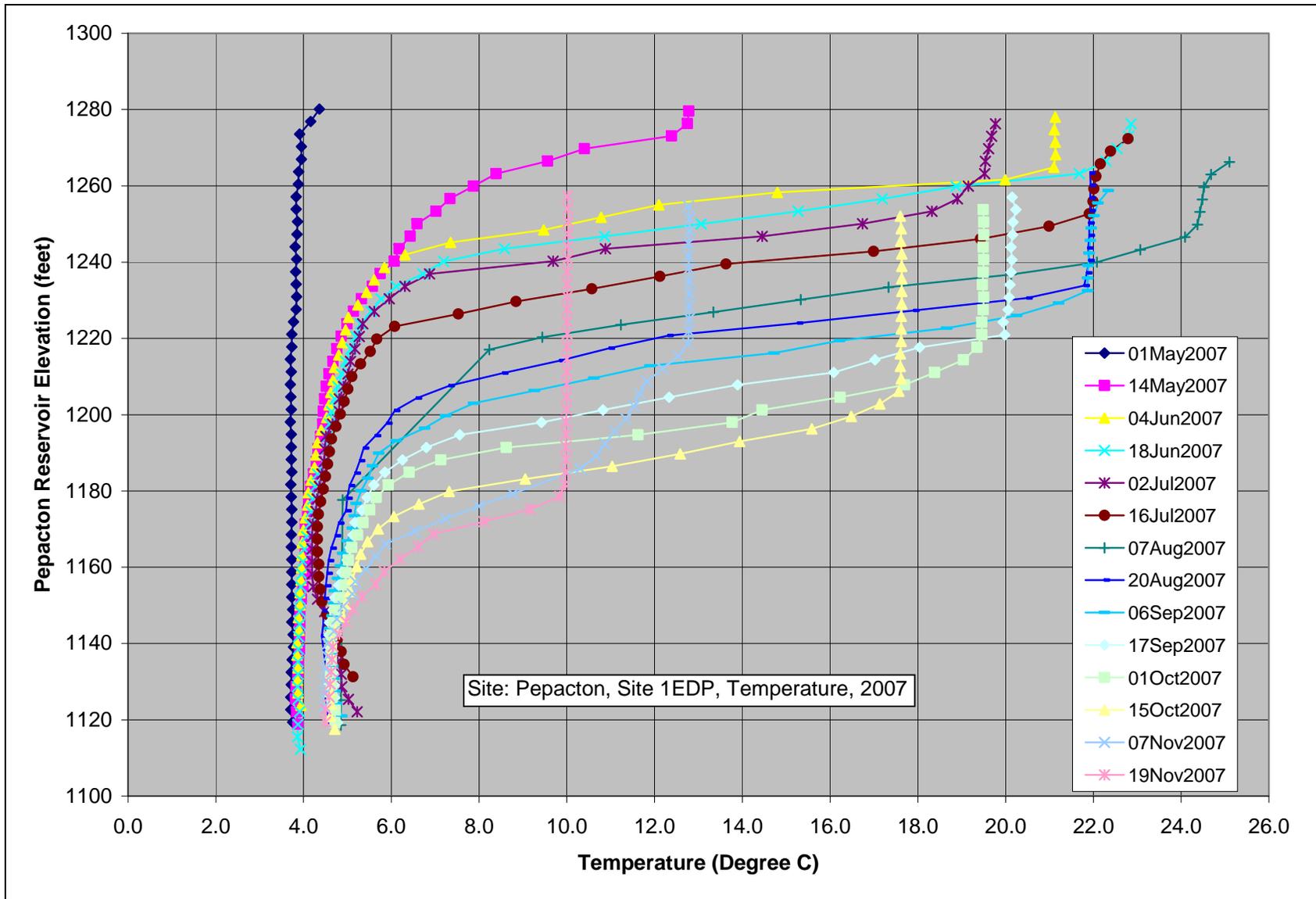


Figure 4.3.4.3-1: Water Quality Sampling Locations near the Pepacton Reservoir



**Figure 4.3.4.3-2: Pepacton Reservoir, Sample Site 1EDP – 2006 Temperature Profiles**  
 (mid-channel at Downsville Dam)



**Figure 4.3.4.3-3: Pepacton Reservoir, Sample Site 1EDP – 2007 Temperature Profiles**  
 (mid-channel at Downsville Dam)

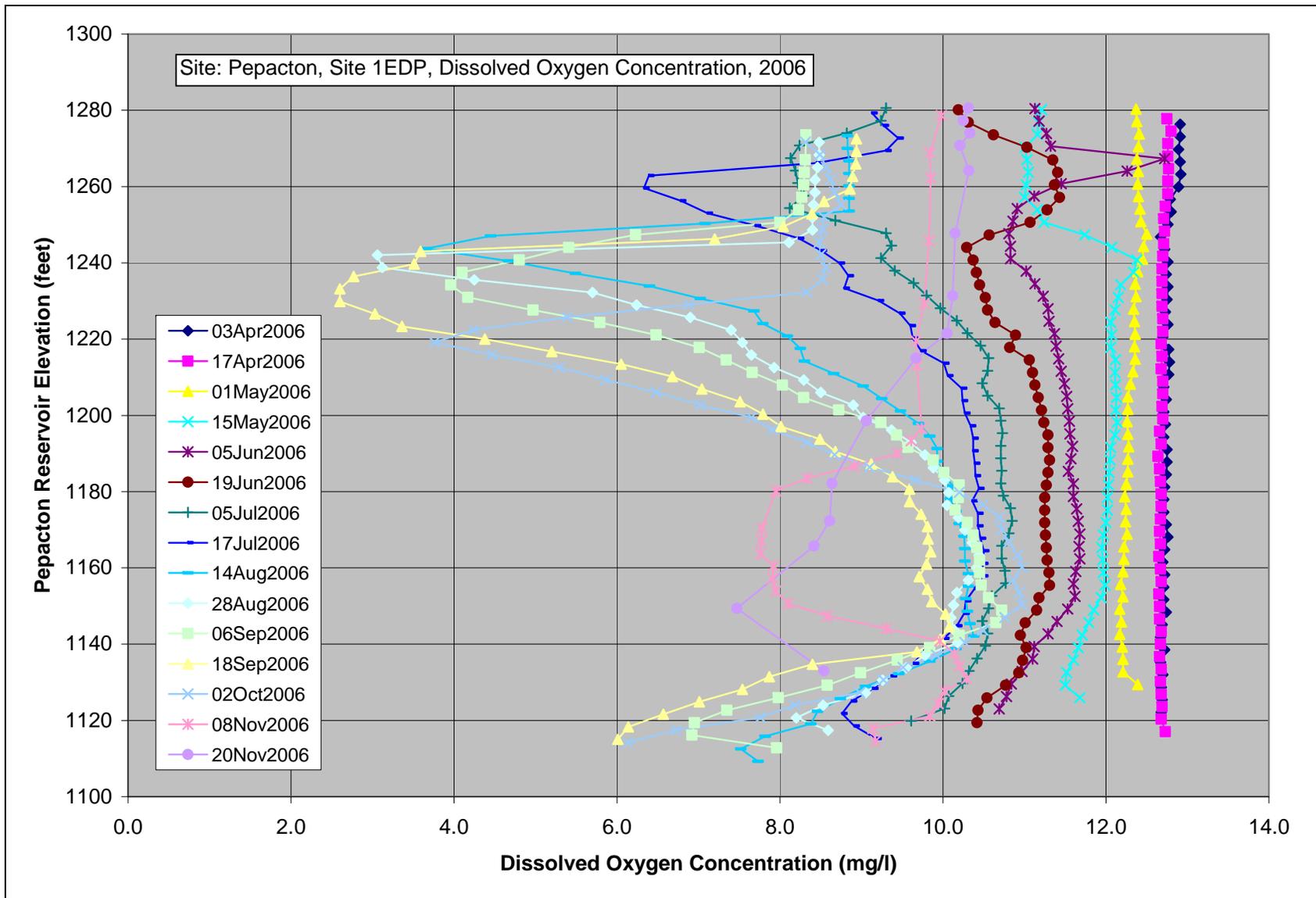


Figure 4.3.4.3-4: Pepacton Reservoir, Sample Site 1EDP – 2006 Dissolved Oxygen Profiles  
(mid-channel at Downsville Dam)

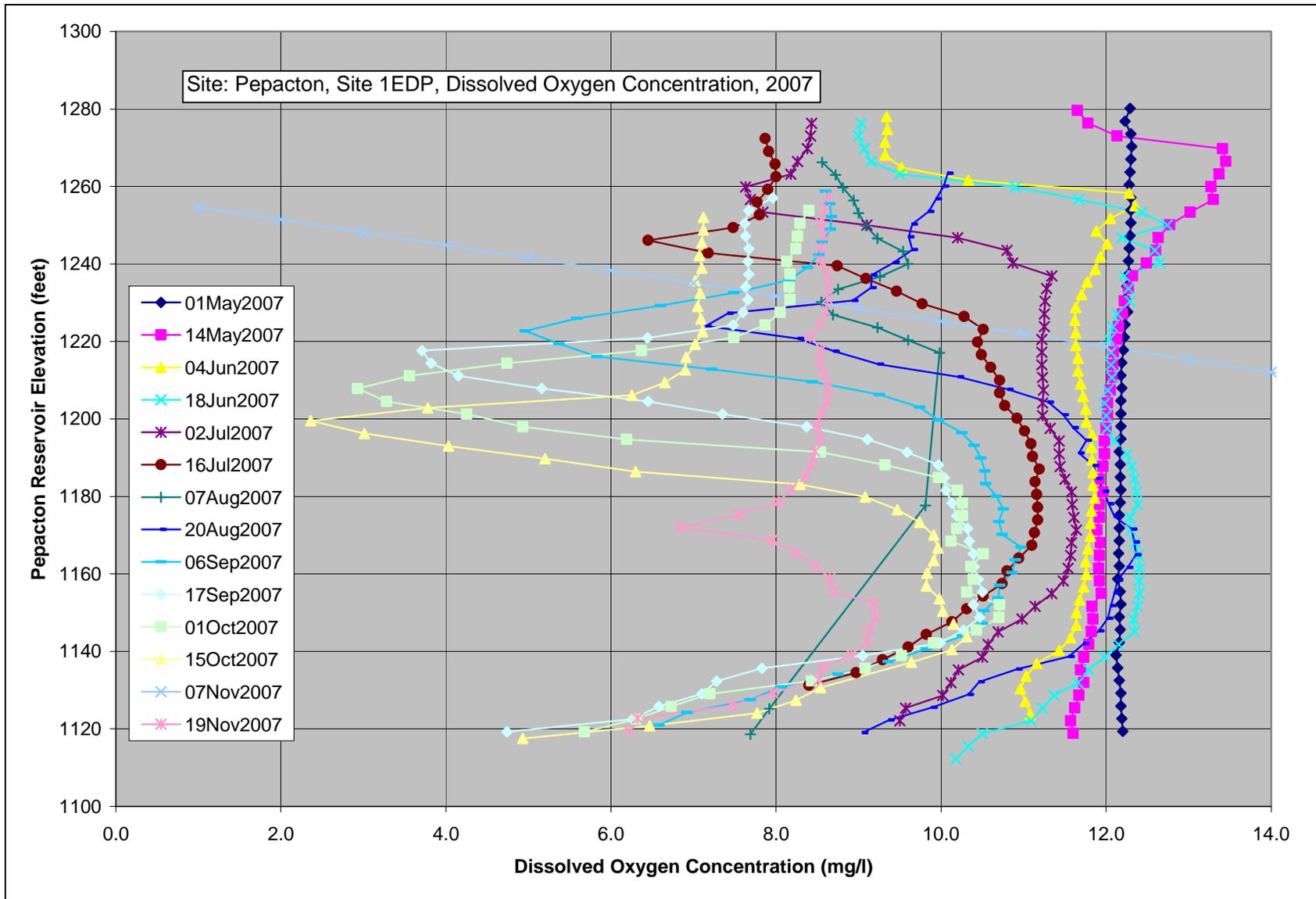
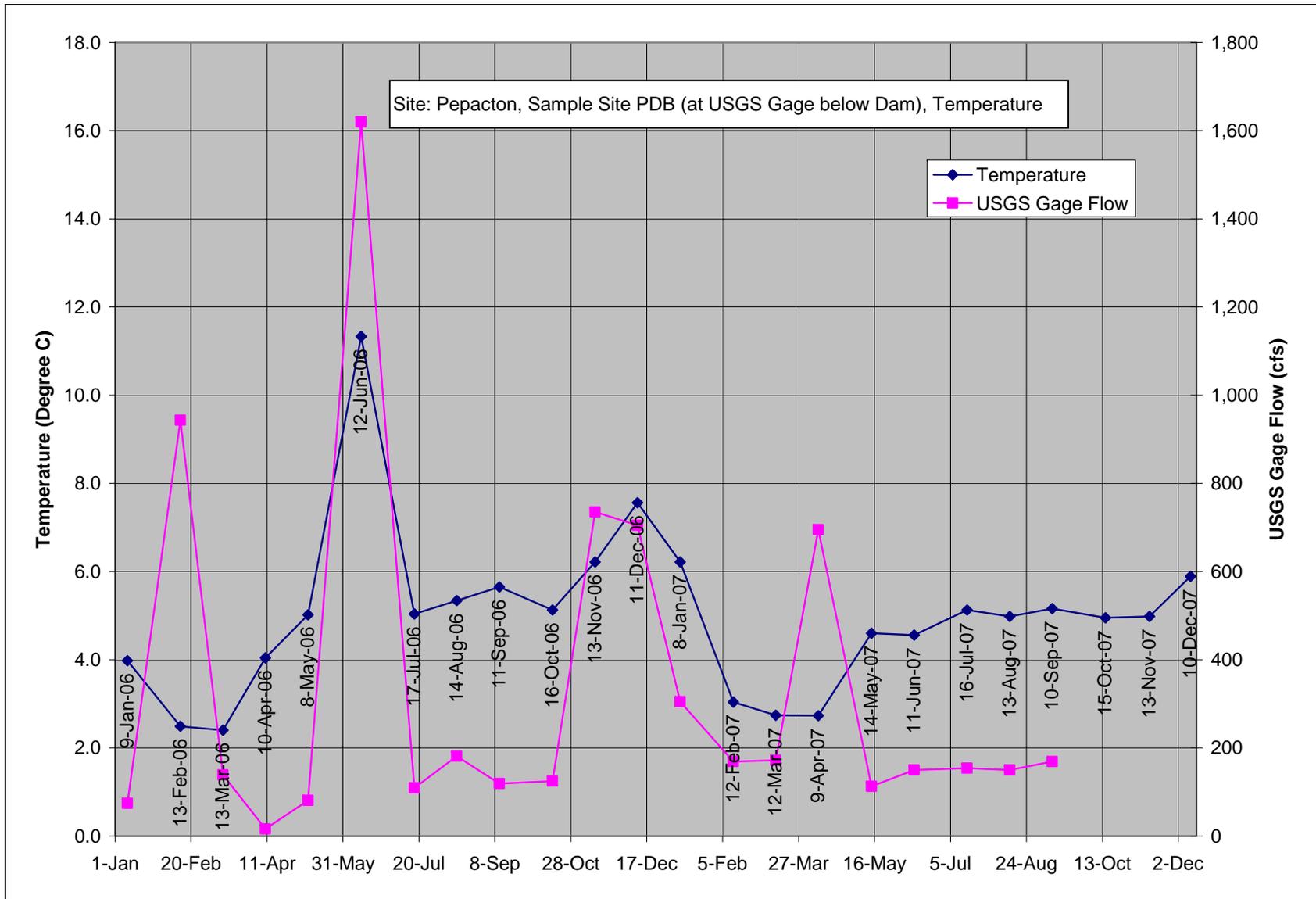
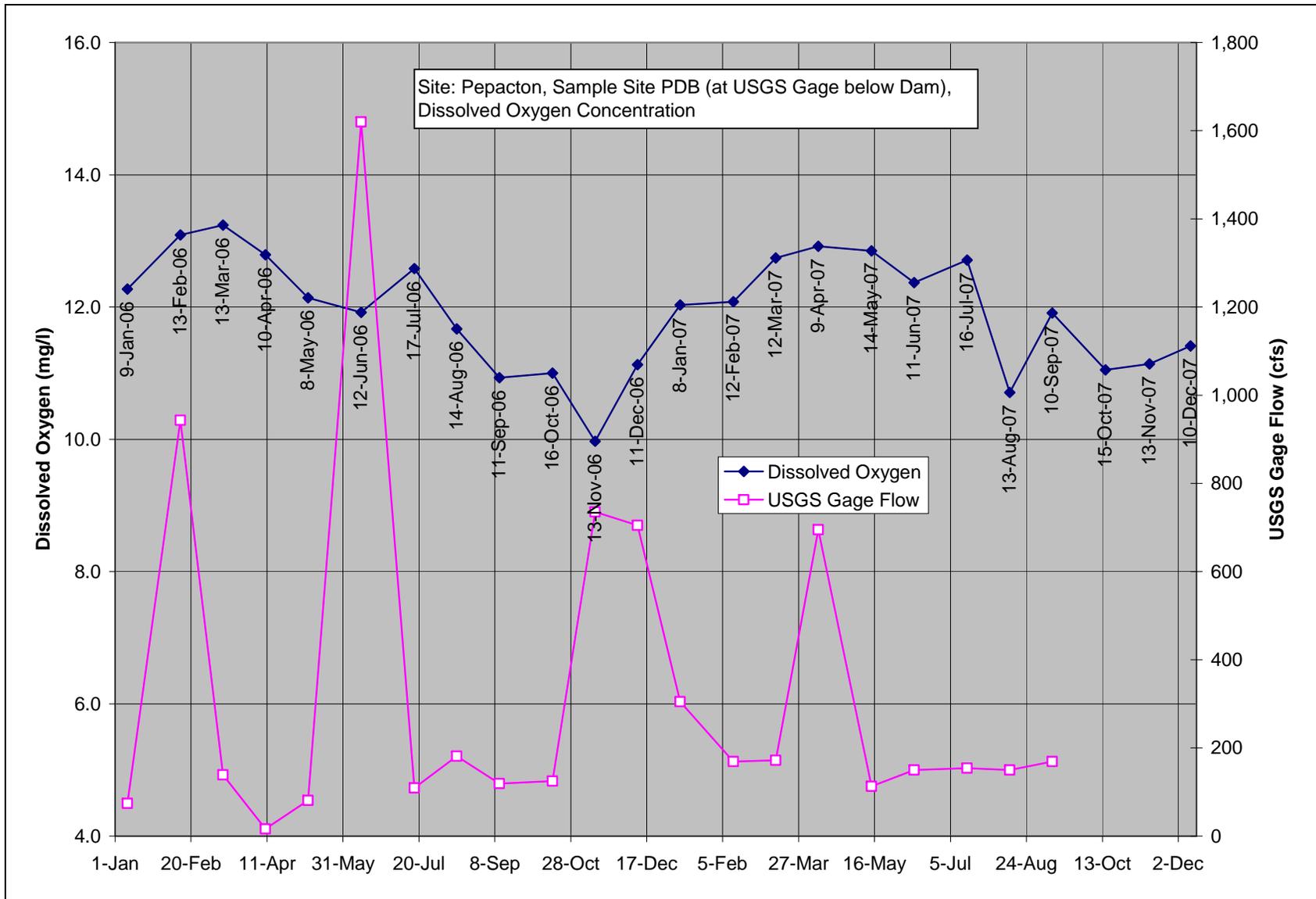


