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**Continuous dissolved oxygen, temperature, pH, and specific conductivity results –
Point and Fischer Creeks in the Sevenmile/Silver Creek Watershed– Baseline
wadeable sites - 2004. Prepared by Mary Gansberg**

Methods

Continuous water quality monitoring was done on two streams in the Sevenmile/Silver Creek Watershed from June 16 to August 29, 2004 using a Hydrolab Multiparameter water quality monitoring instrument. Wisconsin Administrative Code NR 102 establishes water quality standards to maintain favorable aquatic life. For fish and aquatic life classified streams (warm water), dissolved oxygen content may not be lowered to less than 5 mg/l at any time, water temperature shall not exceed 89°F (31.7°C), and pH shall be within the range of 6.0 to 9.0.

Results

Point Creek WBIC 66000

Point Creek just off CTH X at Wayne Schuette's property maintained good water quality throughout the monitoring period.

Dissolved oxygen values ranged from 5.4 to 9.3 mg/l with a mean of 7.3 mg/l. Normal daily fluctuations occurred with oxygen being the lowest in early morning hours and highest during daylight photosynthesis periods. However, oxygen concentrations never dropped below the 5 mg/l state standard at any time during the monitoring period. Water temperature ranged from 14 to 21.8°C (57 to 71°F) with a mean of 16.6°C (62°F). Water temperature did not exceed the 89°F state standard at any time during the monitoring period. pH was normal with a range from 7.6 to 8.3 with a mean of 8.0. pH is well within the 6 to 9 state standard. Specific conductivity values ranged from 520 to 705 with a mean of 658 uS/cm. These concentrations are normal for streams in this area.

Fischer Creek WBIC 65800

Fischer Creek at Centerville Road maintained good water quality throughout the monitoring period.

Dissolved oxygen values ranged from 5.2 to 8.4 mg/l with a mean of 6.7 mg/l. Normal daily fluctuations occurred with oxygen being the lowest in early morning hours and highest during daylight photosynthesis periods. However, oxygen concentrations never dropped below the 5 mg/l state standard at any time during the monitoring period. Water temperature ranged from 10.9 to 18.4°C (52 to 65°F) with a mean of 14.7°C (58.5°F). Water temperature did not exceed the 89° F state standard at any time during the monitoring period. pH was normal with a range from 7.4 to 8.2 with a mean of 7.8. pH is well within the 6 to 9 state standard. Specific conductivity values ranged from 659 to 773 with a mean of 742 uS/cm. These concentrations are normal for streams in this area.

Below are seven graphs displaying the water quality data collected.

Point Creek graphs

Figure 1: June 17 - 22, 2004

Figure 2: July 7 - 16, 2004

Figure 3: July 16 - August 2, 2004

Figure 4: August 11 - 29, 2004

Fischer Creek graphs

Figure 5: June 16 - July 7, 2004

Figure 6: July 16 - July 31, 2004

Figure 7: August 11 - 29, 2004

Figure 1.

