

Figure 1.1-1

Wadesville Mine Pool Withdrawal Project Area

0 3 6 12 18 24 Miles



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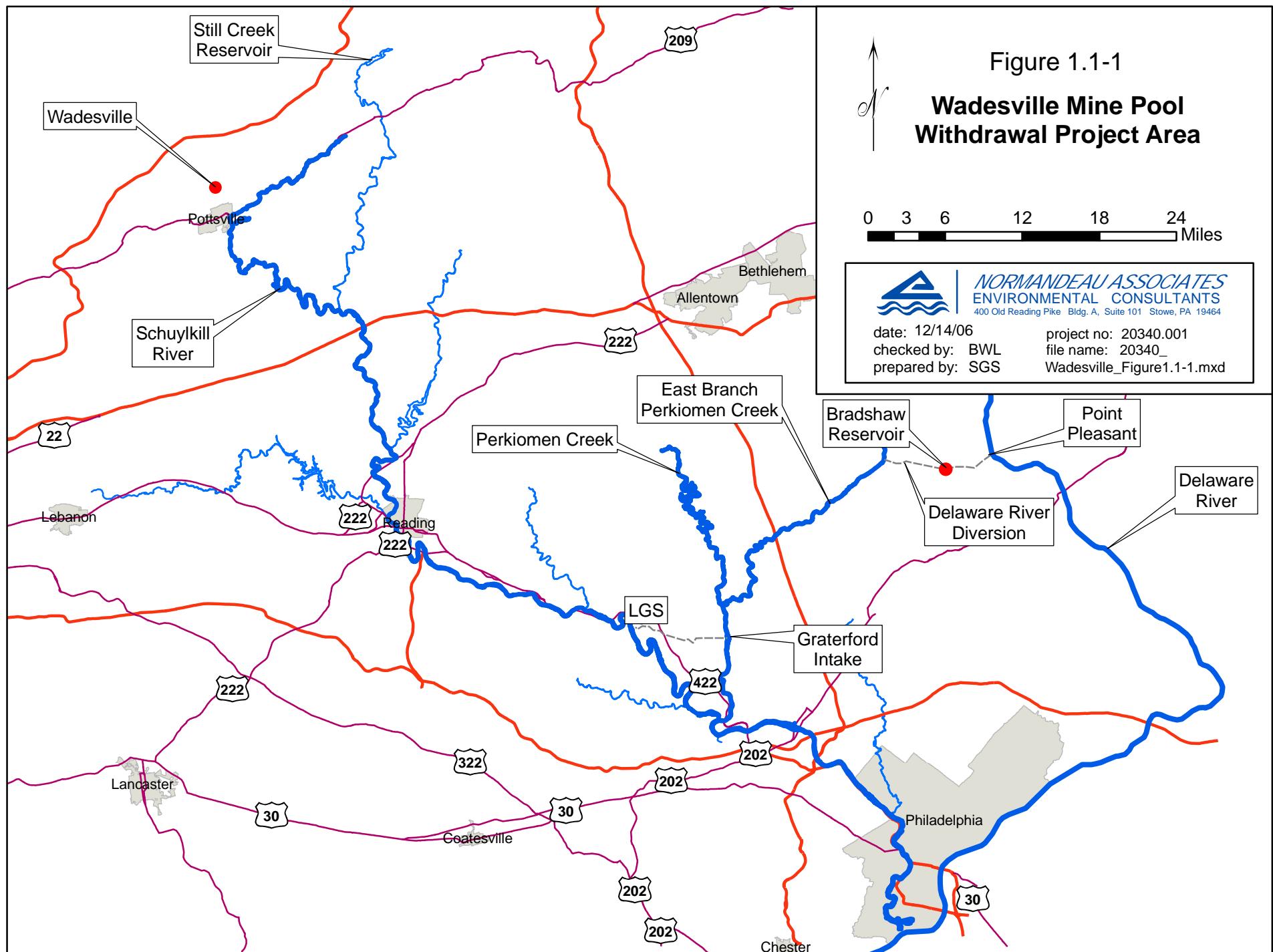
date: 12/14/06

checked by: BWL

prepared by: SGS

project no: 20340.001

file name: 20340_
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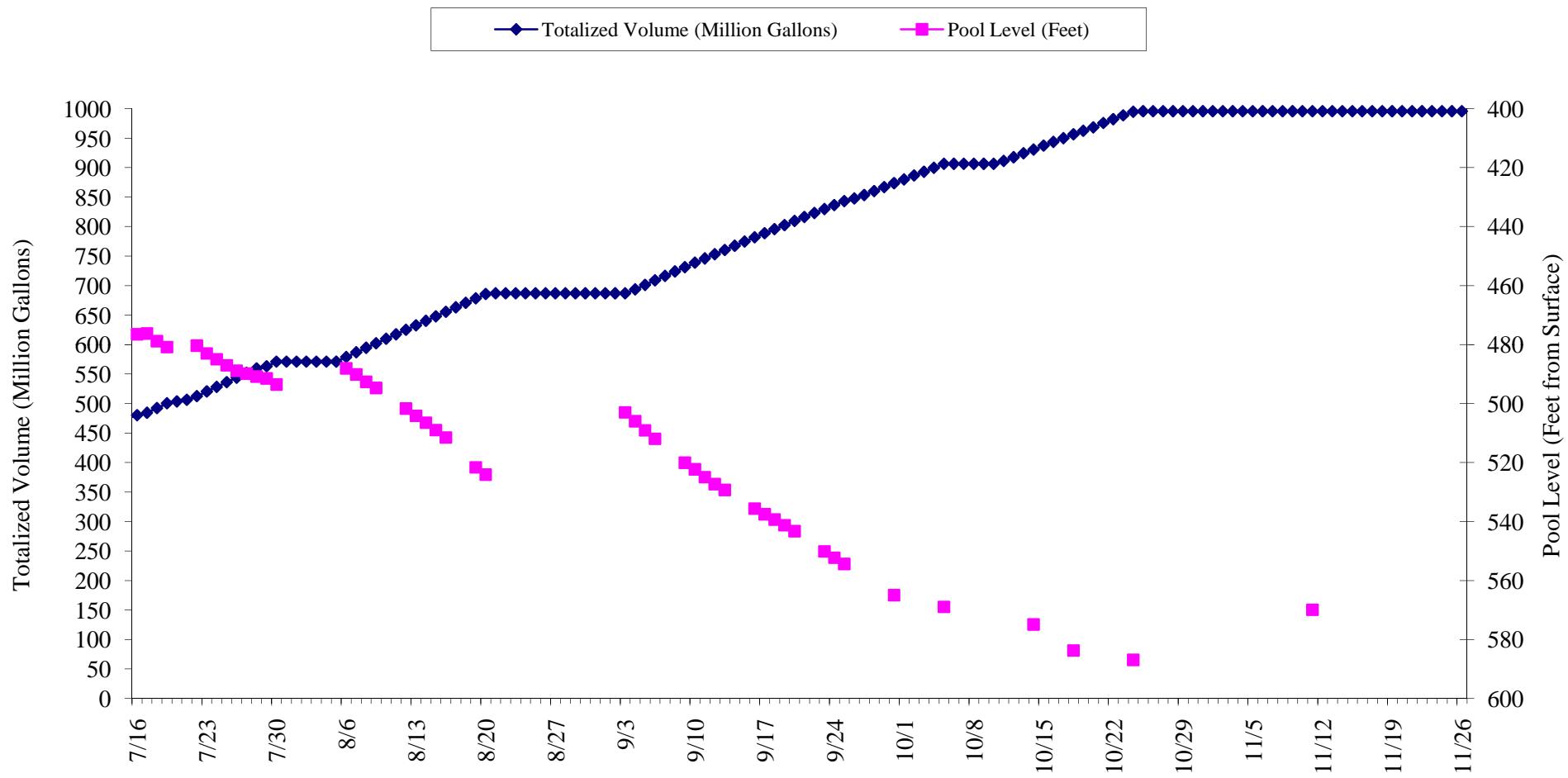


Figure 4.1-1. Totalized daily volume of water pumped and water level of the Wadesville Mine Pool, July-November 2007.

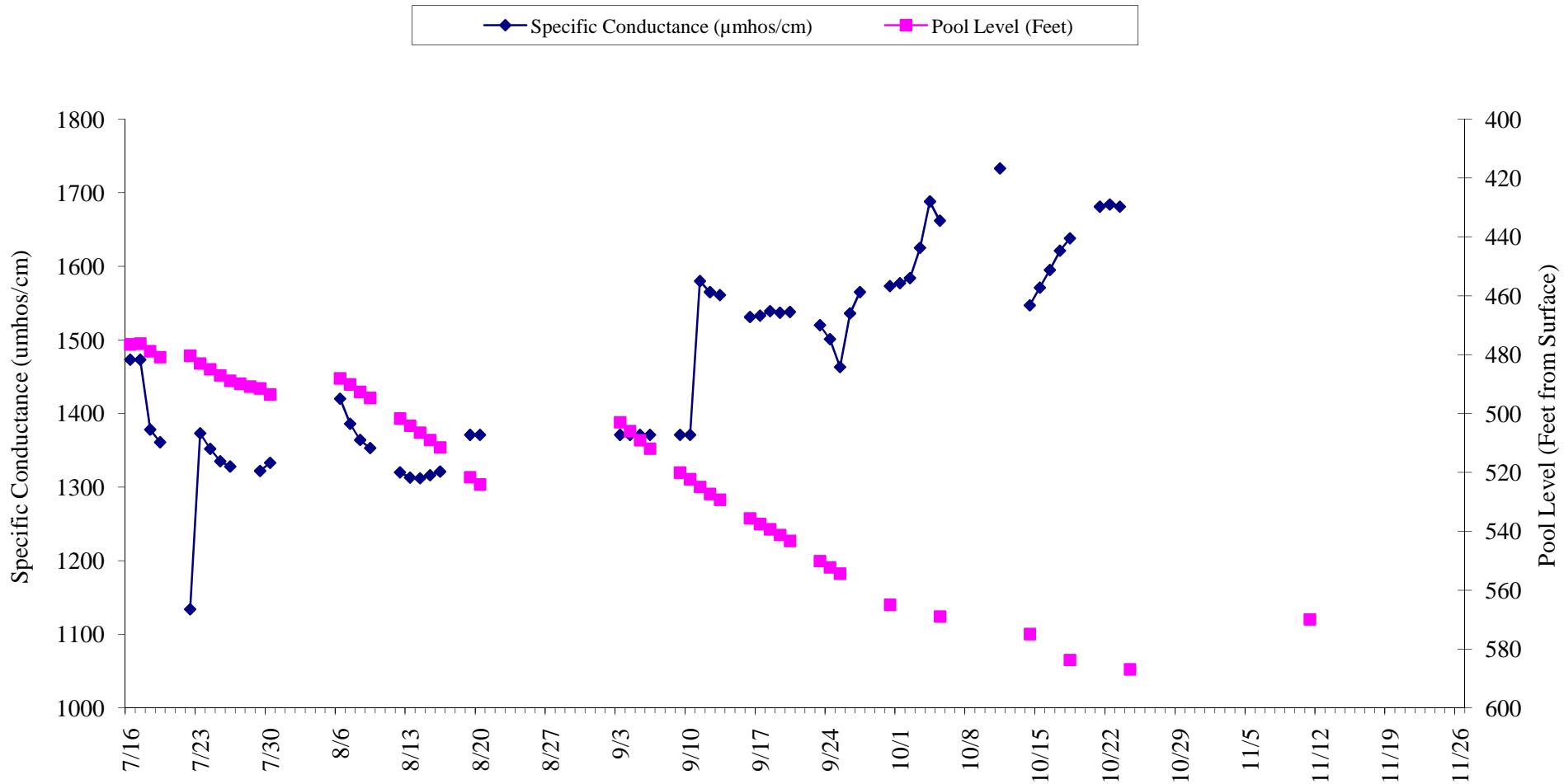


Figure 4.1-2. Specific conductance and water level of the Wadesville Mine Pool, July-November 2007¹.

¹ July 2 through July 26 release suspended, no data taken

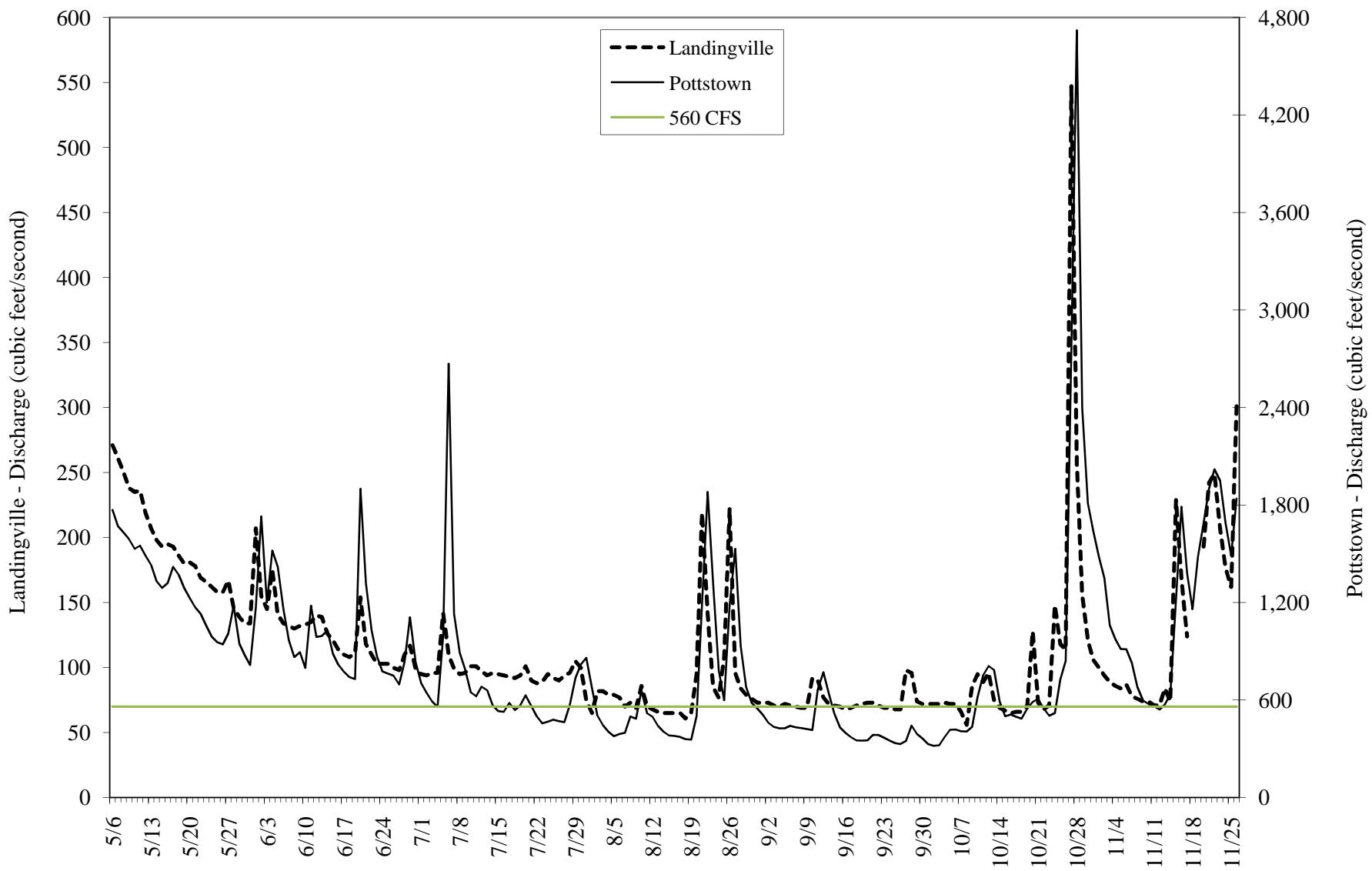
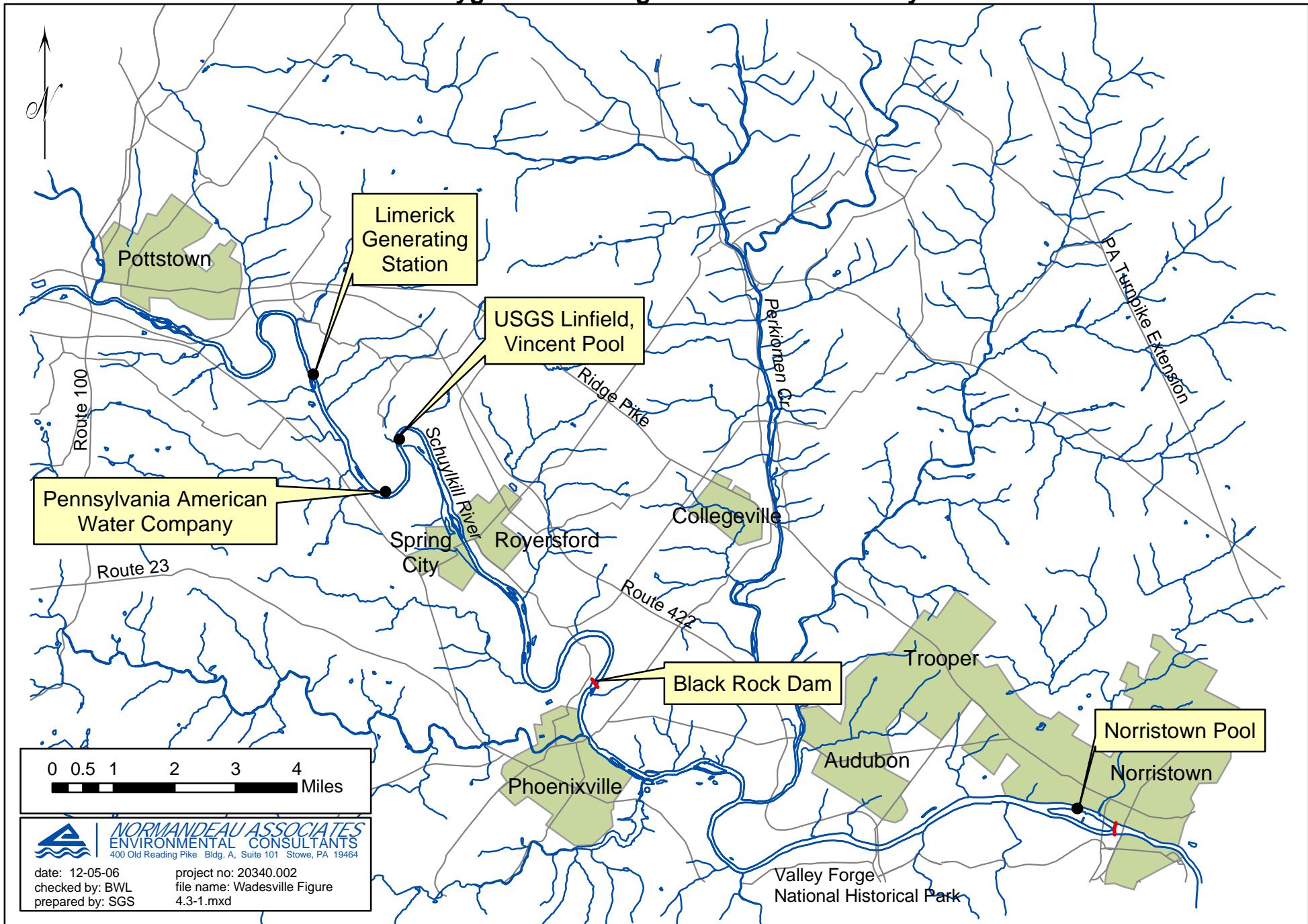


Figure 4.2-1. Daily mean discharge measured in the Schuylkill River at Landingville and Pottstown, May-November 2007.