Figure 4.3.4.3-5: Pepacton Reservoir, Sample Site 1EDP – 2007 Dissolved Oxygen Profiles  
(mid-channel at Downsville Dam)



**Figure 4.3.4.3-6: Pepacton Release, Sample Site PDB – 2006 & 2007 Temperature Data**  
(near USGS Gage)



**Figure 4.3.4.3-7: Pepacton Release, Sample Site PDB – 2006 & 2007 Dissolved Oxygen Data (near USGS Gage)**

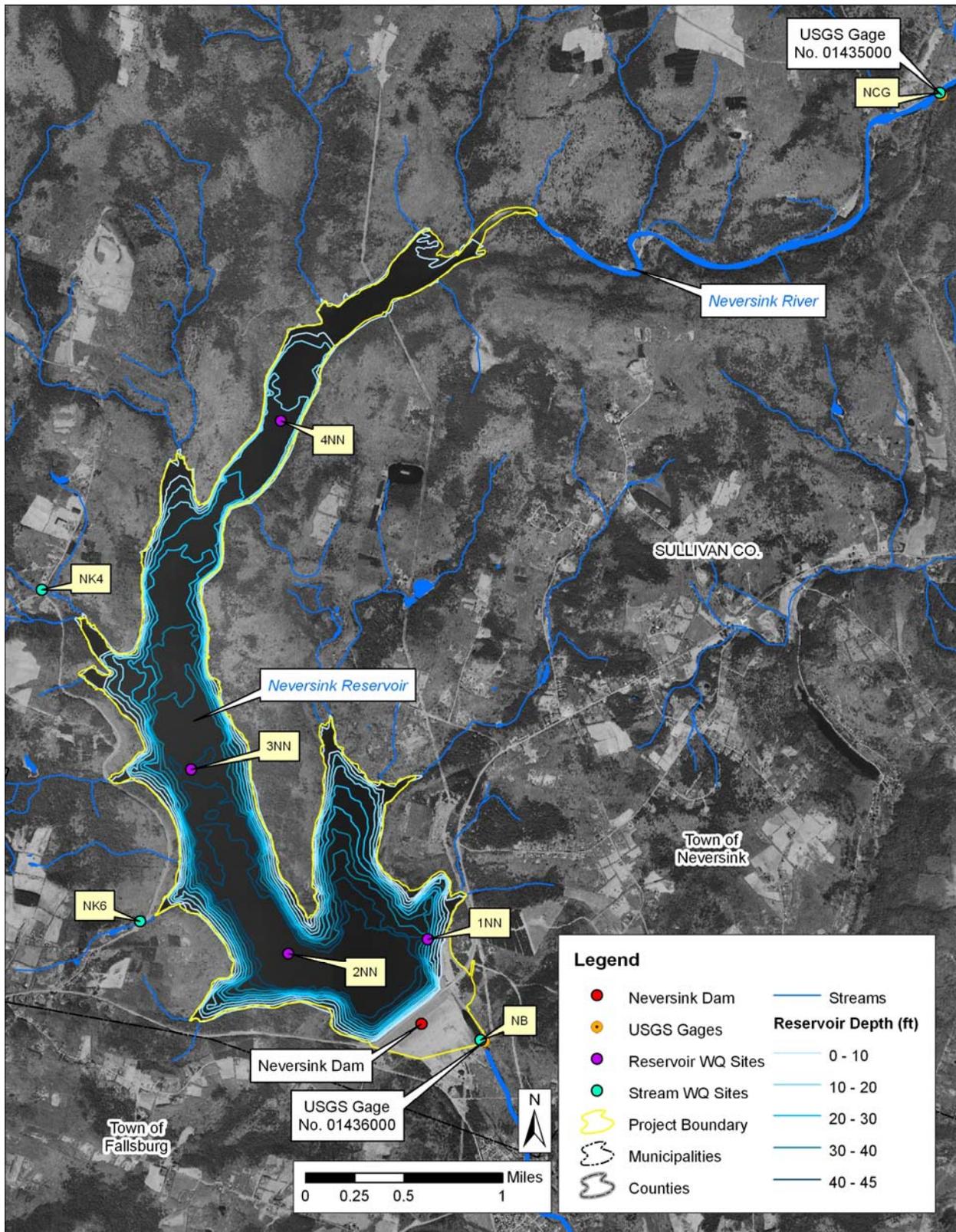


Figure 4.3.4.4-1: Water Quality Sampling Locations near the Neversink Reservoir

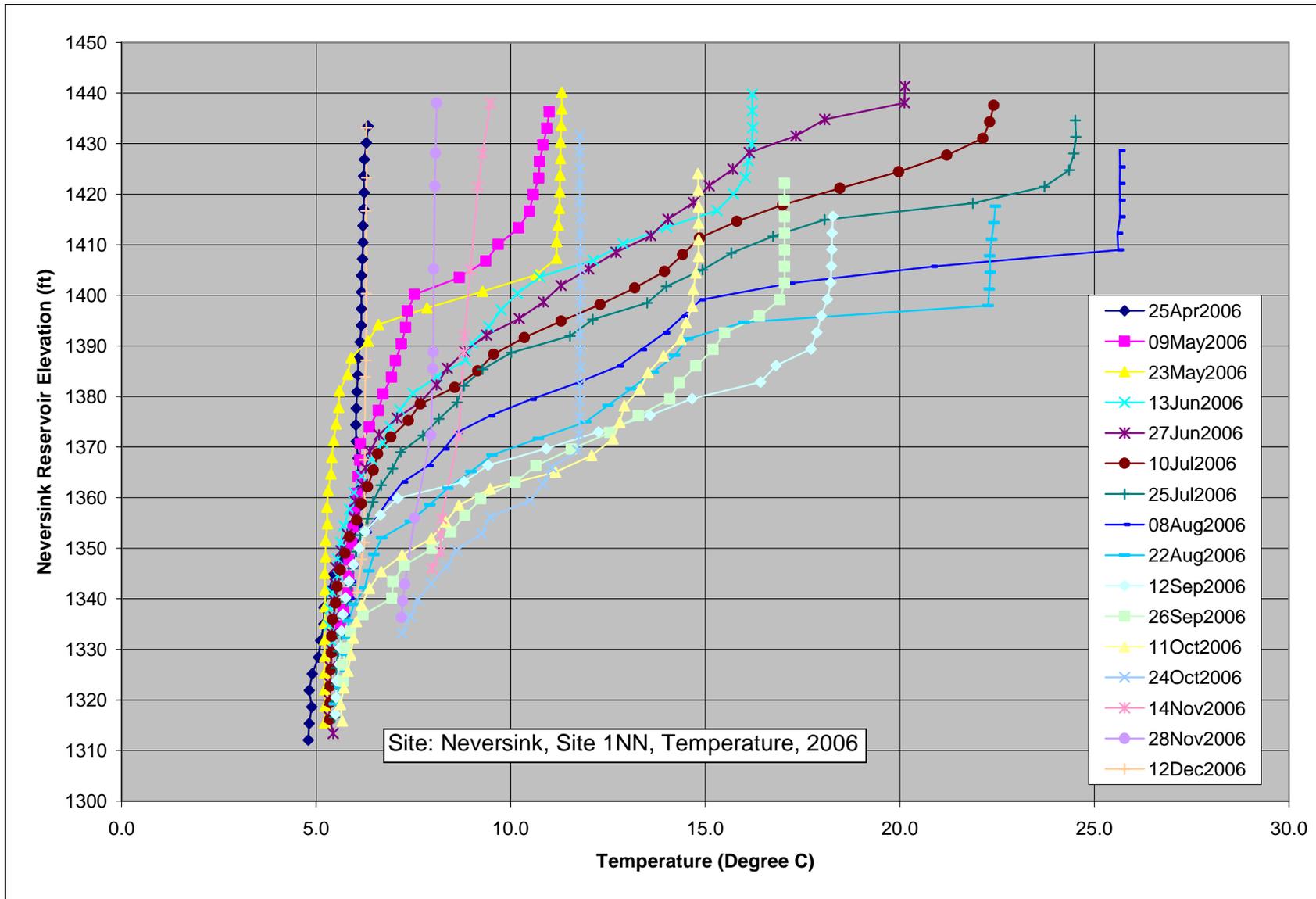


Figure 4.3.4.4-2: Neversink Reservoir, Sample Site 1NN – 2006 Temperature Profiles  
(mid-channel at Neversink intake chamber)