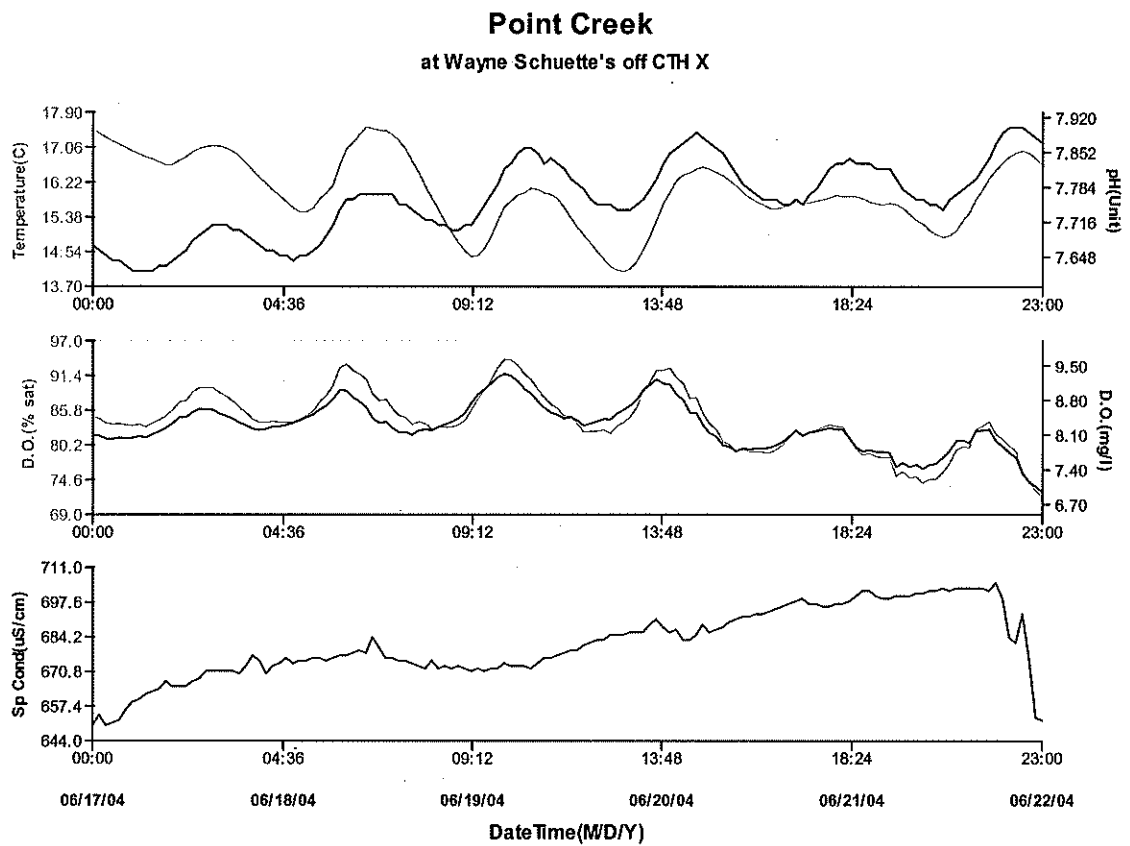


Figure 2.

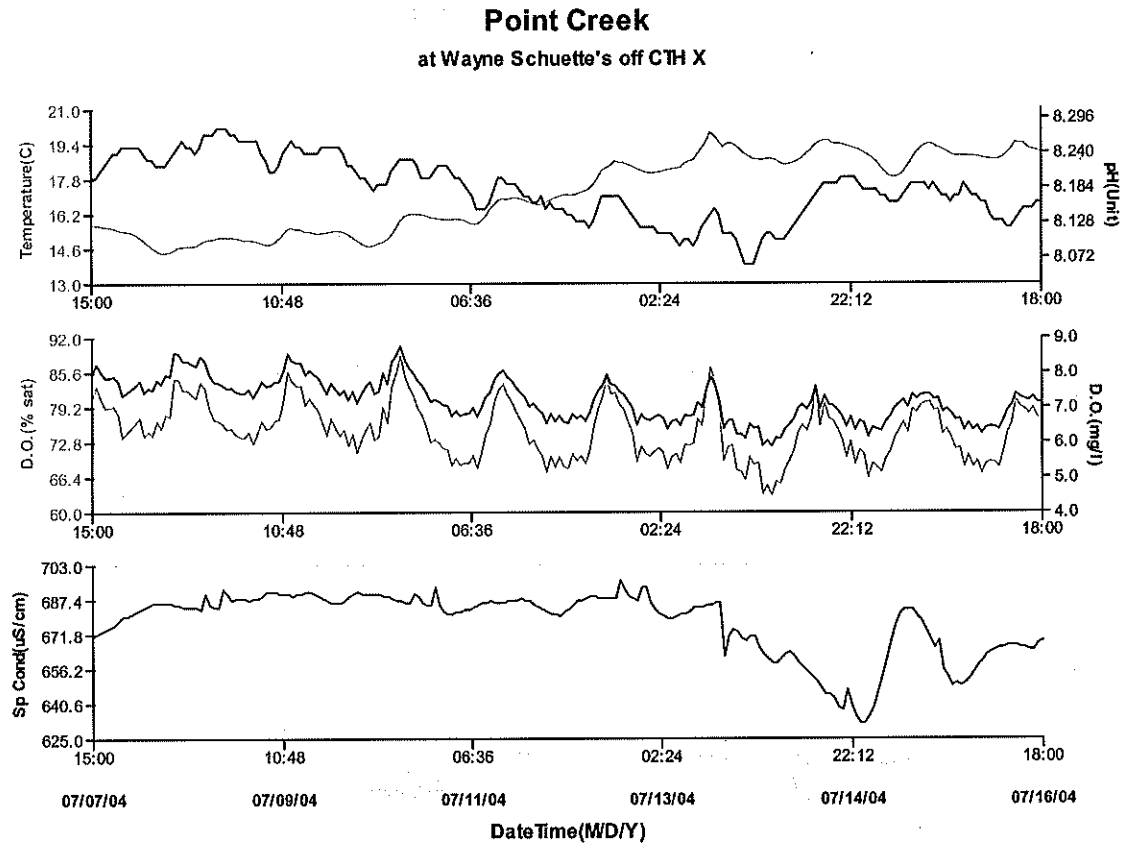


Figure 3.

