APPENDIX C

2015 Tributary Hydrographs

[This page intentionally left blank.]

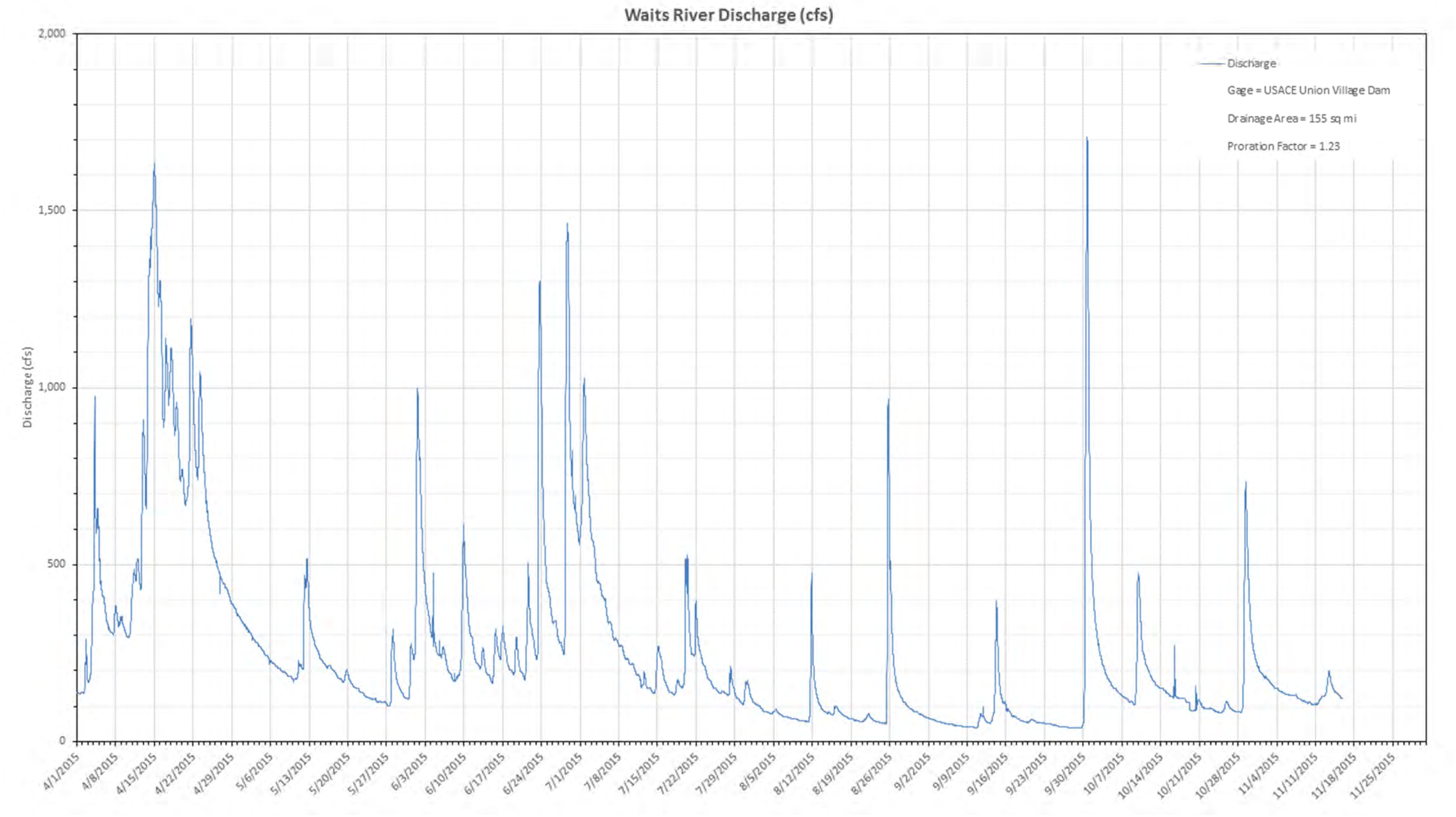

Figure C-1. 2015 Waits River hydrograph of the study period from April 1 through November 15. Discharge estimated and prorated based on Ompompanoosuc River discharges.

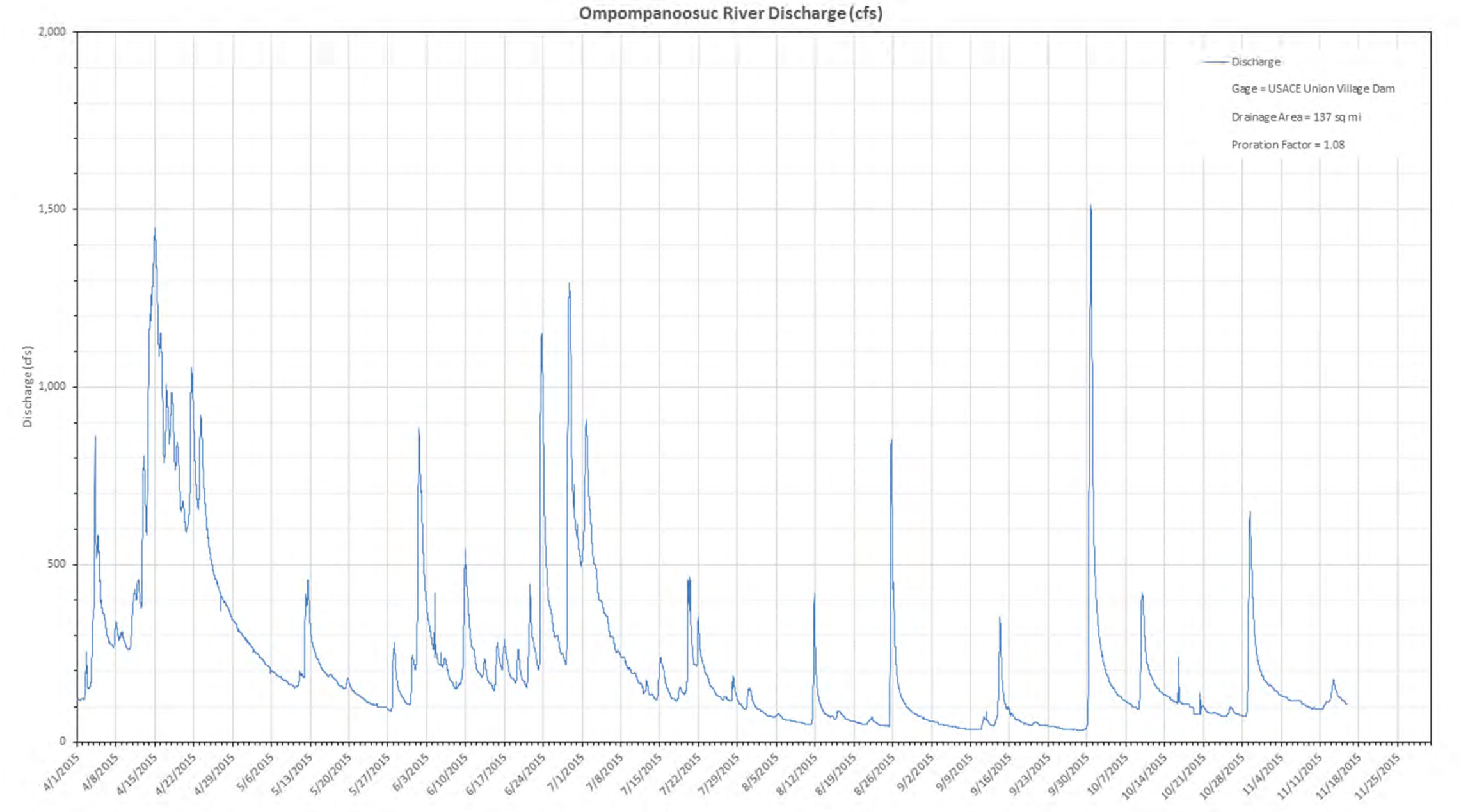

Figure C-2. 2015 Ompompanoosuc River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated outflows at Union Village Dam.

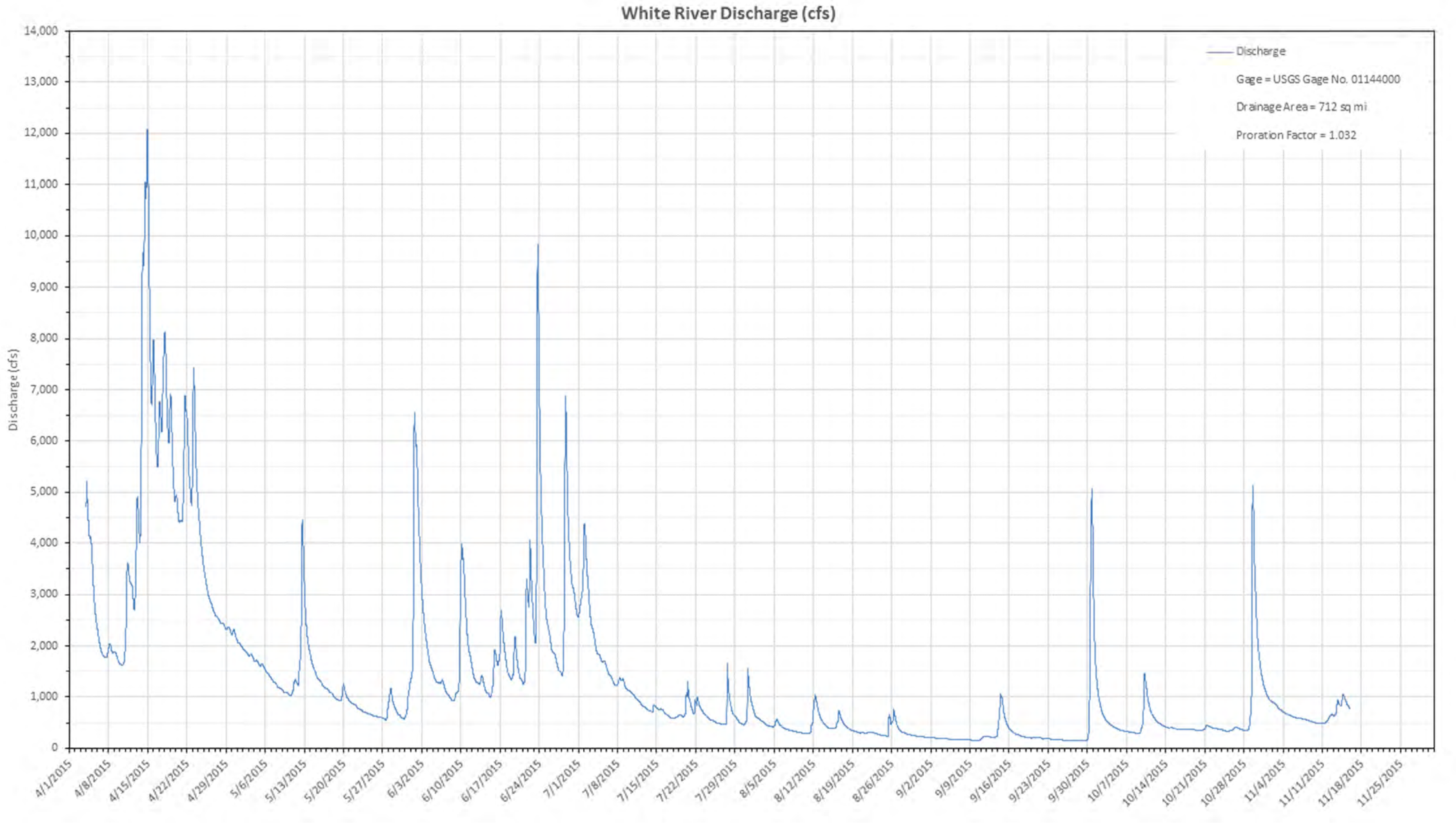

Figure C-3. 2015 White River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flows at USGS Gage No. 01144000.

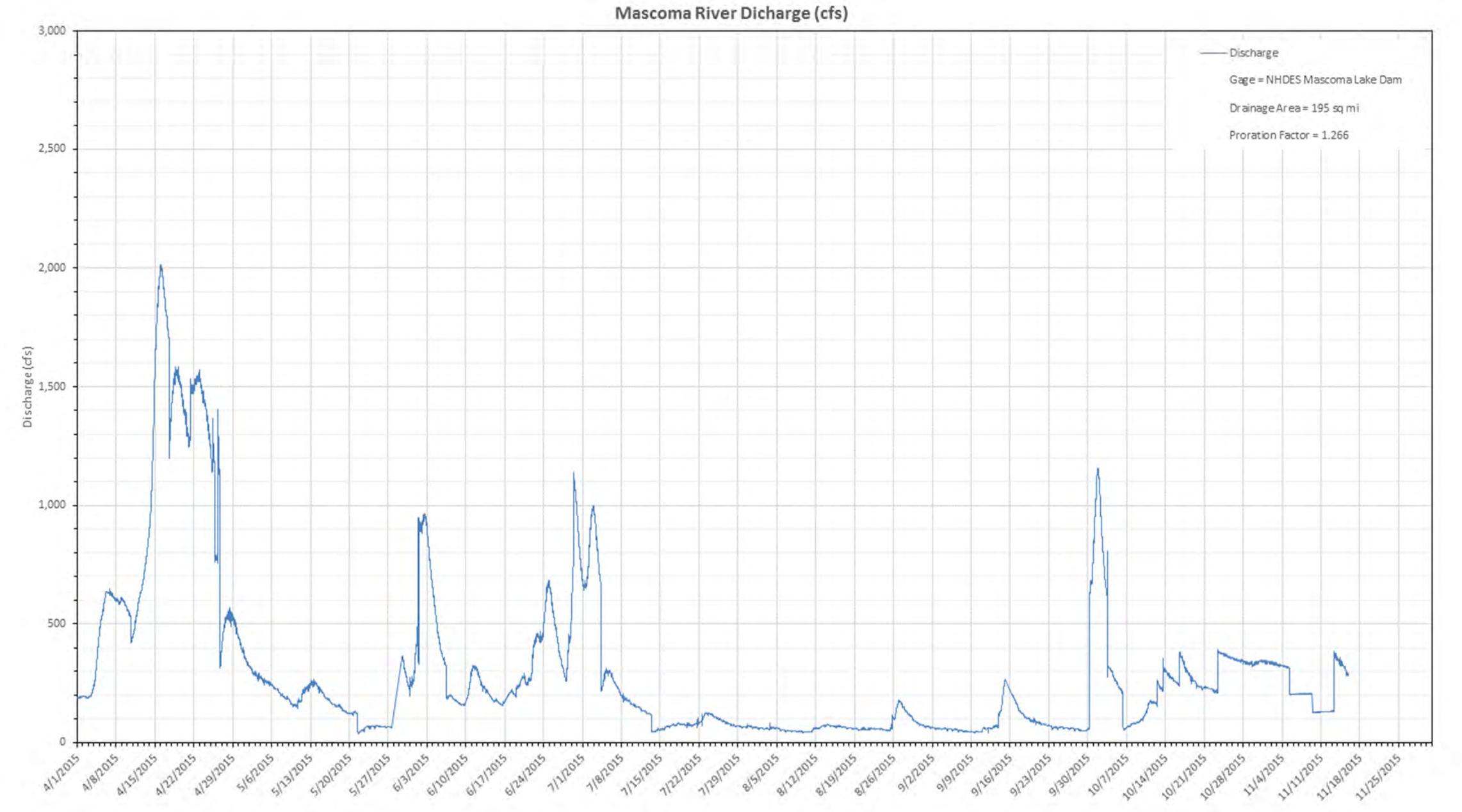

Figure C-4. 2015 Mascoma River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated outflows at Mascoma Lake Dam.

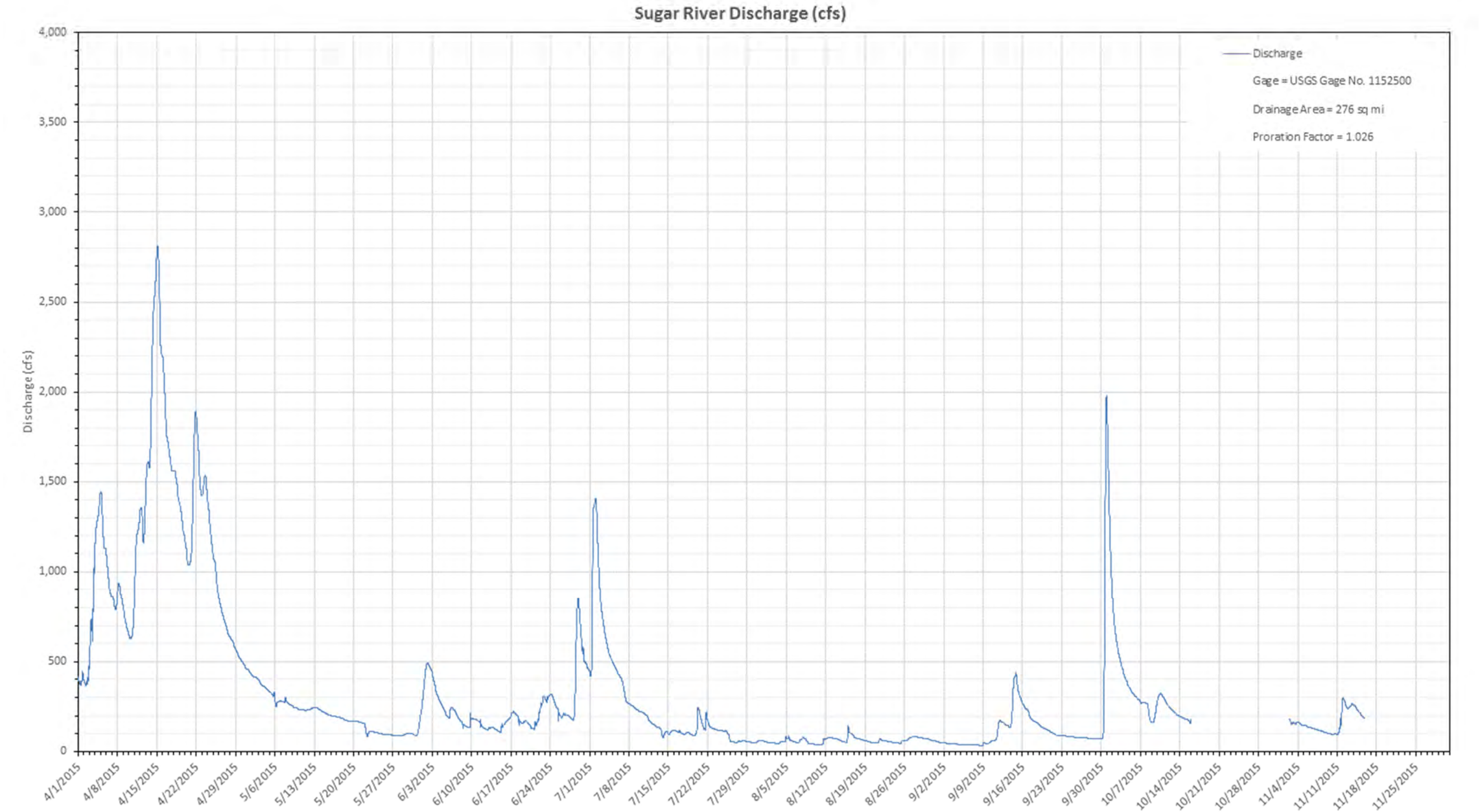

Figure C-5. 2015 Sugar River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at USGS Gage No. 01152500.