Figure 4.3-1.
Dissolved Oxygen Monitoring Stations on the Schuylkill River.



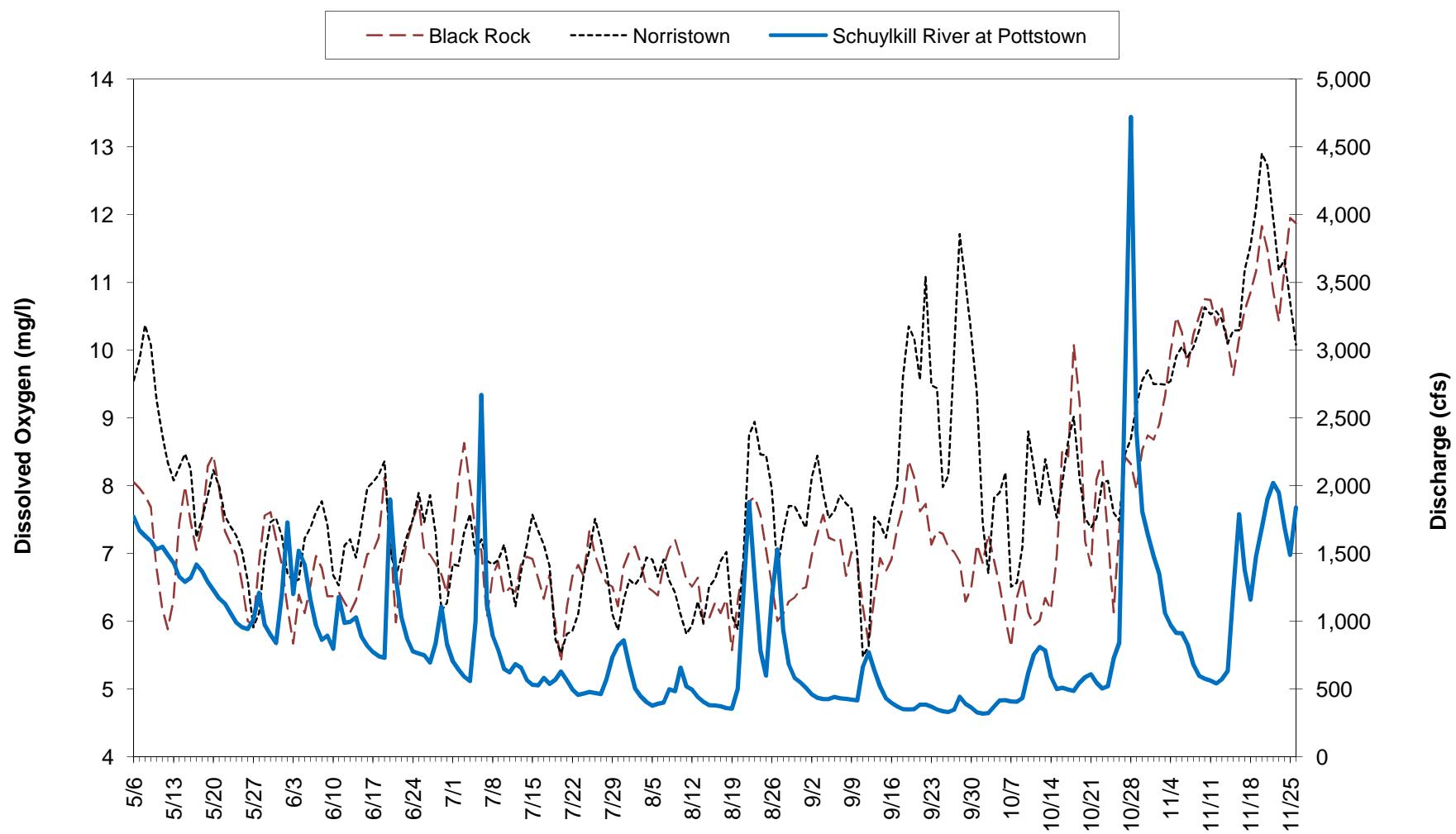


Figure 4.3-2. Mean daily dissolved oxygen measured in the Schuylkill River at Black Rock and Norristown stations and mean daily discharge measured at Pottstown, May-November 2007.

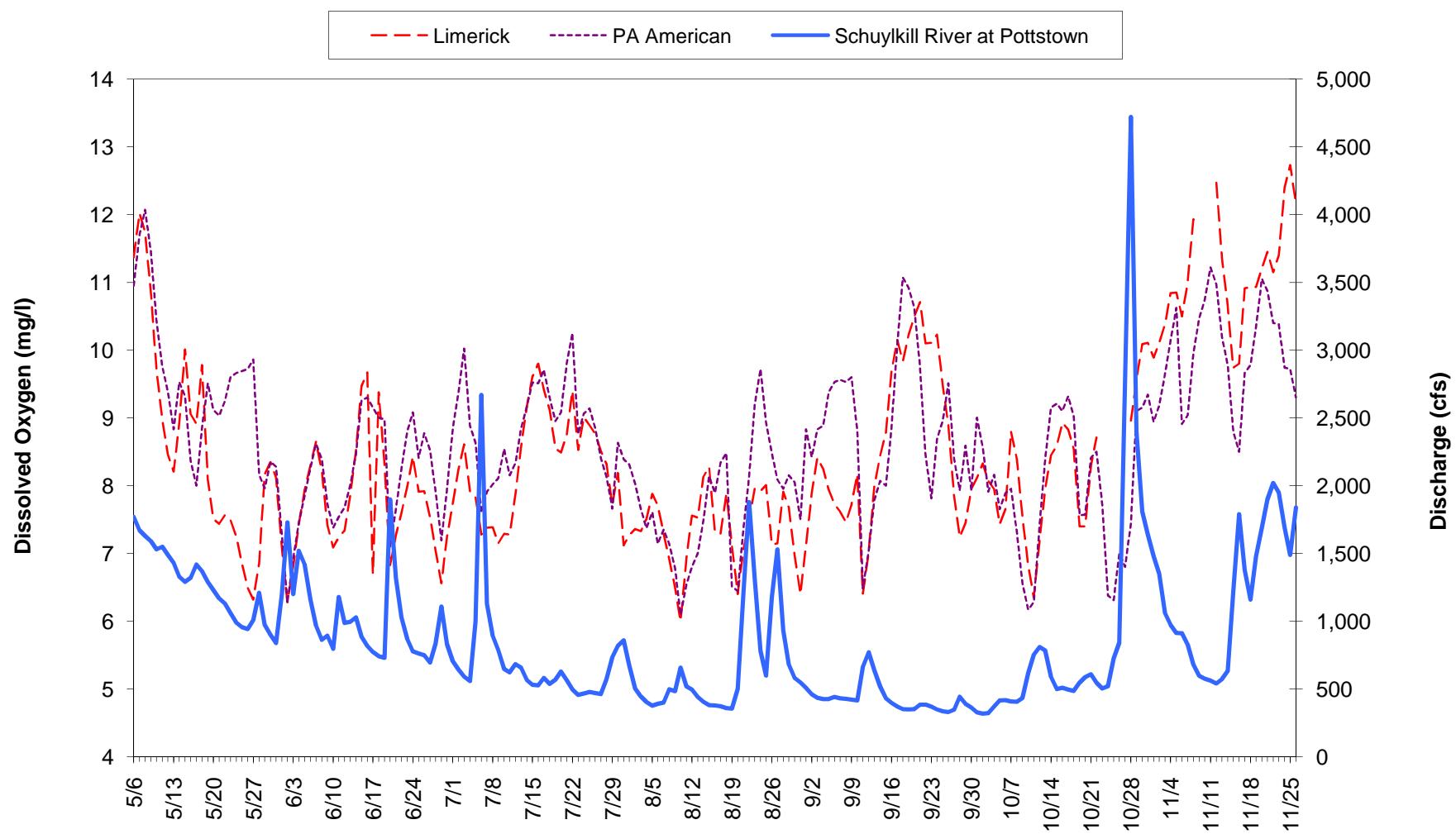


Figure 4.3-3. Mean daily dissolved oxygen measured in the Schuylkill River at Limerick and Pennsylvania American stations and mean daily discharge measured at Pottstown, May–November 2007.

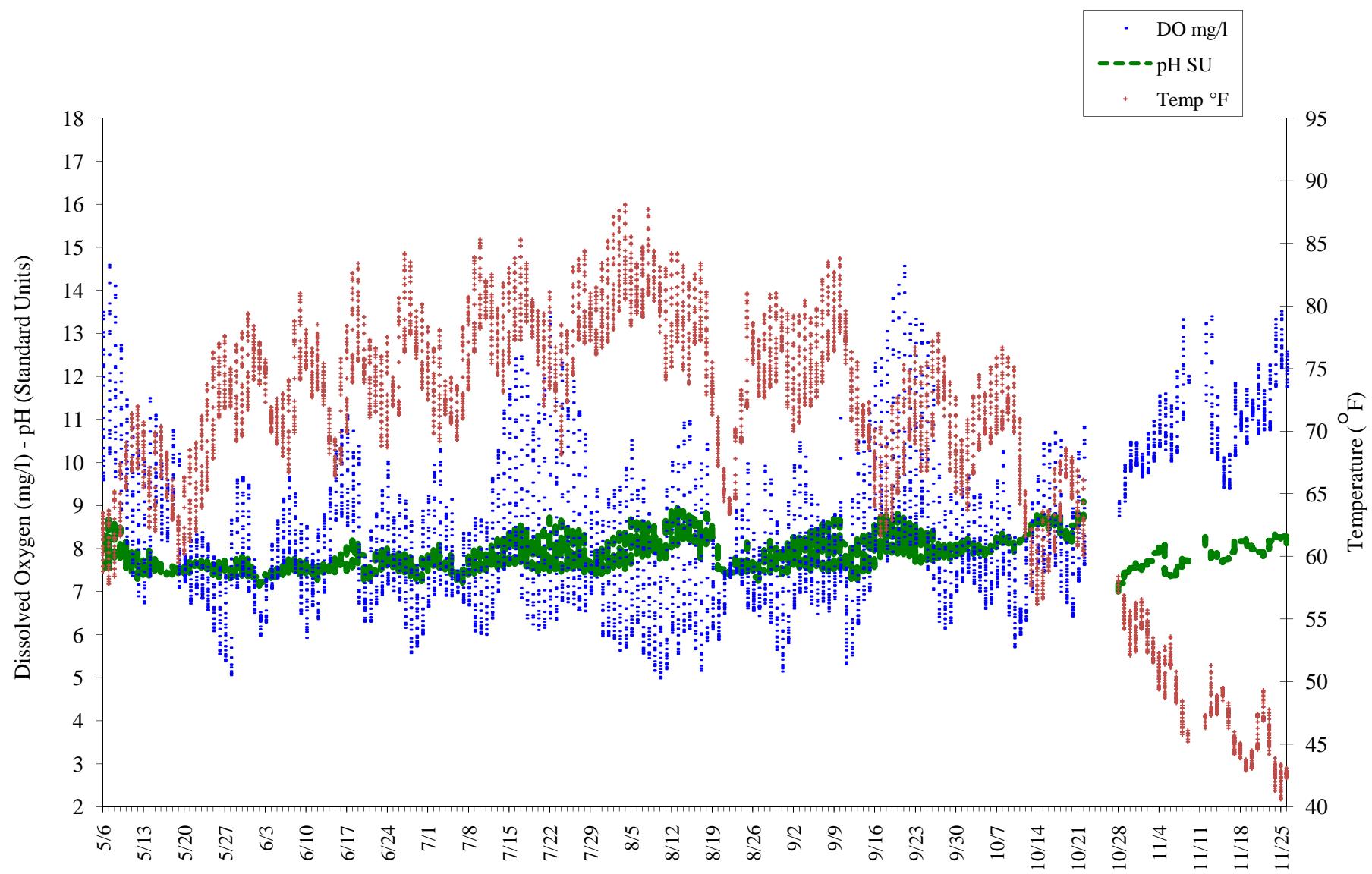


Figure 4.3-4. Hourly measurements of temperature, dissolved oxygen, and pH at the Limerick intake, May-November 2007.

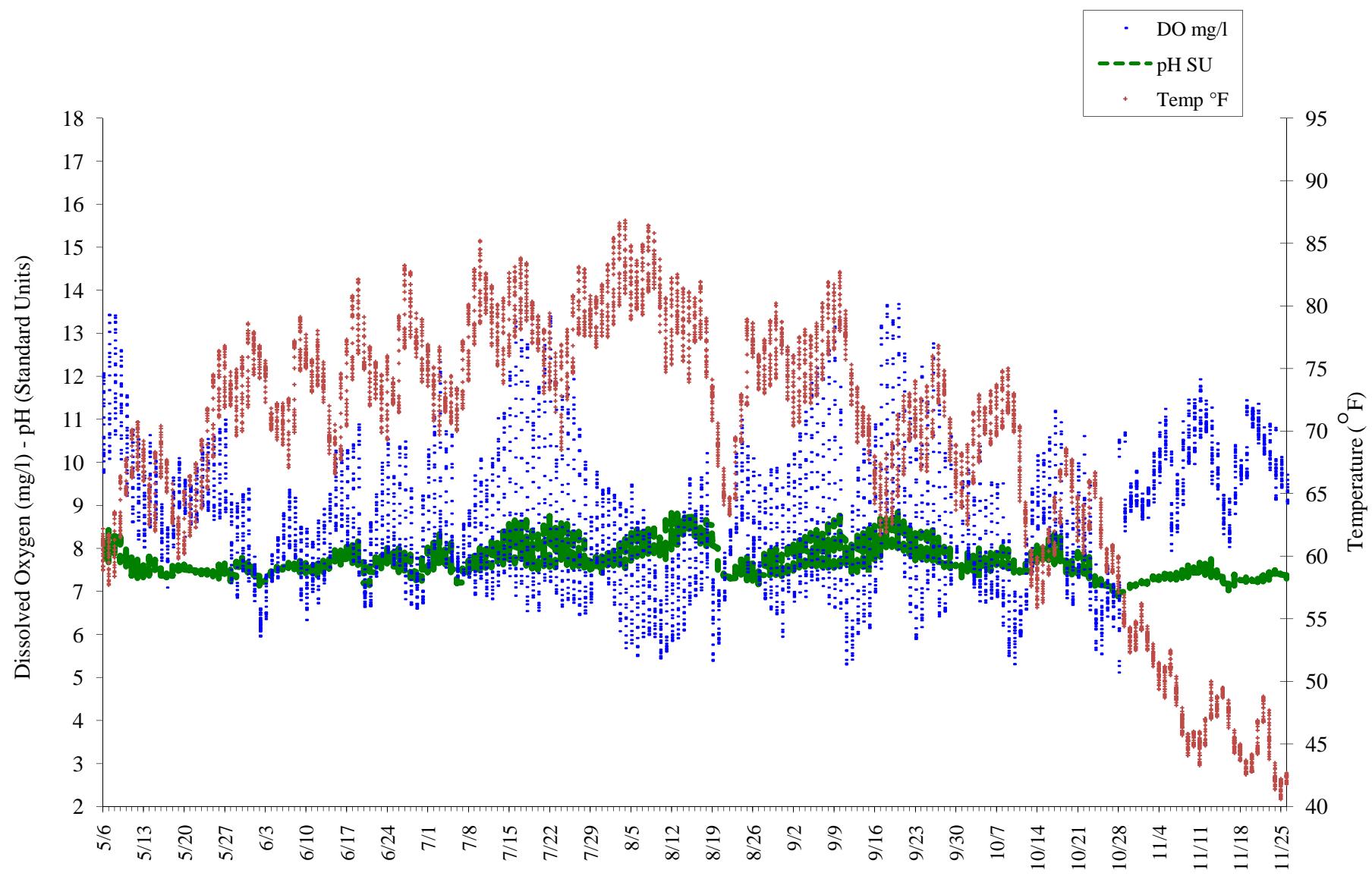


Figure 4.3-5. Hourly measurements of temperature, dissolved oxygen, and pH at the Pennsylvania American intake, May-November 2007.