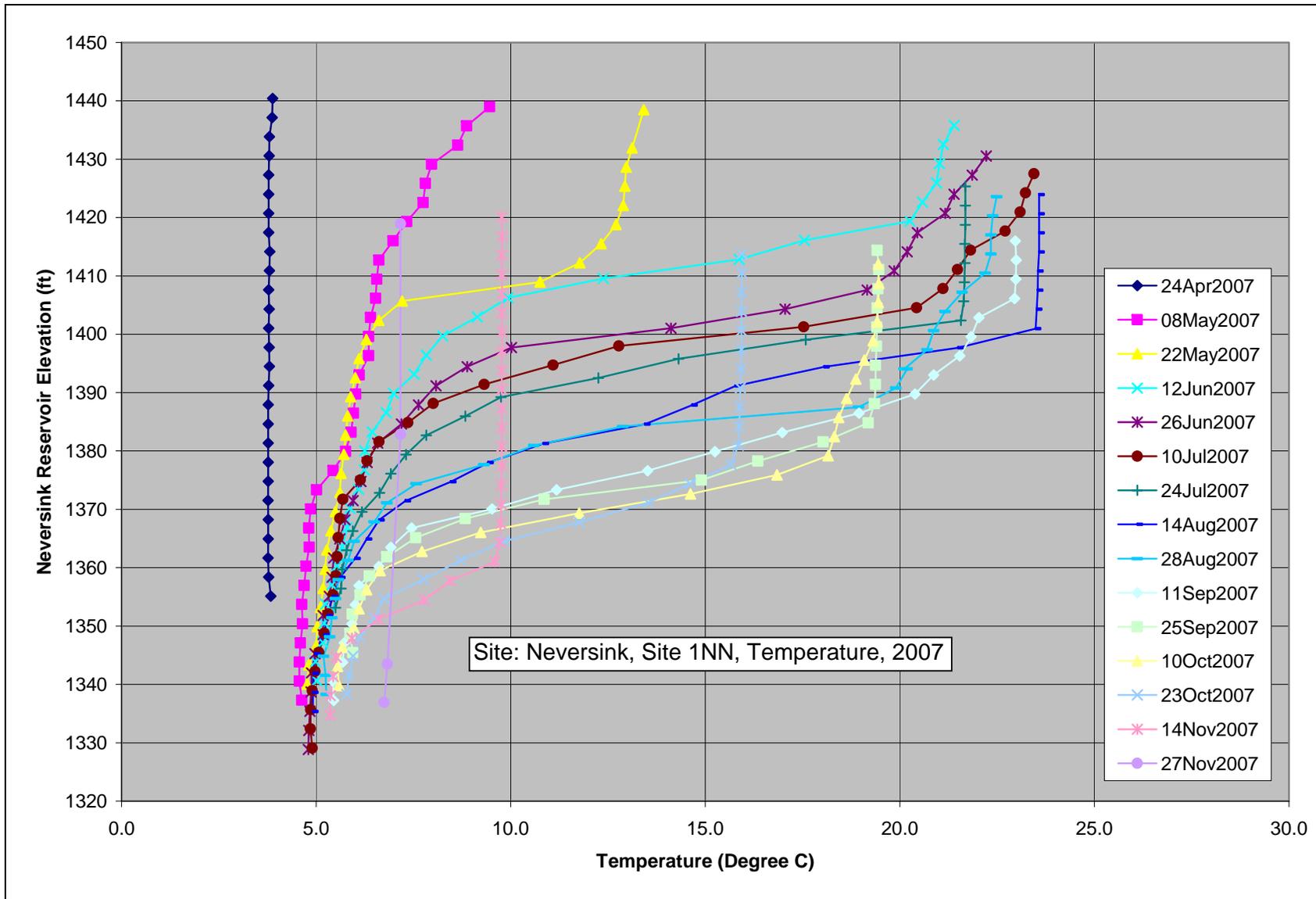
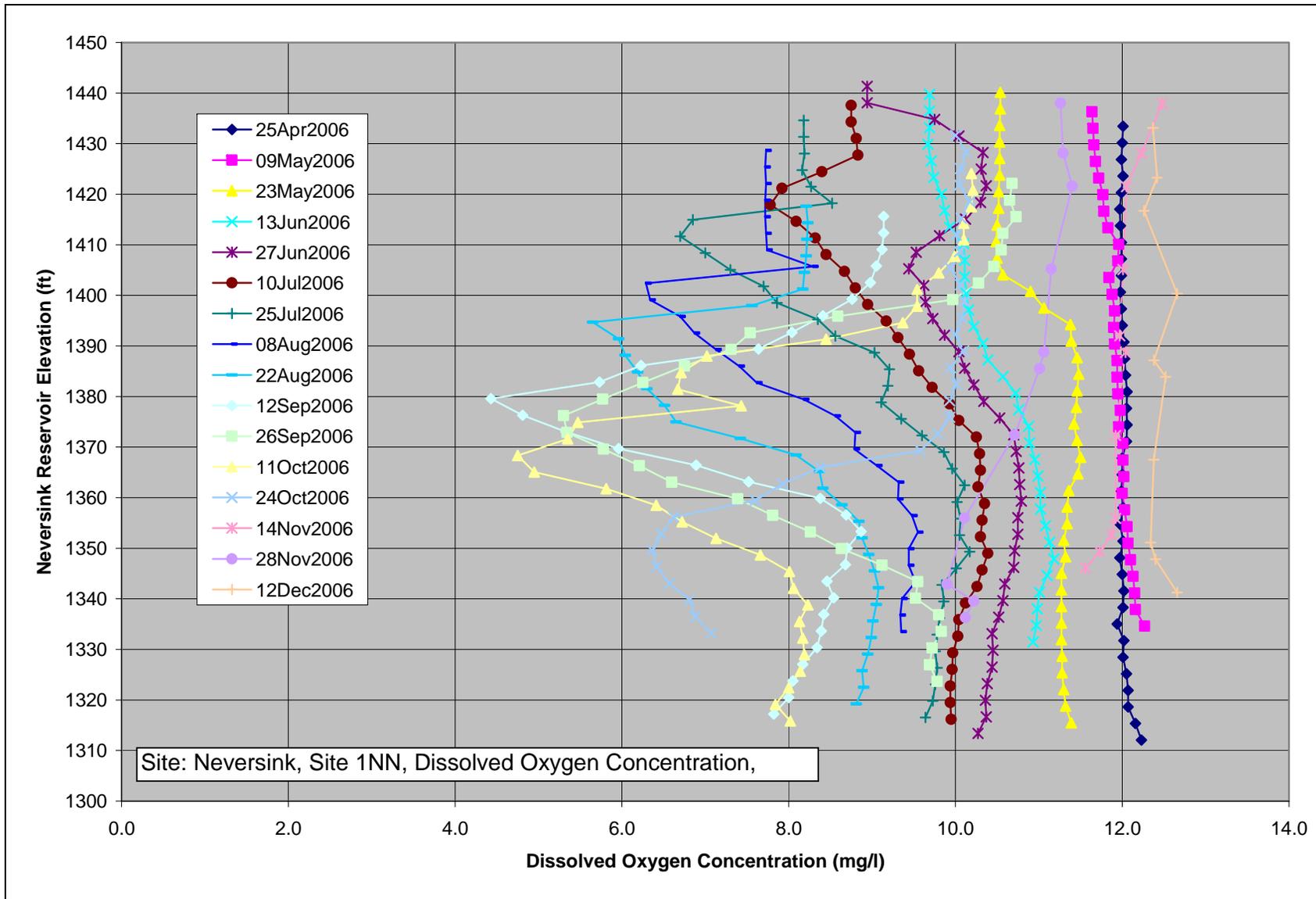
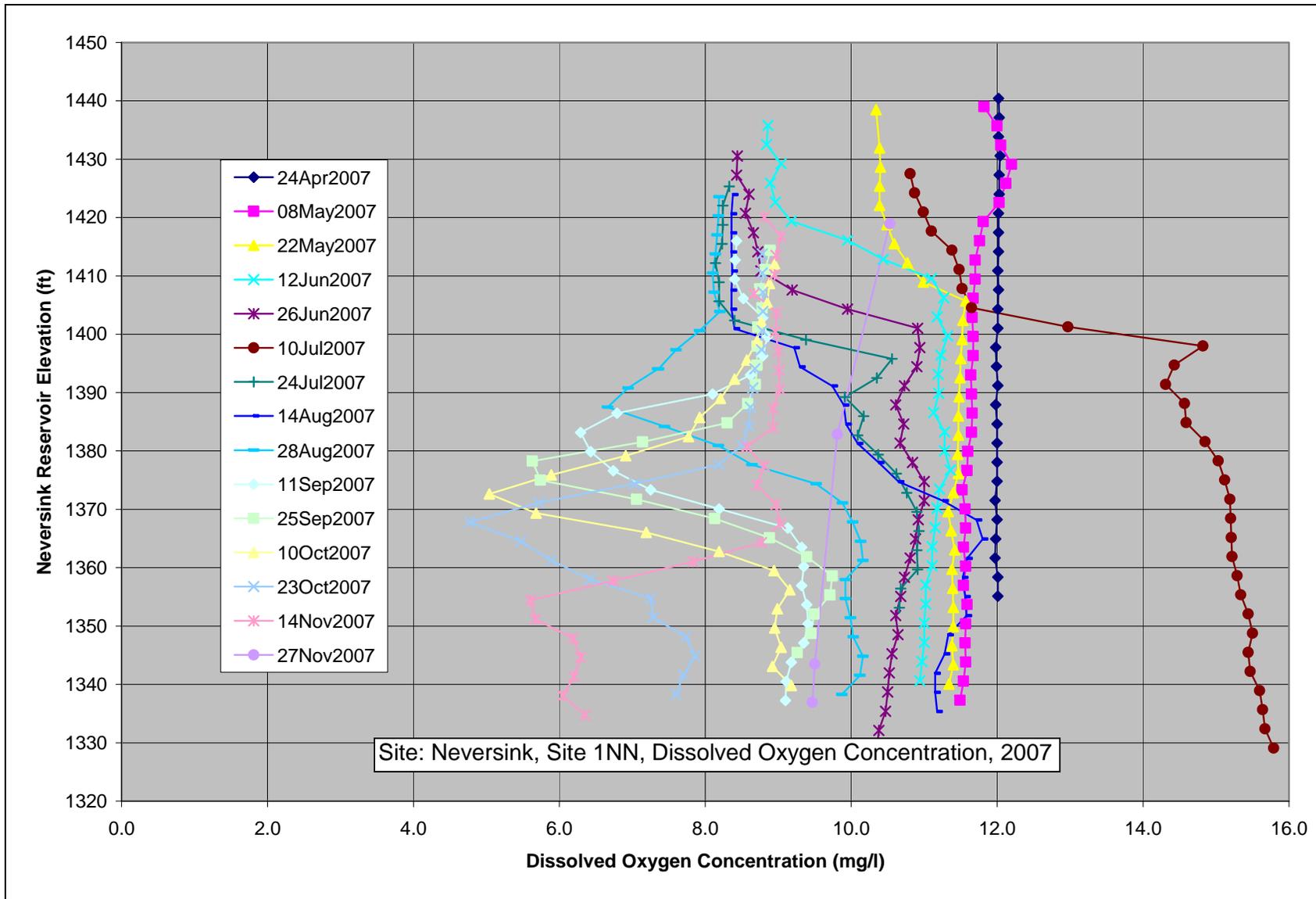


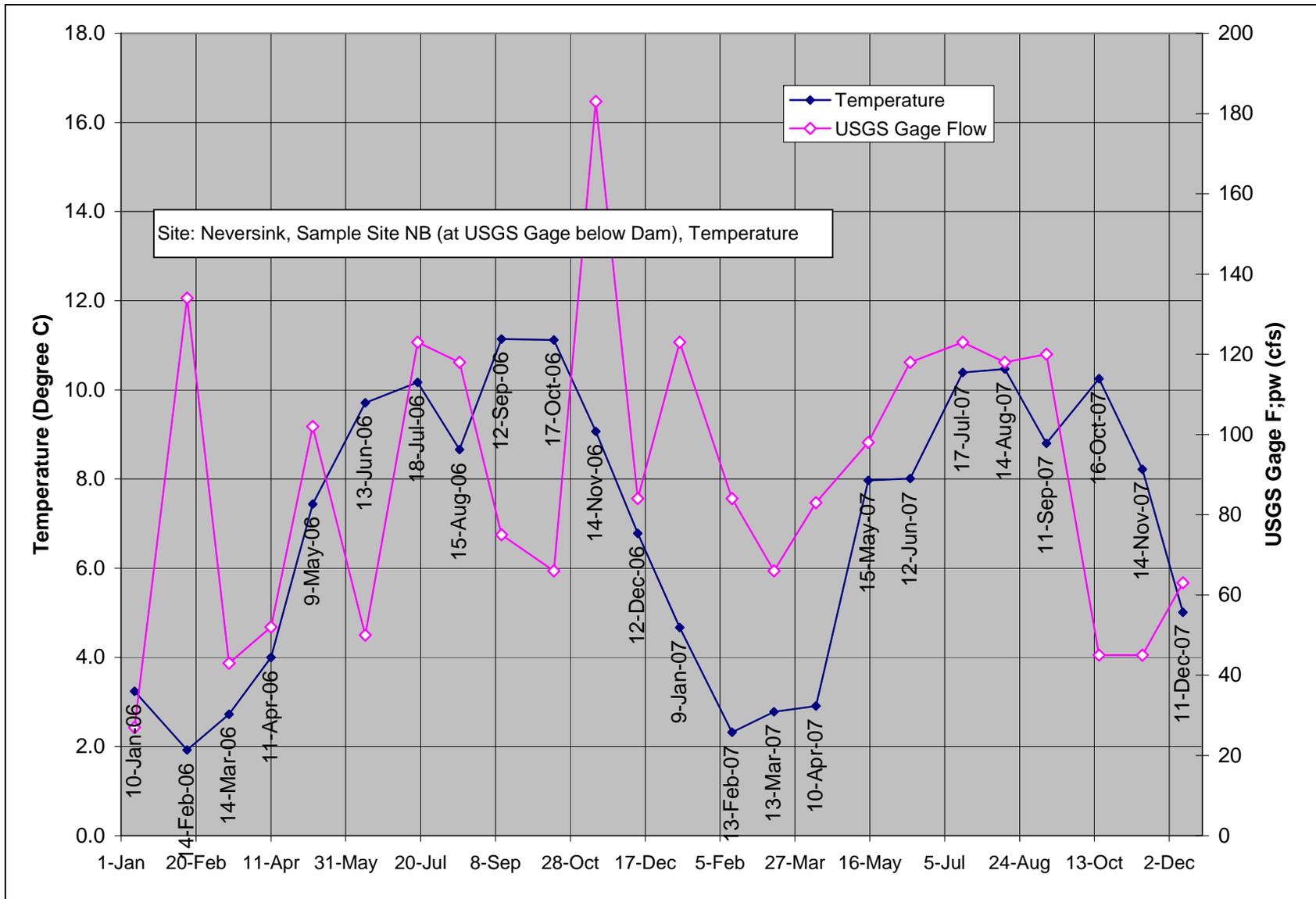
Figure 4.3.4.4-3: Neversink Reservoir, Sample Site 1NN – 2007 Temperature Profiles  
(mid-channel at Neversink intake chamber)



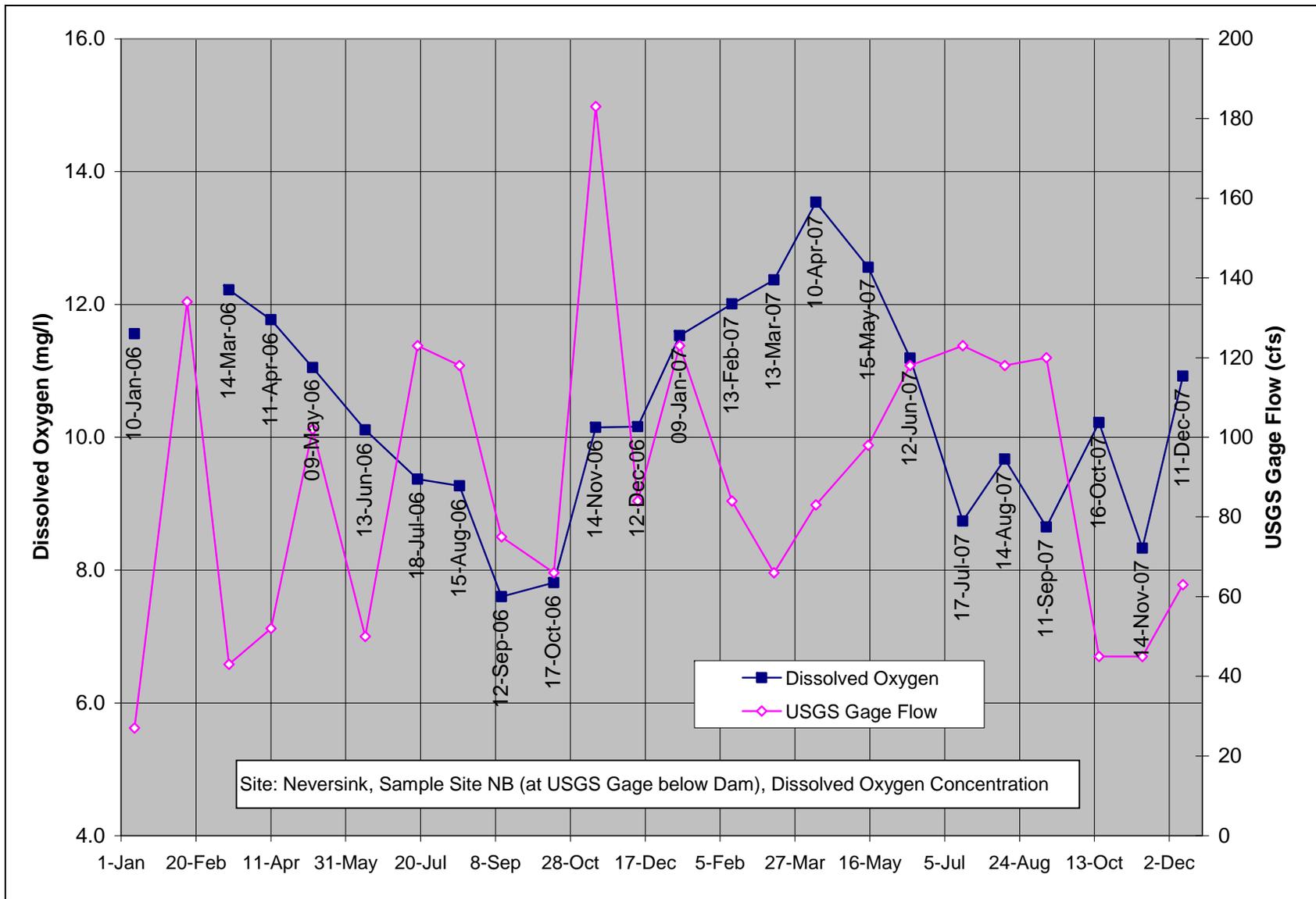
**Figure 4.3.4.4-4: Neversink Reservoir, Sample Site 1NN – 2006 Dissolved Oxygen Profiles**  
 (mid-channel at Neversink intake chamber)