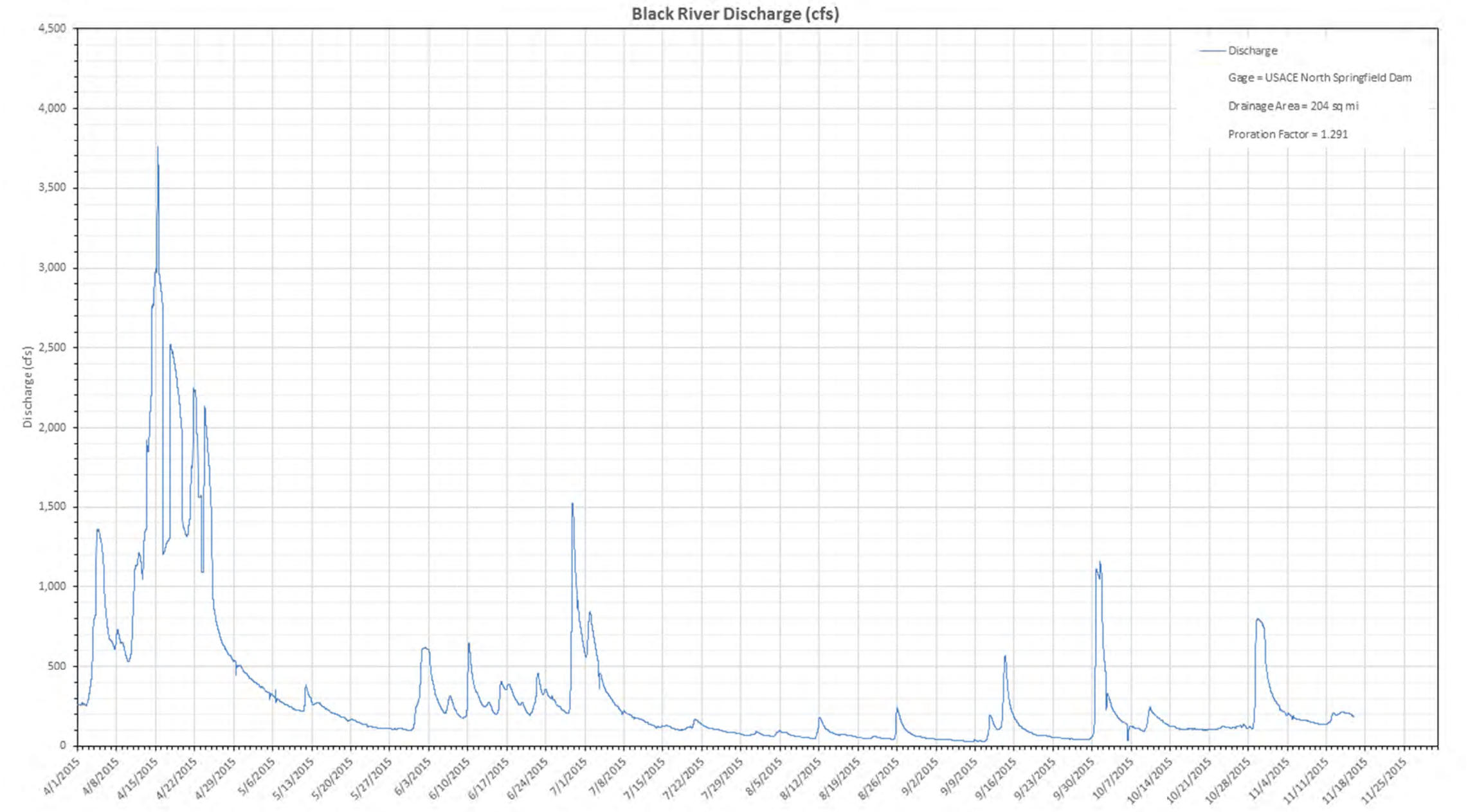

Figure C-6. 2015 Black River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at North Springfield Dam.

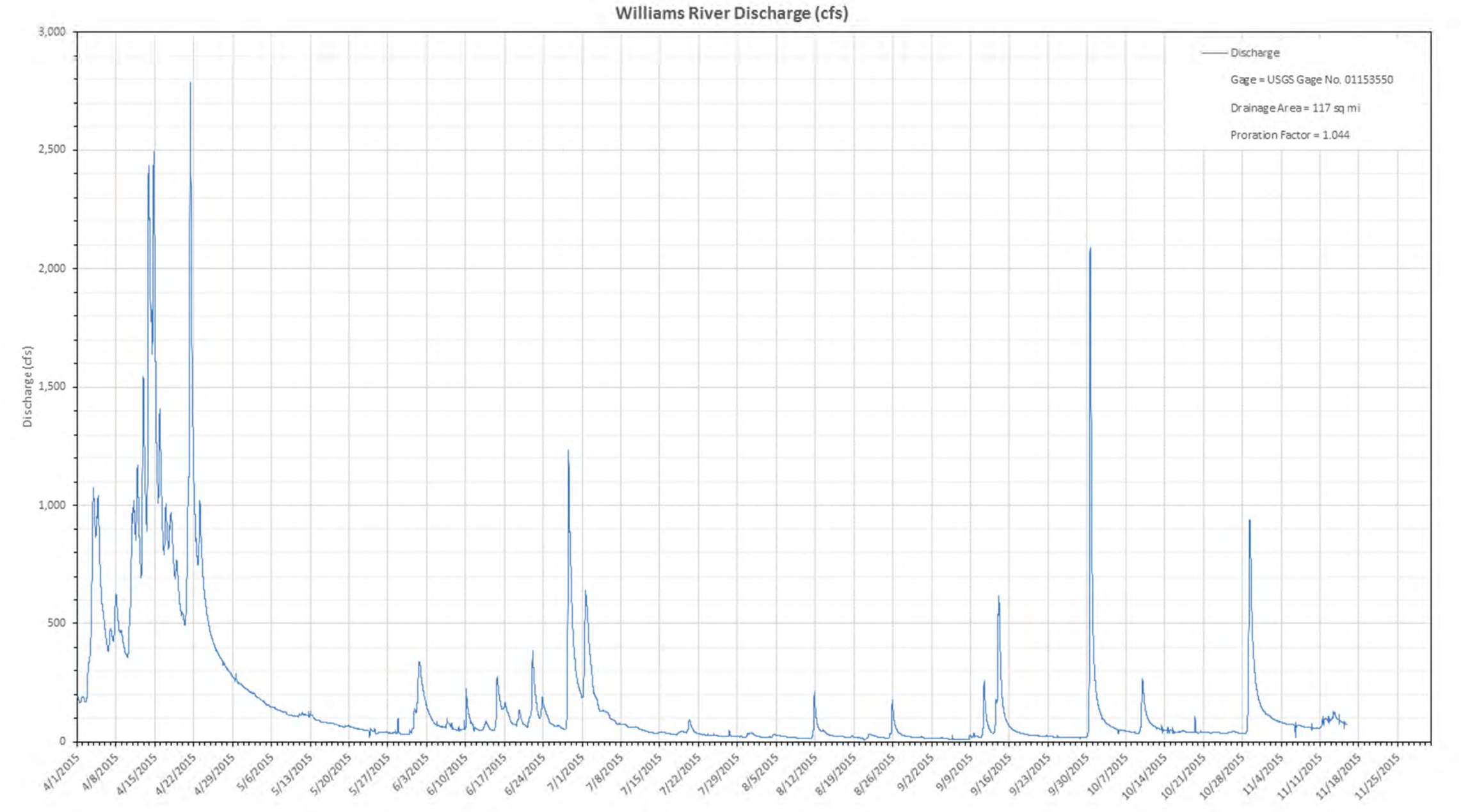

Figure C-7. 2015 Williams River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at USGS Gage No. 01153550.

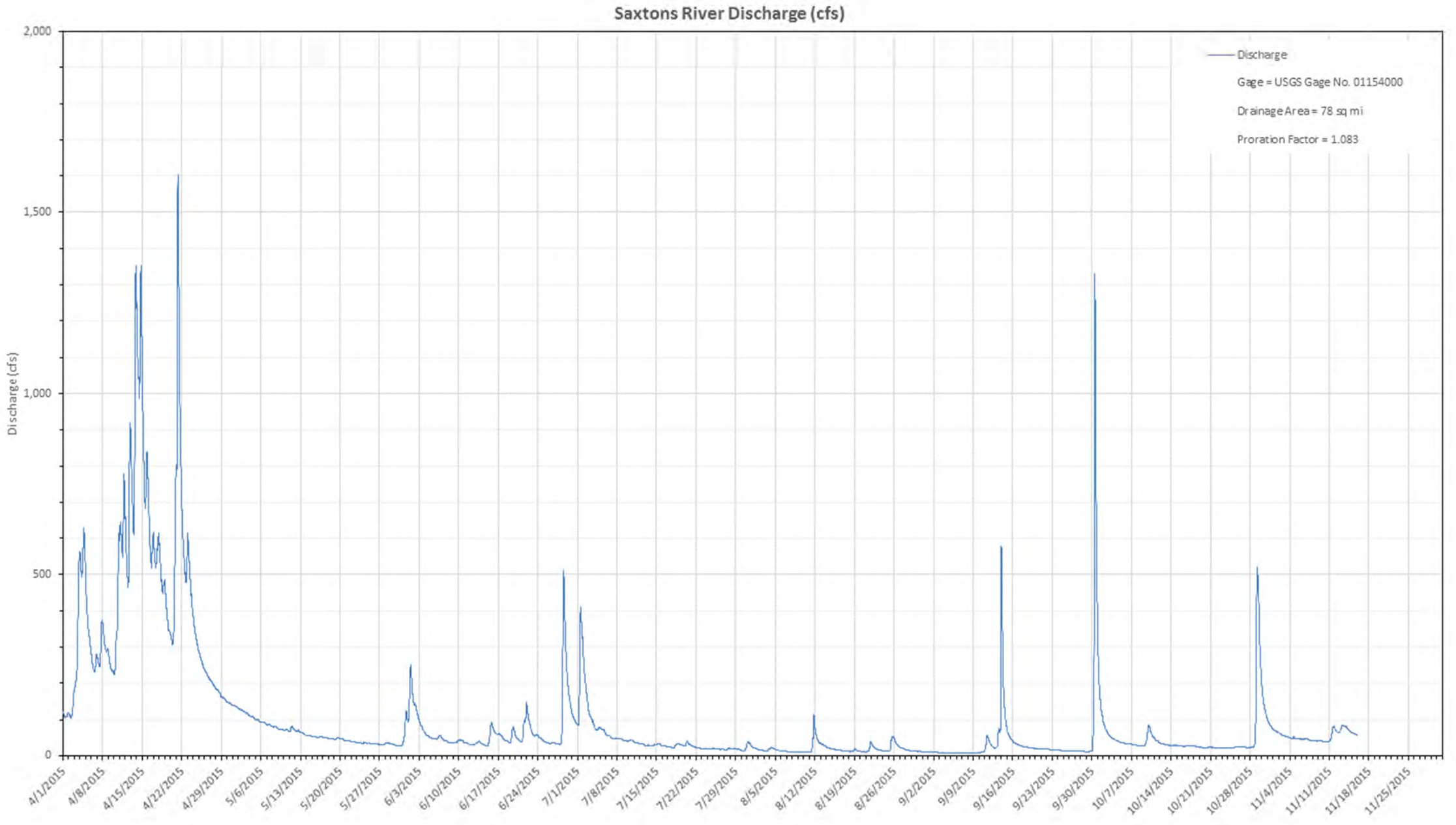

Figure C-8. 2015 Saxtons River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at USGS Gage No. 01154000.

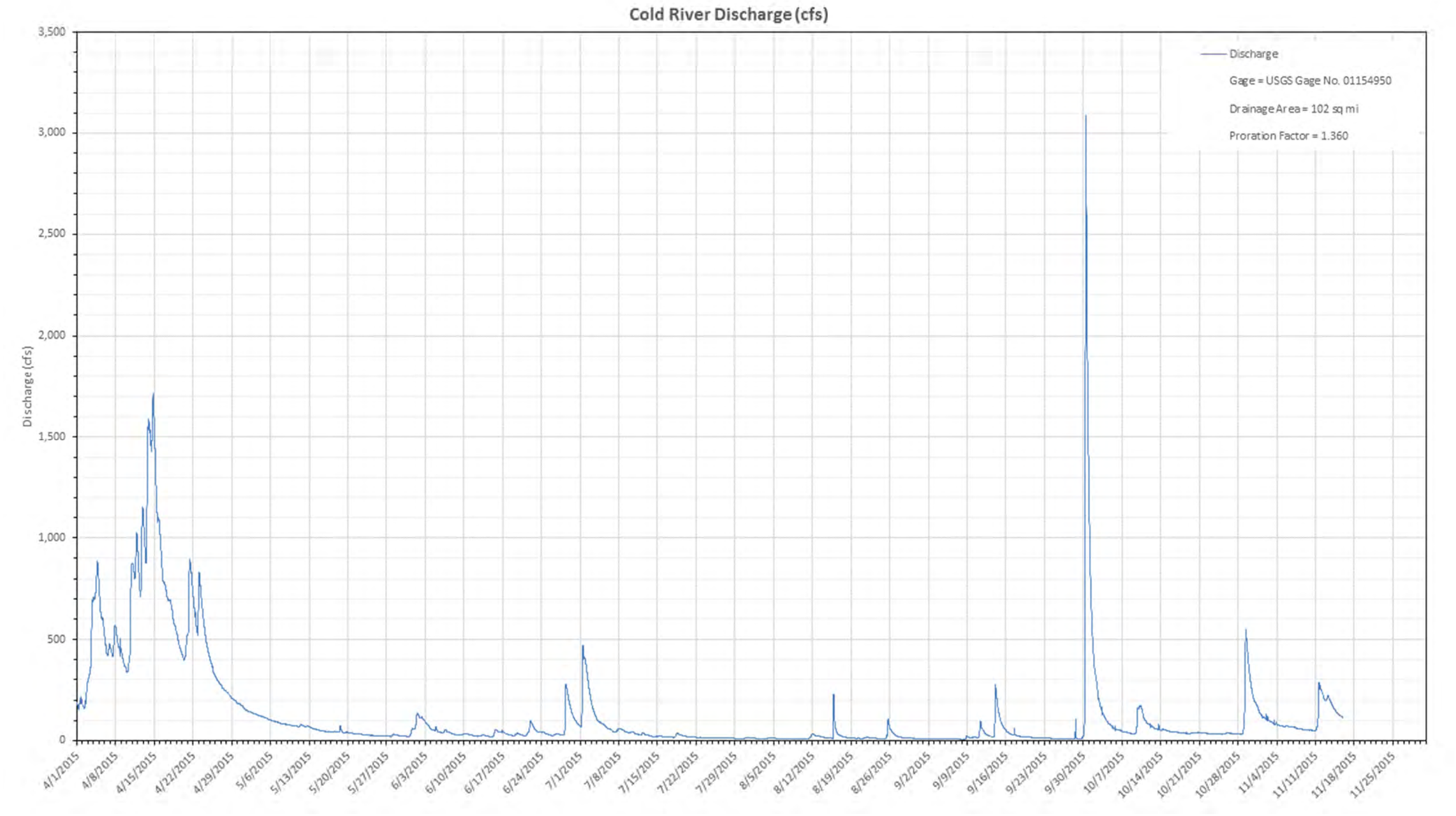

Figure C-9. 2015 Cold River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at USGS Gage No. 01154950.

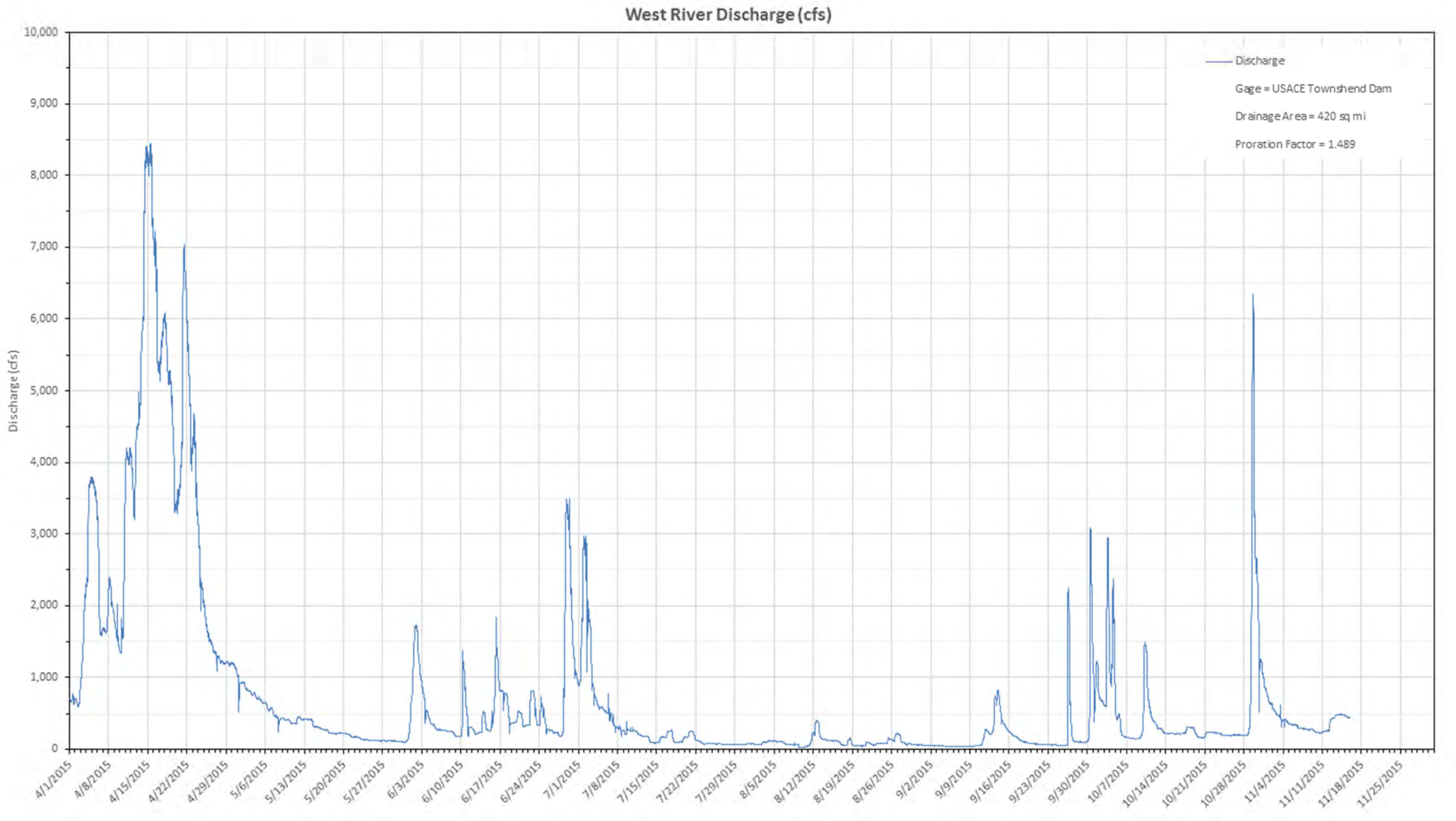

Figure C-10. 2015 West River hydrograph of the study period from April 1 through November 15. Discharges estimated based on prorated flow at Townshend Dam.