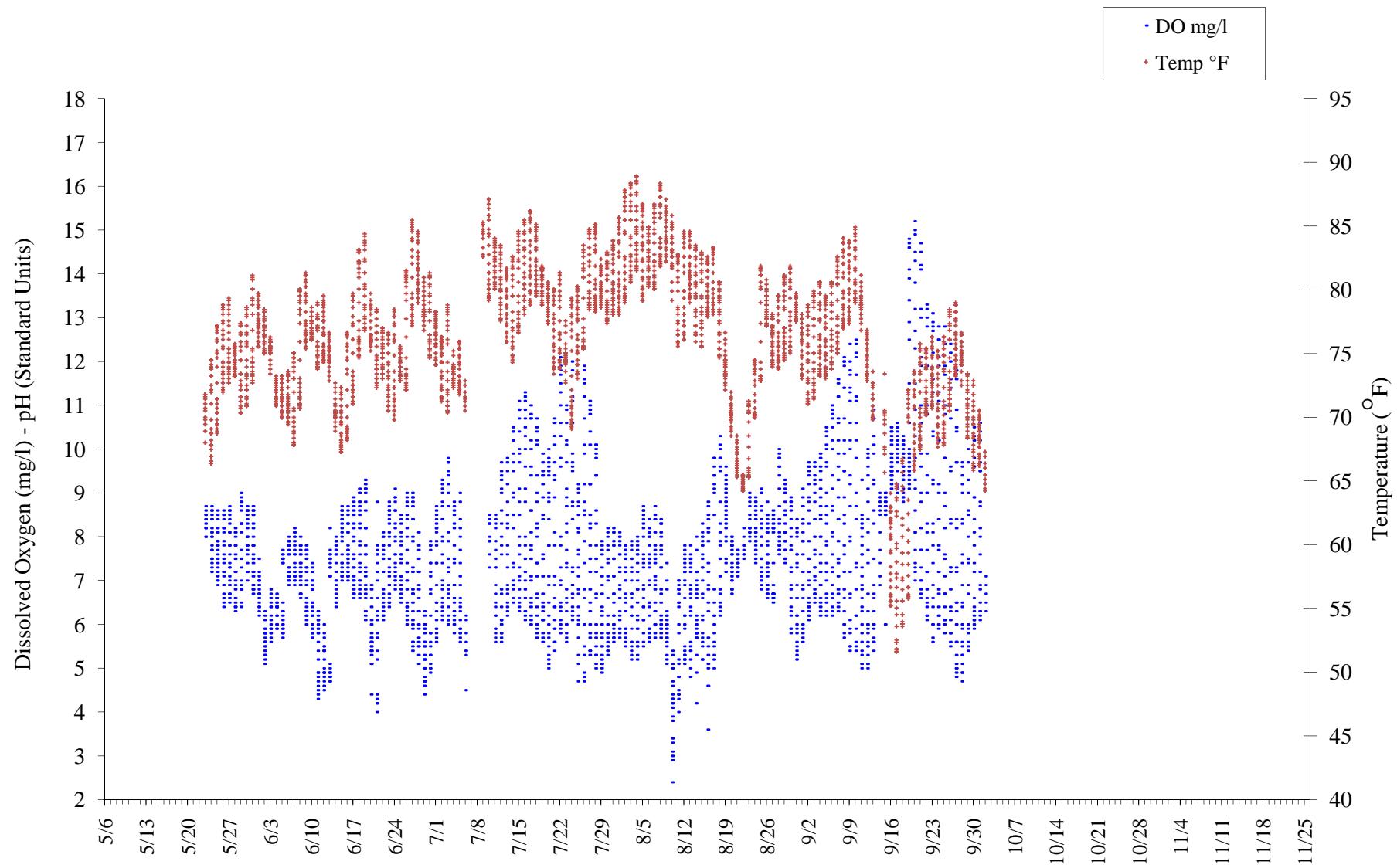


Figure 4.3-6. Hourly measurements of temperature and dissolved oxygen at the Vincent Dam intake, May-October 2007.

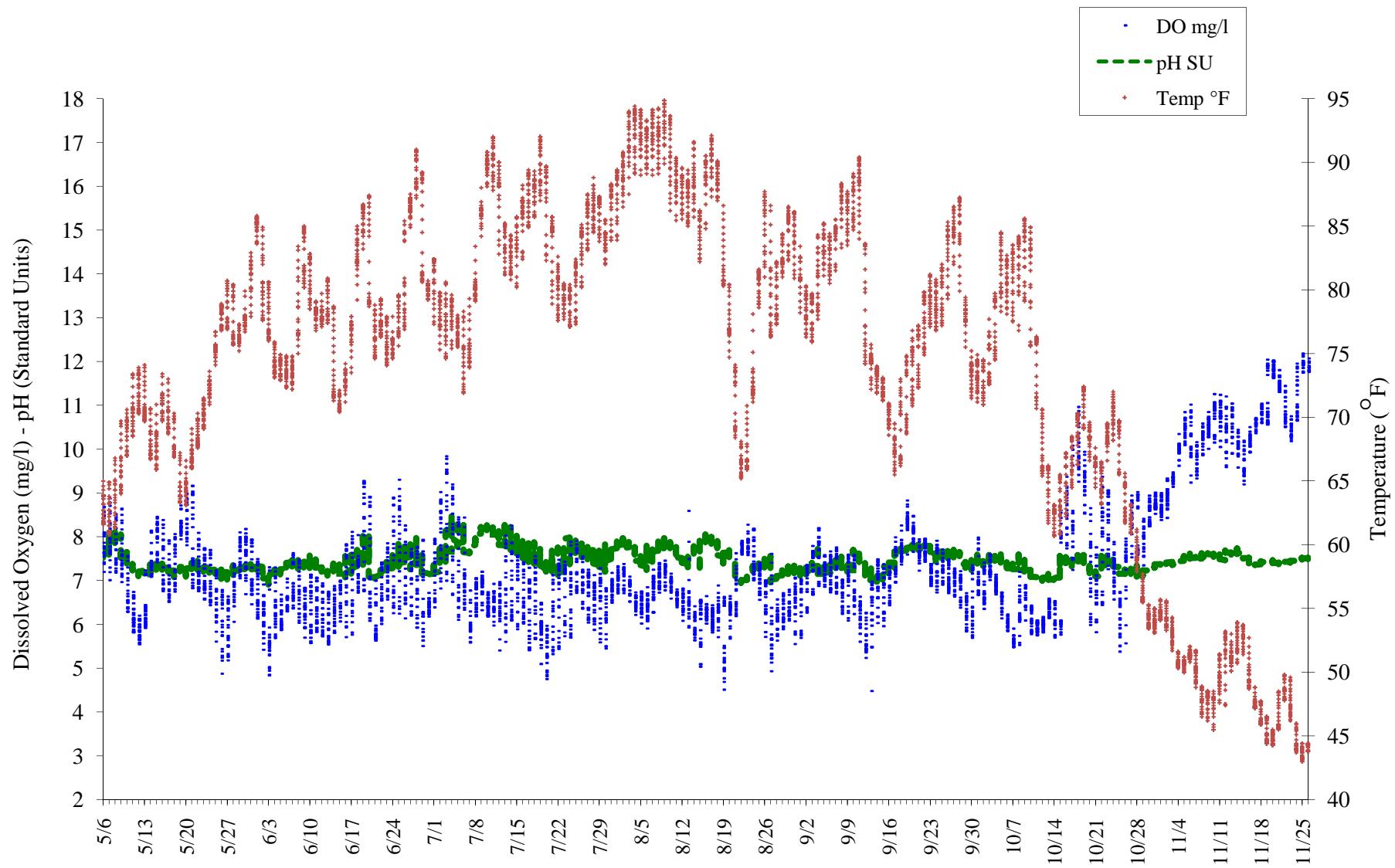


Figure 4.3-7. Hourly measurements of temperature, dissolved oxygen, and pH at the Black Rock Dam intake, May-October 2007.

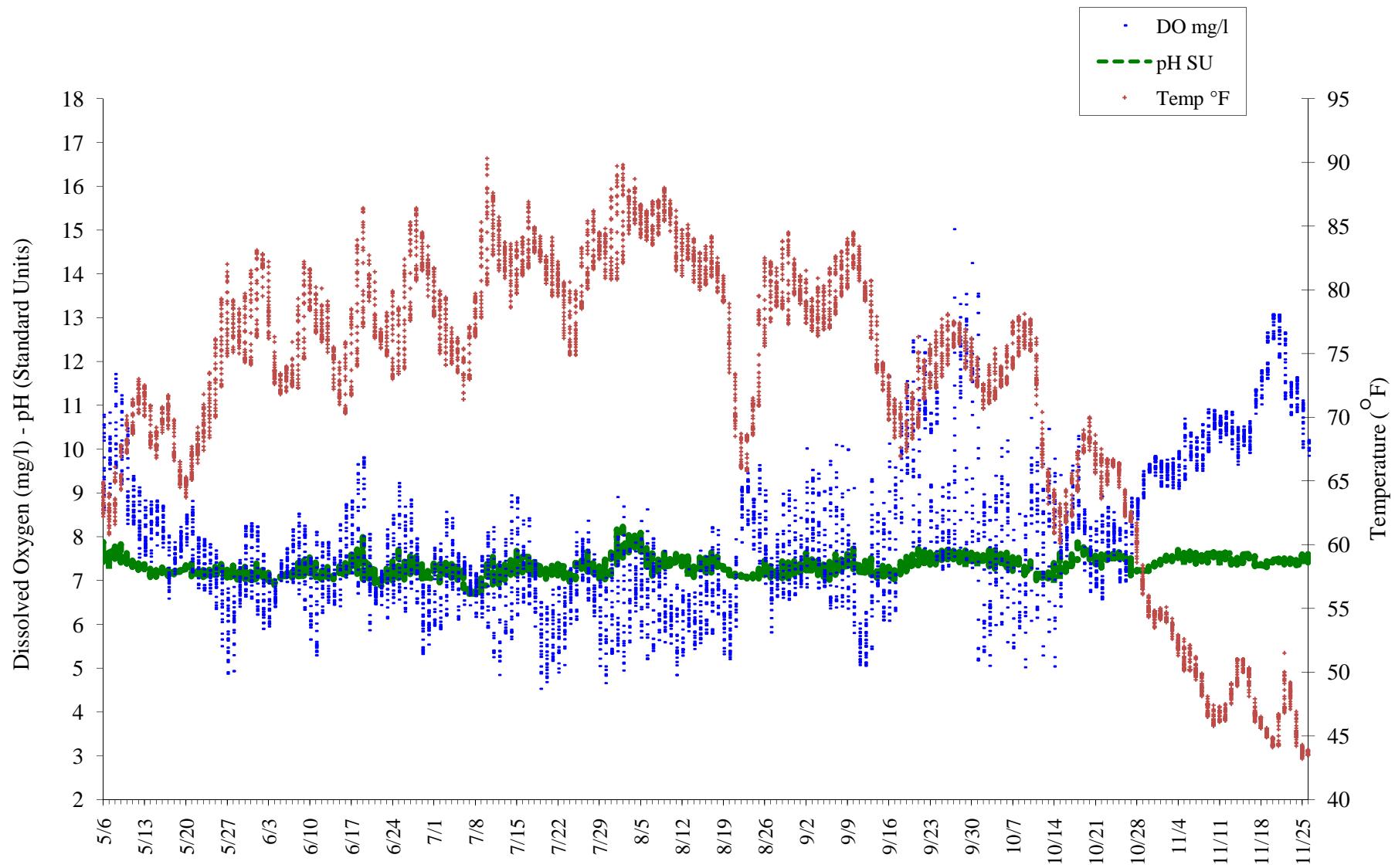


Figure 4.3-8. Hourly measurements of temperature, dissolved oxygen, and pH at the Norristown Pool intake, May-October 2007.

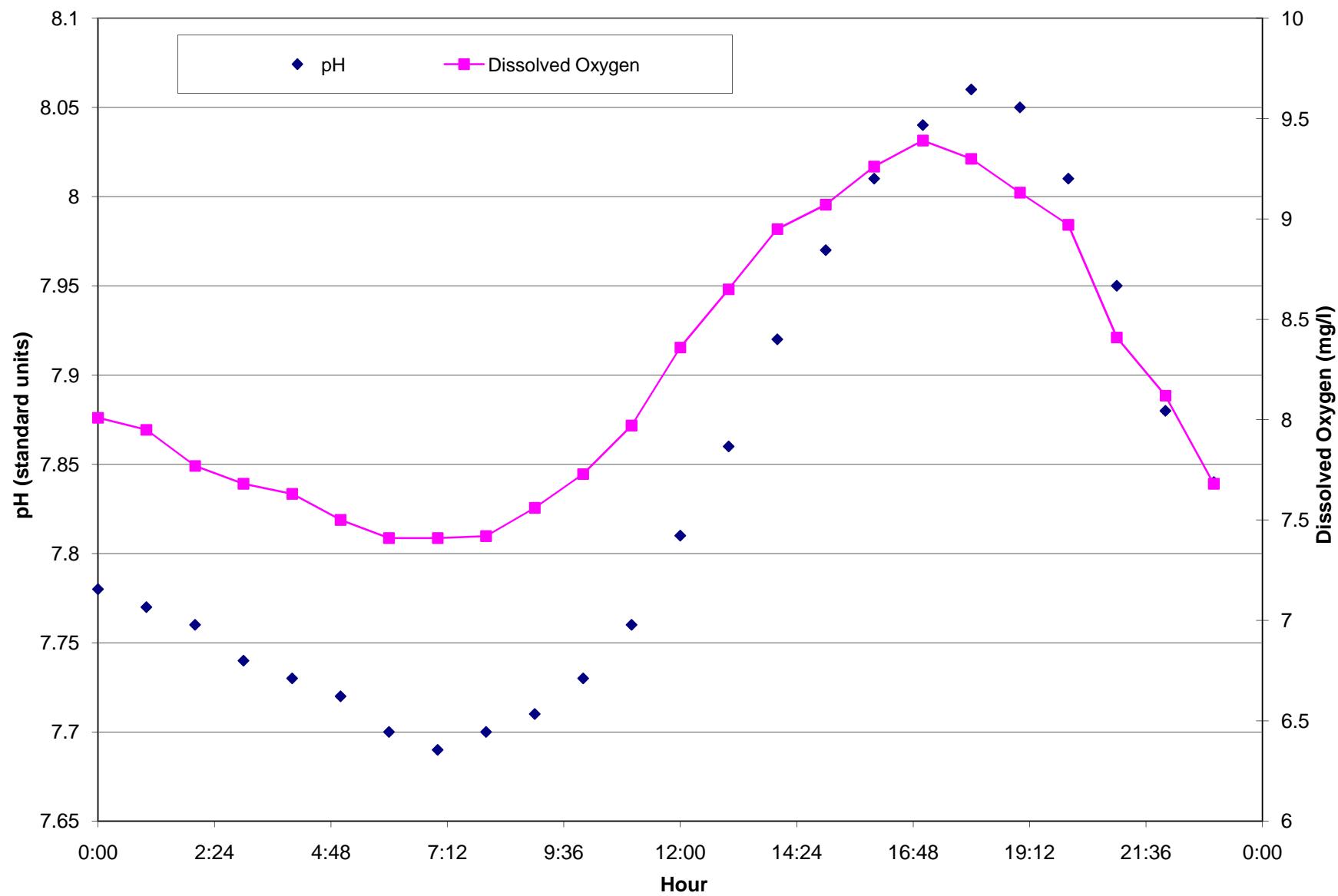


Figure 4.3-9. Example of diel fluctuation in pH and dissolved oxygen in the Schuylkill River.

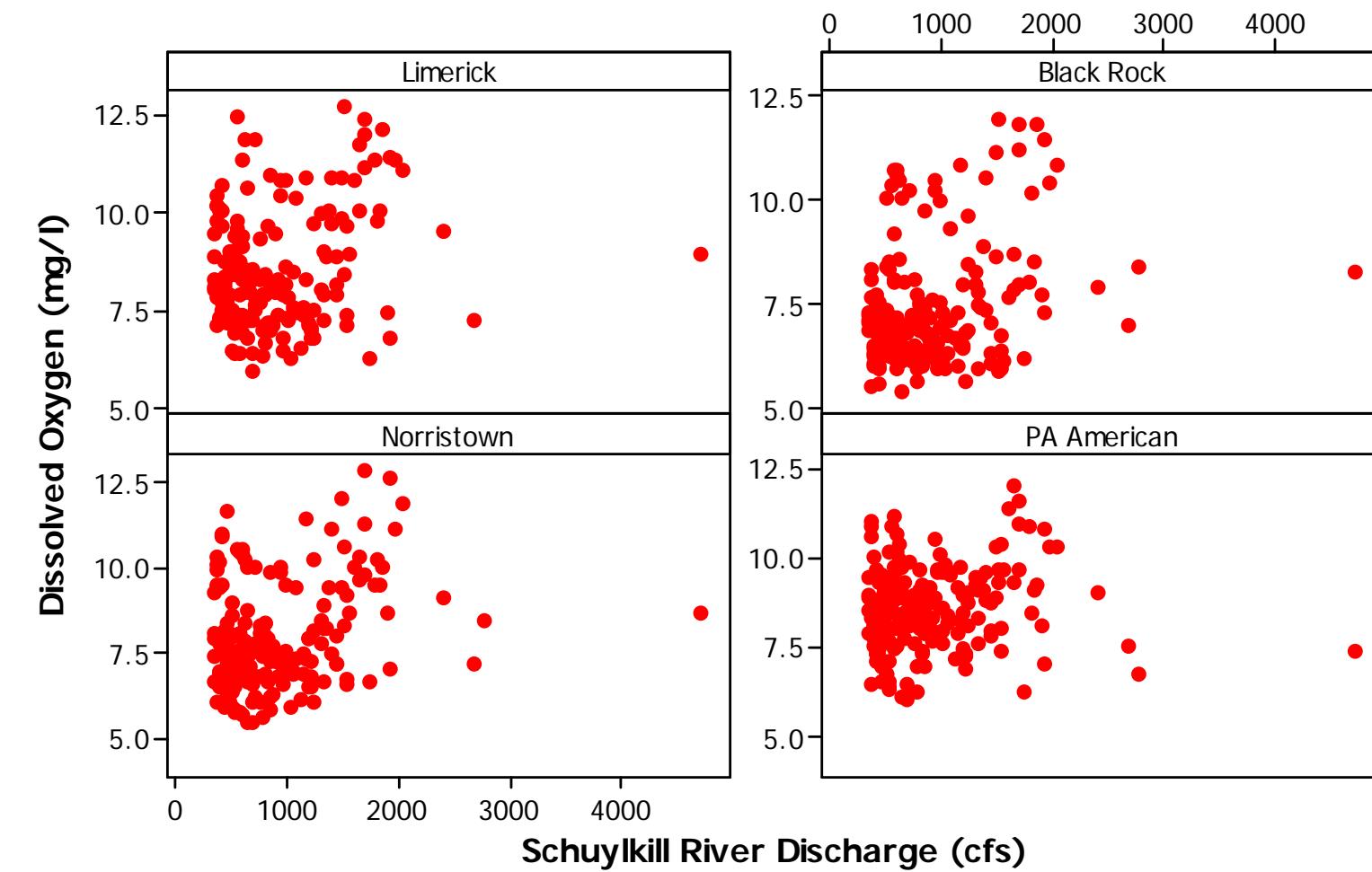


Figure 4.3-10. Relation of mean daily dissolved oxygen to Schuylkill River discharge at Pottstown for the Limerick Intake, Black Rock Dam, Pennsylvania American Intake, and Norristown Pool monitoring stations, May - November 2007.