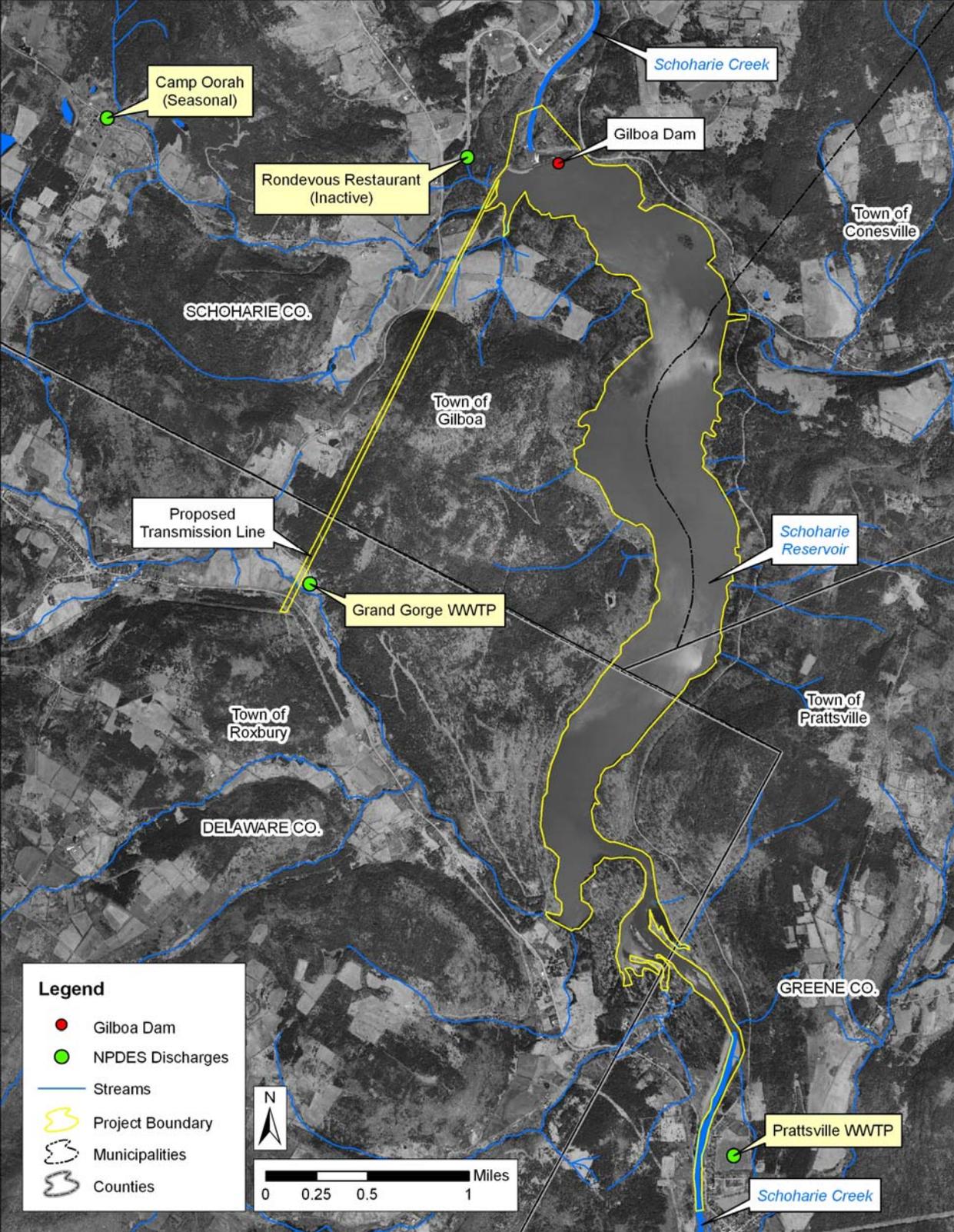
**Figure 4.3.4.4-5: Neversink Reservoir, Sample Site 1NN – 2007 Dissolved Oxygen Profiles**  
(mid-channel at Neversink intake chamber)



**Figure 4.3.4.4-6: Neversink Release, Sample Site NB – 2006 & 2007 Temperature Data**  
(near USGS Gage)



**Figure 4.3.4.4-7: Neversink Release, Sample Site NB – 2006 & 2007 Dissolved Oxygen Data (near USGS Gage)**



**Figure 4.3.5.1-1: NPDES Facilities near the Schoharie Reservoir**

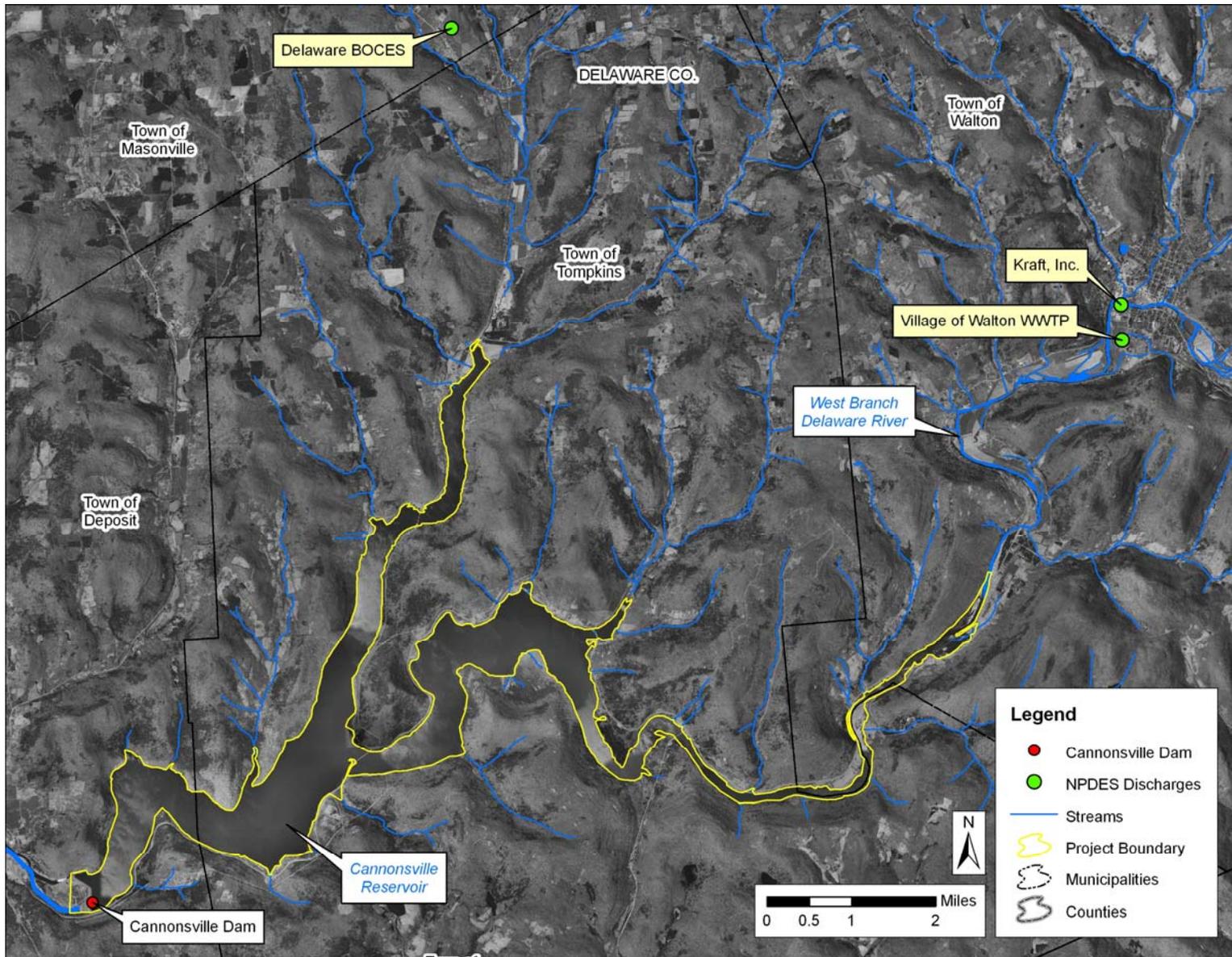
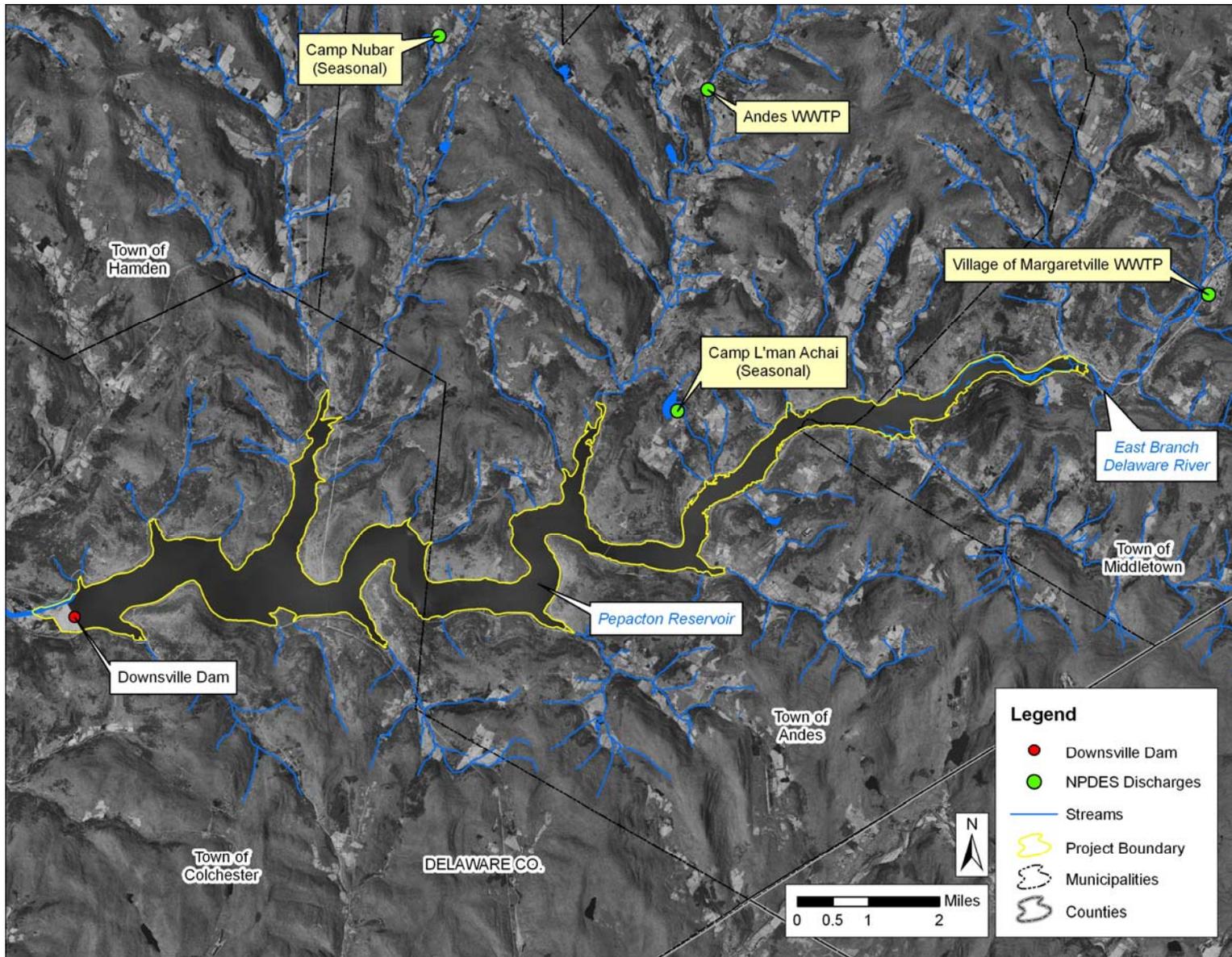