APPENDIX D

2015 Tributary Continuous Water Temperature Figures

[This page intentionally left blank.]

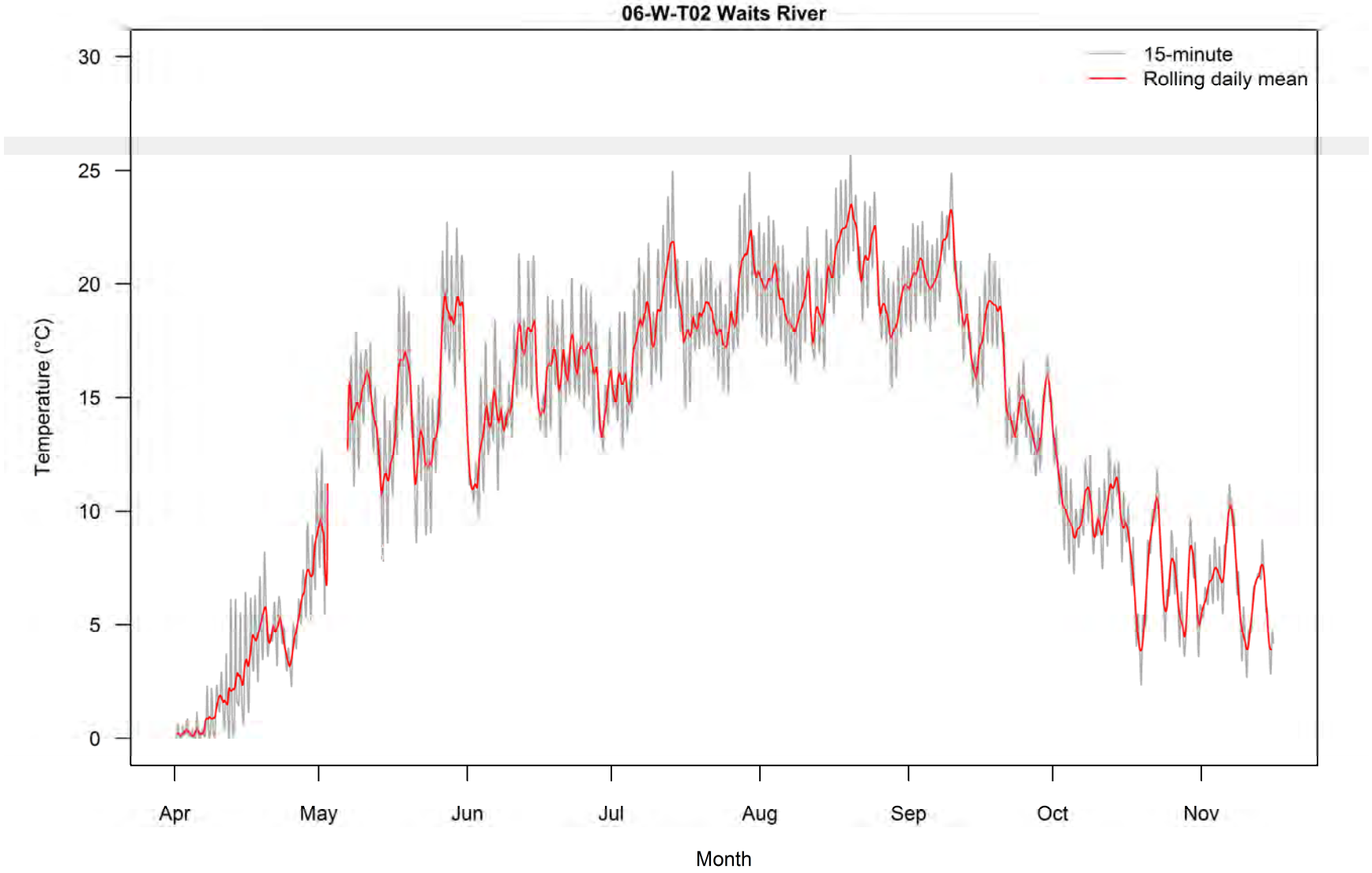

Figure D-1. Waits River water temperatures collected from April 1 through November 15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

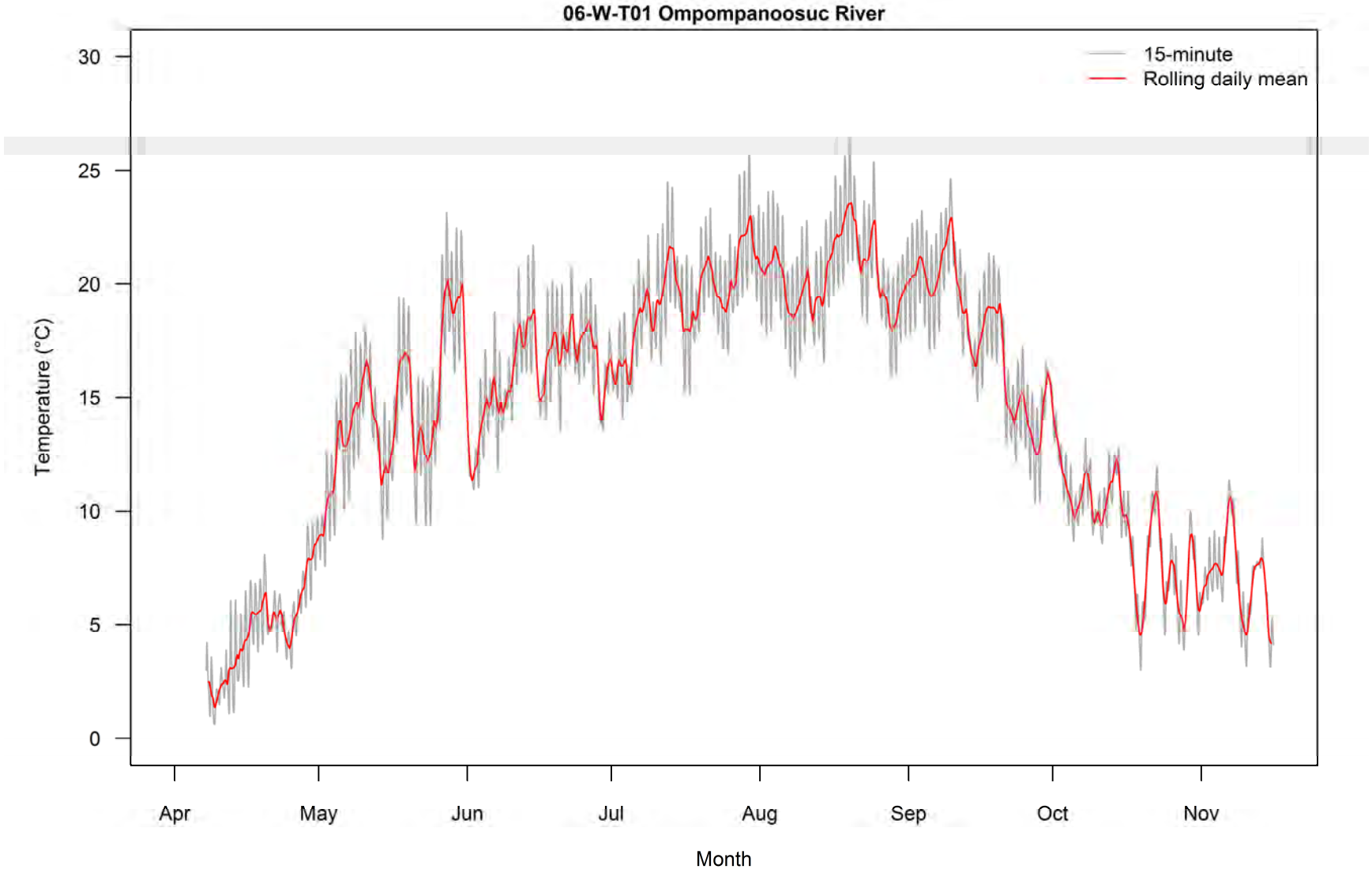

Figure D-2. Ompompanoosuc River water temperatures collected from April 7 through November 15, 2015.

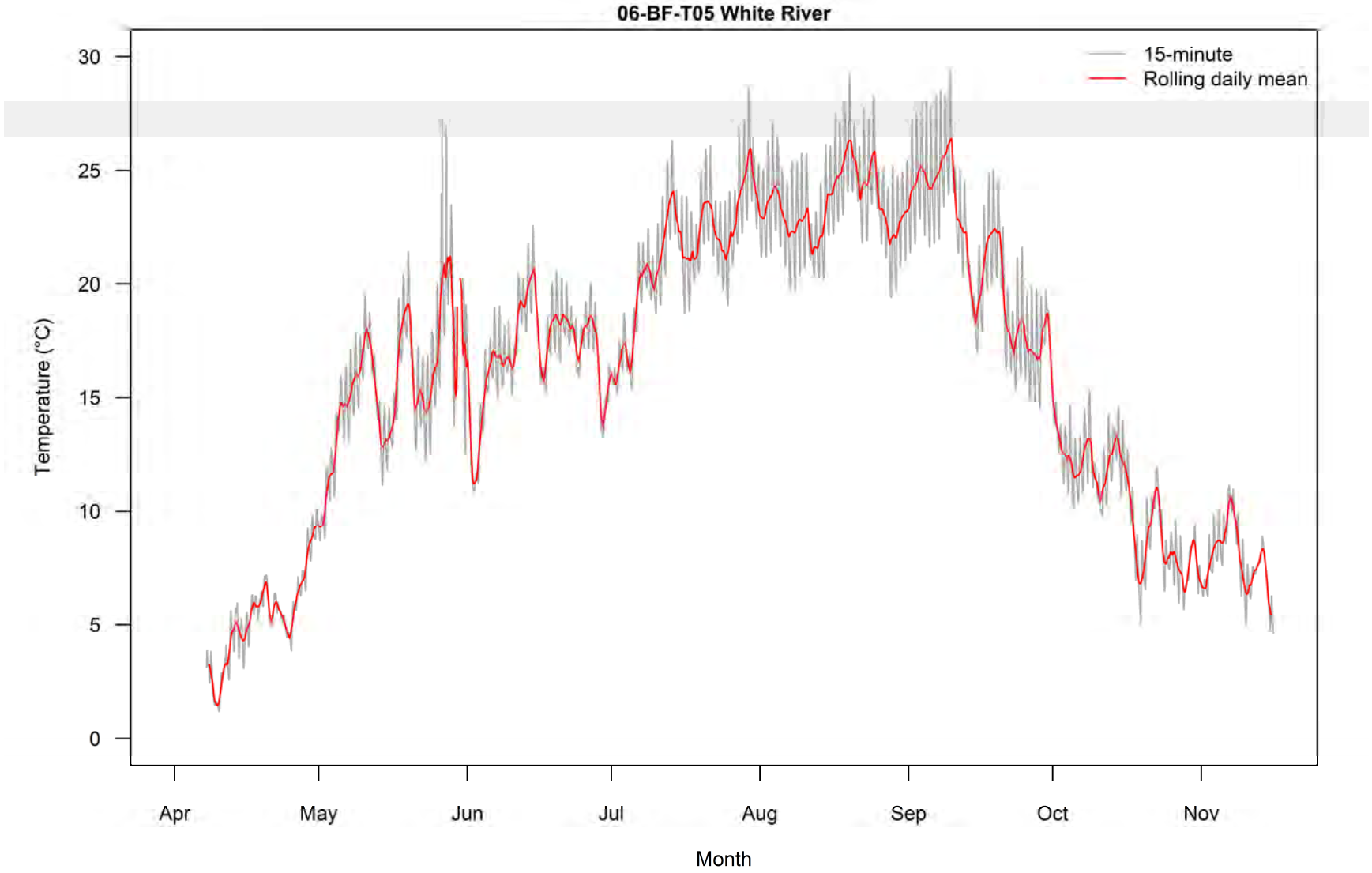

Figure D-3. White River water temperatures collected from April 7 through November 15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

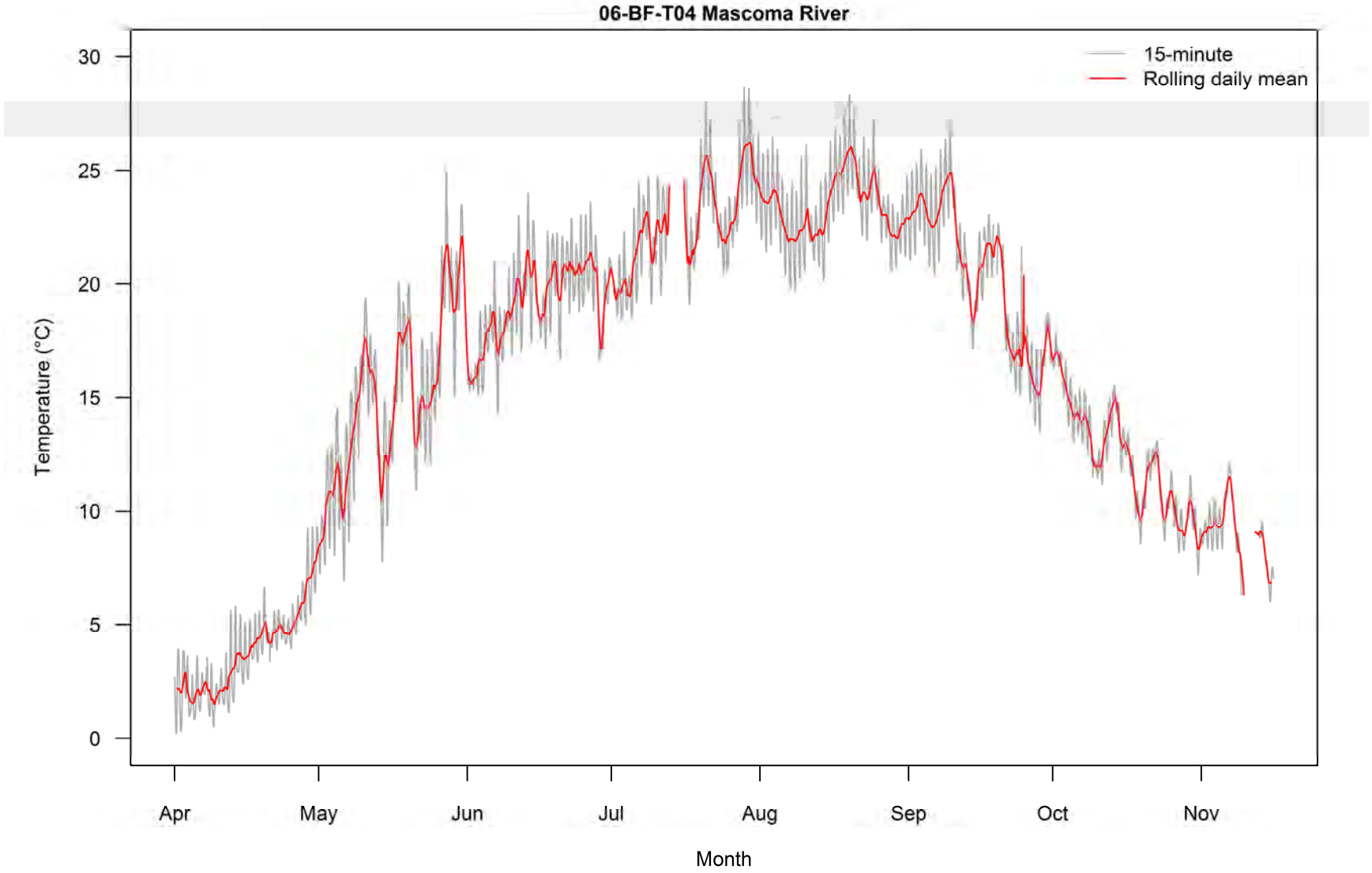

Figure D-4. Mascoma River water temperatures collected from April 1 through November 15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

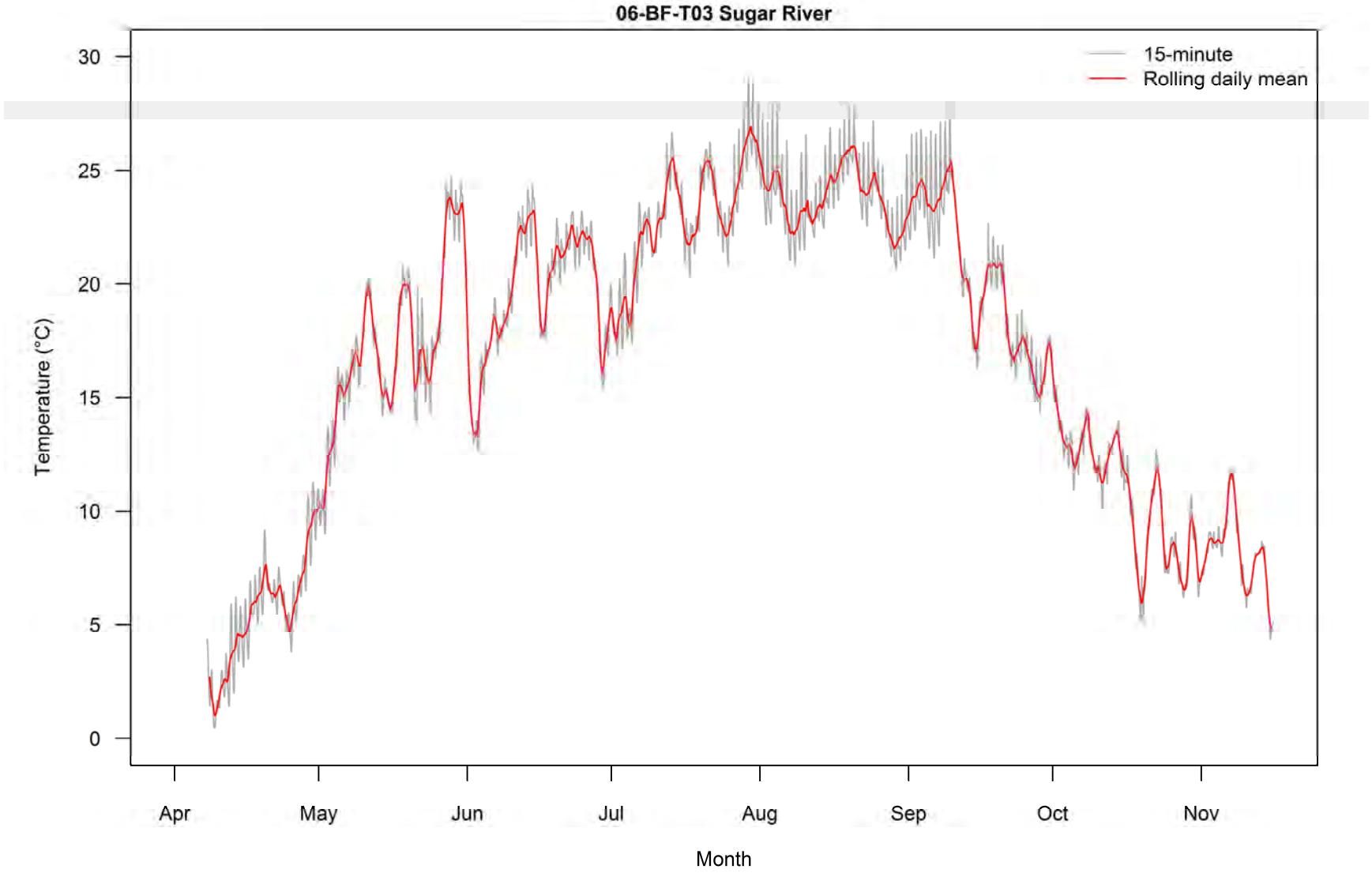

Figure D-5. Sugar River water temperatures collected from April 7 through November 15, 2015.