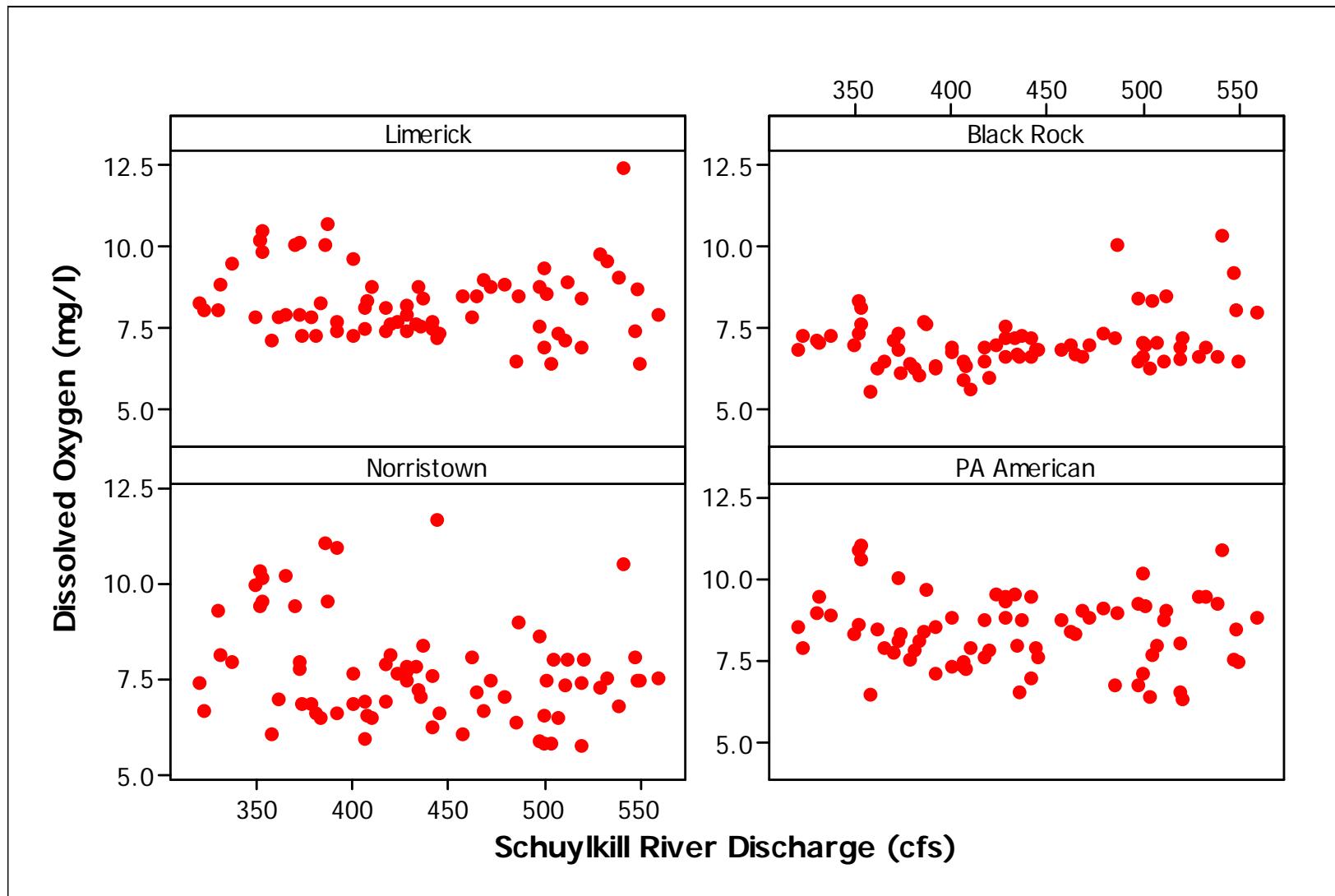


Figure 4.3-11. Relation of mean daily dissolved oxygen to Schuylkill River discharges at Pottstown less than 560 cfs for the Limerick Intake, Black Rock Dam, PA American Intake, and Norristown Pool monitoring stations, May - November 2007.

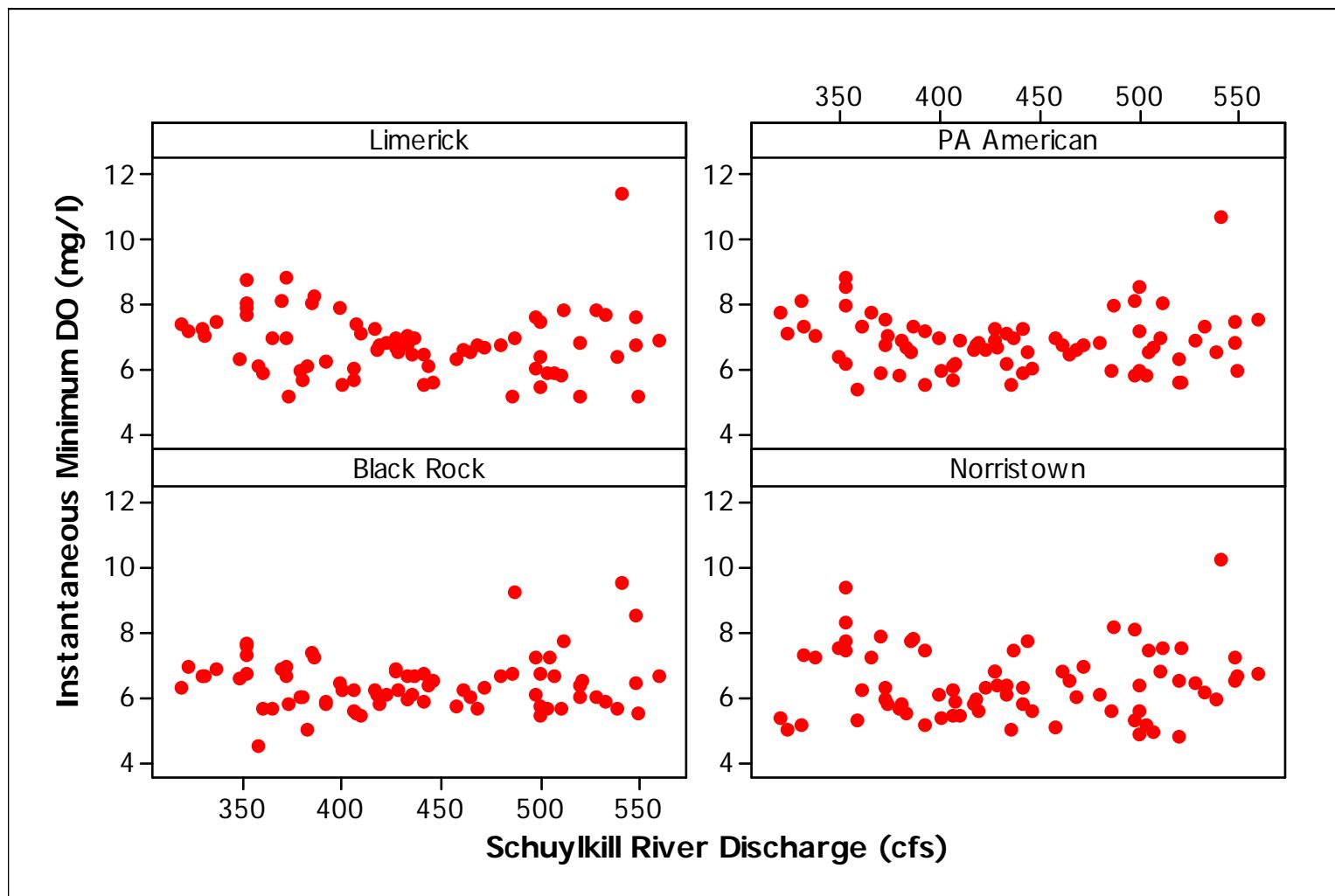


Figure 4.3-12. Relation of instantaneous minimum dissolved oxygen to Schuylkill River discharges less than 560 cfs for the Limerick Intake, Black Rock Dam, PA American Intake, and Norristown Pool monitoring stations, May - November 2007.

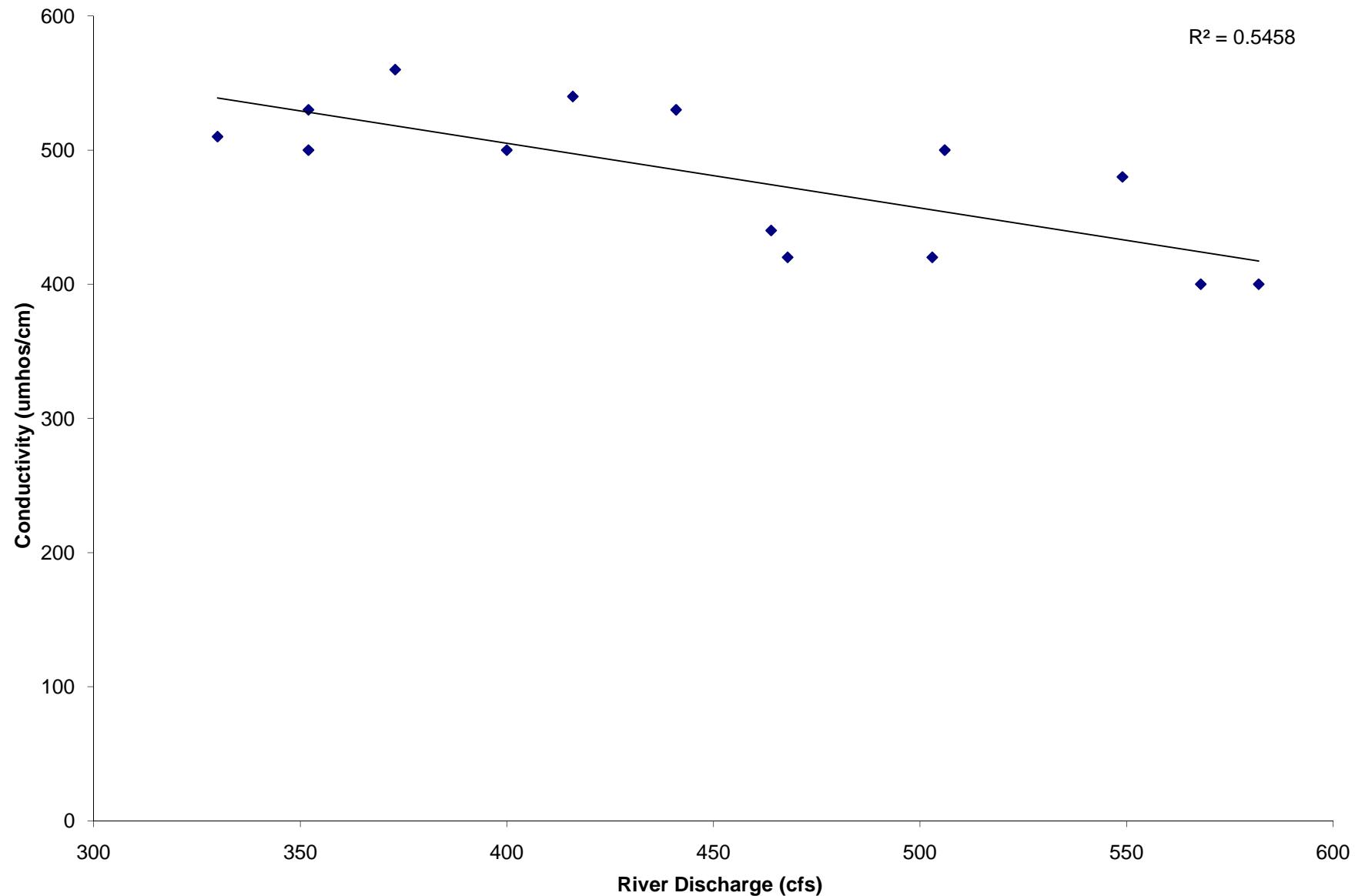


Figure 4.4-1. Relation of Schuylkill River discharge less than 600 cfs at Pottstown to conductivity measured at the Pottstown Water Treatment Plant, May - September, 2007.

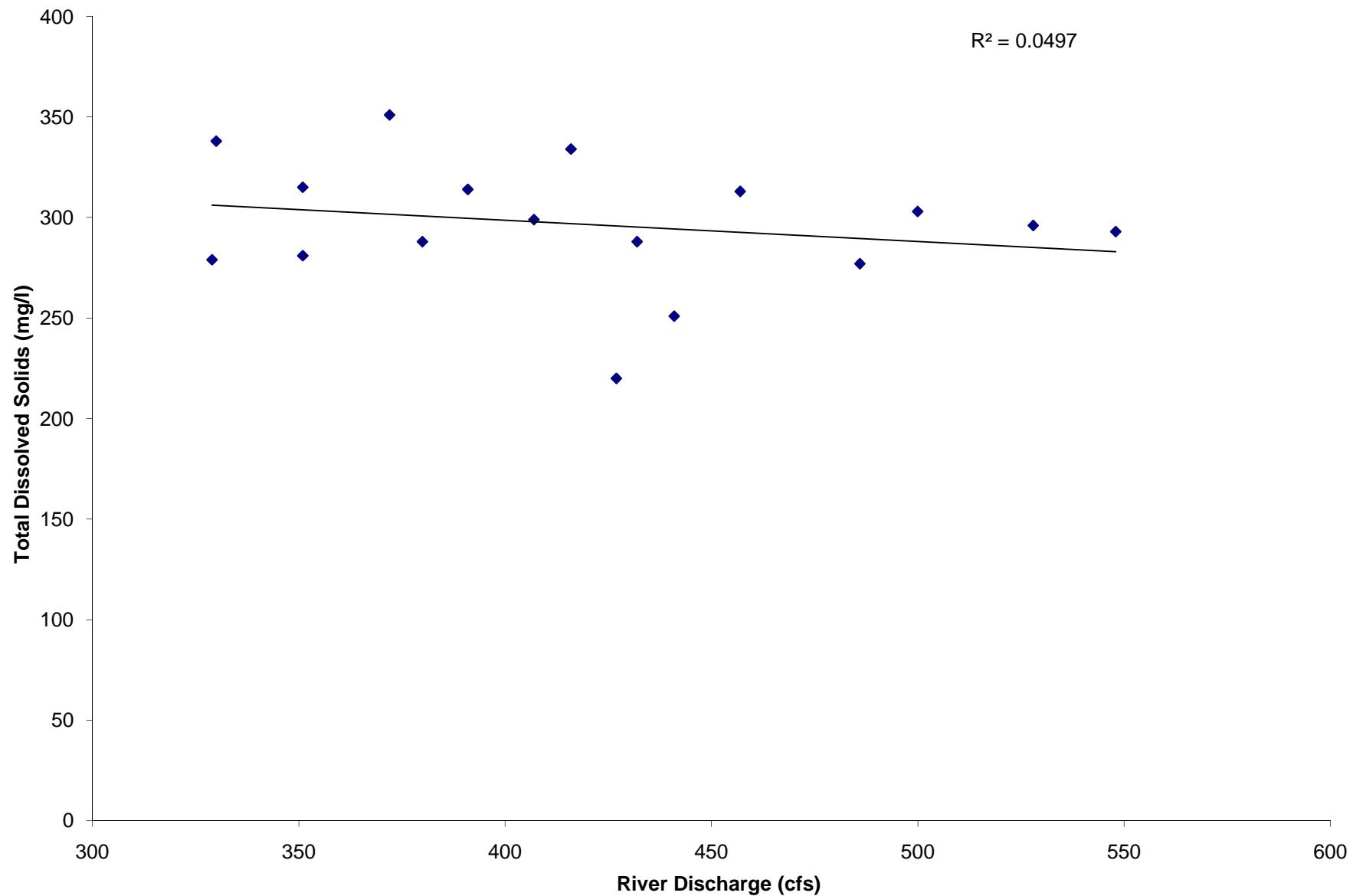


Figure 4.4-2. Relation of Schuylkill River discharge less than 600 cfs at Pottstown to the concentration of total dissolved solids in the Schuylkill River at the Pennsylvania American intake, May - November, 2007.