Figure 4.3.5.2-1: NPDES Facilities near the Cannonsville Reservoir



**Figure 4.3.5.3-1: NPDES Facilities near the Pepacton Reservoir**

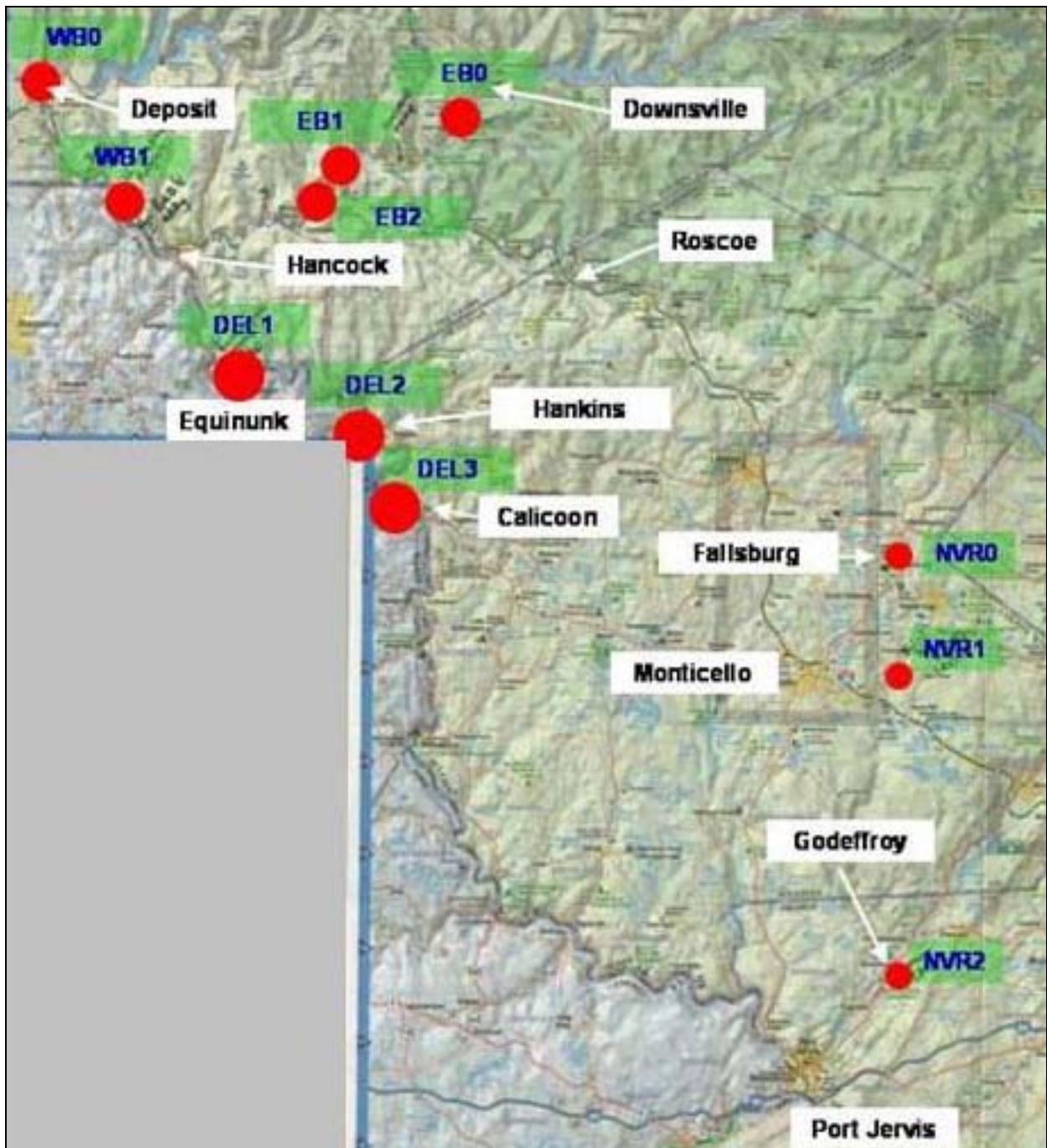
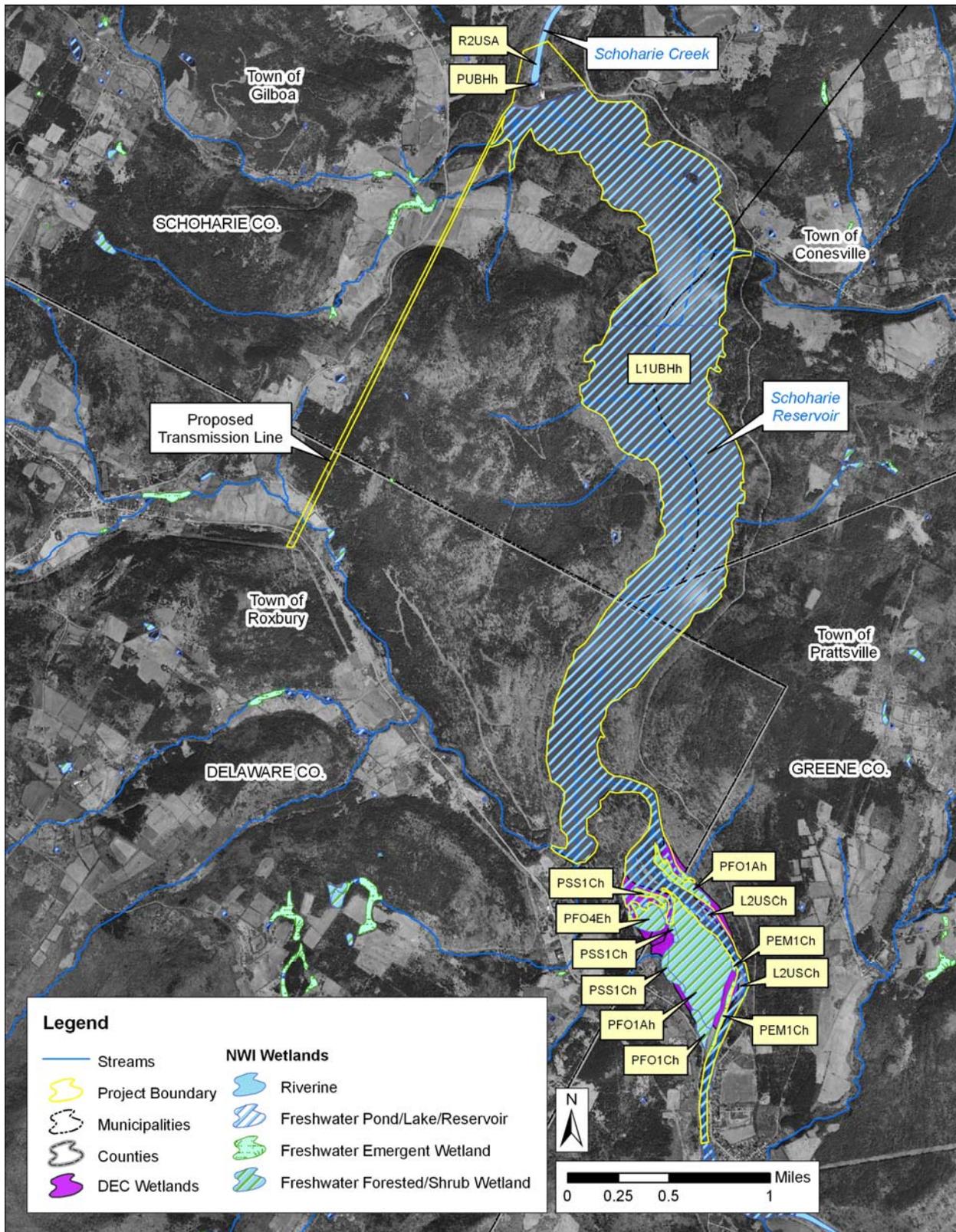
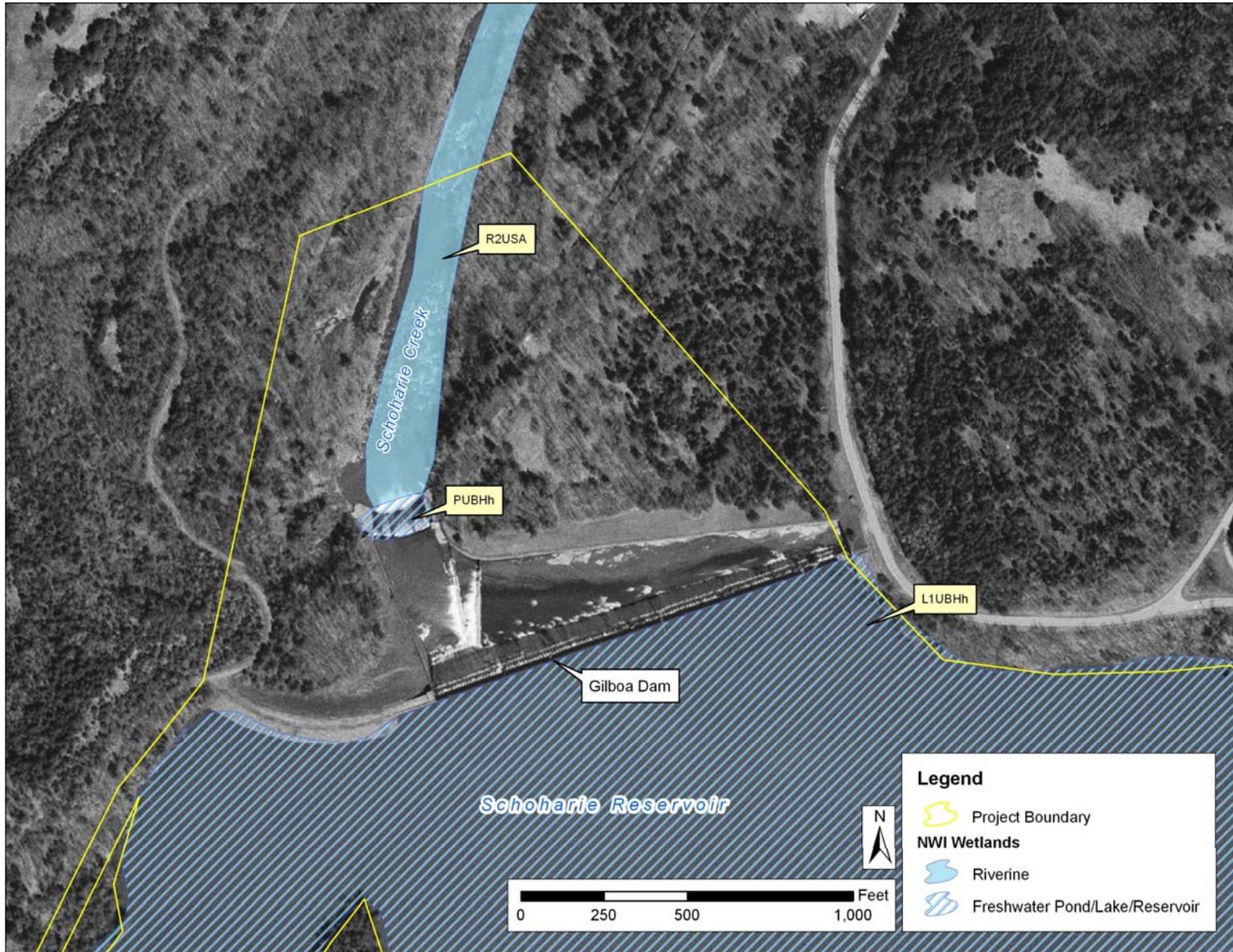


Figure 4.4.4-1: Segmentation and Study Site Locations in the Upper Delaware Basin (USGS 2007)



**Figure 4.6.1-1: NWI & NYSDEC Wetlands near the Schoharie Reservoir**



**Figure 4.6.1-2: NWI Wetlands near Gilboa Dam (Schoharie Development)**

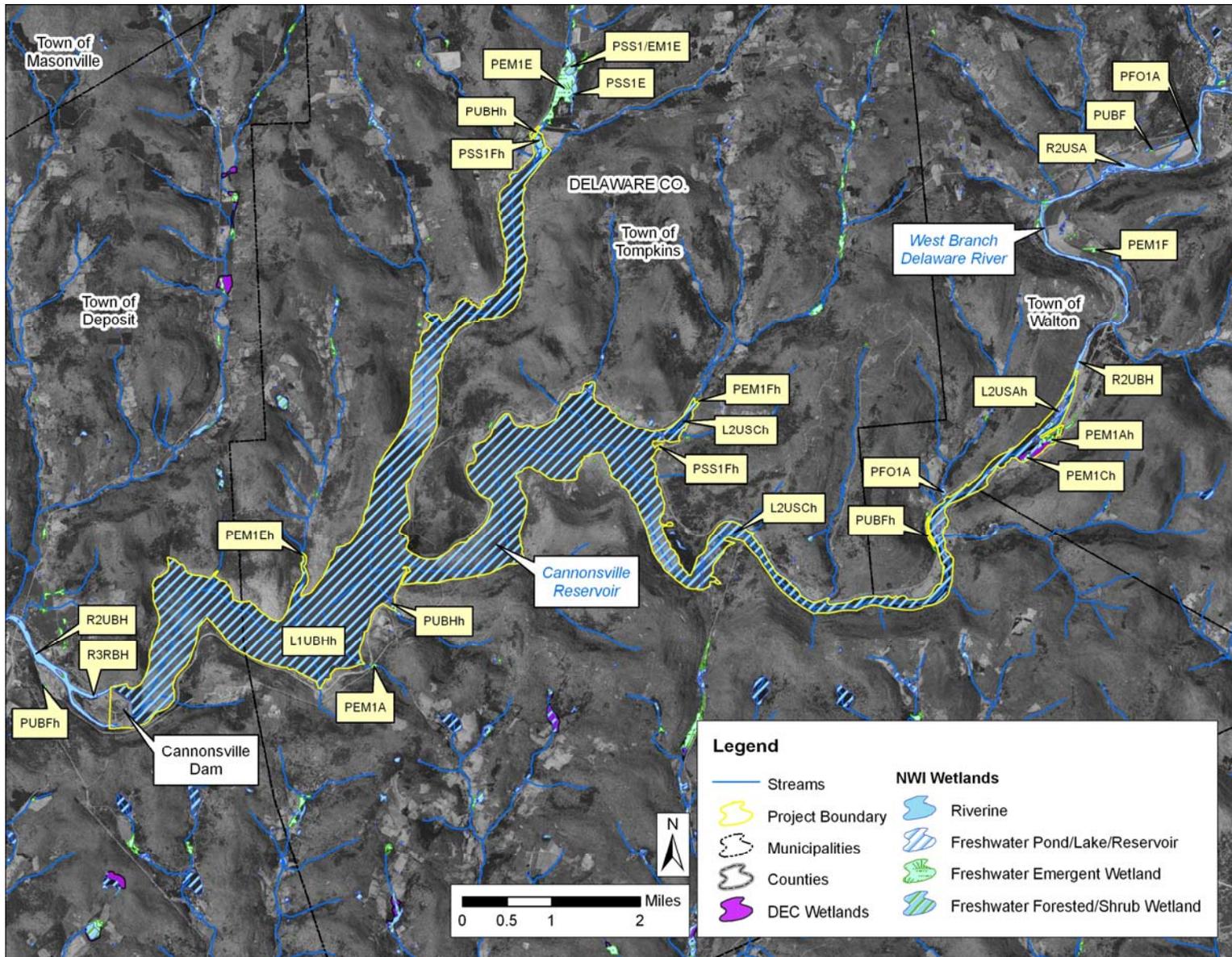
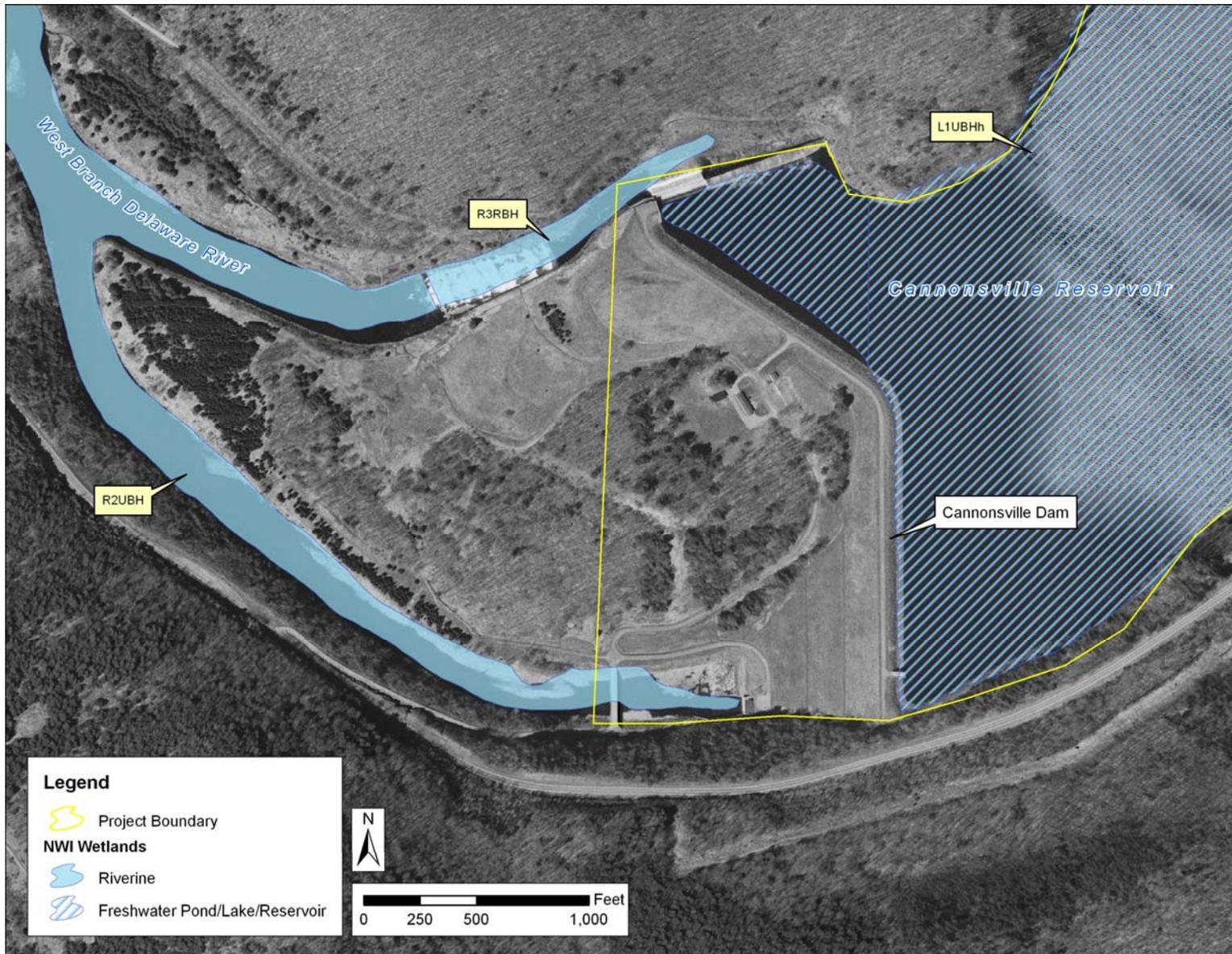