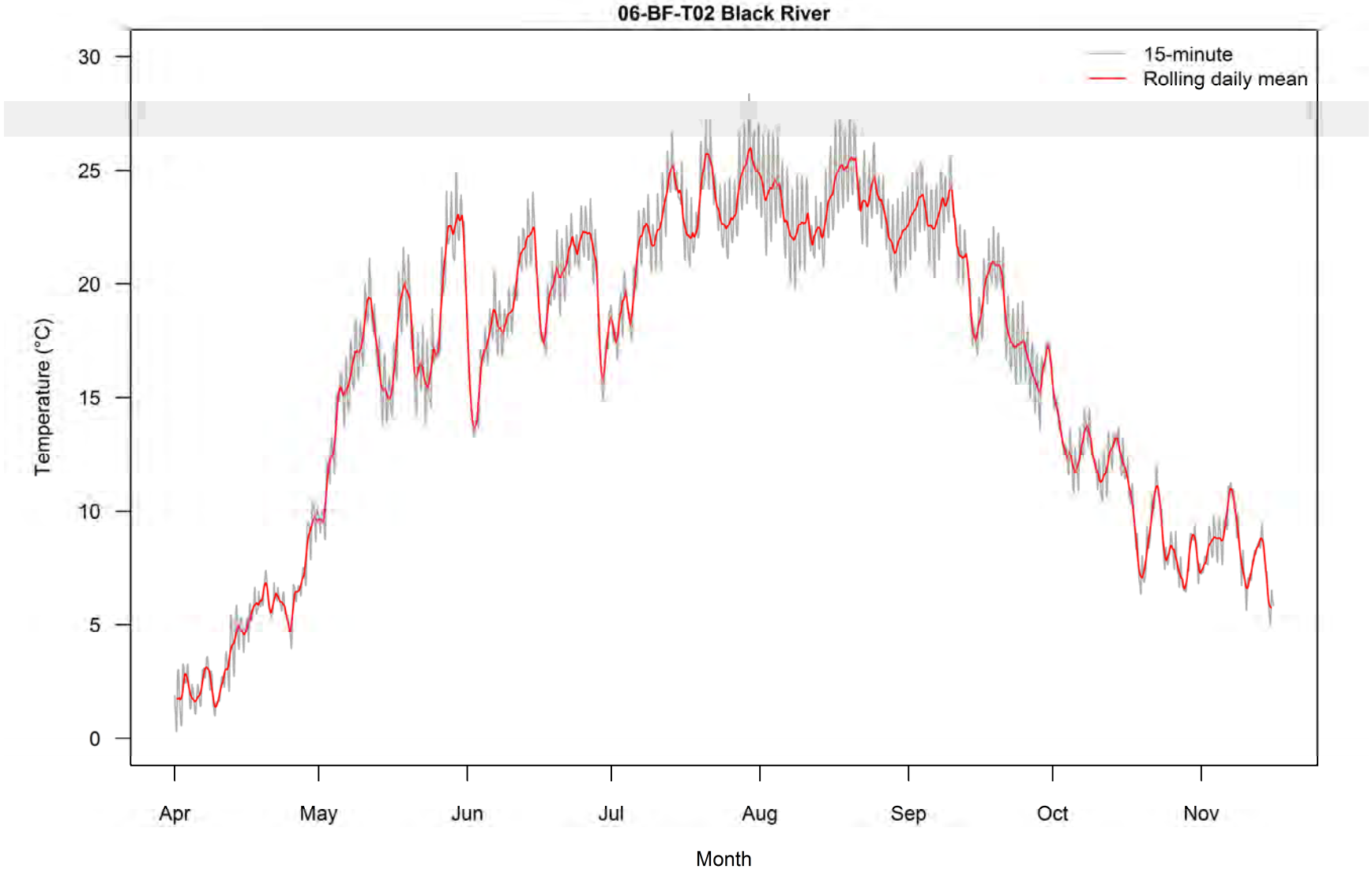

Figure D-6. Black River water temperatures collected from April 1 through November 15, 2015.

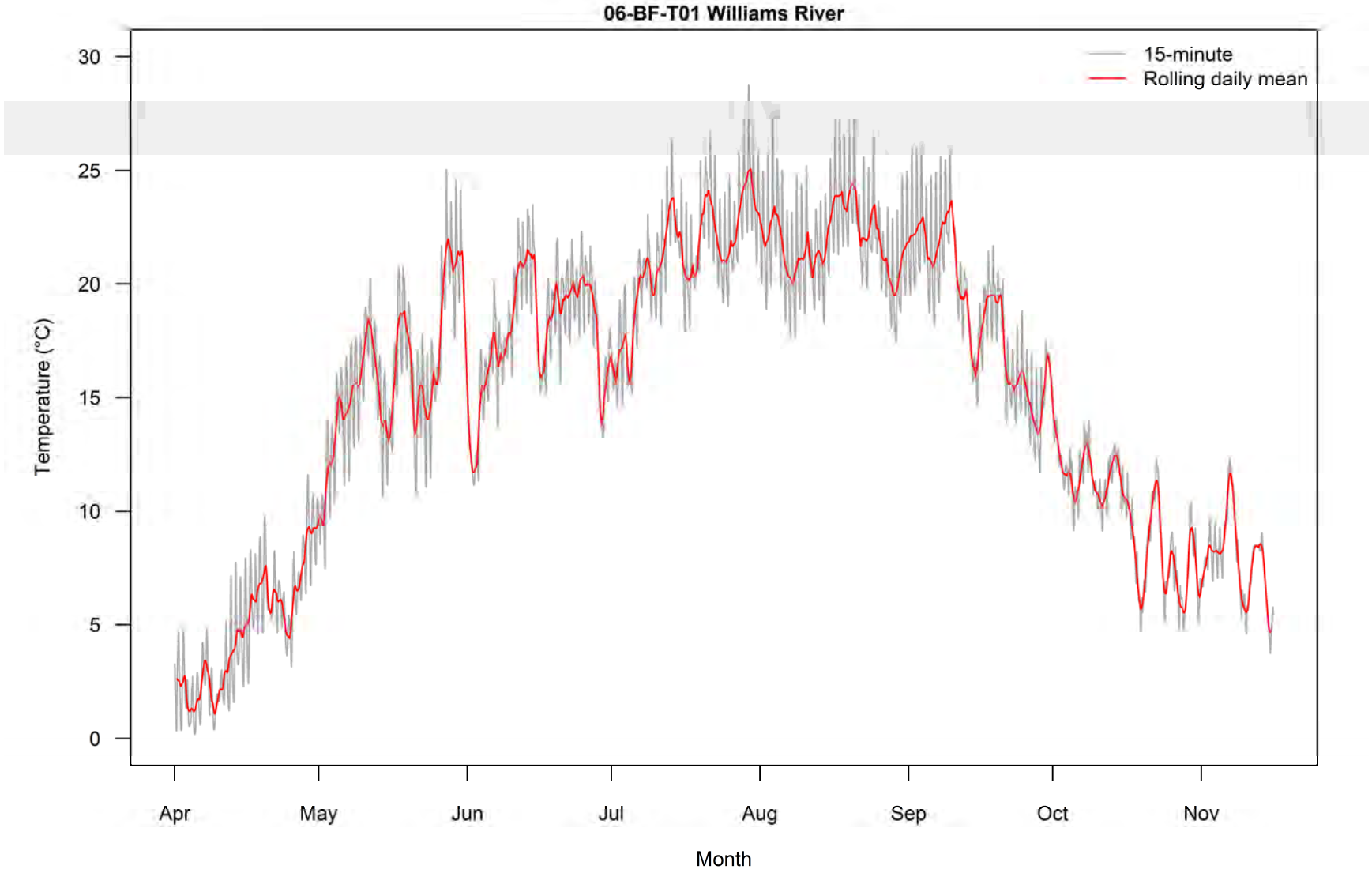

Figure D-7. Williams River water temperatures collected from April 1 through November 15, 2015.

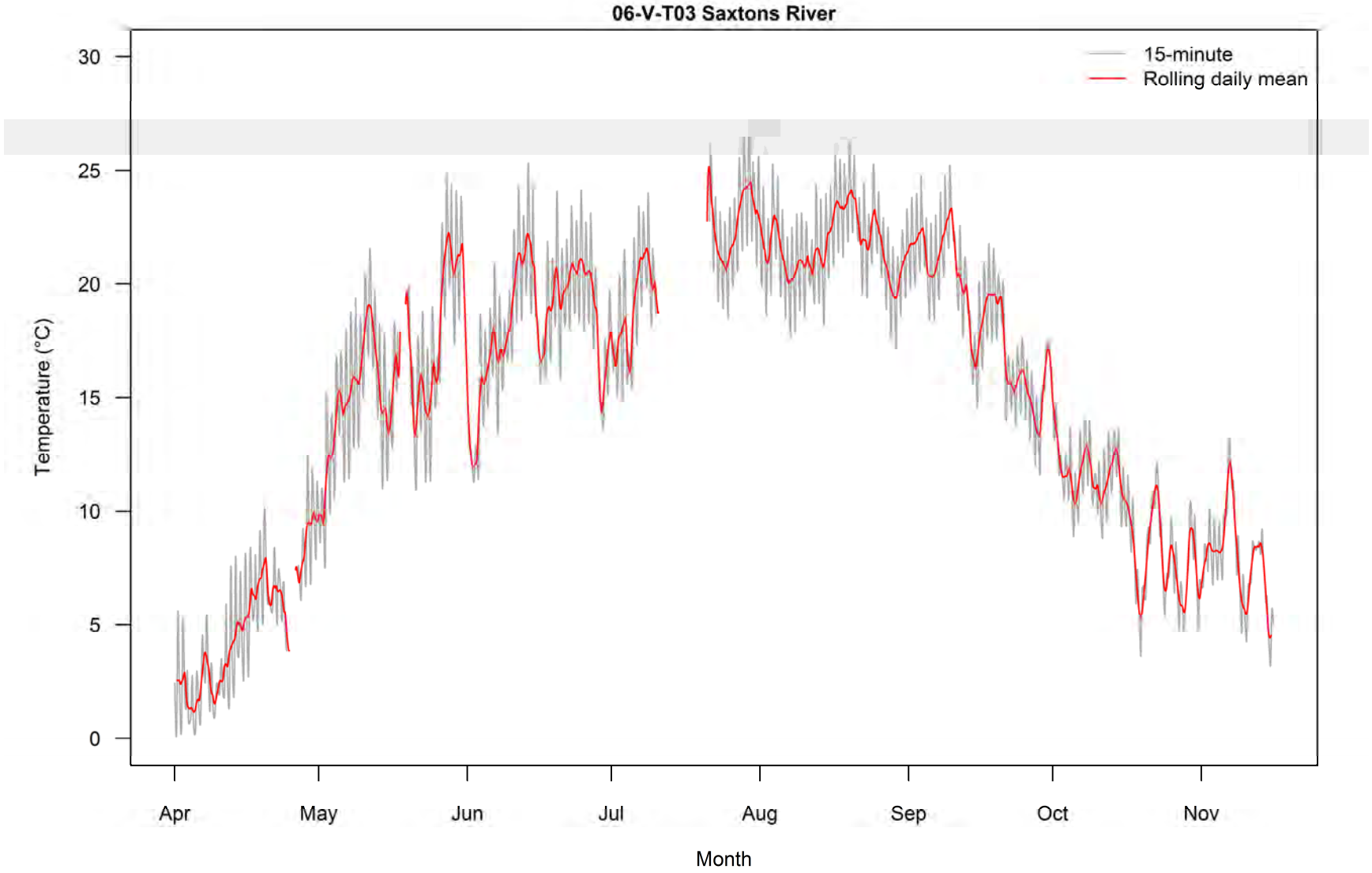

Figure D-8. Saxton River water temperatures collected from April 1 through November15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

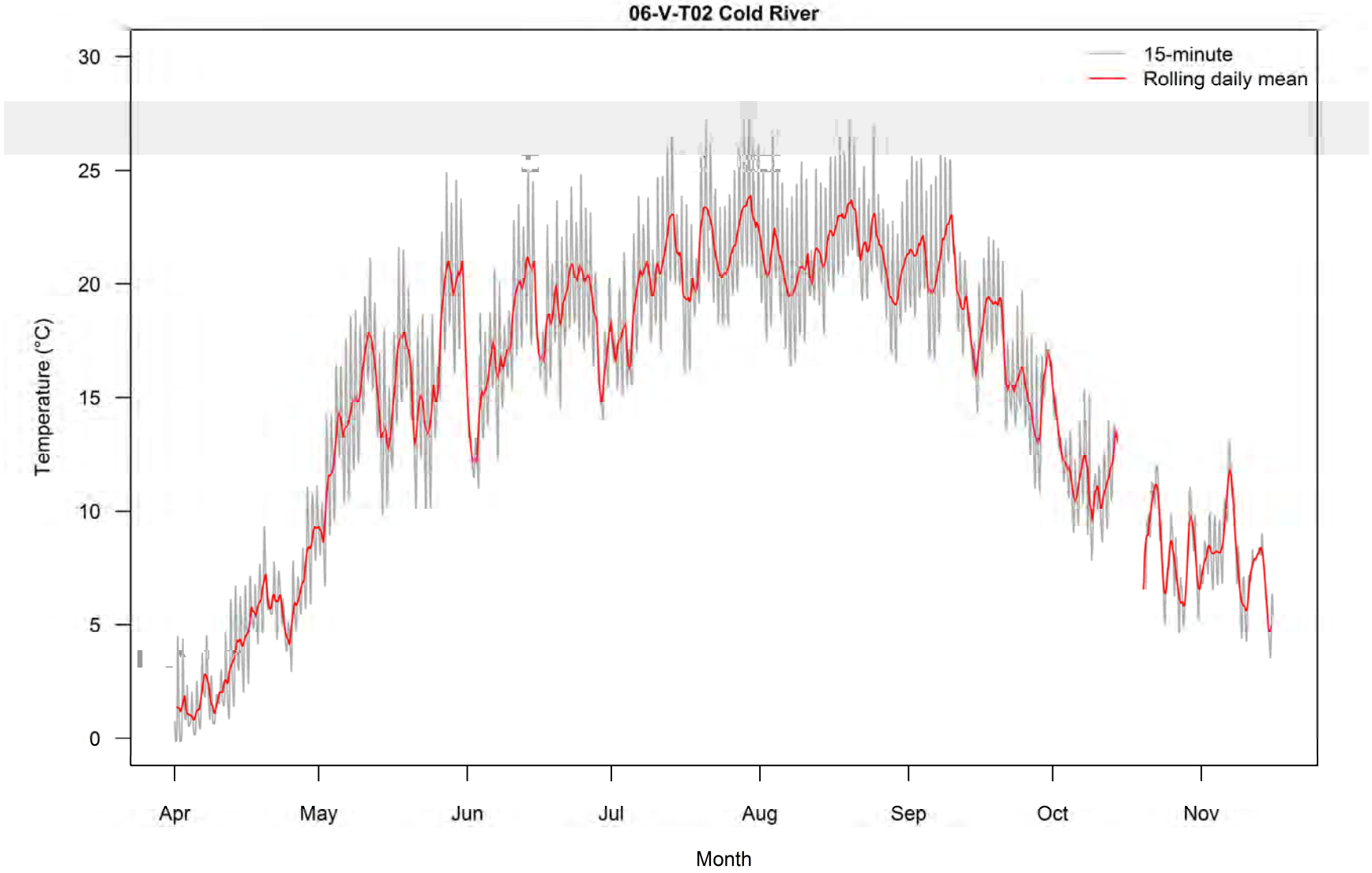

Figure D-9. Cold River water temperatures collected from April 1 through November 15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

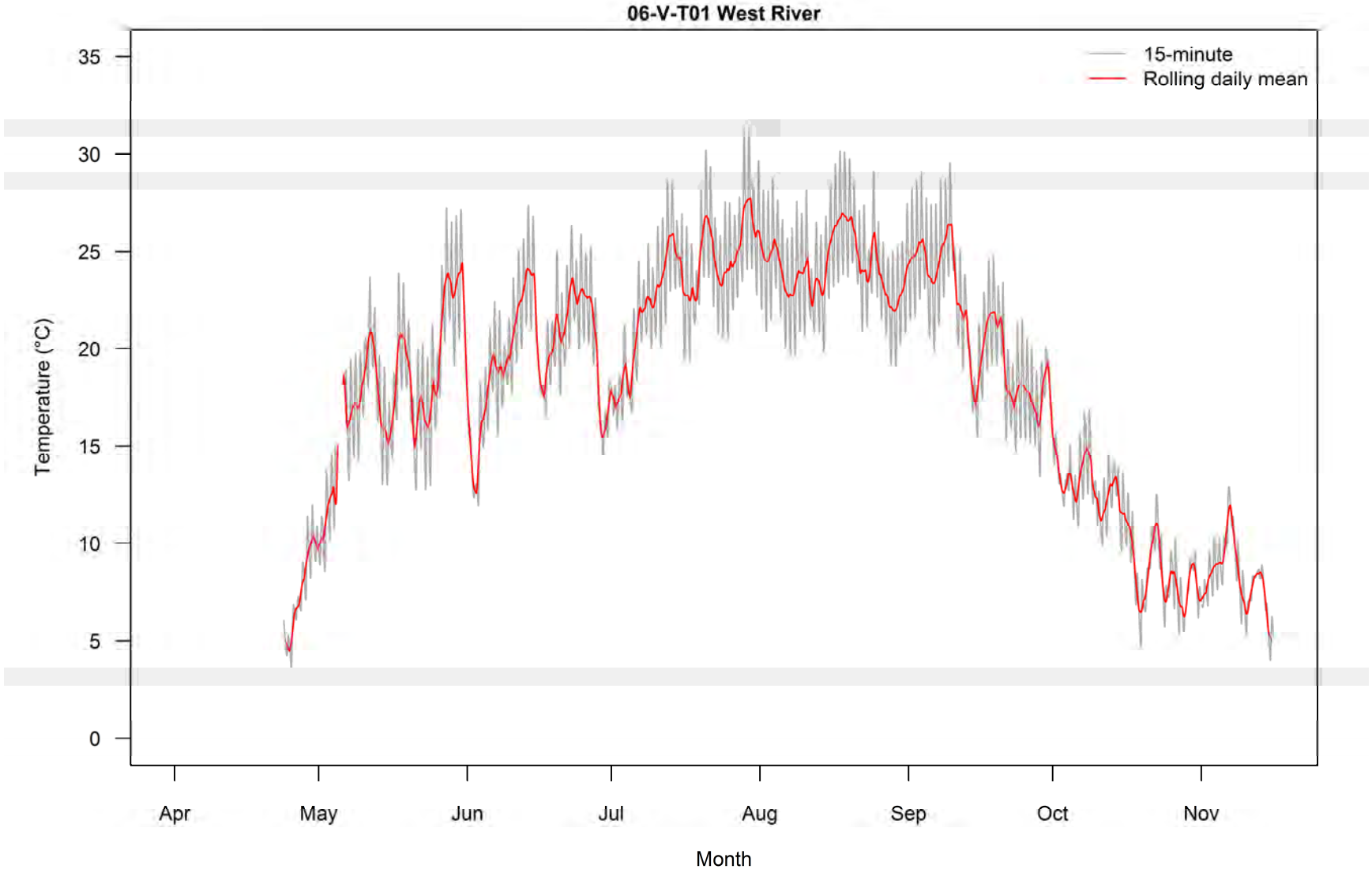

Figure D-10. West River water temperatures collected from April 23 through November 15, 2015. Periods when the continuous temperature data logger was out of water are omitted.