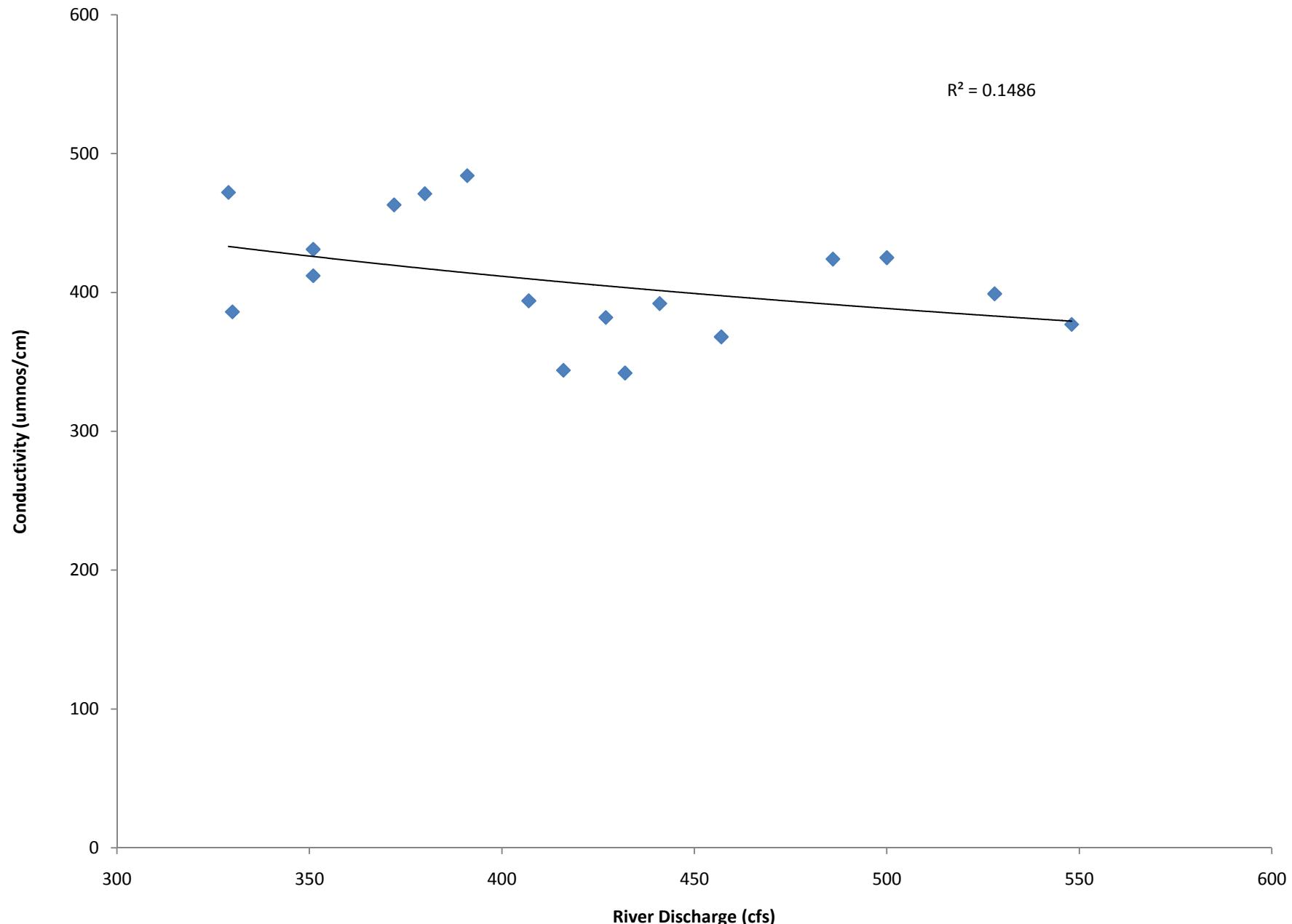


Figure 4.4-3. Relation of Schuylkill River discharge less than 600 cfs at Pottstown to conductivity measured at the Pennsylvania American intake, May - November, 2007.

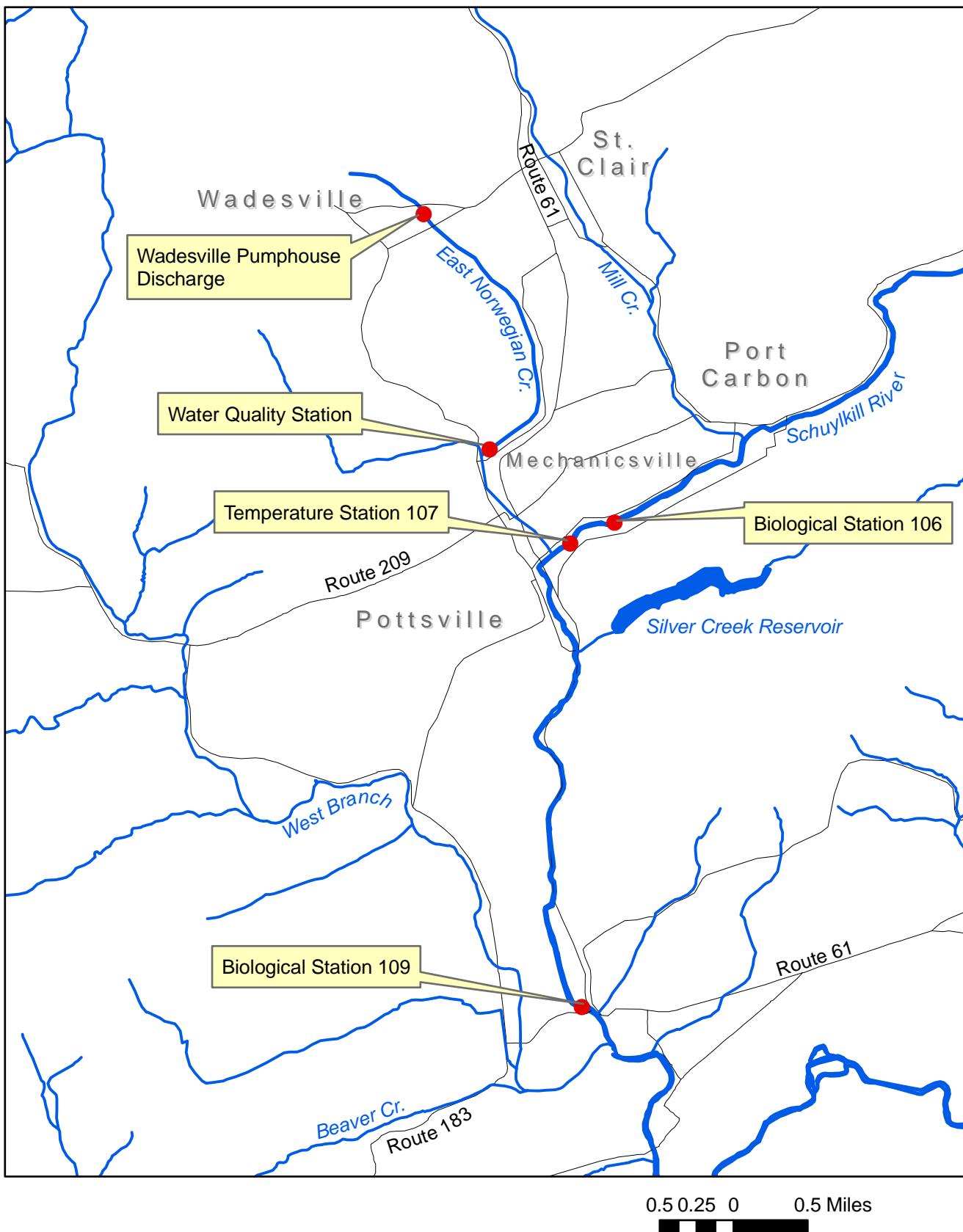


Figure 4.5-1.
**Location of sampling stations
near Pottsville.**



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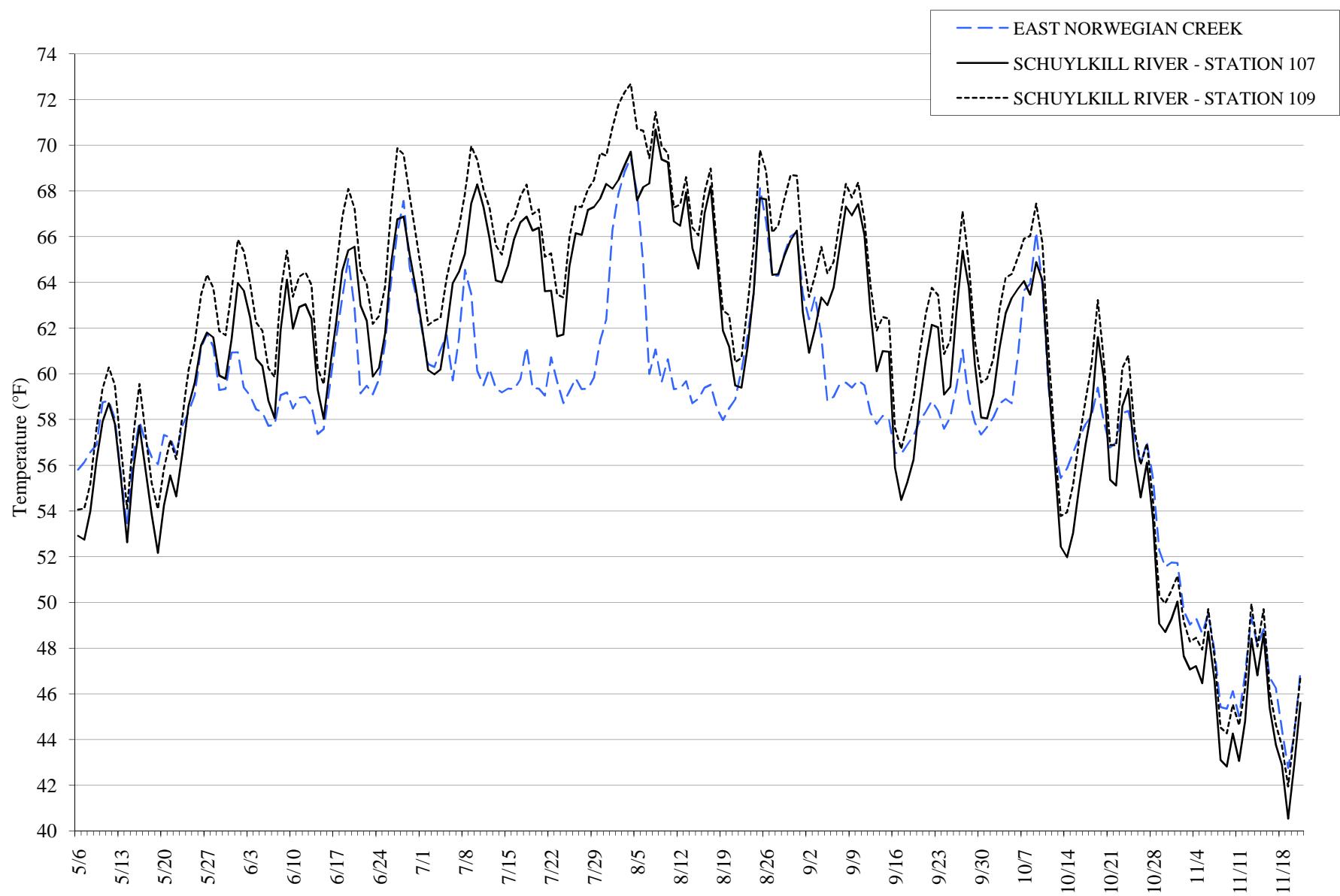


Figure 4.5-2. Relation of daily mean water temperature measured in East Norwegian Creek and at Stations 107 and 109 in the Schuylkill River, May-November 2007.

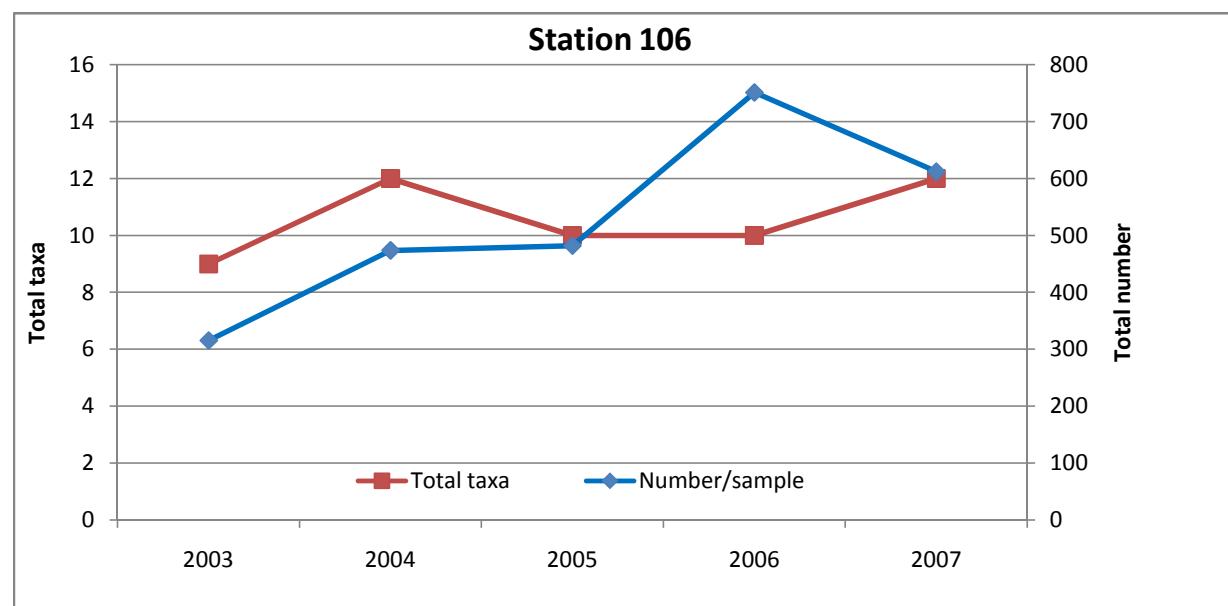
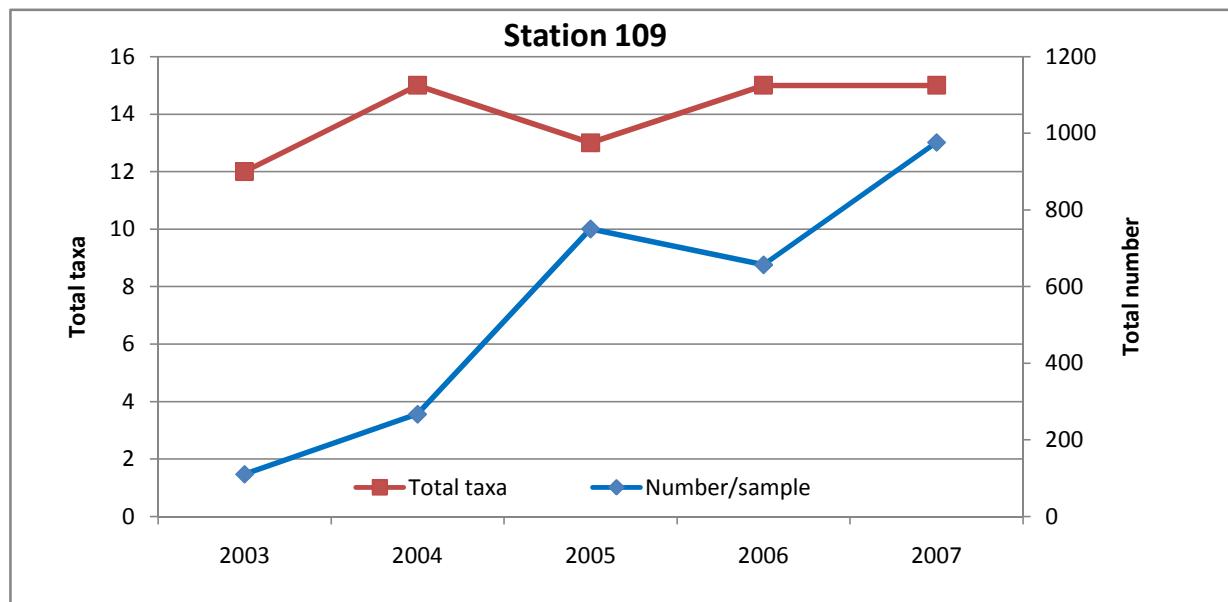


Figure 4.6-1. Total taxa and number of fish collected per sampling event from Stations 106 and 109 in the Schuylkill River, 2003-2007.