Figure 4.6.2-1: NWI & NYSDEC Wetlands near the Cannonsville Reservoir



**Figure 4.6.2-2: NWI Wetlands near Cannonsville Dam**

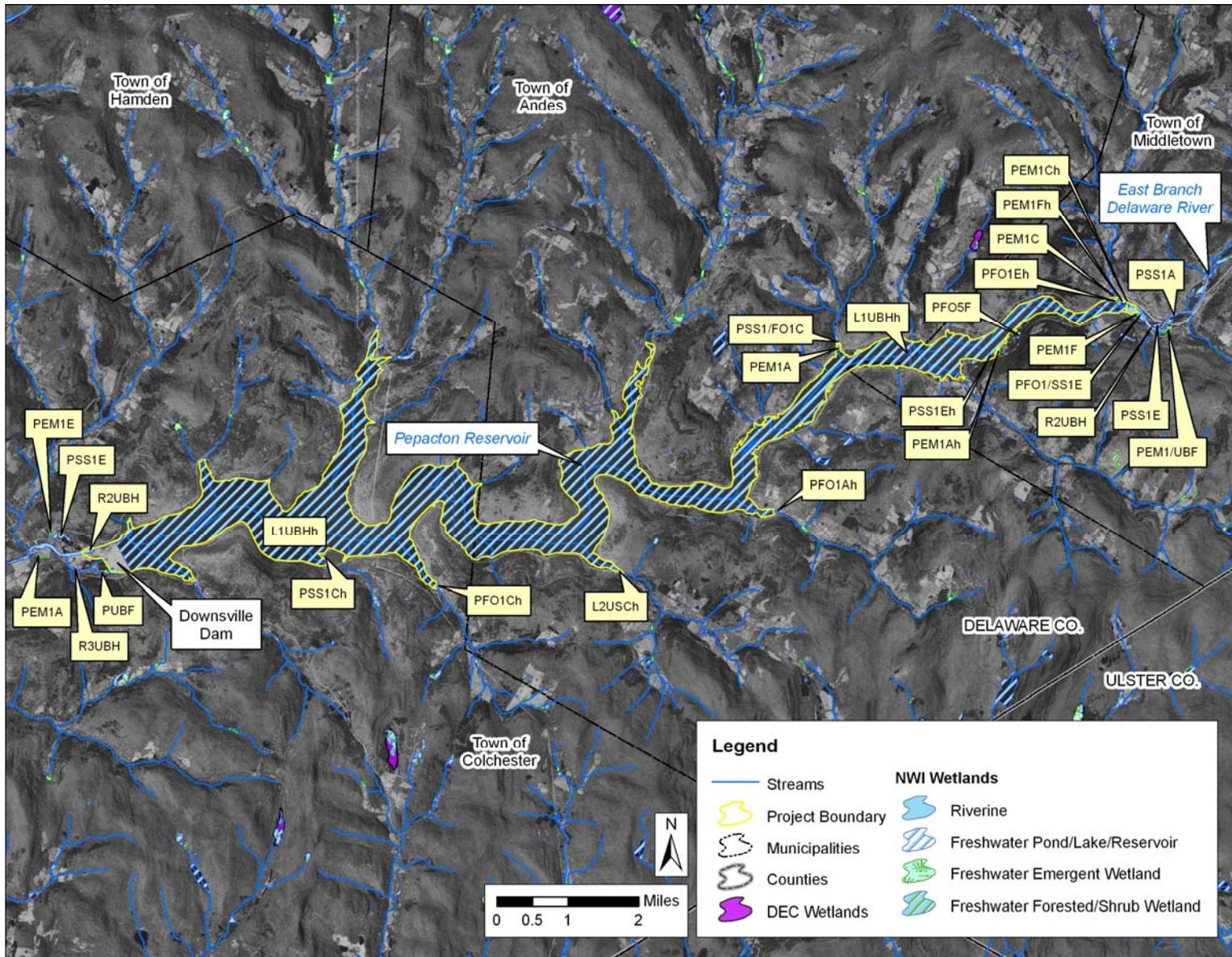
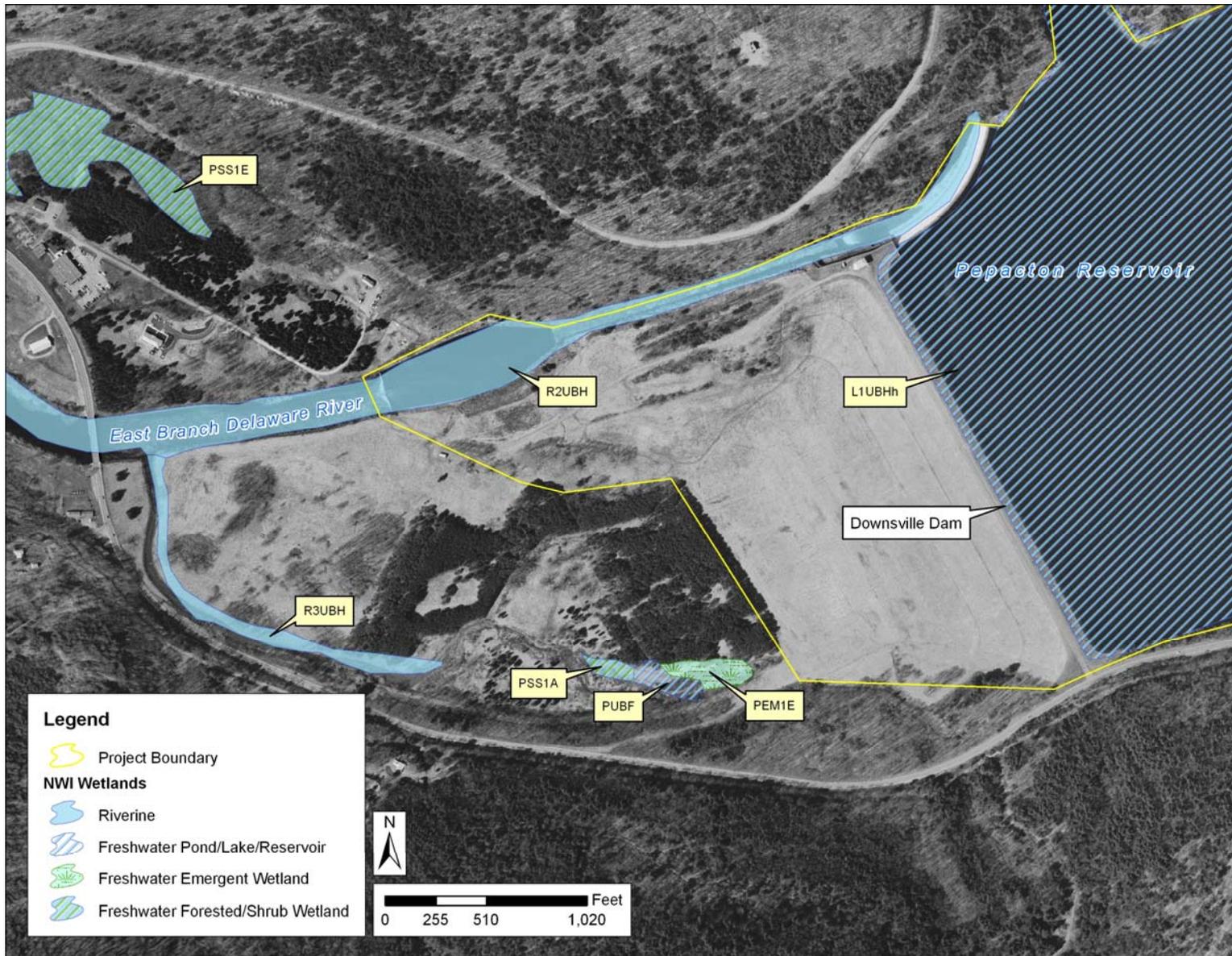
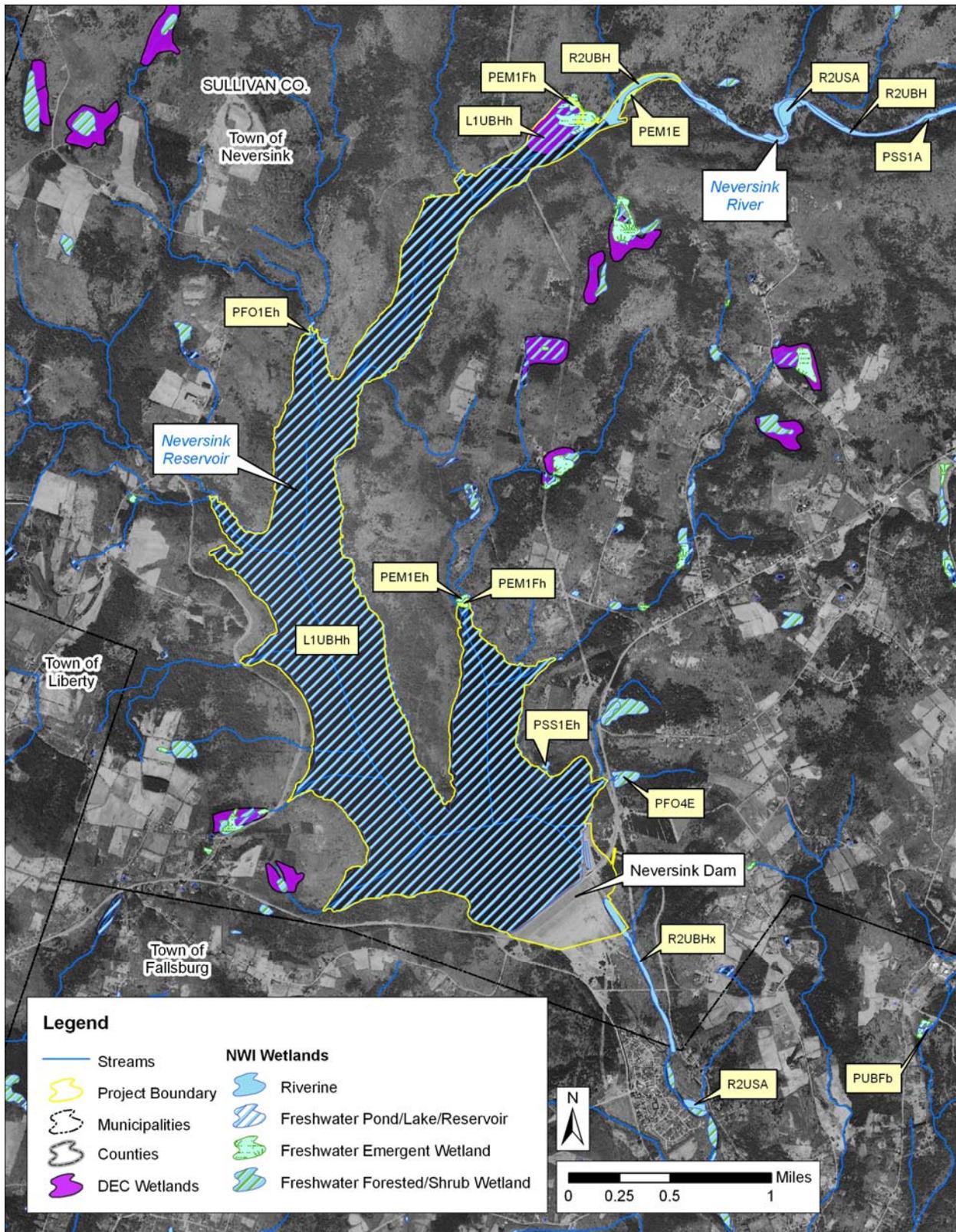


Figure 4.6.3-1: NWI & NYSDEC Wetlands near the Pepacton Reservoir



**Figure 4.6.3-2: NWI Wetlands near Downsville Dam (Pepacton Development)**



**Figure 4.6.4-1: NWI & NYSDEC Wetlands near the Neversink Reservoir**

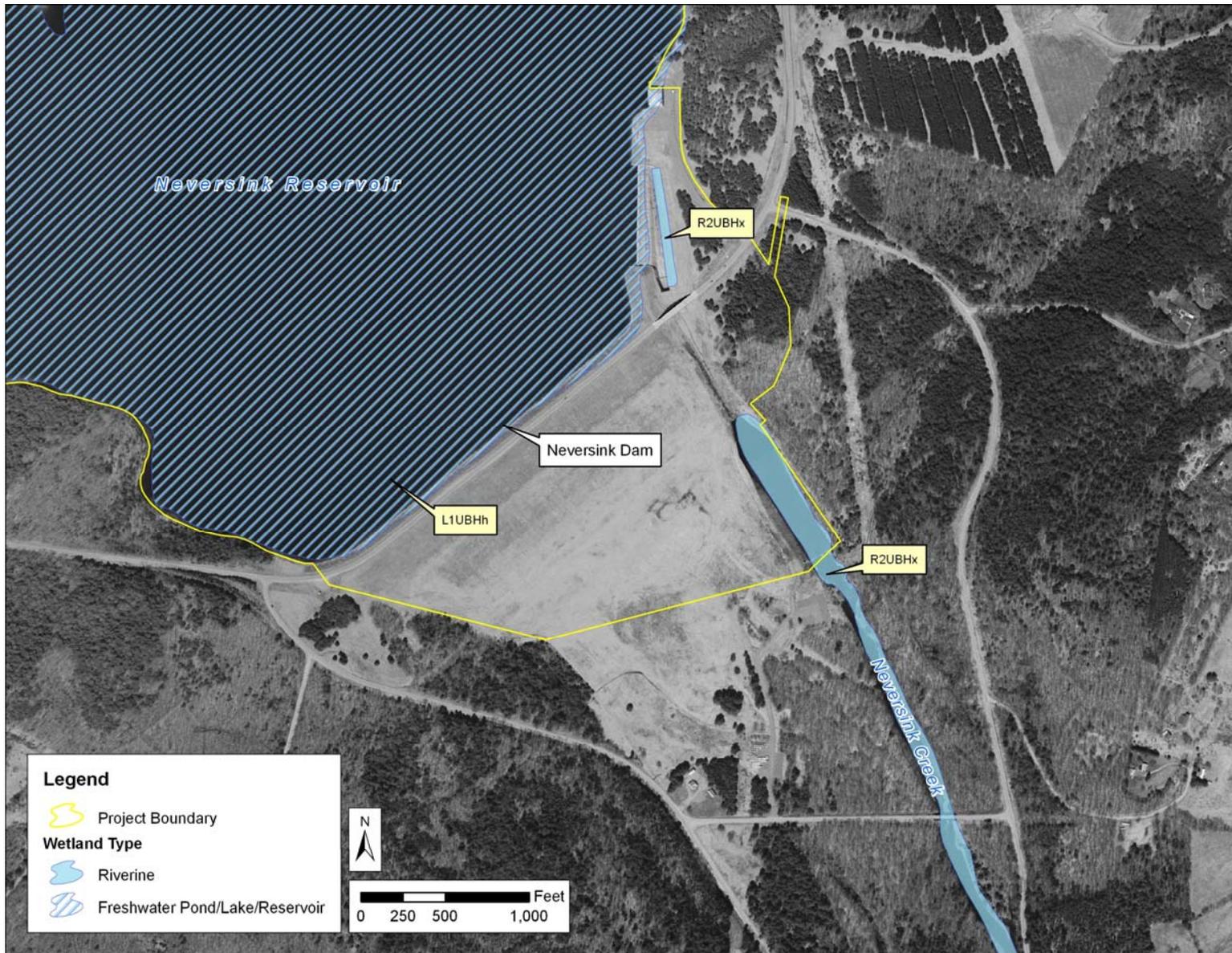
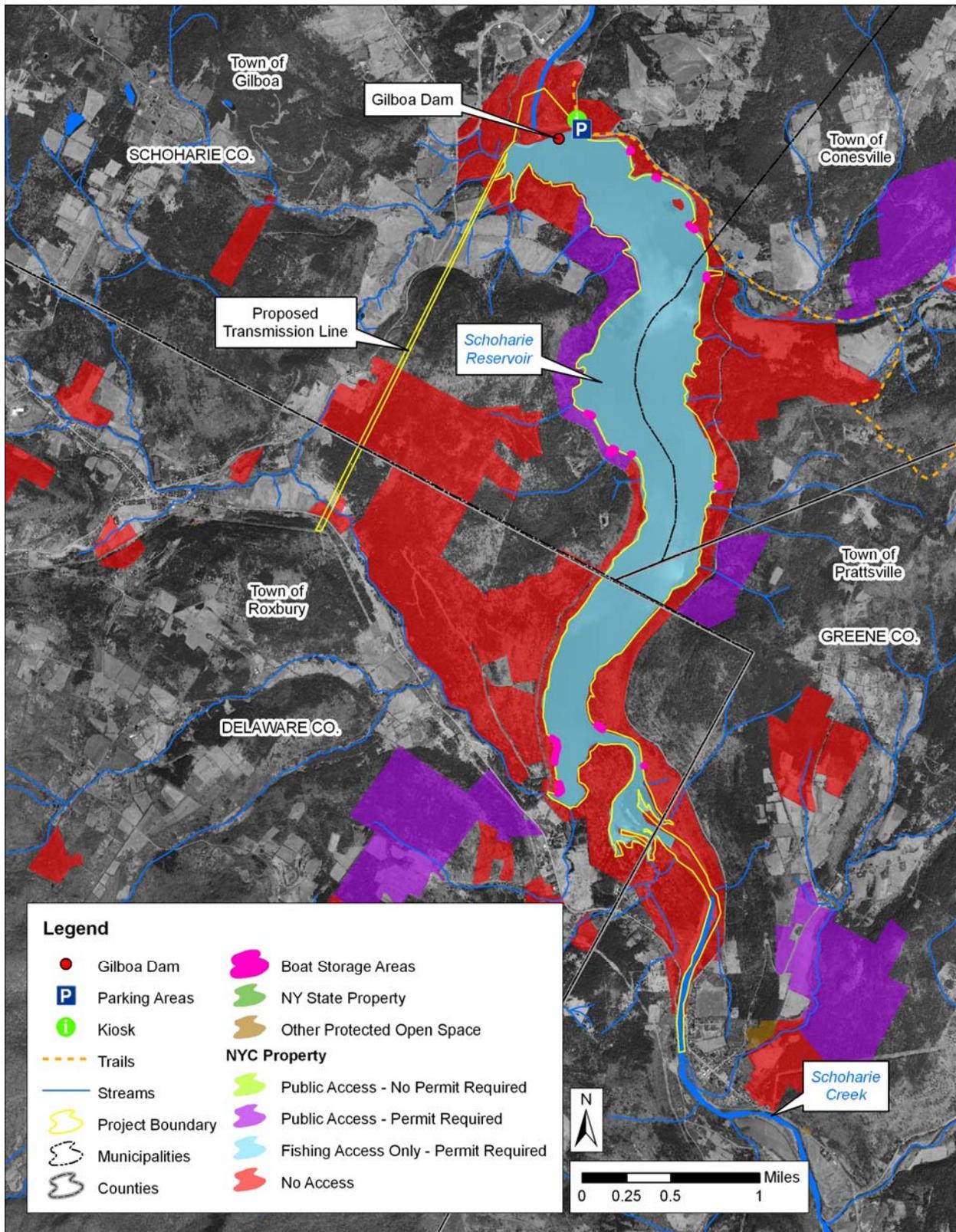