APPENDIX E

2015 Tributary Continuous Water Temperature Monthly Figures

[This page intentionally left blank.]

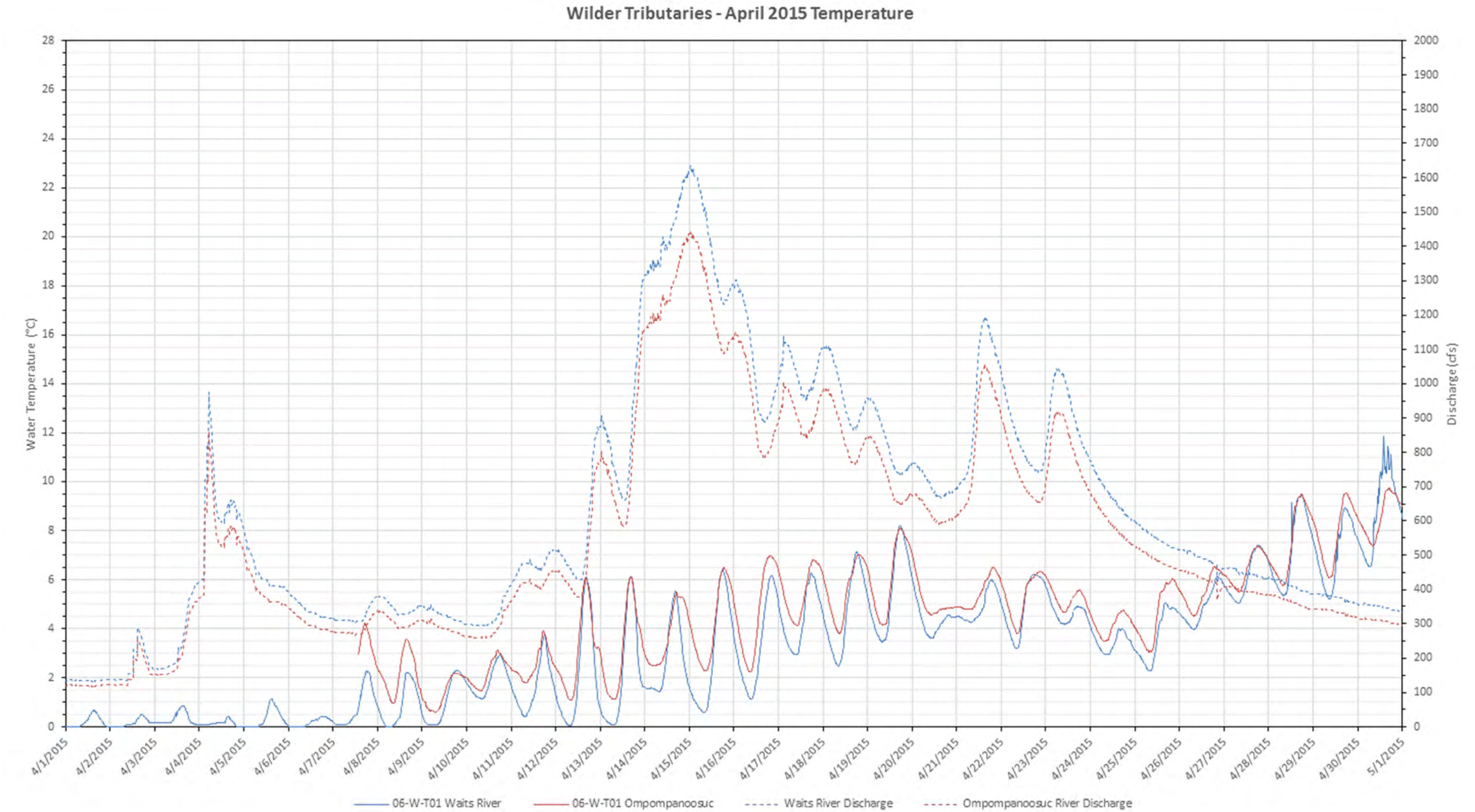

Figure E-1. 2015 April water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

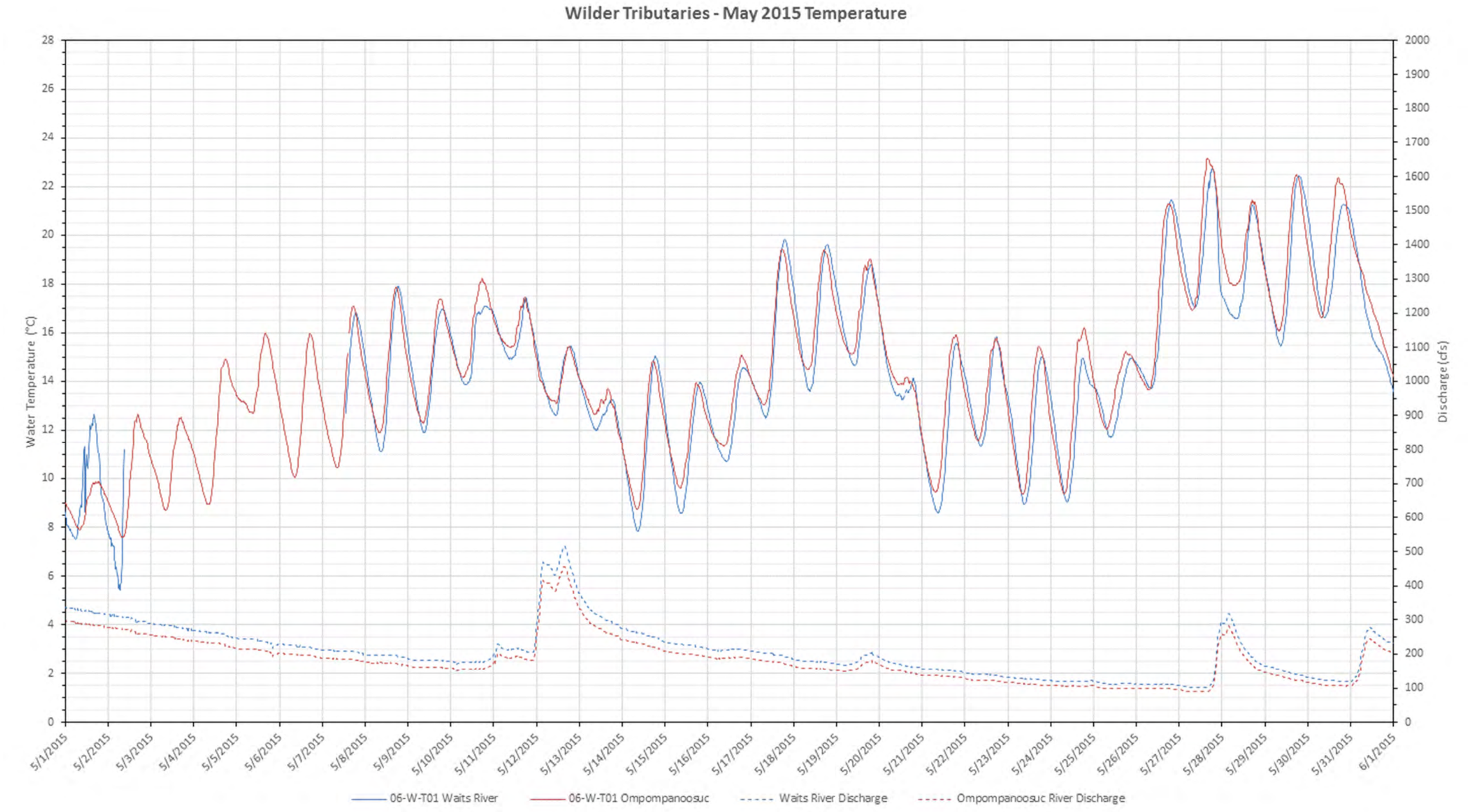

Figure E-2. 2015 May water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

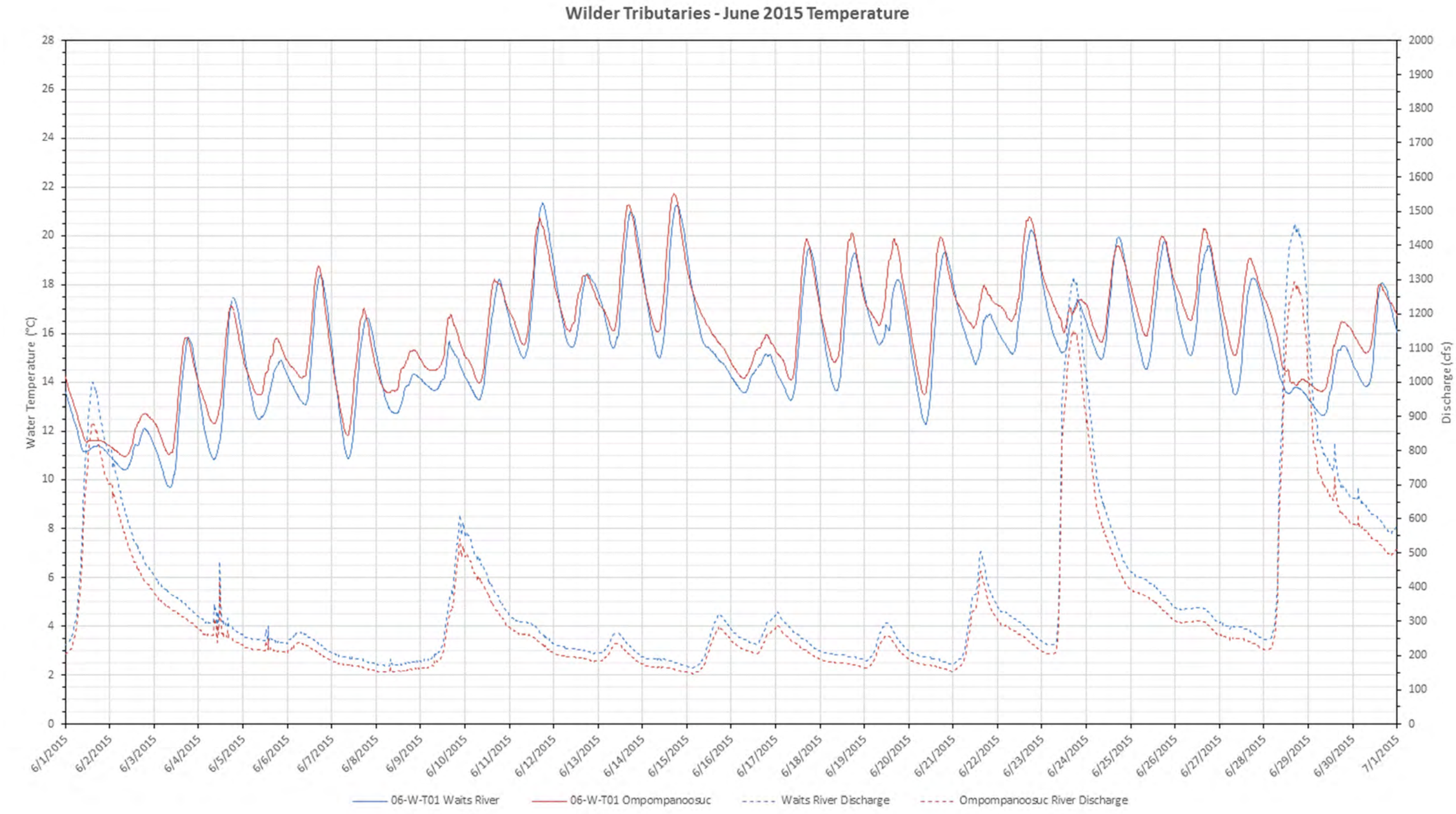

Figure E-3. 2015 June water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

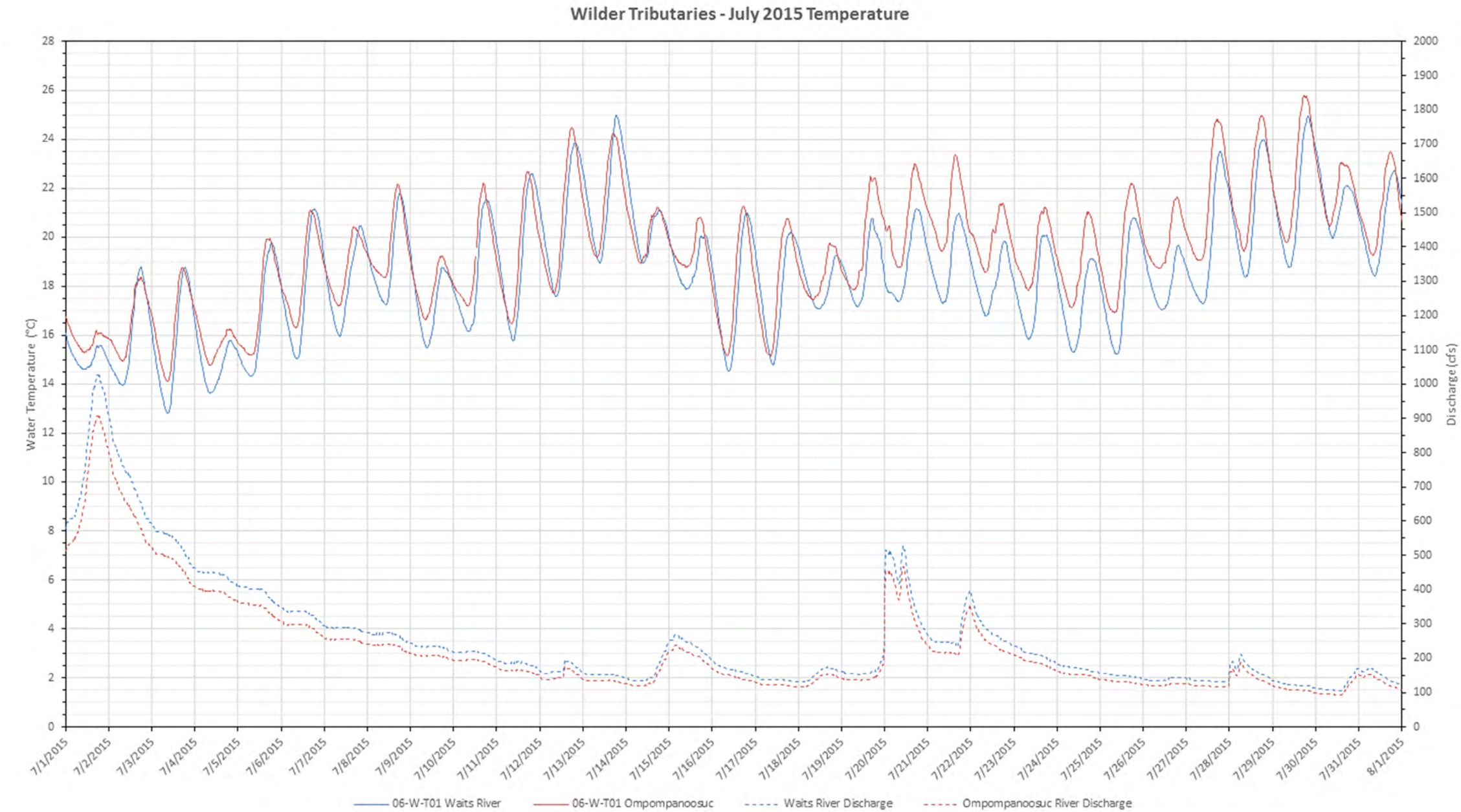

Figure E-4. 2015 July water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

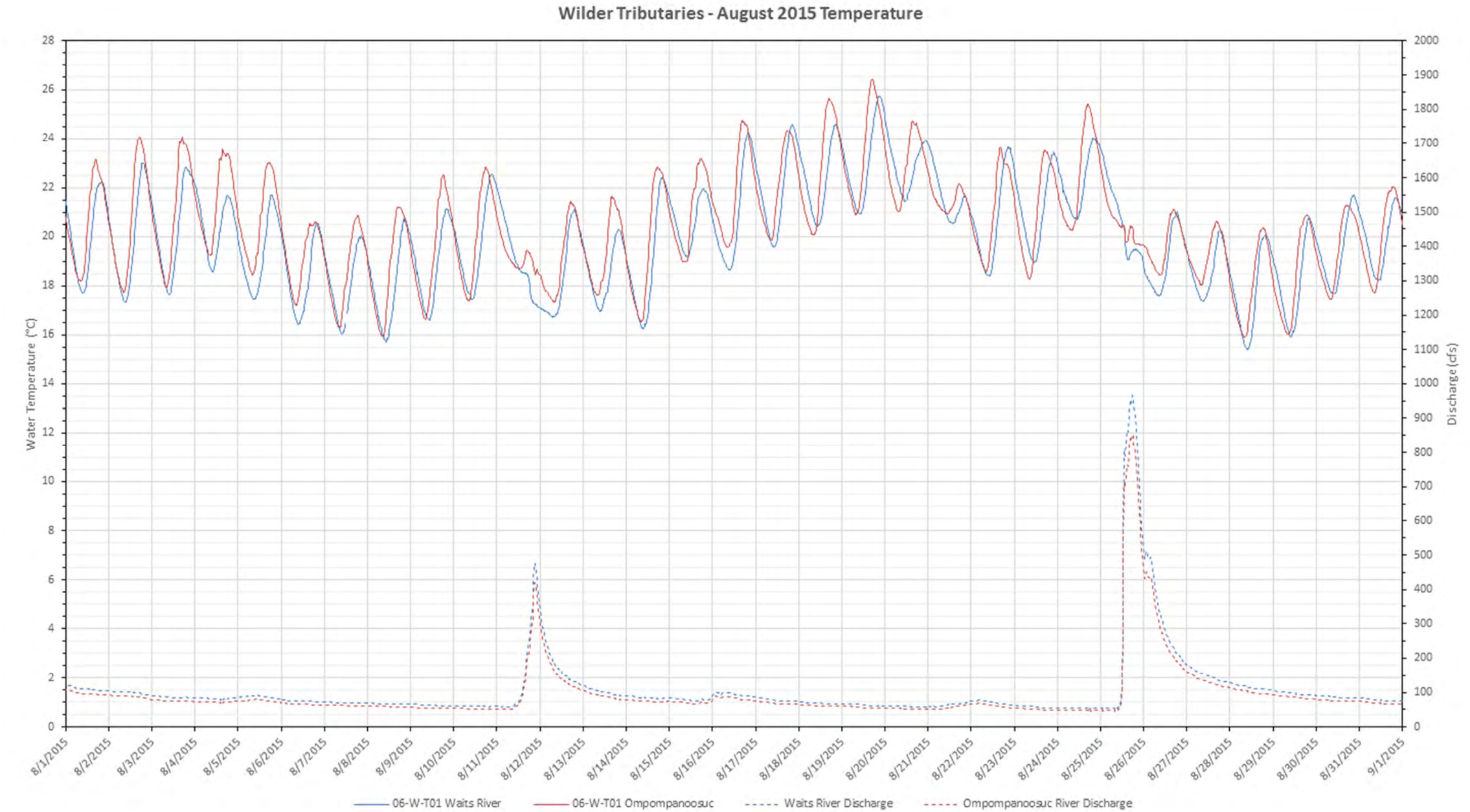

Figure E-5. 2015 August water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