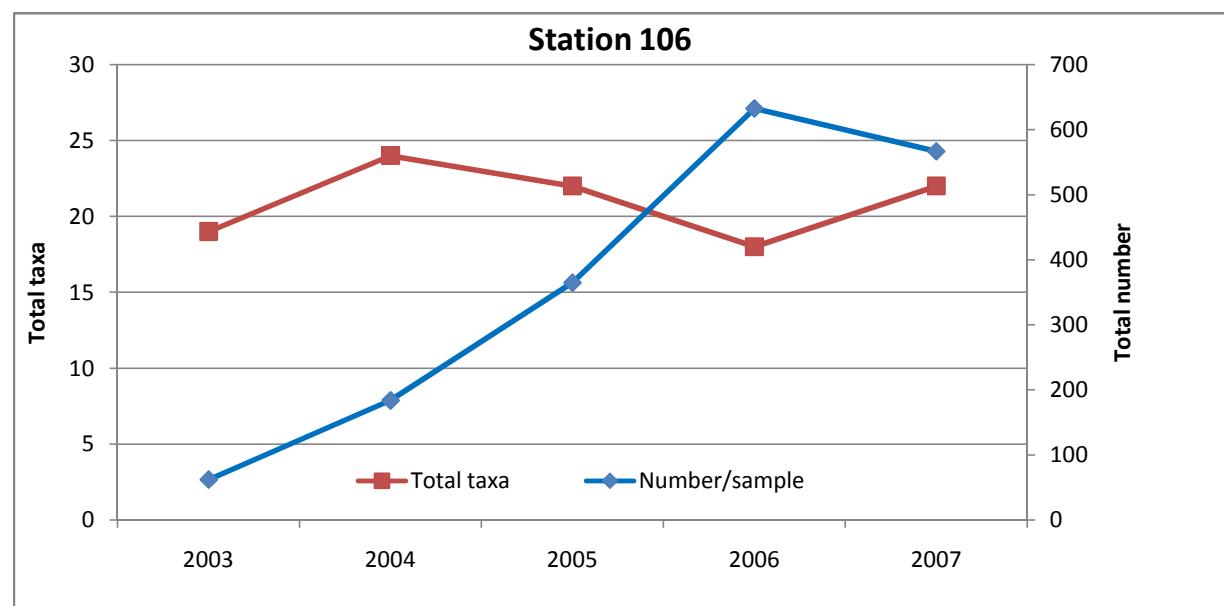
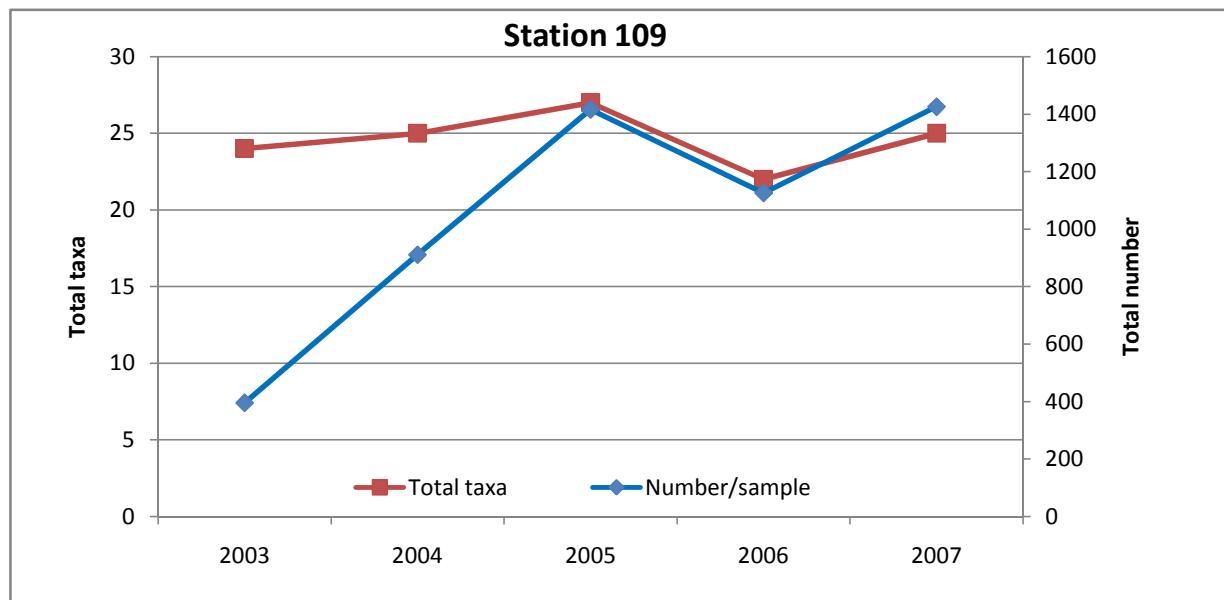
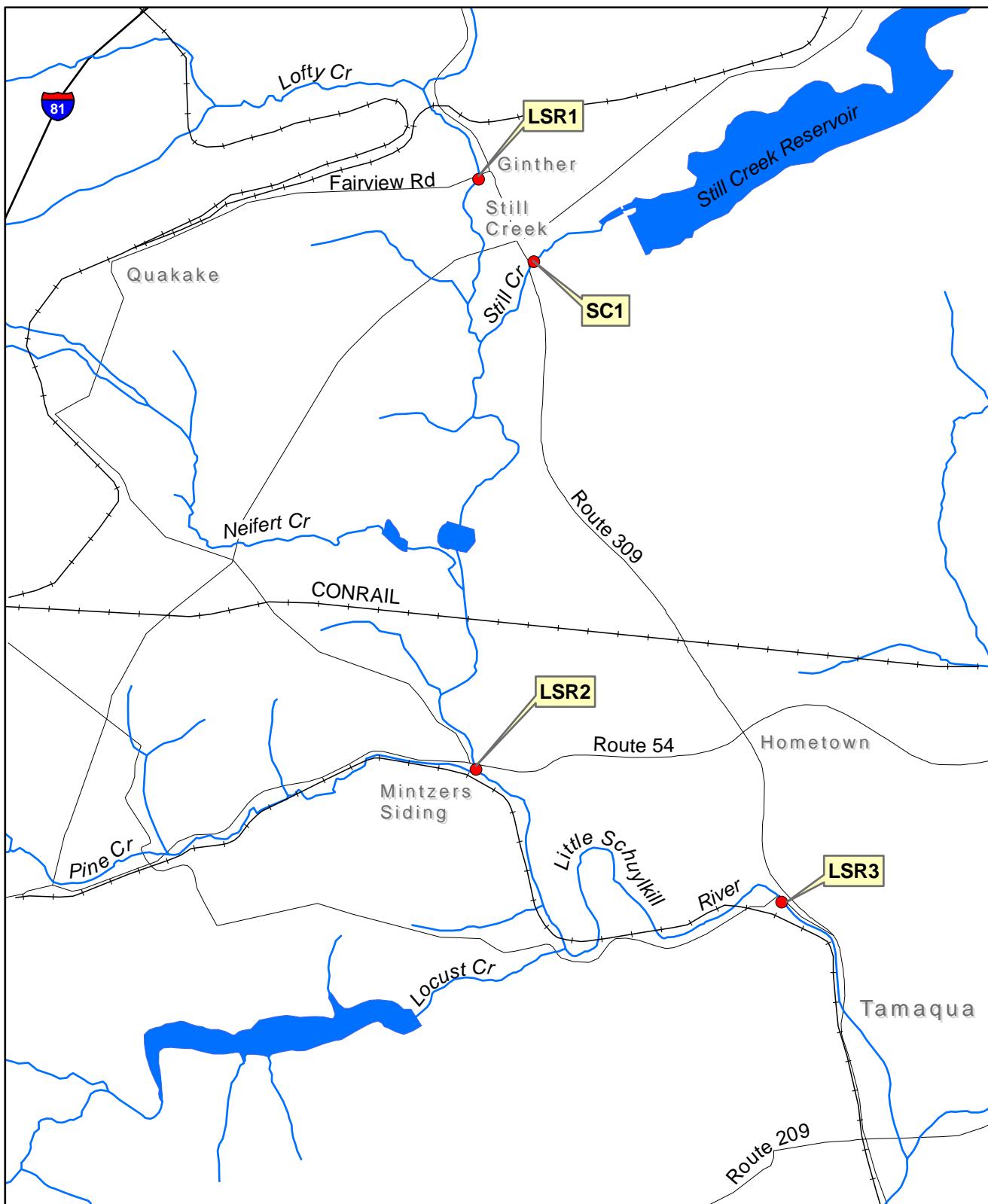


Figure 4.6-2. Total taxa and number of benthic macroinvertebrates collected per sampling event from Stations 106 and 109 in the Schuylkill River, 2003-2007.



LSR1, LSR2, SC1: Flow, Temperature, Water Quality
LSR3: Temperature

0.5 0.25 0 0.5 Miles

Figure 4.8-1
**Water quality monitoring sites
within the
Little Schuylkill River watershed.**



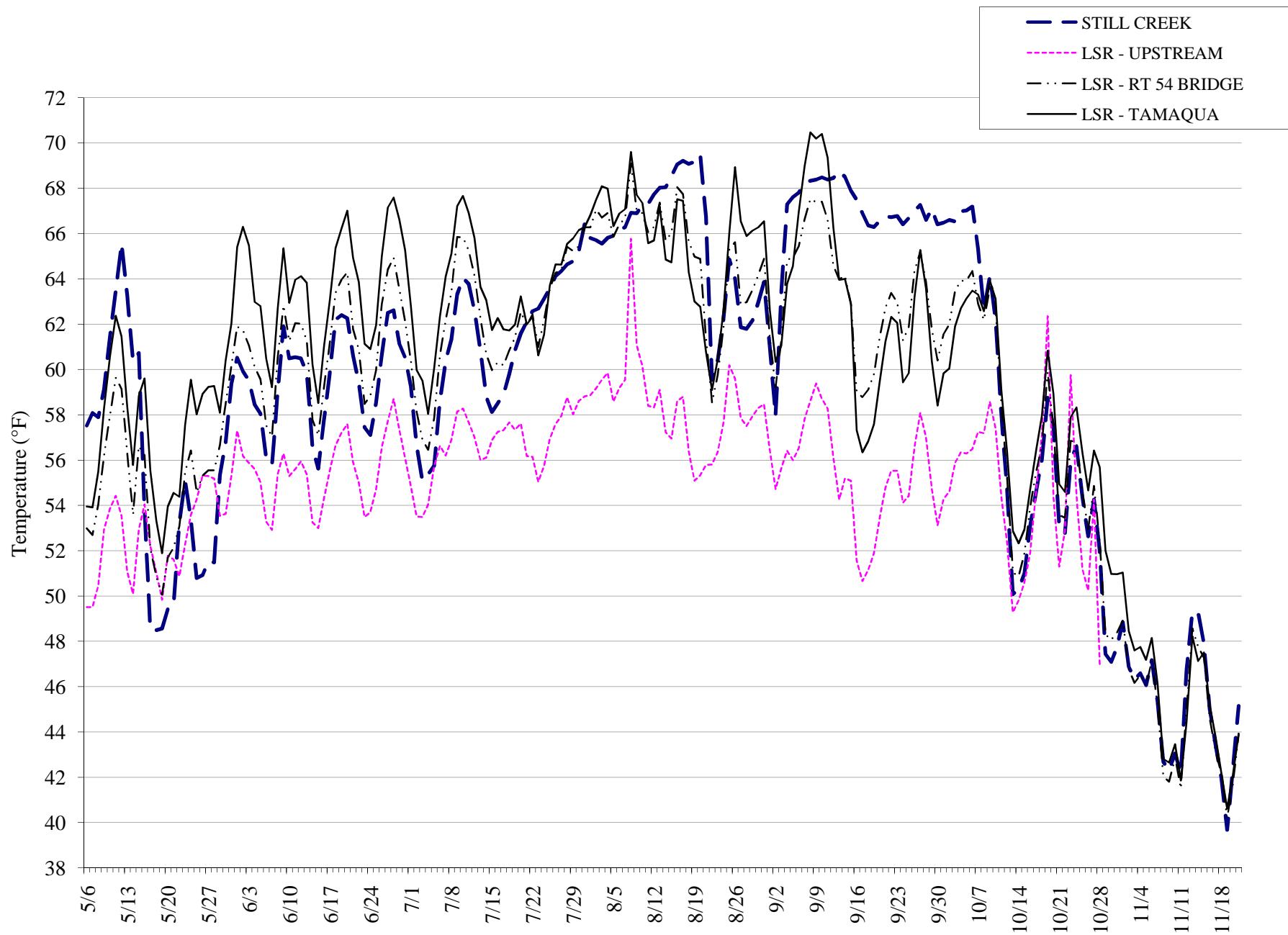
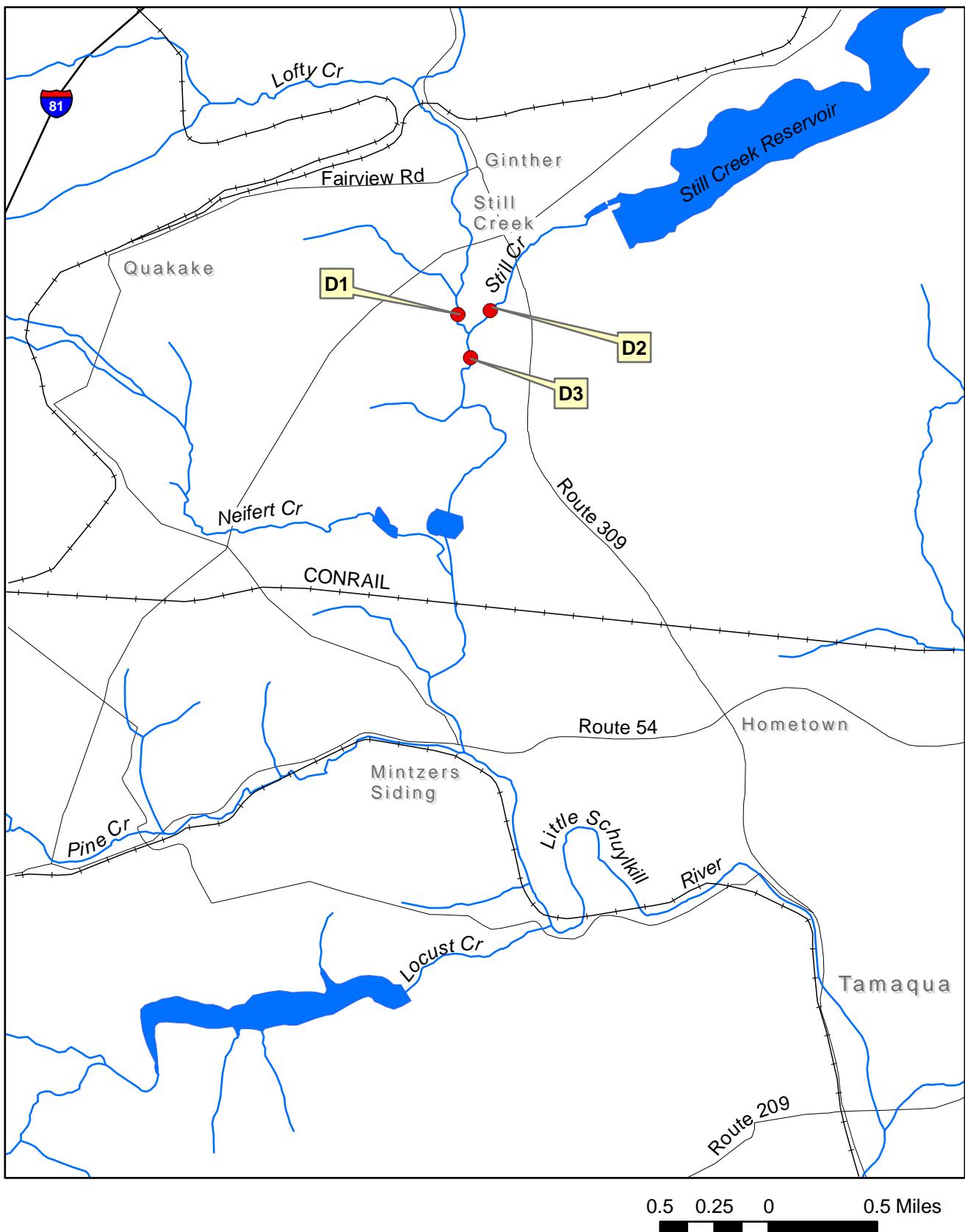


Figure 4.8-2. Mean daily water temperature measured in Still Creek, Little Schuylkill River (LSR) upstream of Still Creek, LSR downstream of Still Creek, and LSR near Tamaqua, May-November 2007.



0.5 0.25 0 0.5 Miles

Figure 4.8-3
Locations of stream discharge monitoring within the Little Schuylkill River watershed.



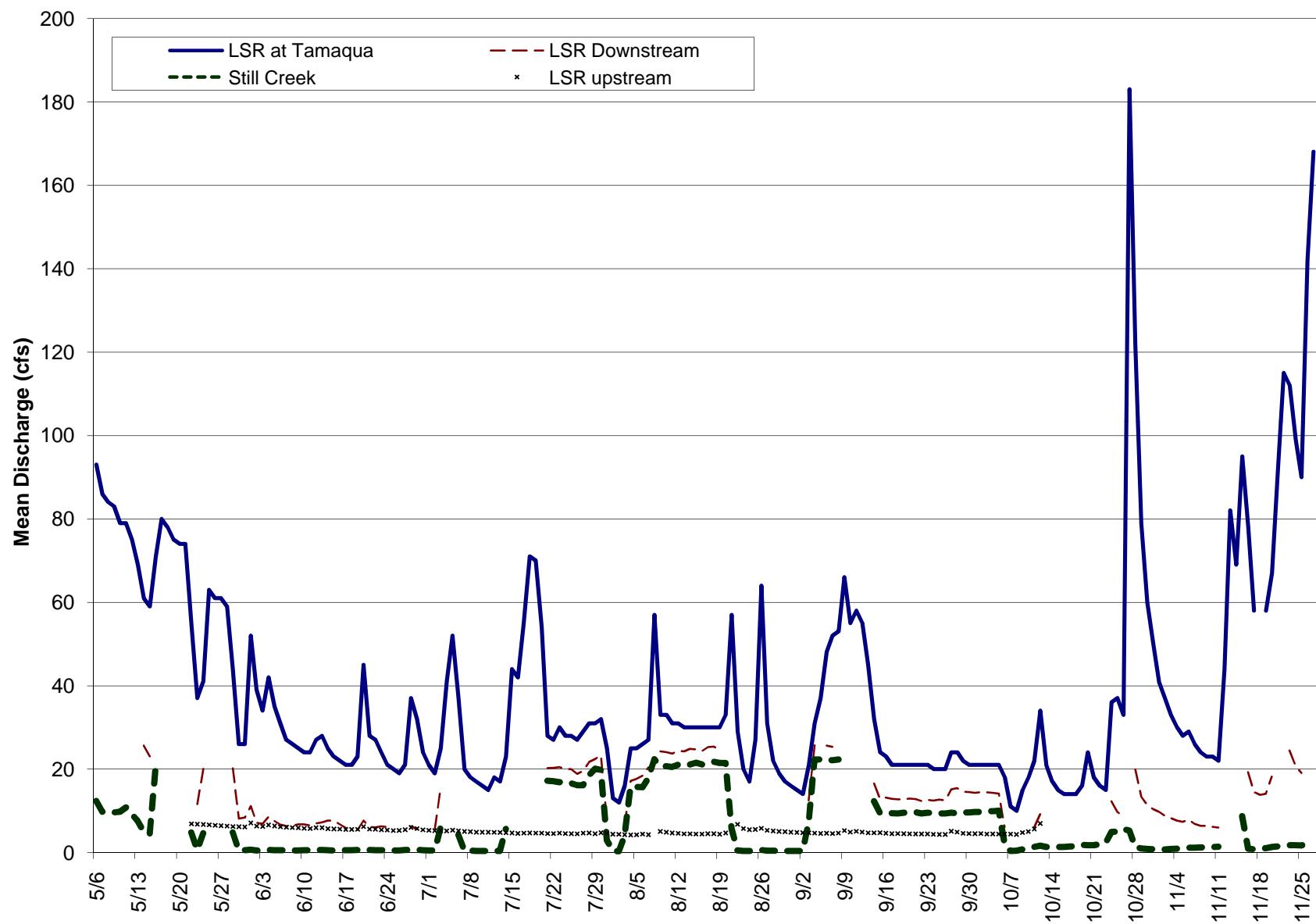


Figure 4.8-4. Little Schuylkill River (LSR) discharge at USGS Tamaqua gage, LSR discharge downstream of Still Creek, LSR discharge upstream of Still Creek and Still Creek discharge. May-November 2007.