Figure 4.6.4-2: NWI Wetlands near Neversink Dam



**Figure 4.8.1.1-1: Recreation Access near the Schoharie Reservoir**

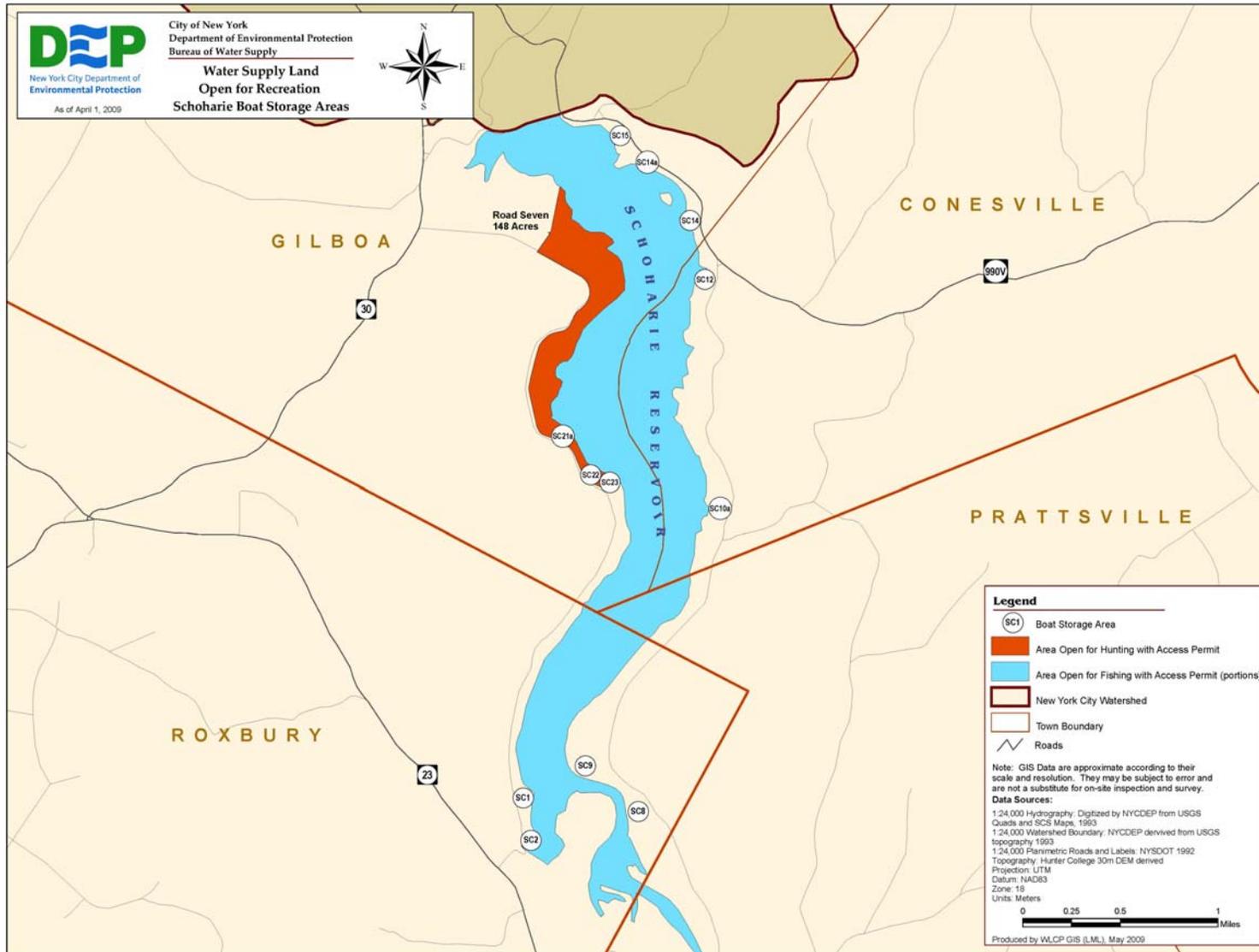


Figure 4.8.1.1-2: Schoharie Reservoir- Areas Open for Hunting and Fishing with Access Permit

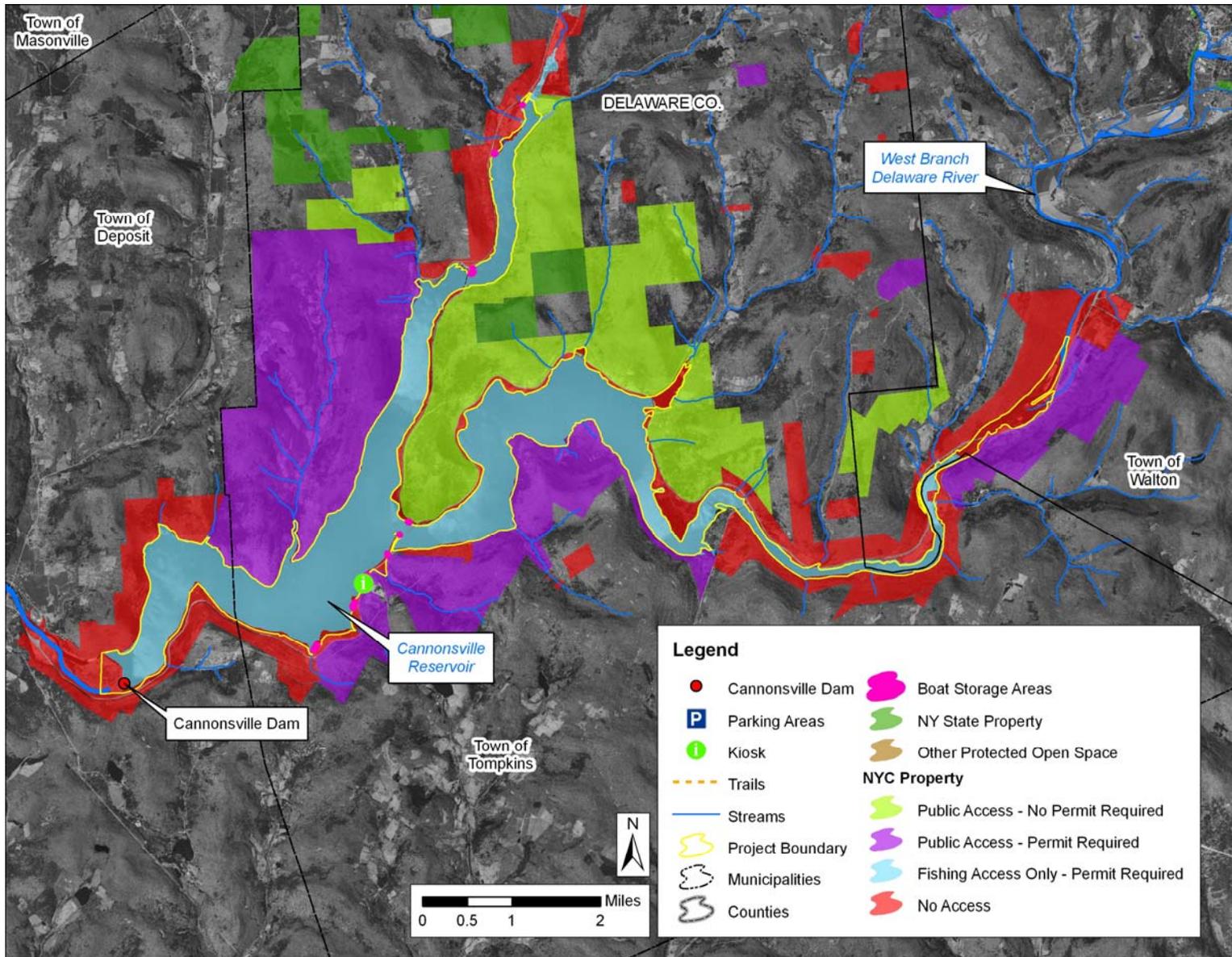
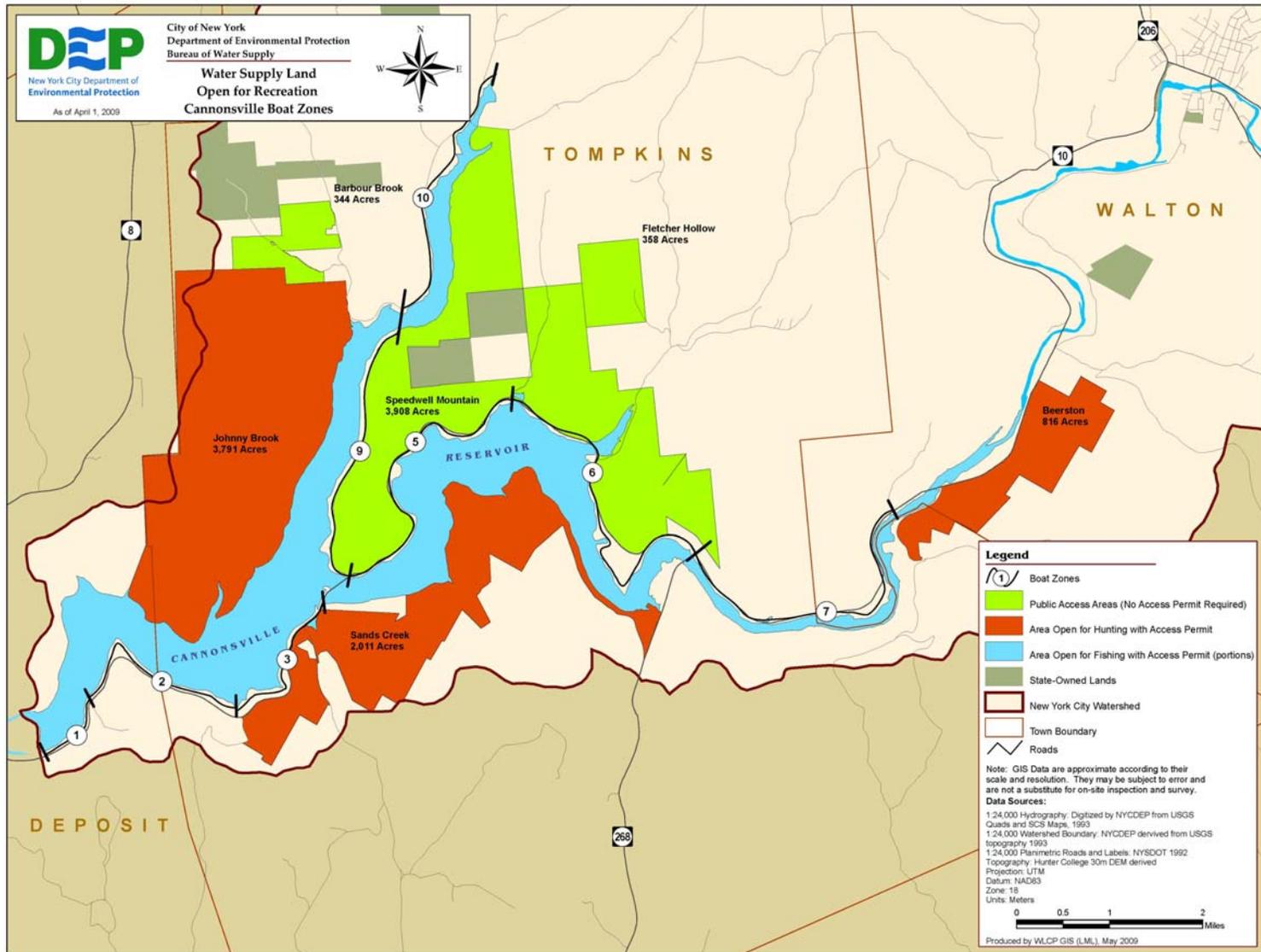