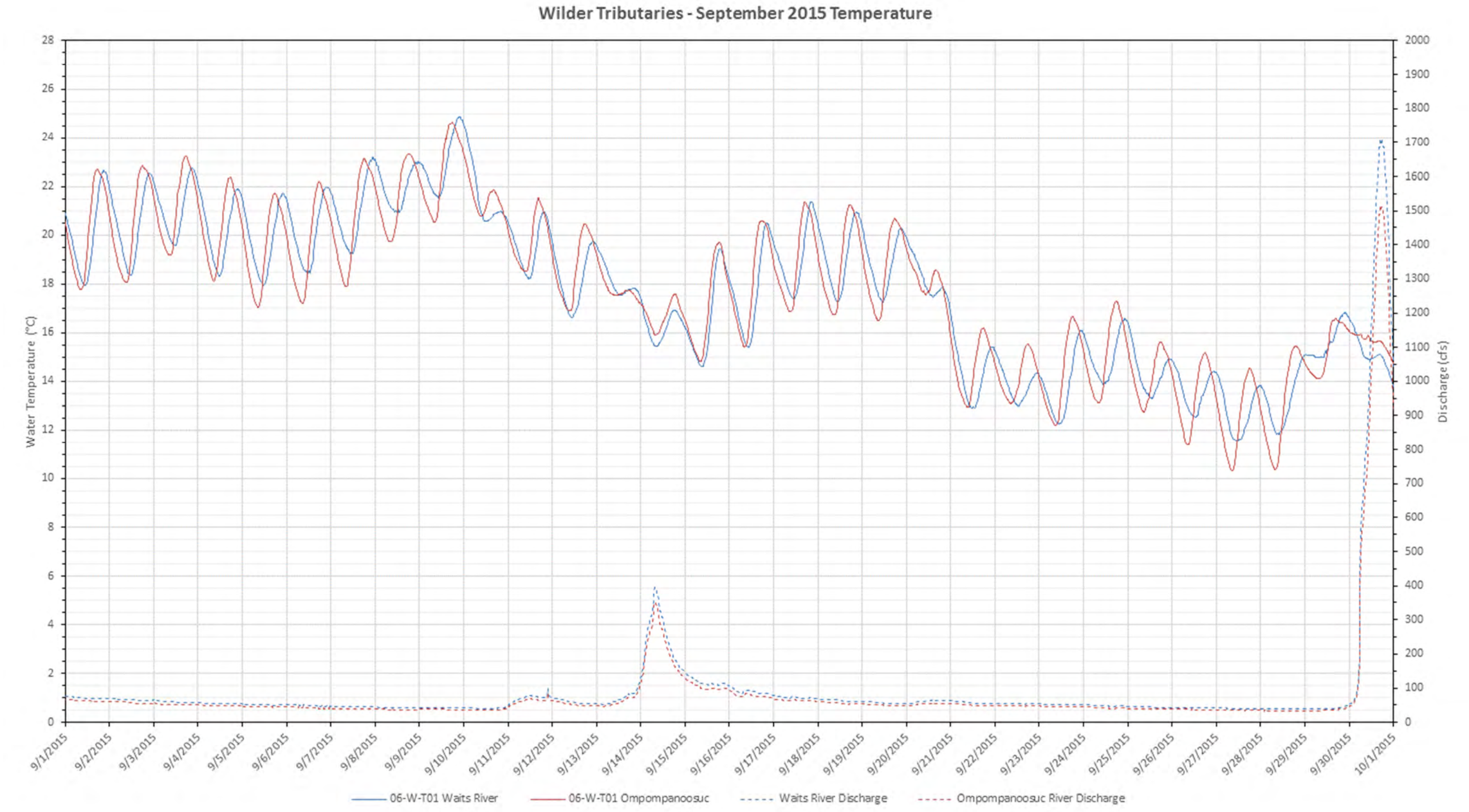

Figure E-6. 2015 September water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

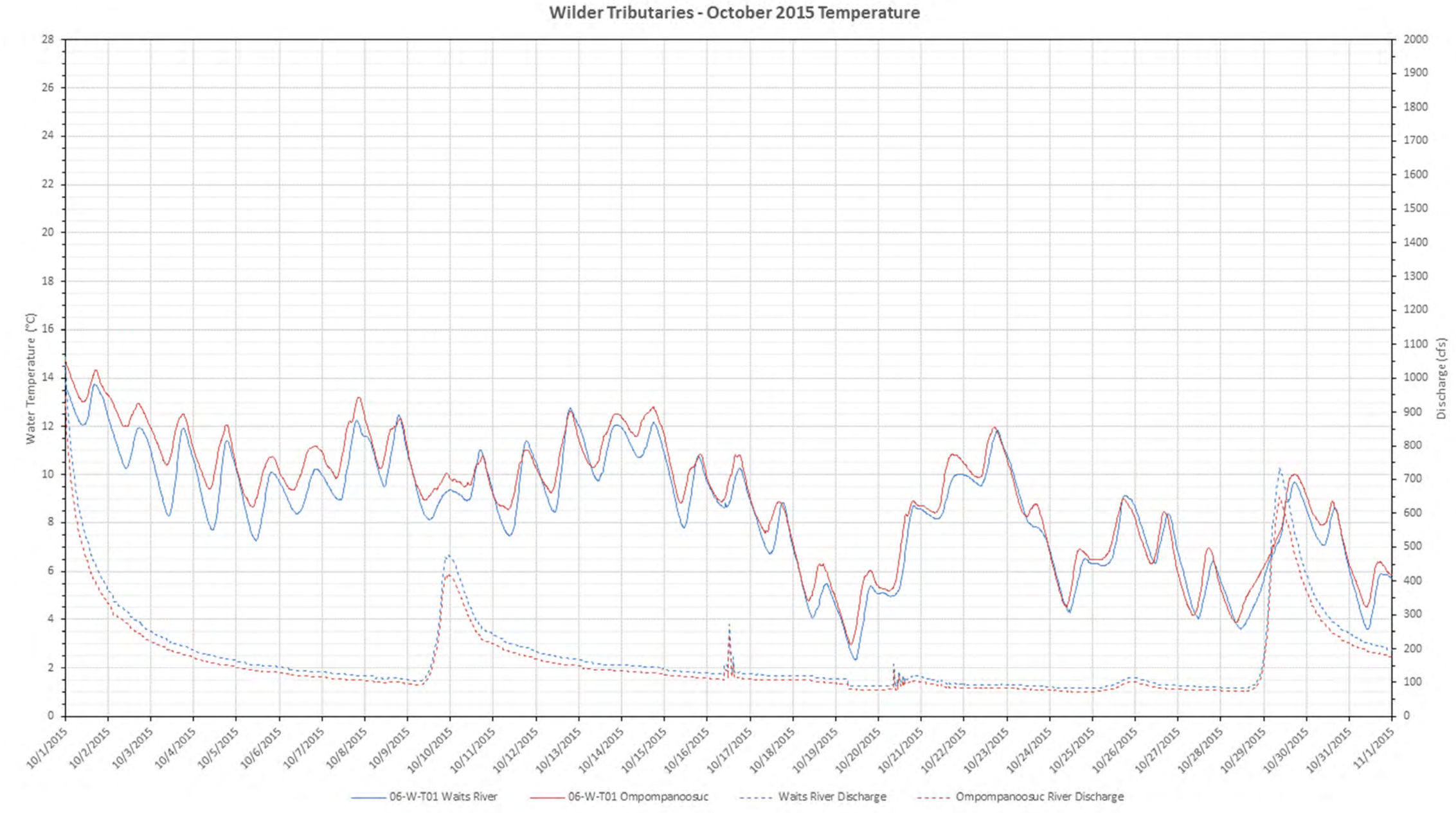

Figure E-7. 2015 October water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

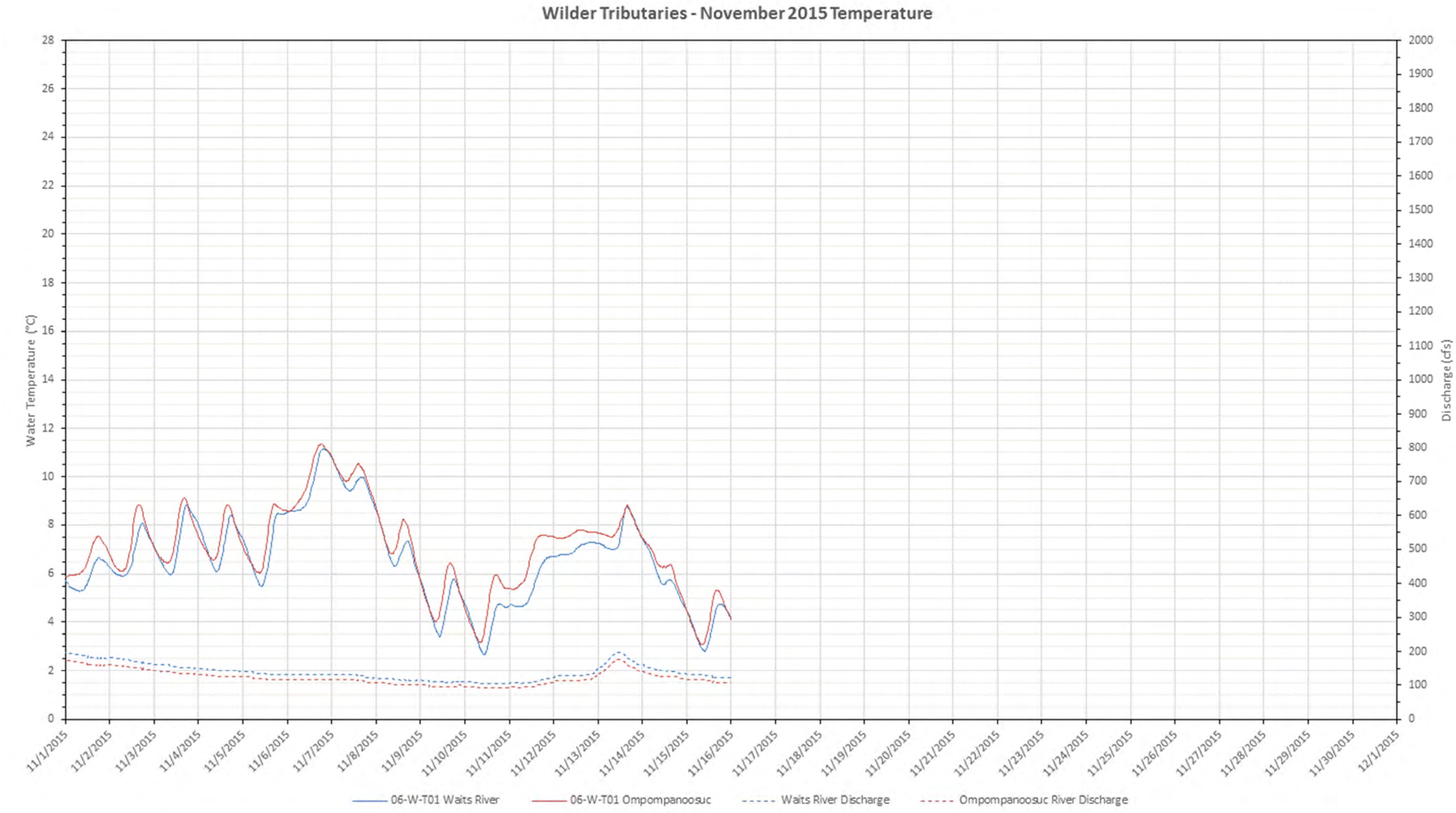

Figure E-8. 2015 November water temperature (°C) for Wilder tributaries with tributary discharge (cfs).

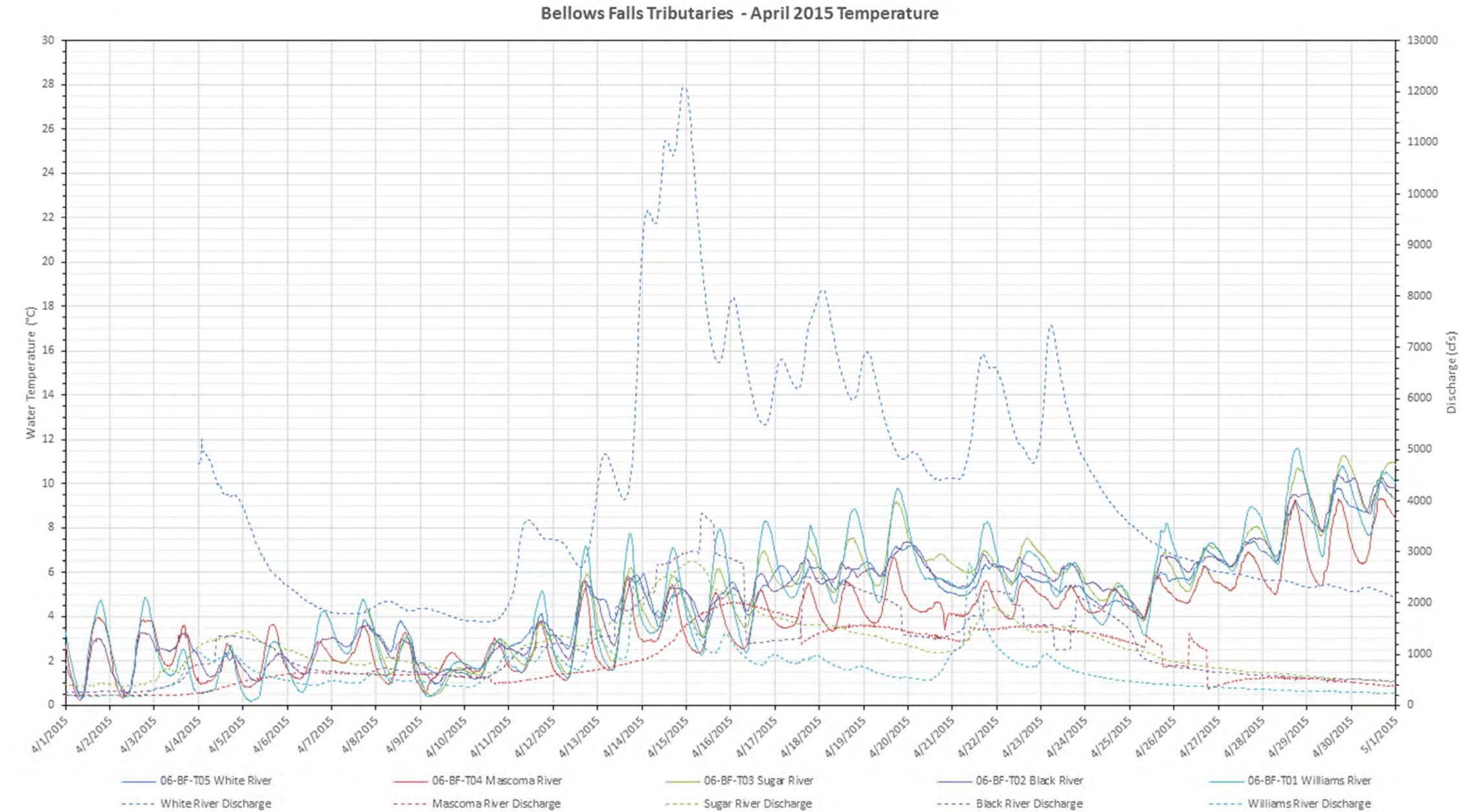

Figure E-9. 2015 April water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