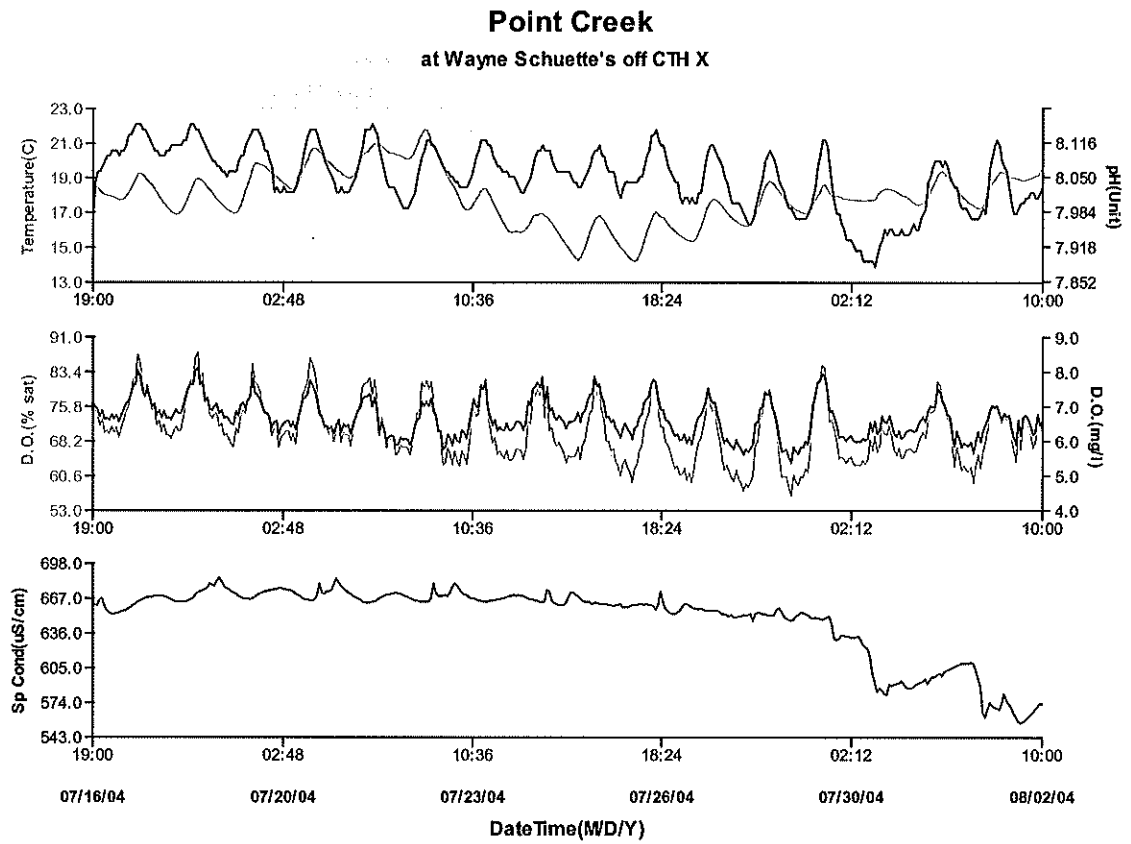


Figure 4.