Figure 4.8.1.2-1: Recreation Access near the Cannonsville Reservoir



**Figure 4.8.1.2-2: Cannonsville Reservoir- Areas Open for Hunting and Fishing with Access Permit**

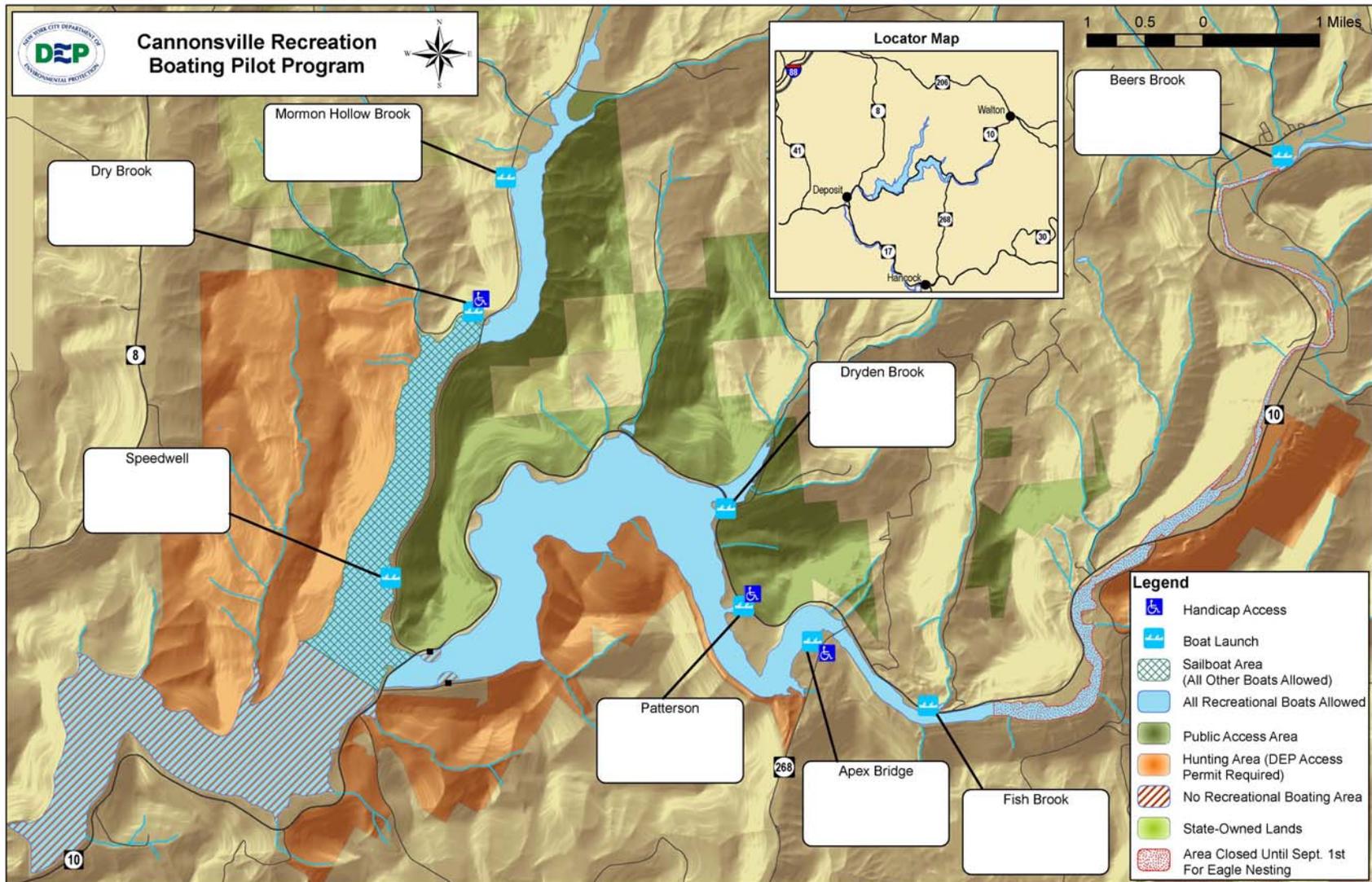


Figure 4.8.1.3-2: Cannonsville Reservoir- Boating Pilot Program

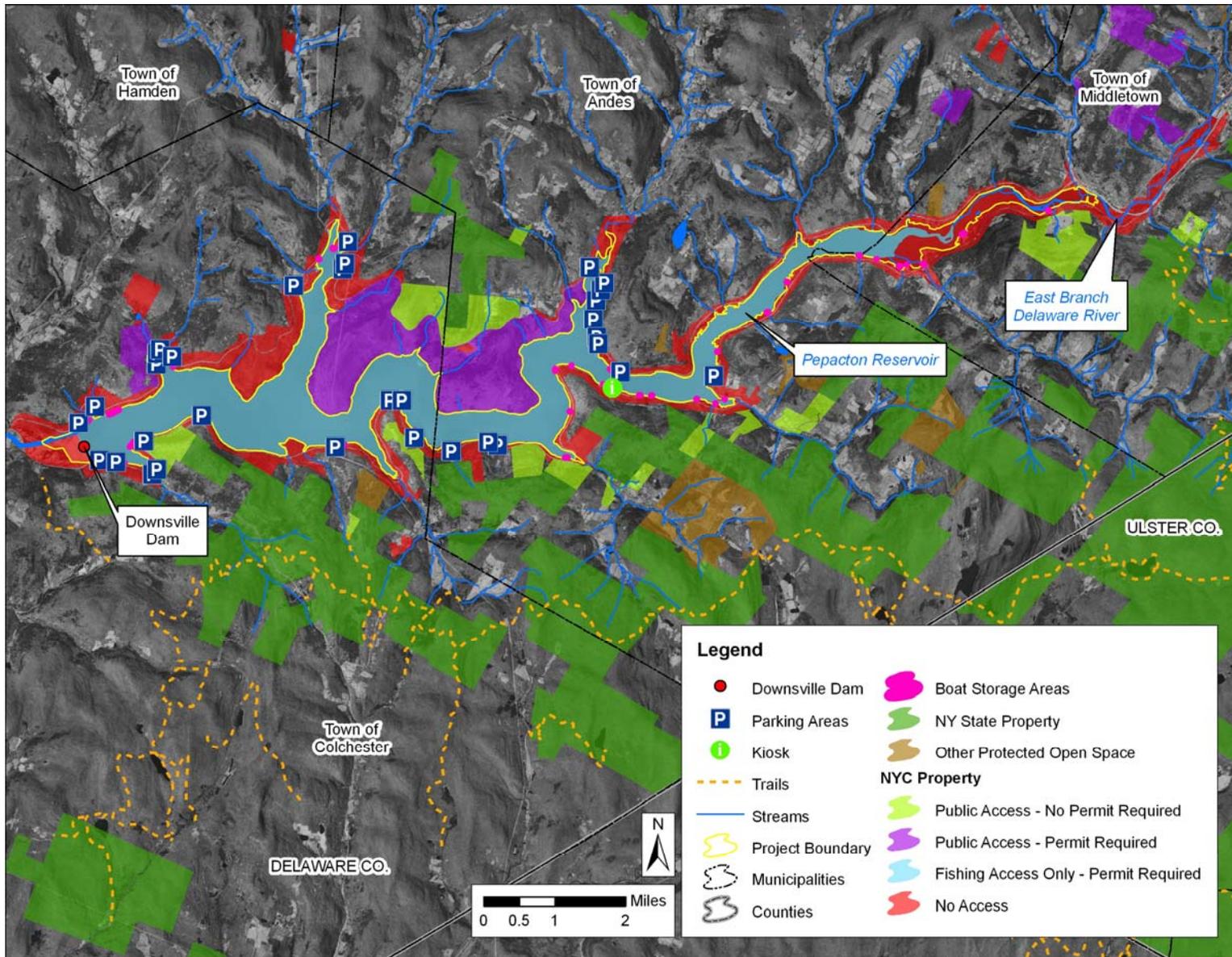


Figure 4.8.1.3-1: Recreation Access near the Pepacton Reservoir

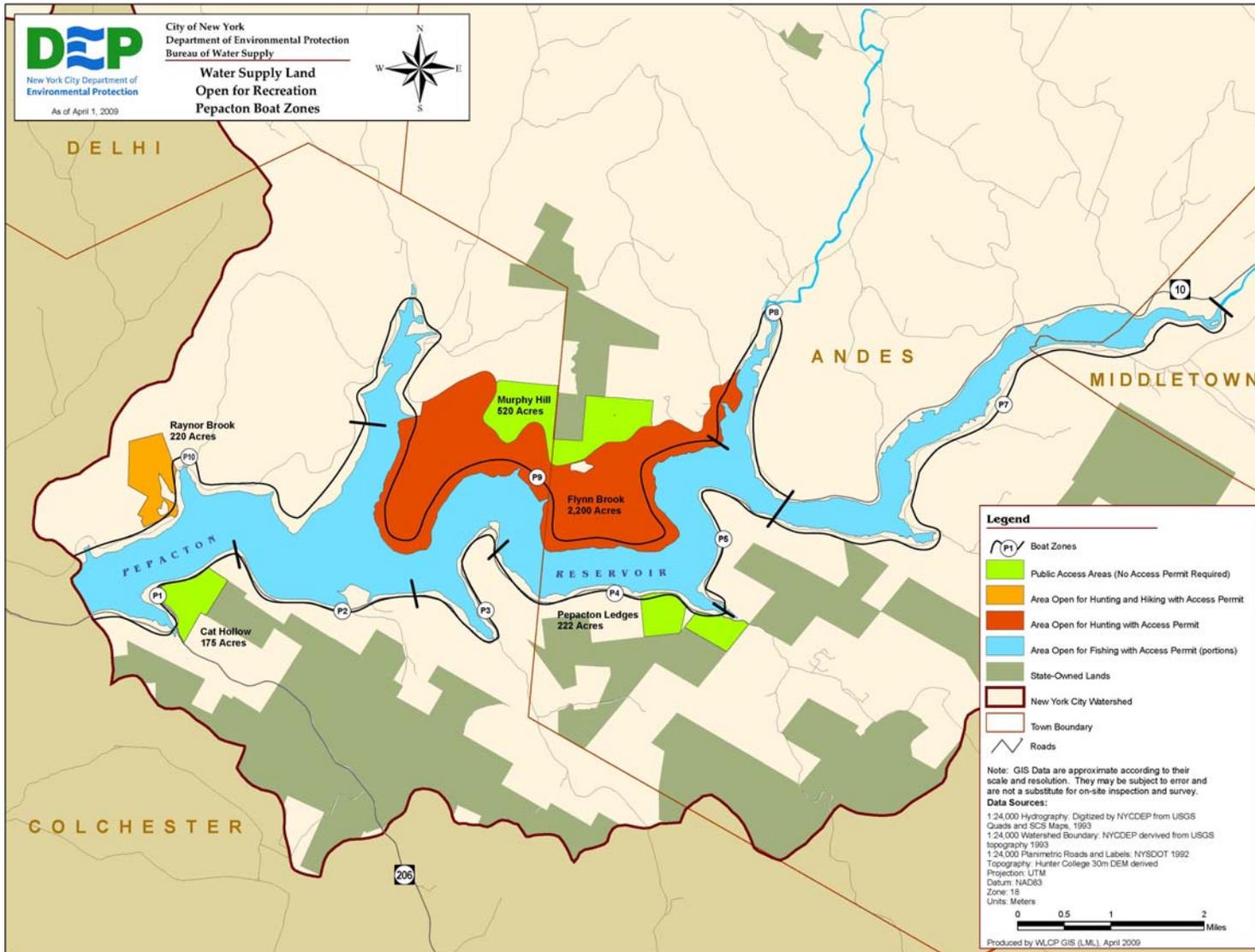
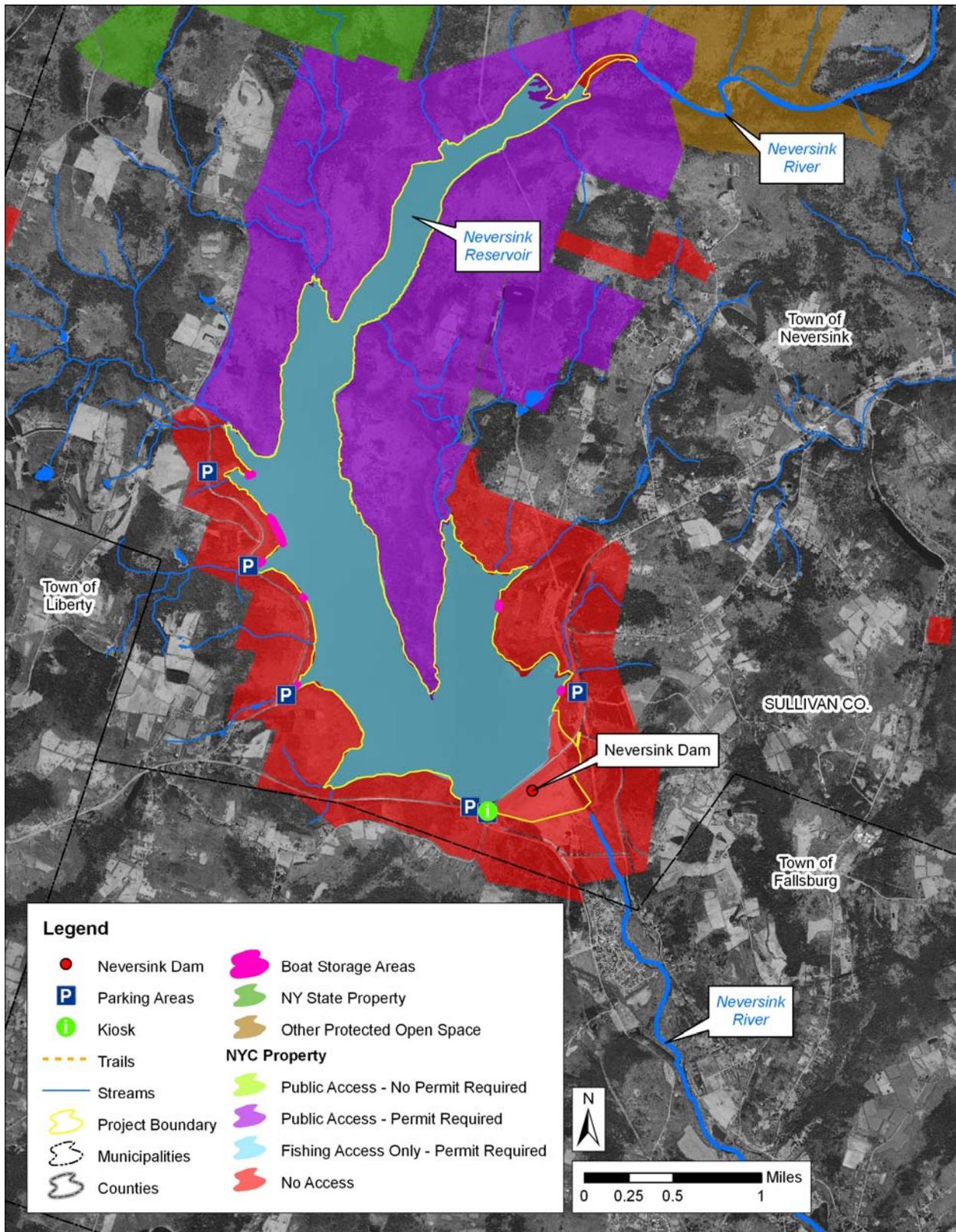


Figure 4.8.1.3-2: Pepacton Reservoir- Areas Open for Hunting and Fishing with Access Permit



**Figure 4.8.1.4-1: Recreation Access near the Neversink Reservoir**

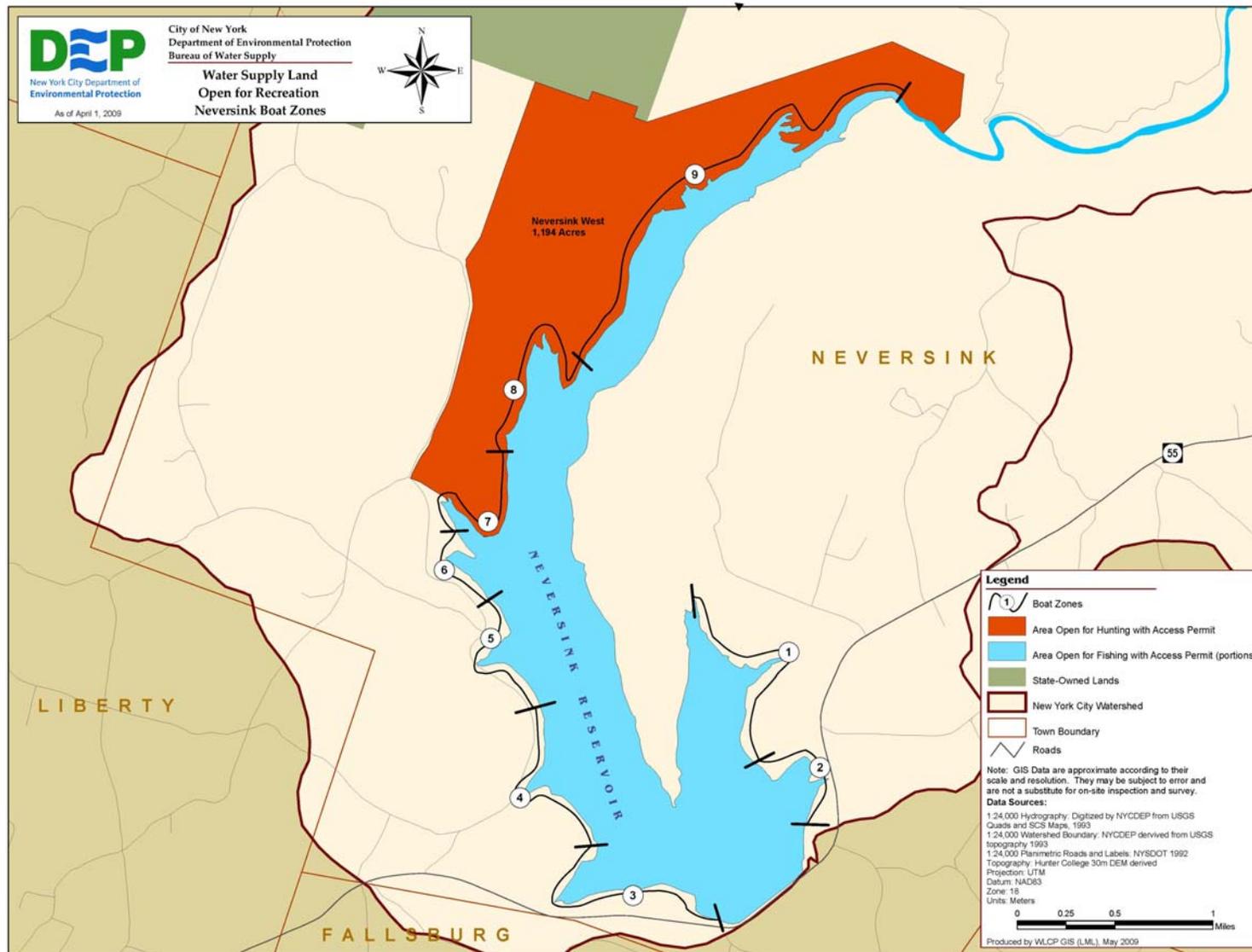


Figure 4.8.1.4-2: Neversink Reservoir- Areas Open for Hunting and Fishing with Access Permit