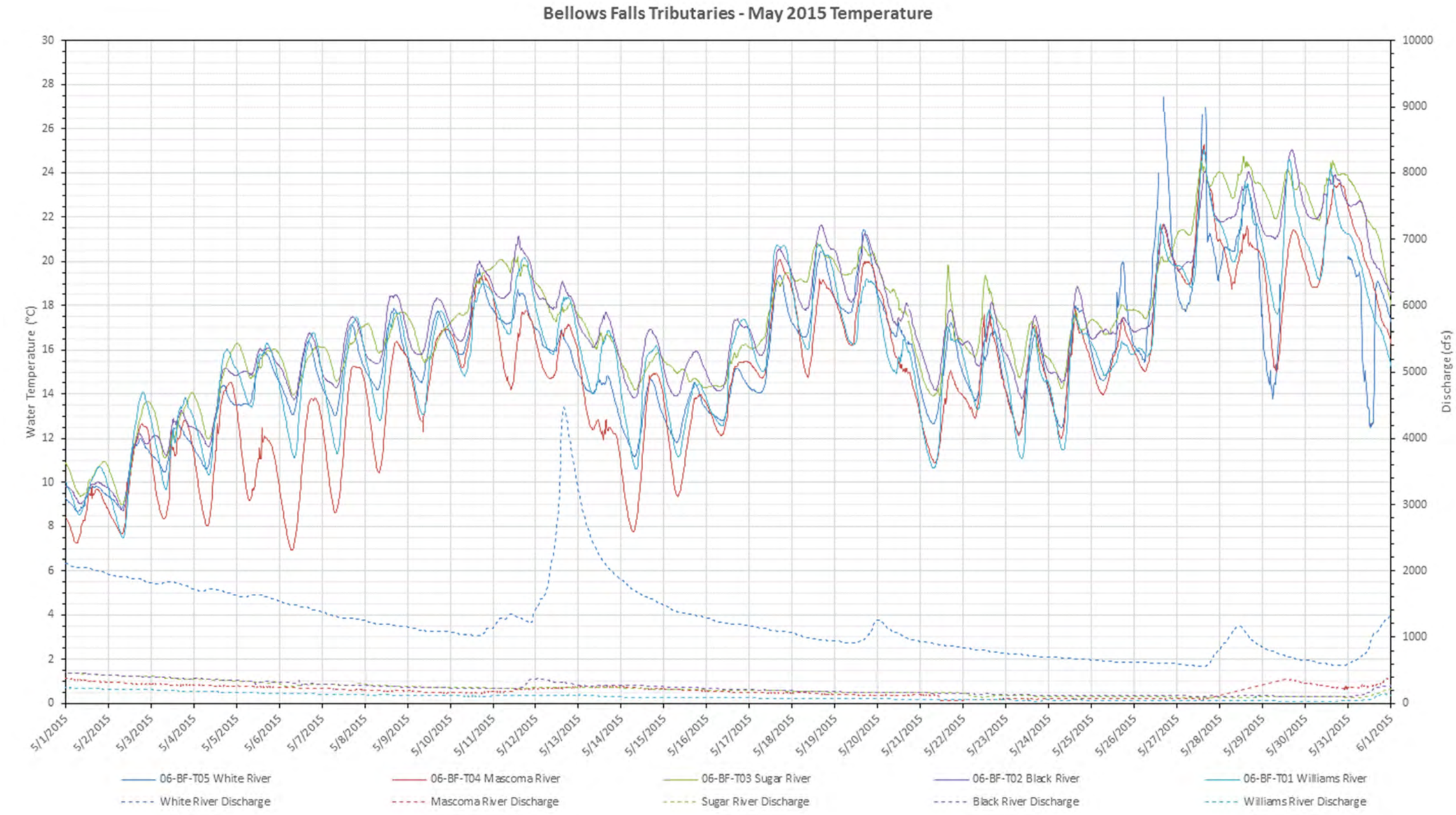

Figure E-10. 2015 May water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

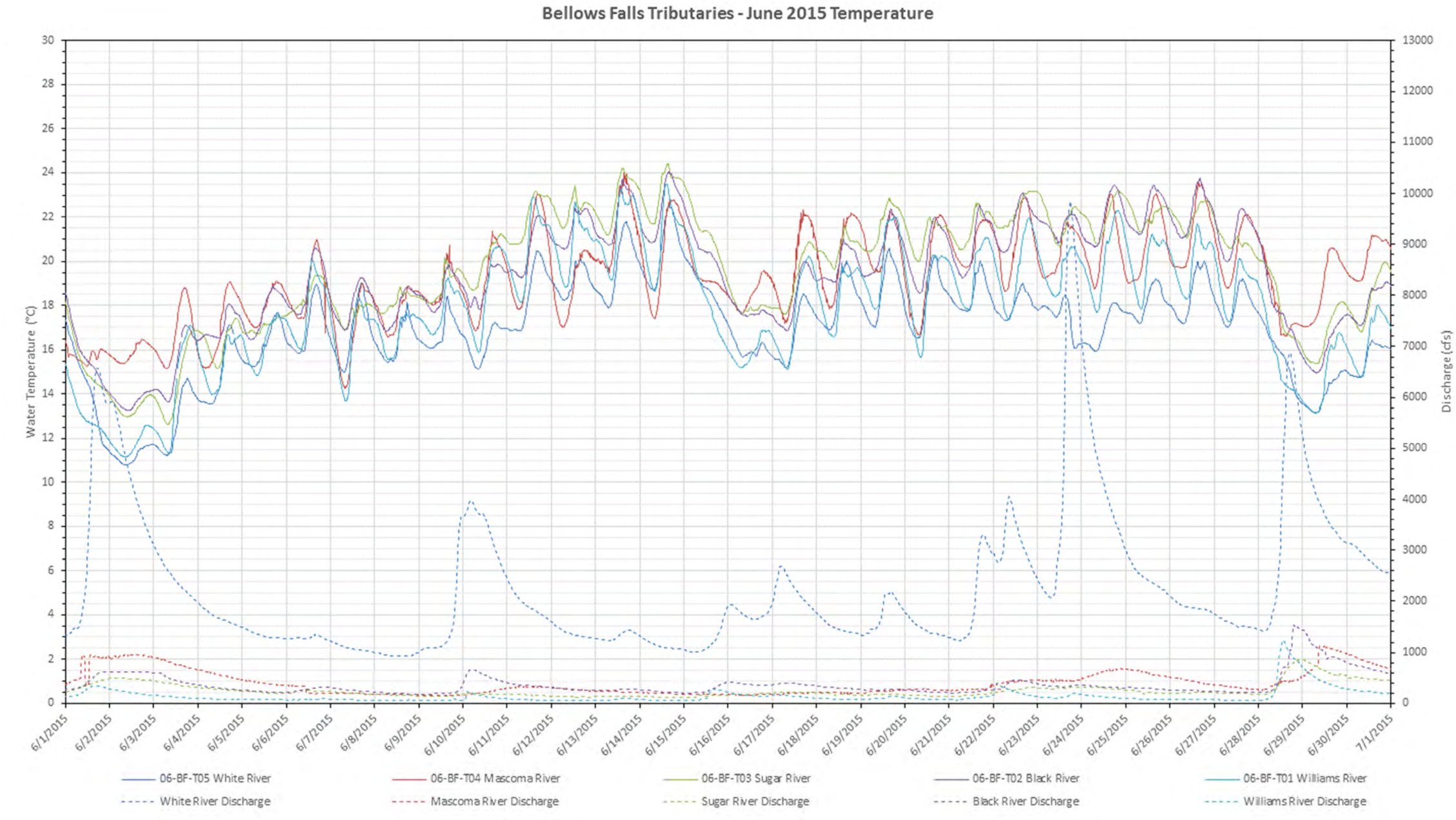

Figure E-11. 2015 June water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

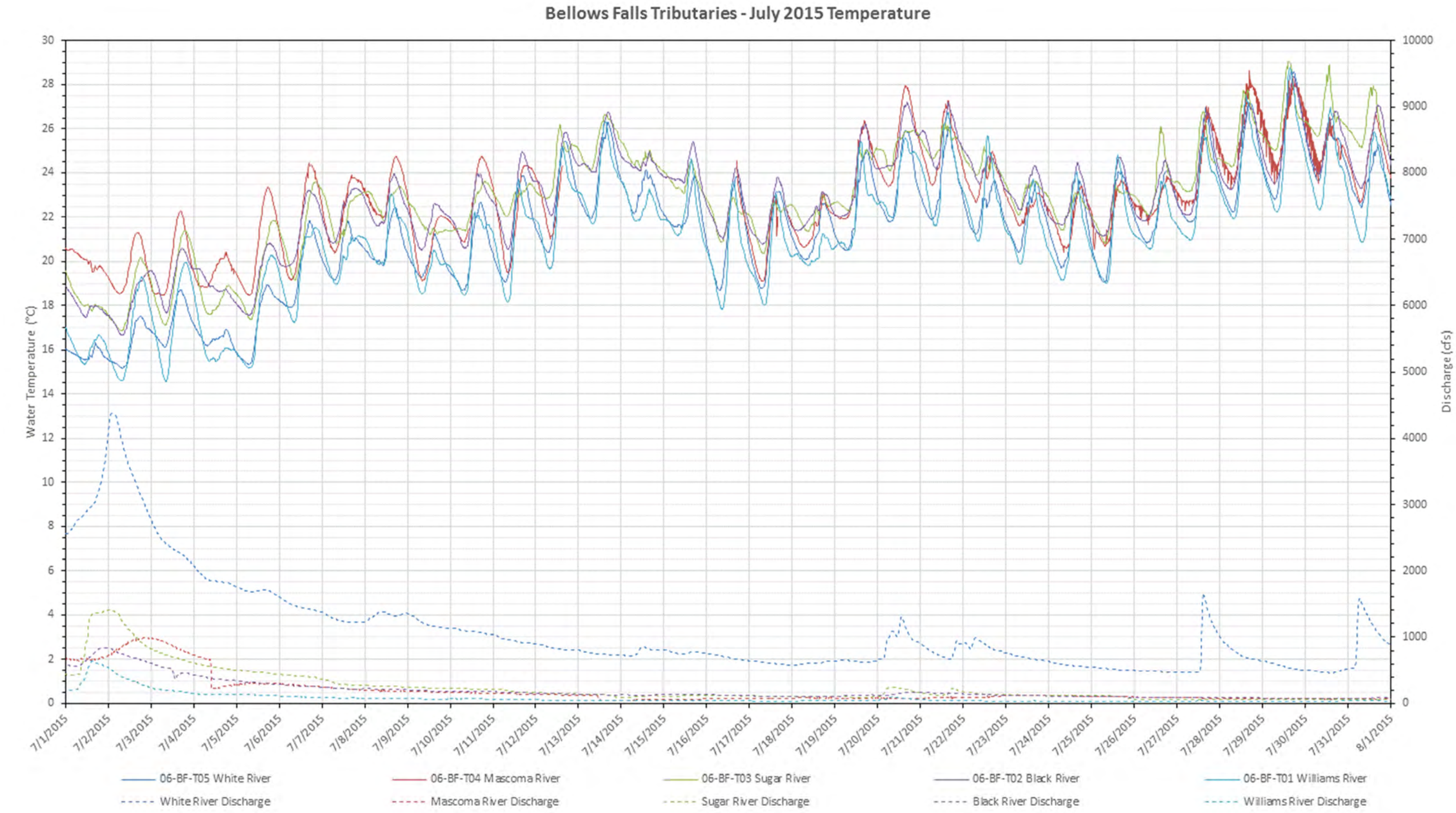

Figure E-12. 2015 July water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

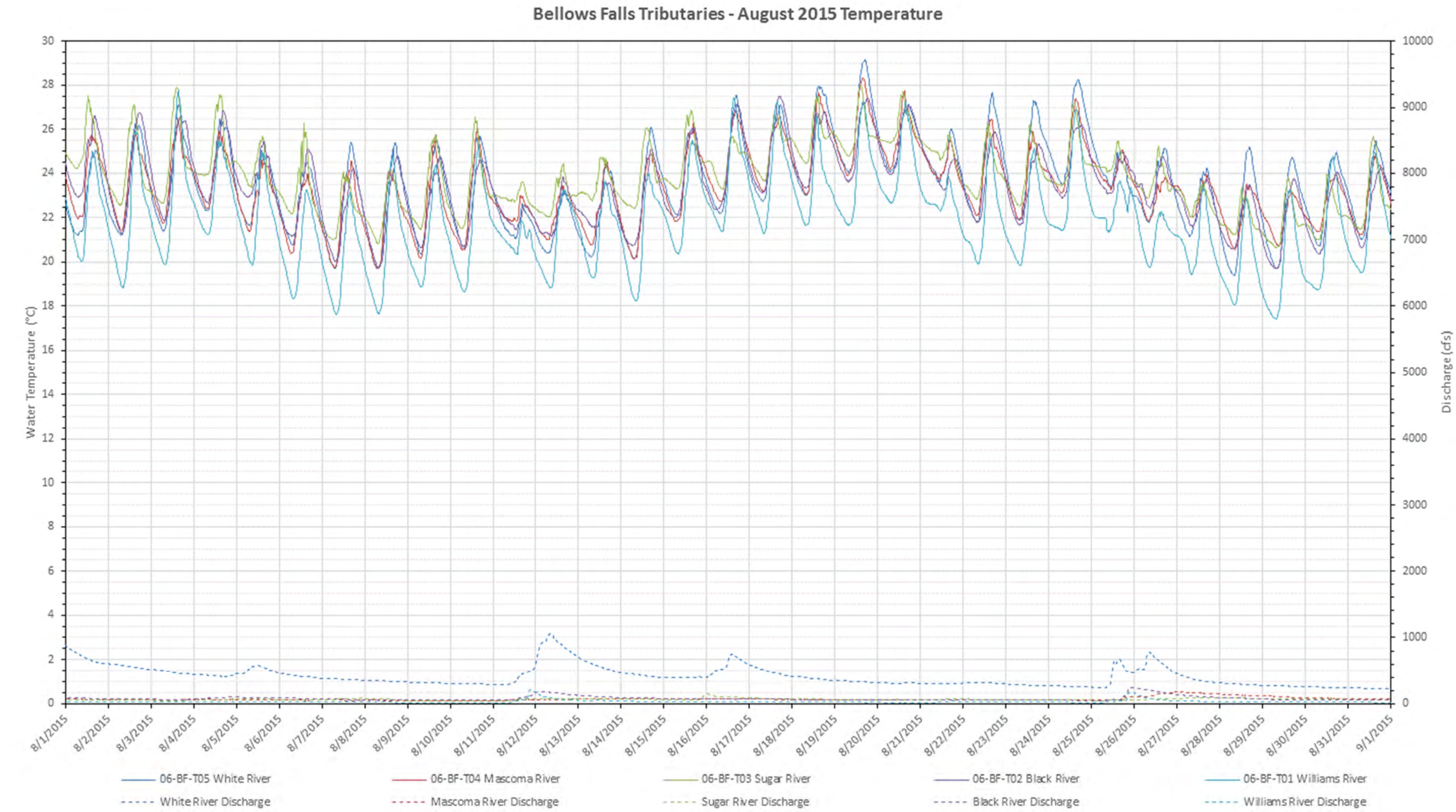

Figure E-13. 2015 August water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

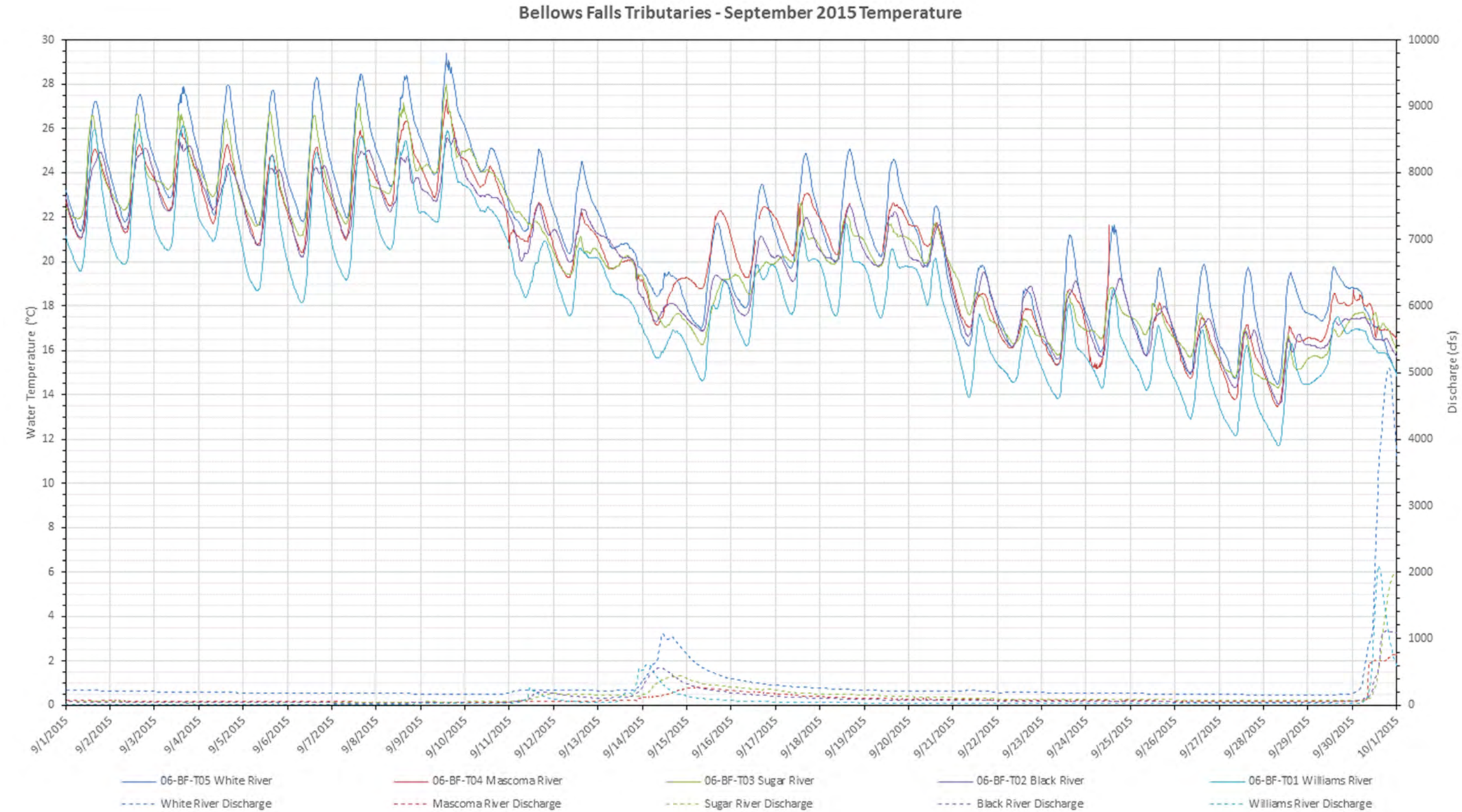

Figure E-14. 2015 September water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

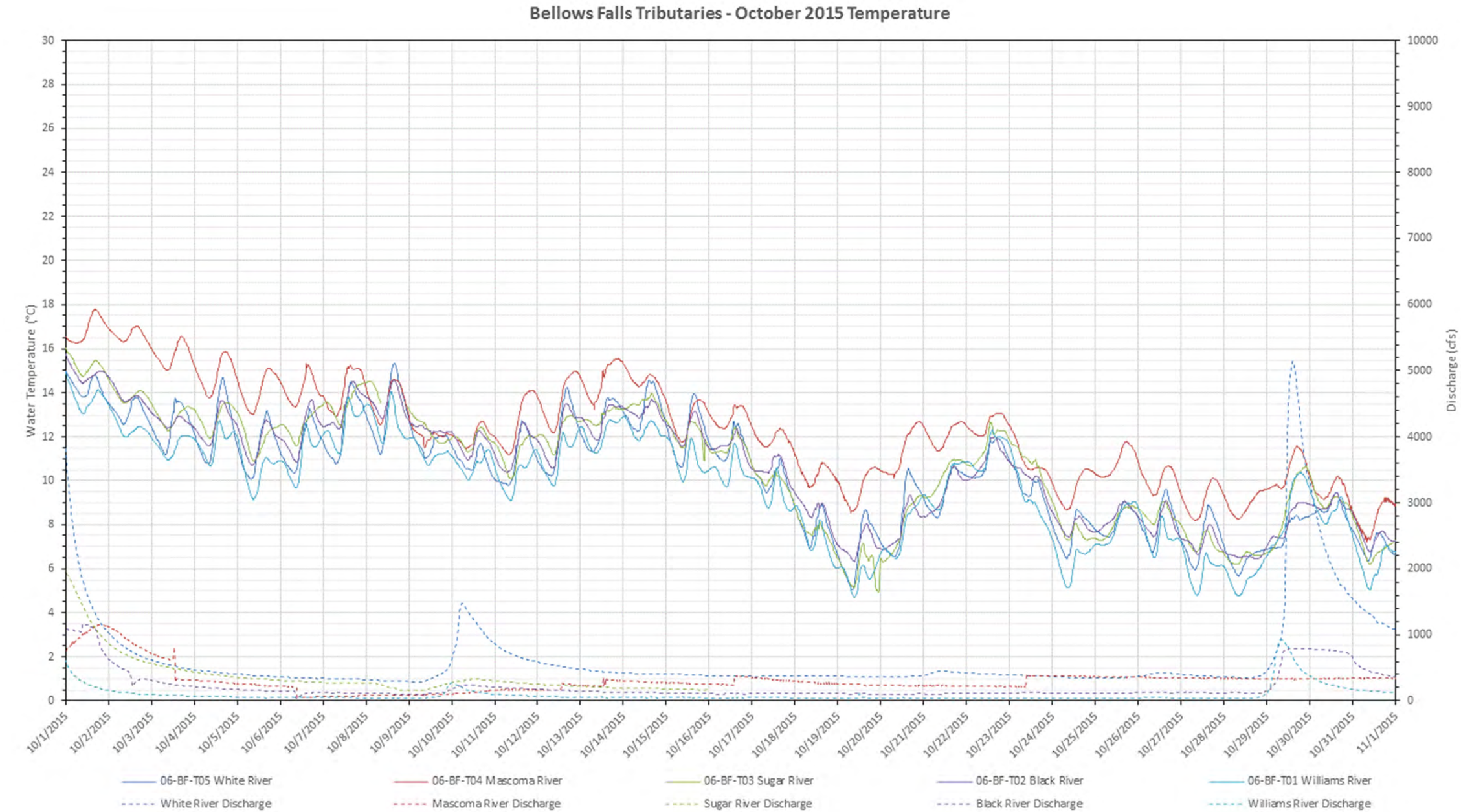

Figure E-15. 2015 October water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