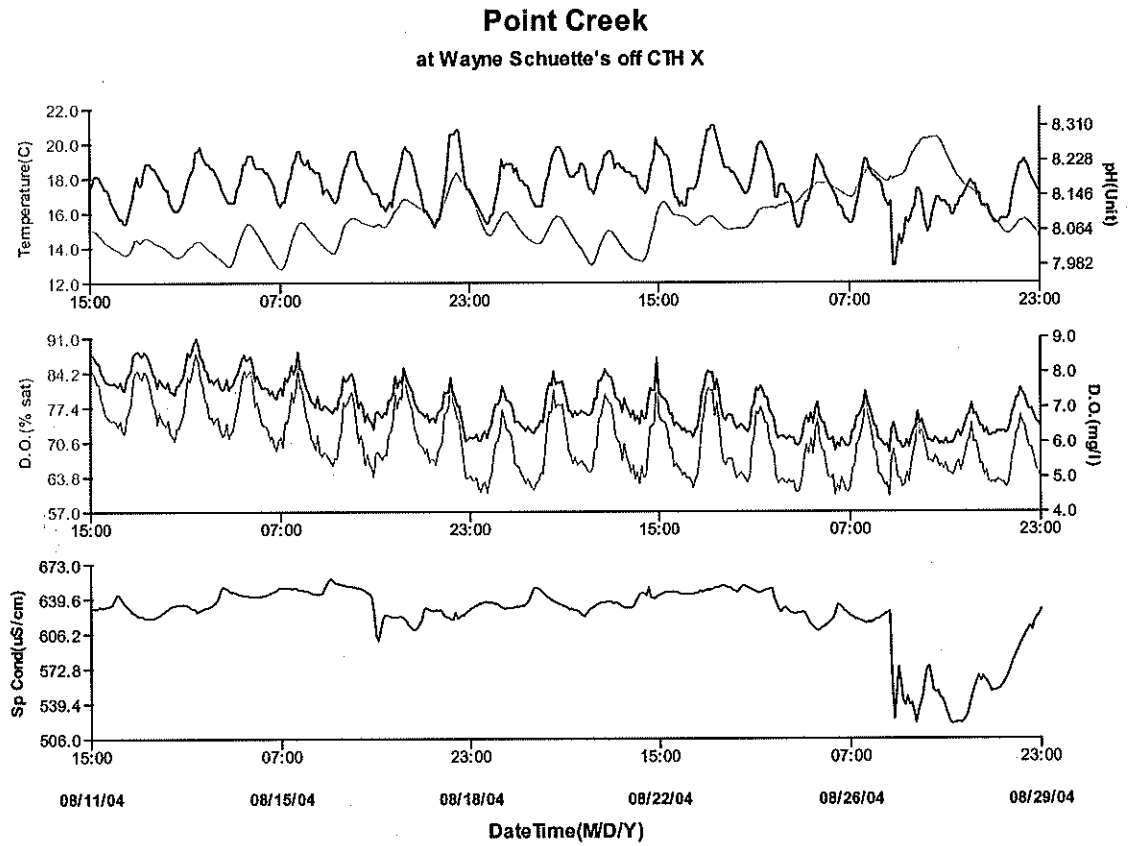


Figure 5.