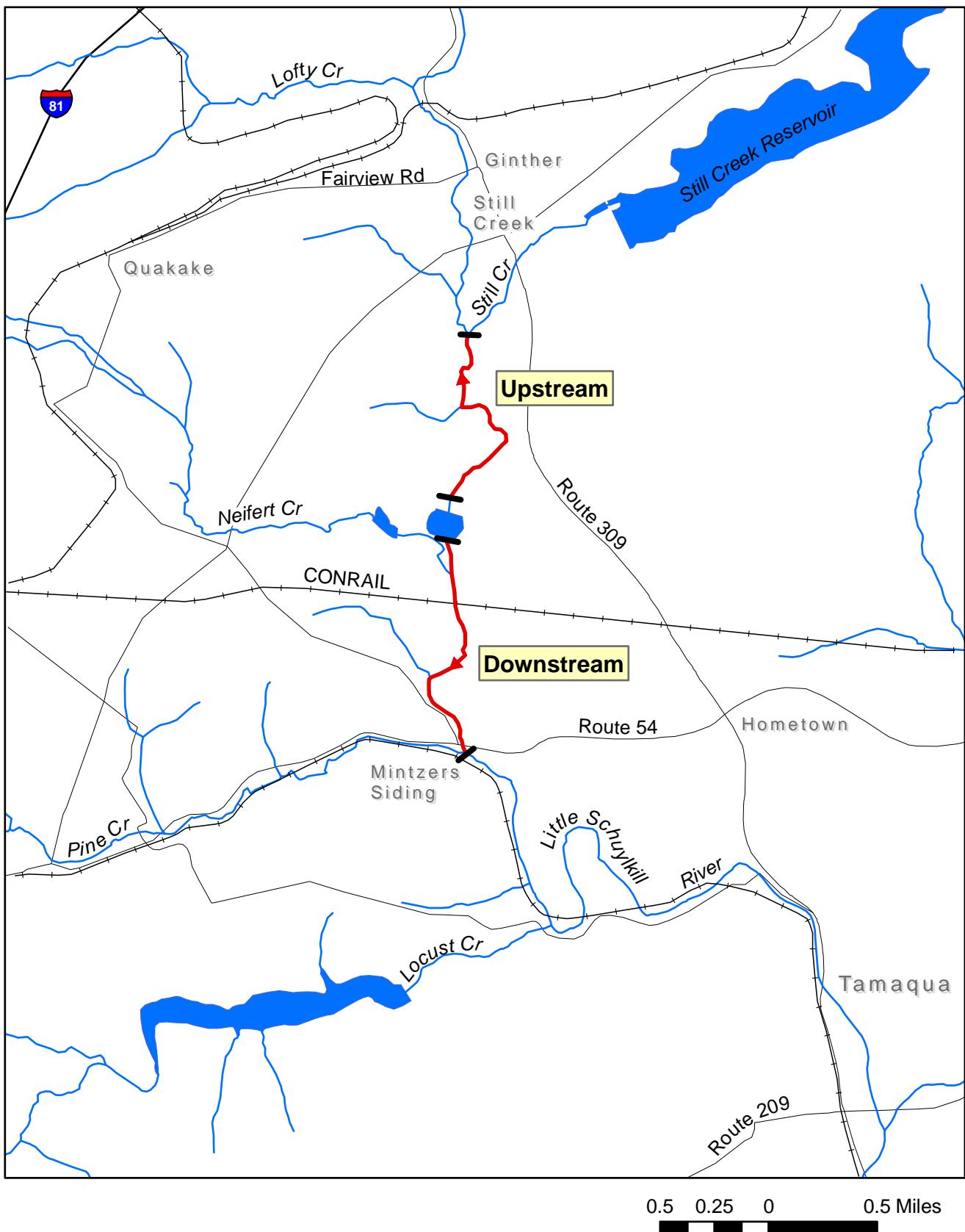


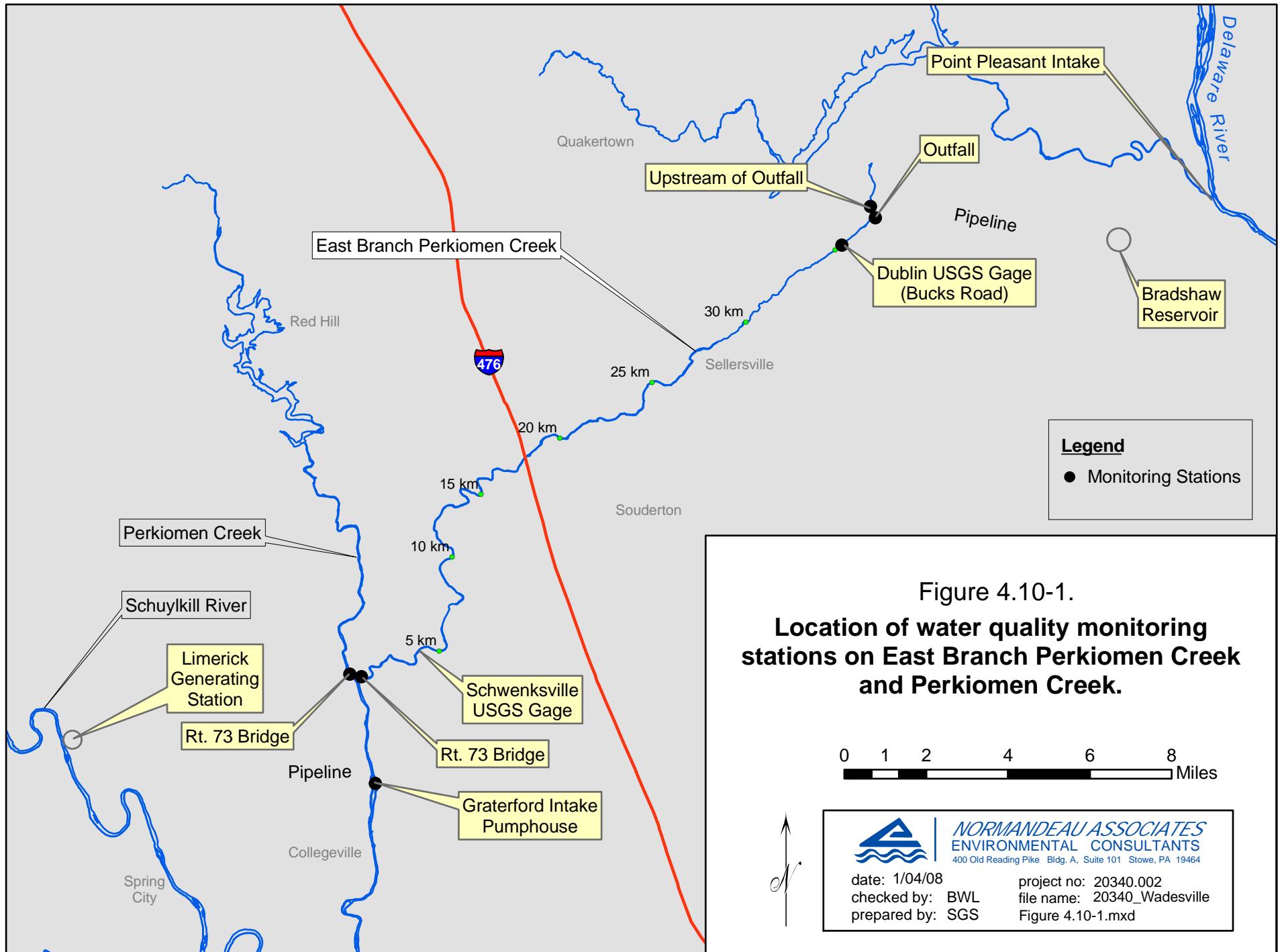
Figure 4.9-1.
Location of
fish sampling stations
in the Little Schuylkill River



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checked by: b.lees
 file name: 20340_Wadesville Figure 4.9-1.mxd



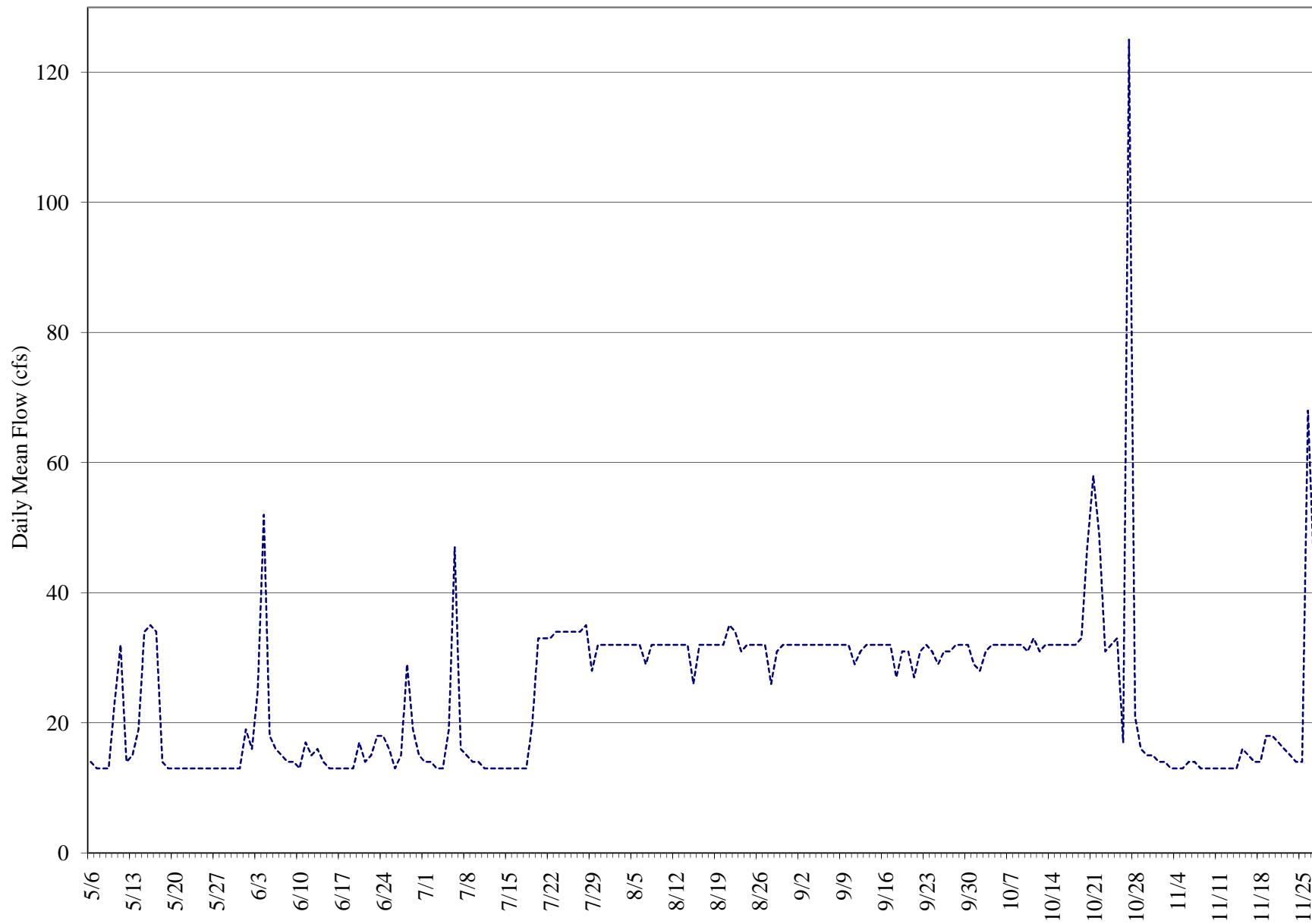


Figure 4.12-1. Flow rate of the East Branch Perkiomen Creek at the Bucks Road USGS gage, May–November 2007.

Provisional data subject to revision.

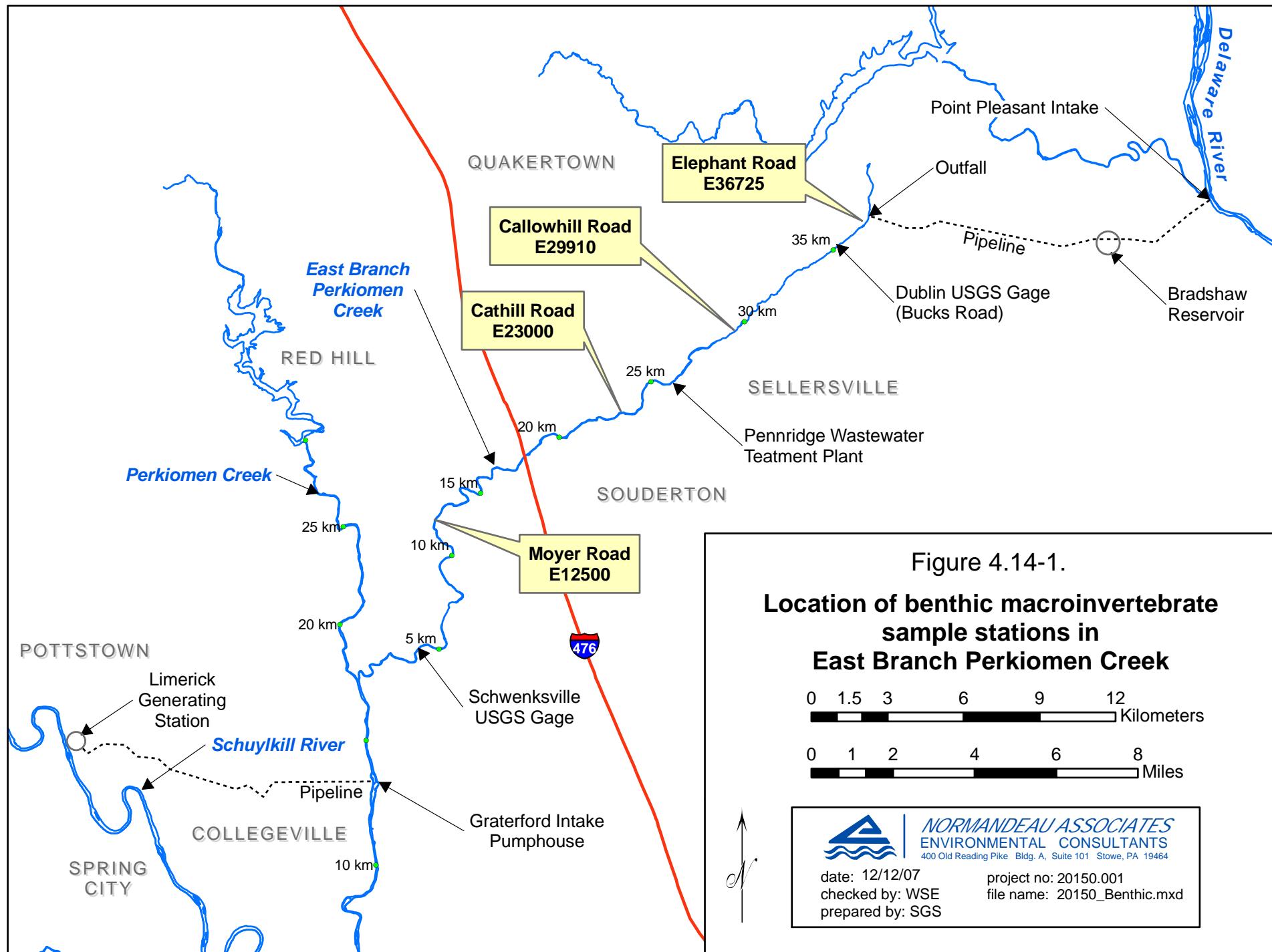
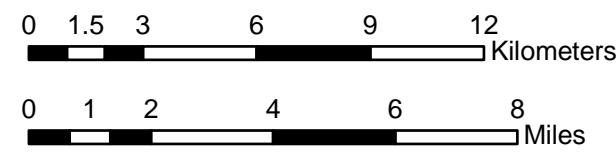


Figure 4.14-1.
Location of benthic macroinvertebrate
sample stations in
East Branch Perkiomen Creek




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 project no: 20150.001
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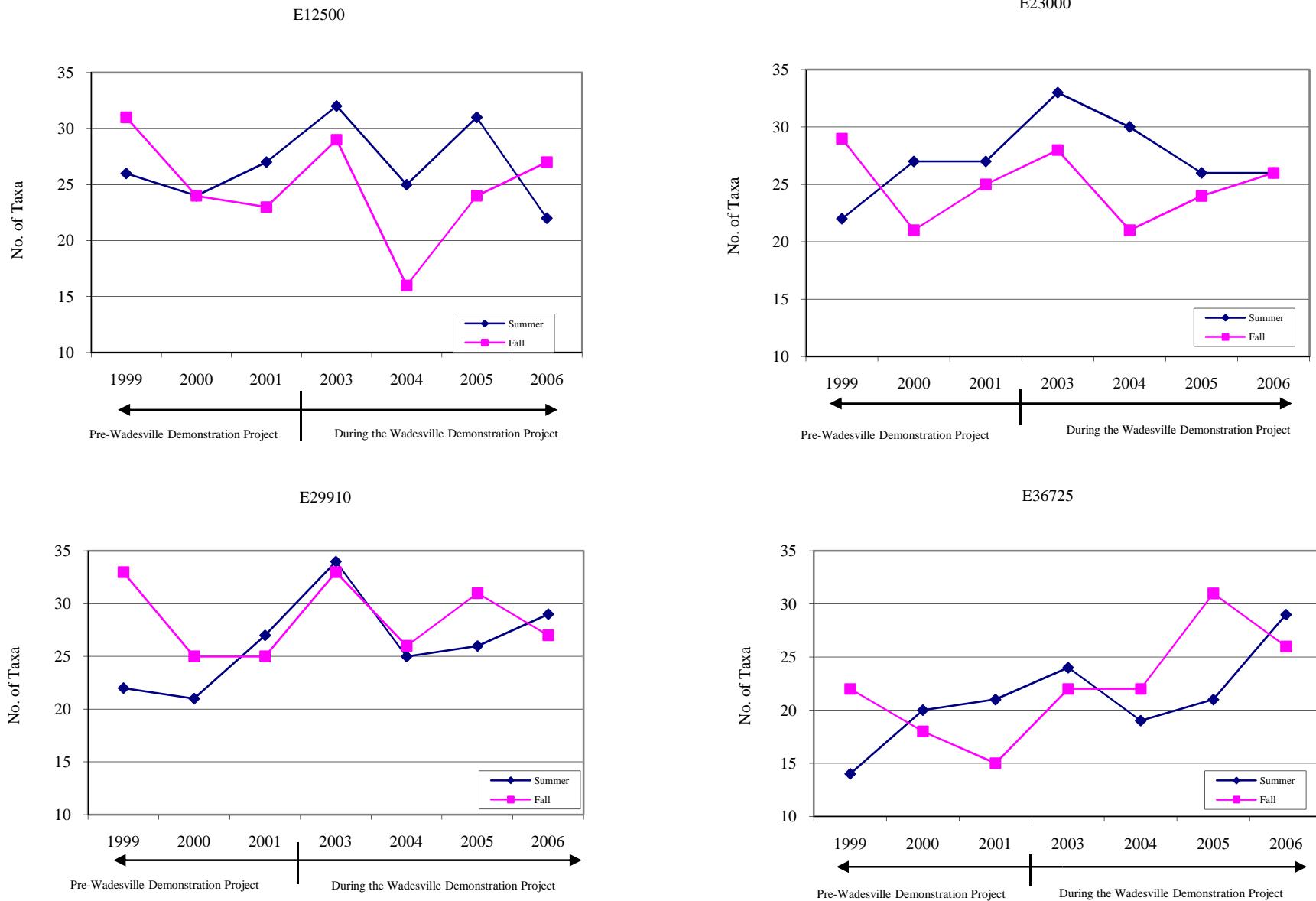


Figure 4.14-2. Total number of macroinvertebrate taxa collected at four EBPC stations, 1999-2006.

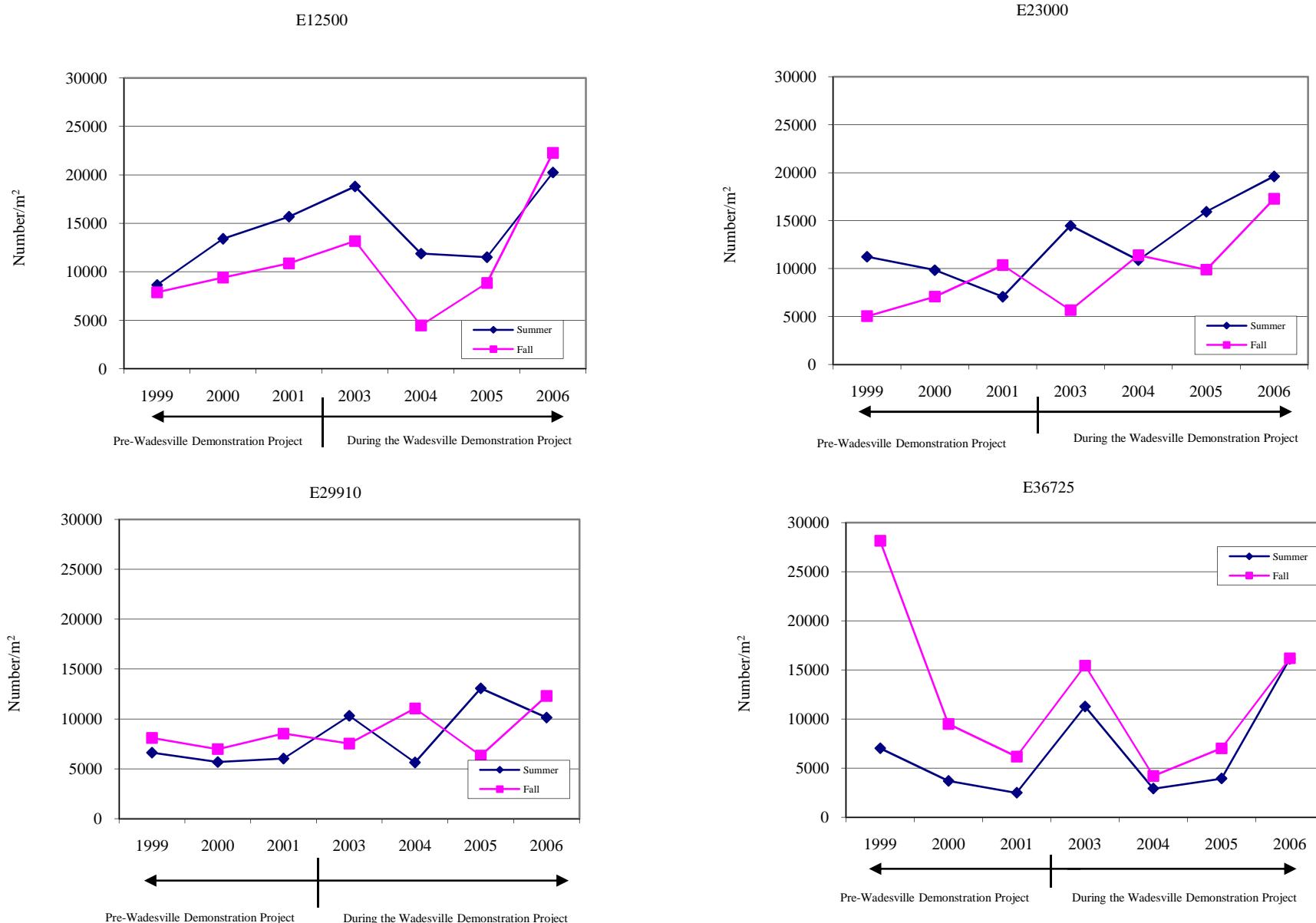
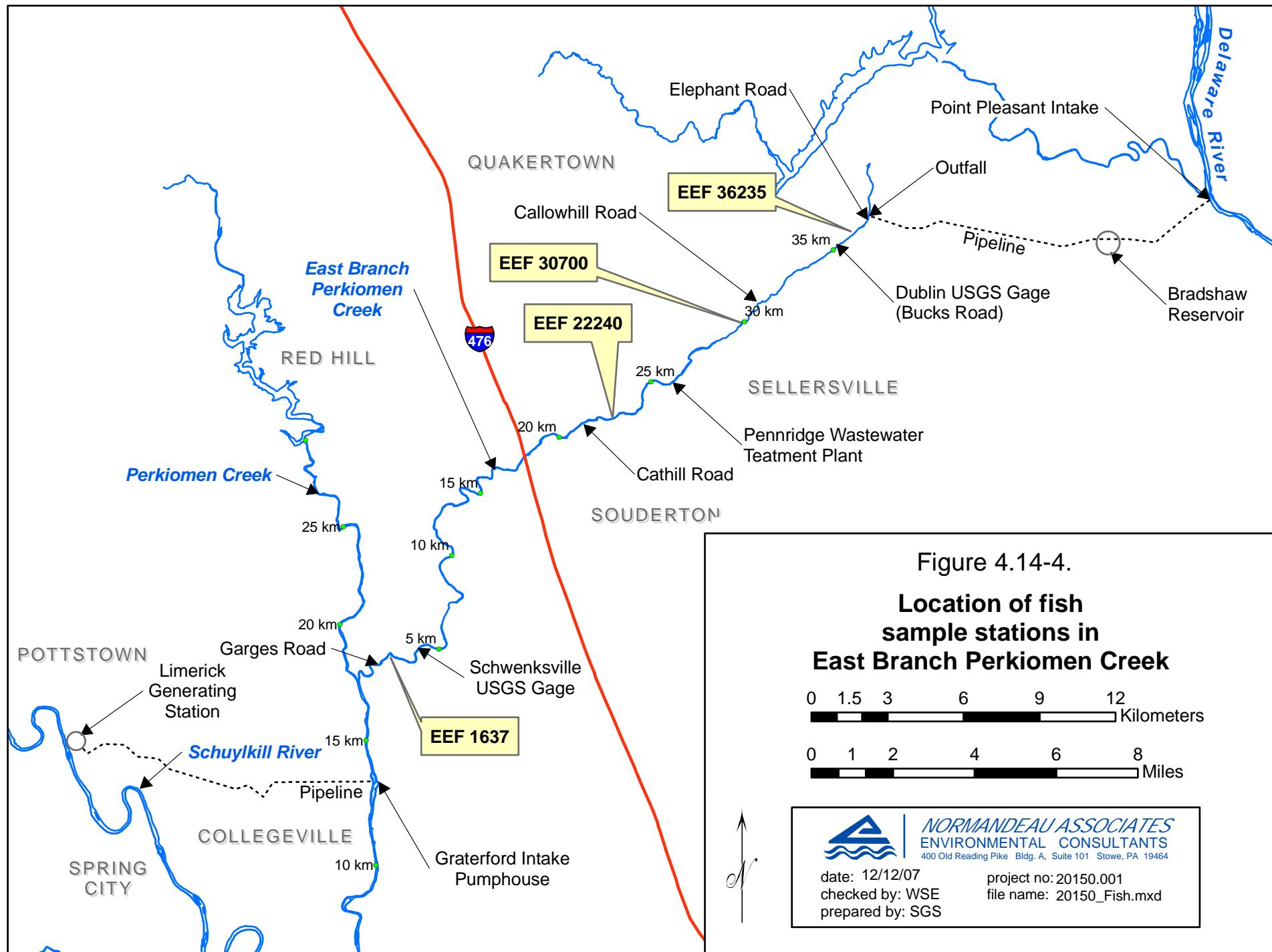


Figure 4.14-3. Mean density of macroinvertebrates collected at the four EBPC stations, 1999-2006.



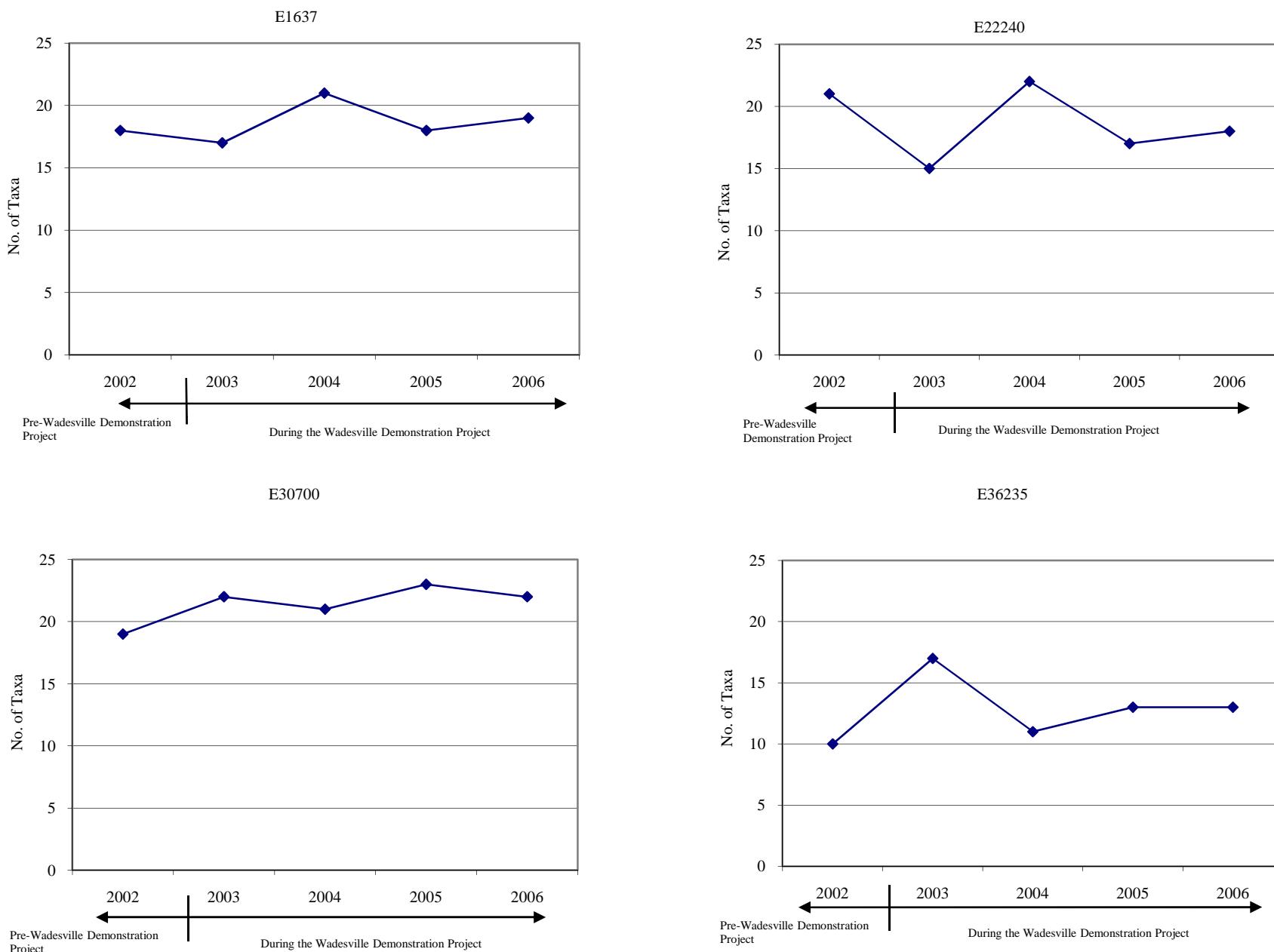


Figure 4.14-5. Total number of fish taxa collected at the four EBPC stations, 2002-2006.

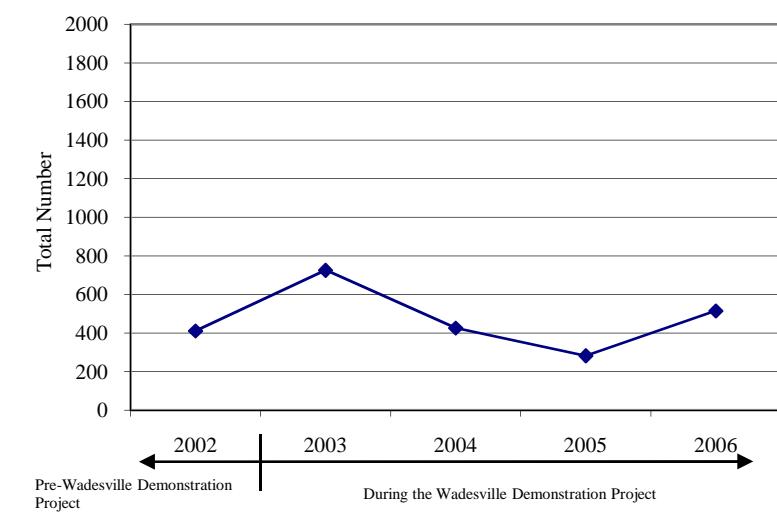
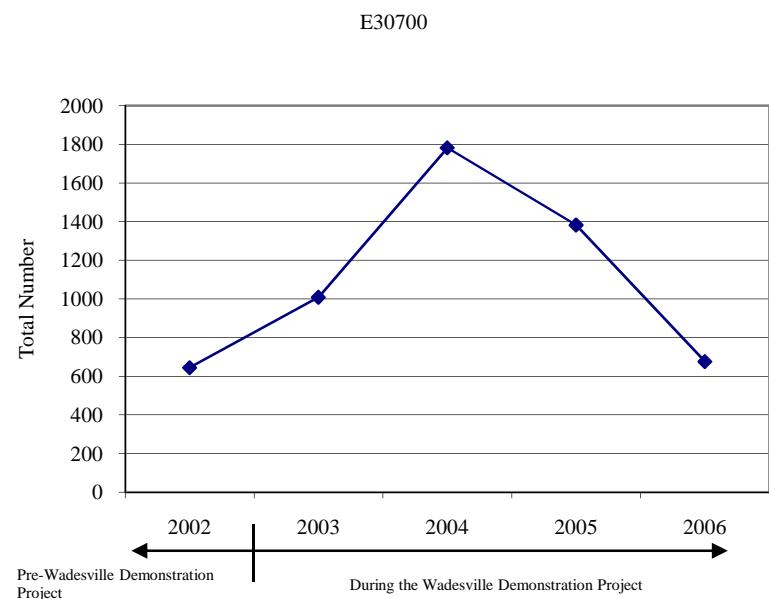
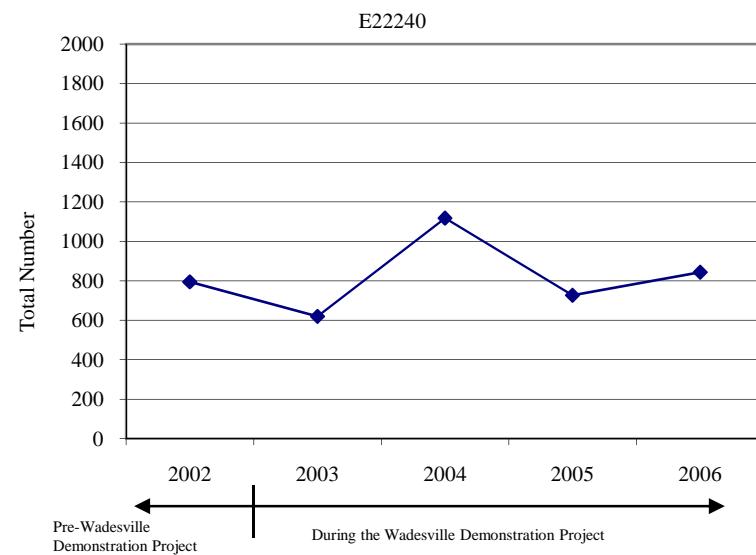
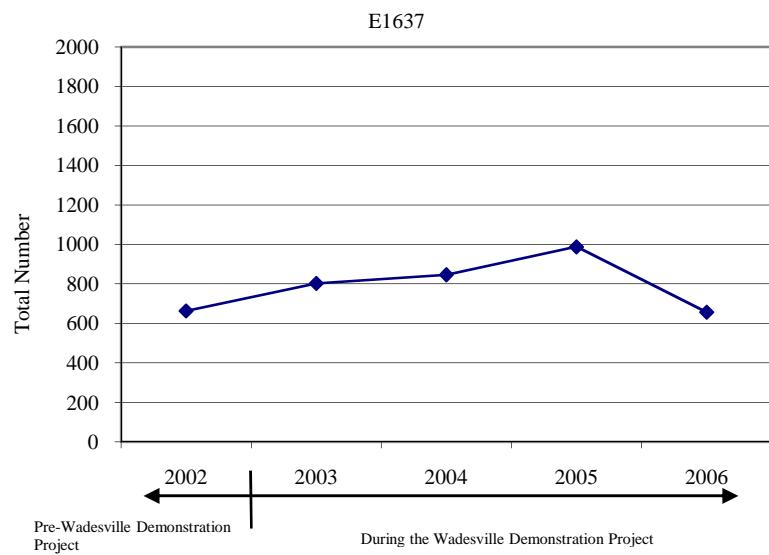


Figure 4.14-6. Total number of fish collected at four stations on the EBPC, 2002-2006.