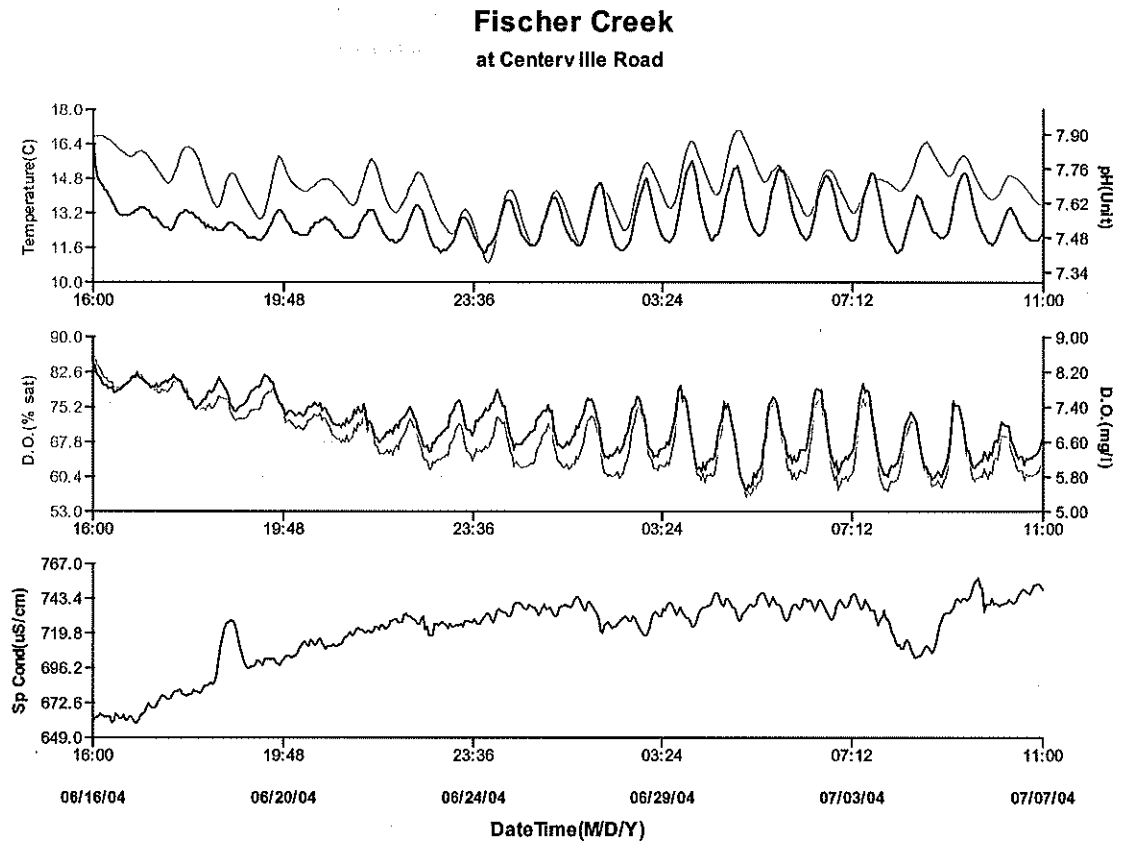


Figure 6.

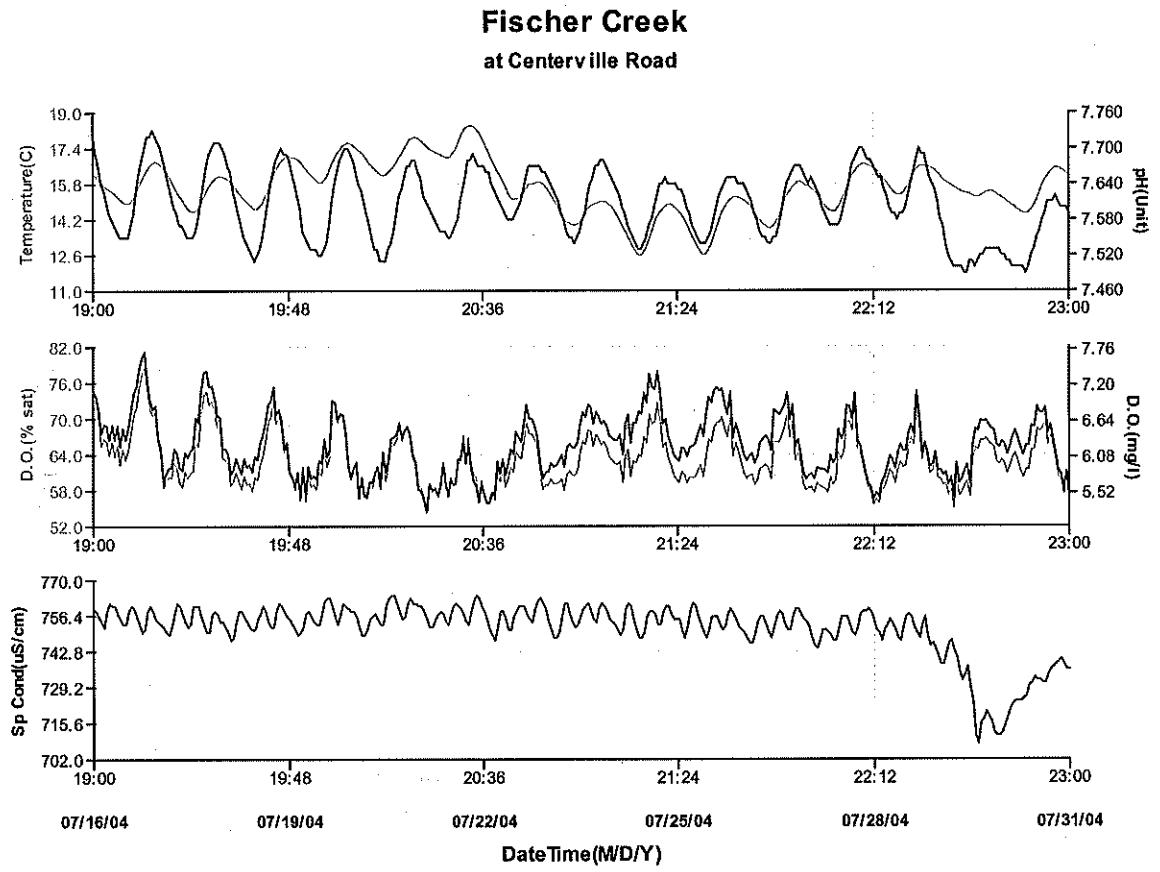


Figure 7.