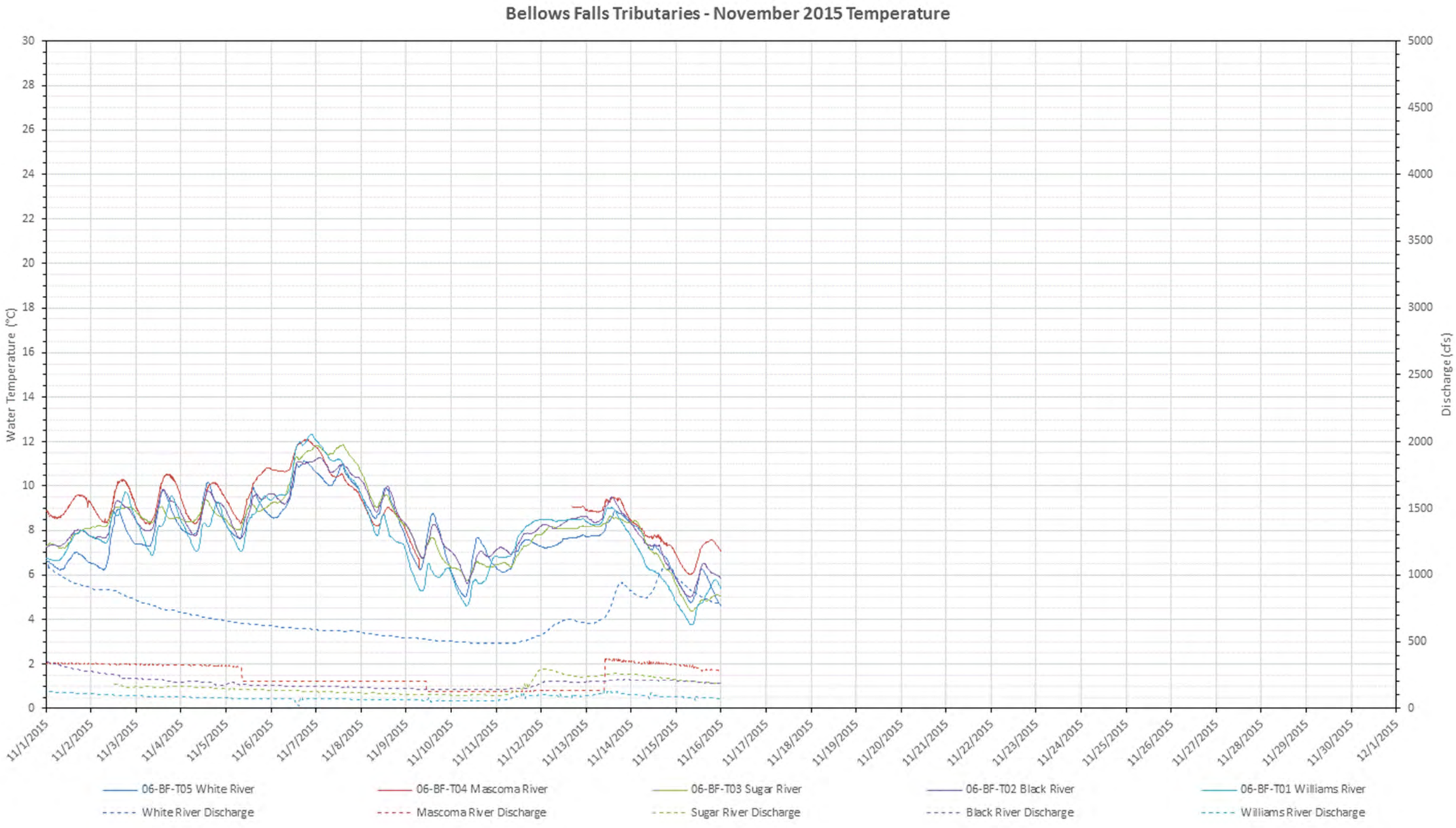

Figure E-16. 2015 November water temperature (°C) for Bellows Falls tributaries with tributary discharge (cfs).

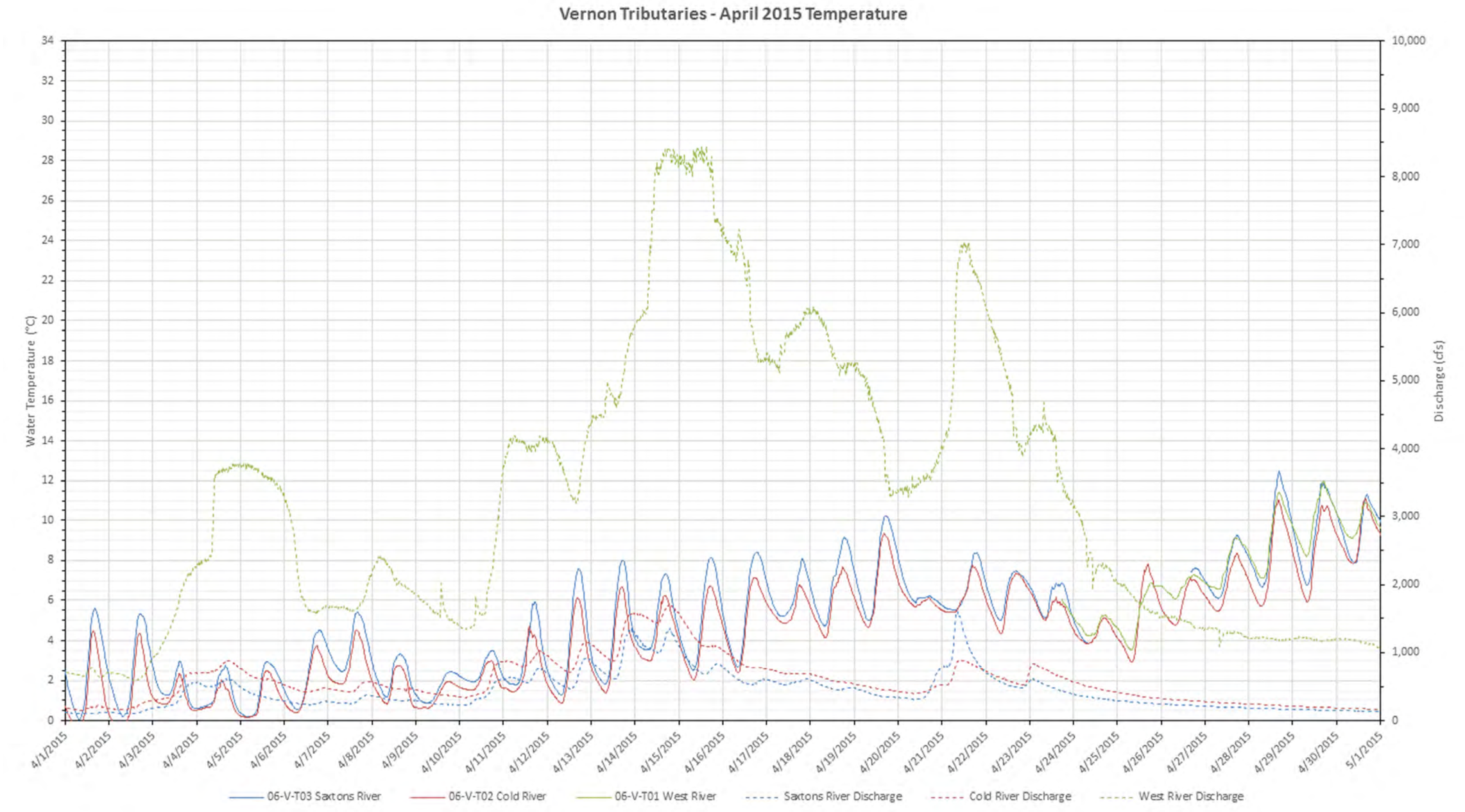

Figure E-17. 2015 April water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

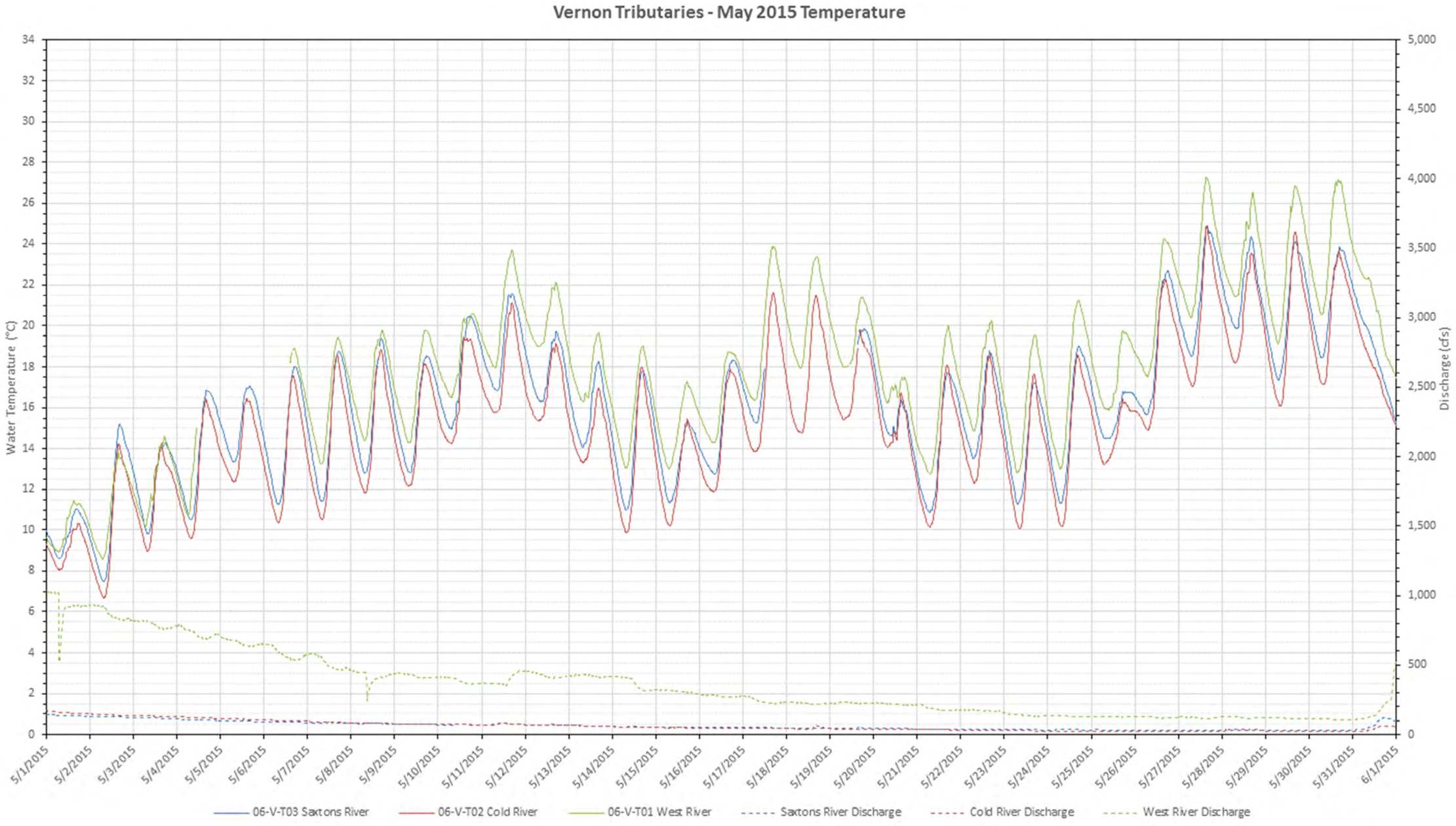

Figure E-18. 2015 May water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

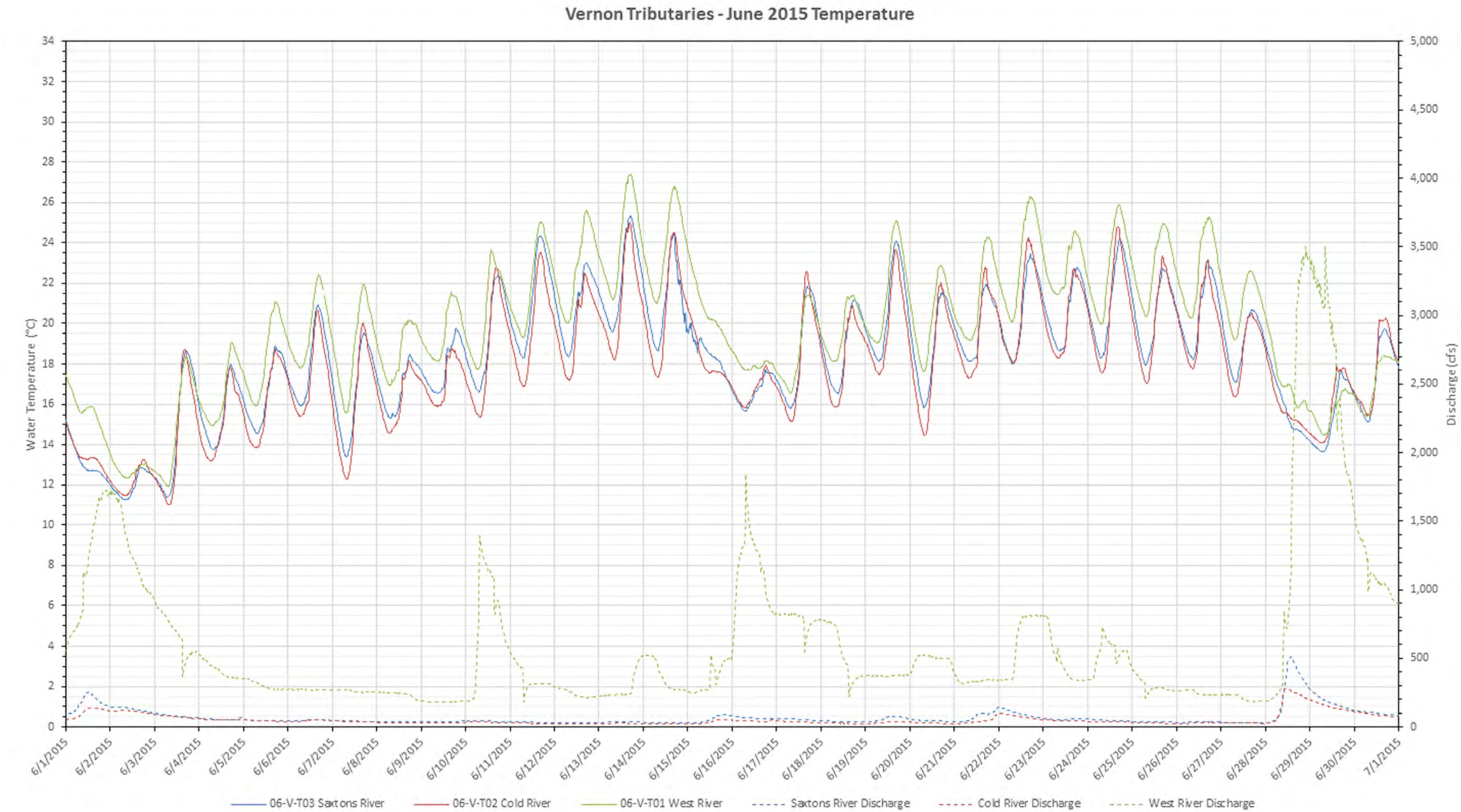

Figure E-19. 2015 June water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

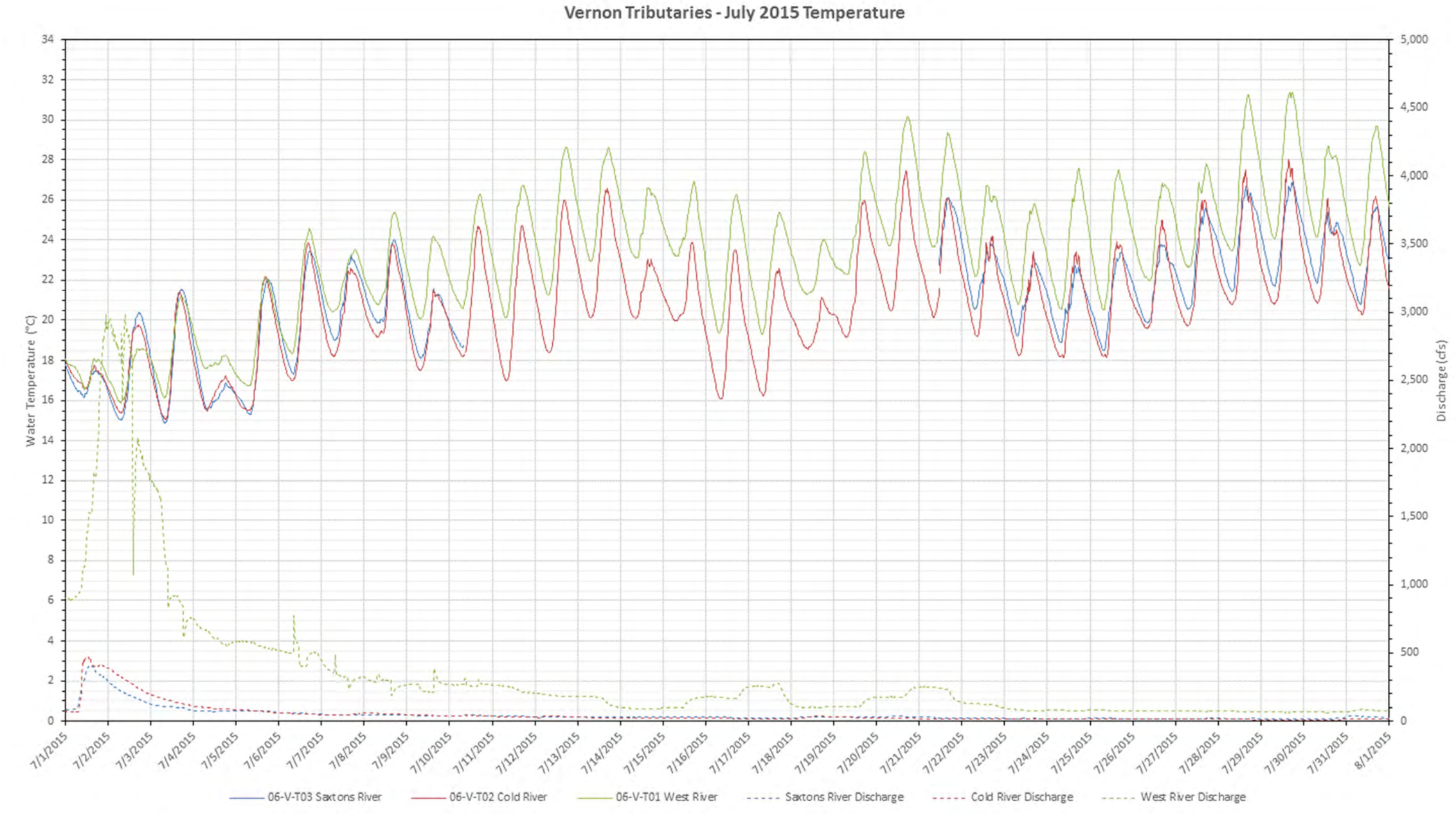

Figure E-20. 2015 July water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

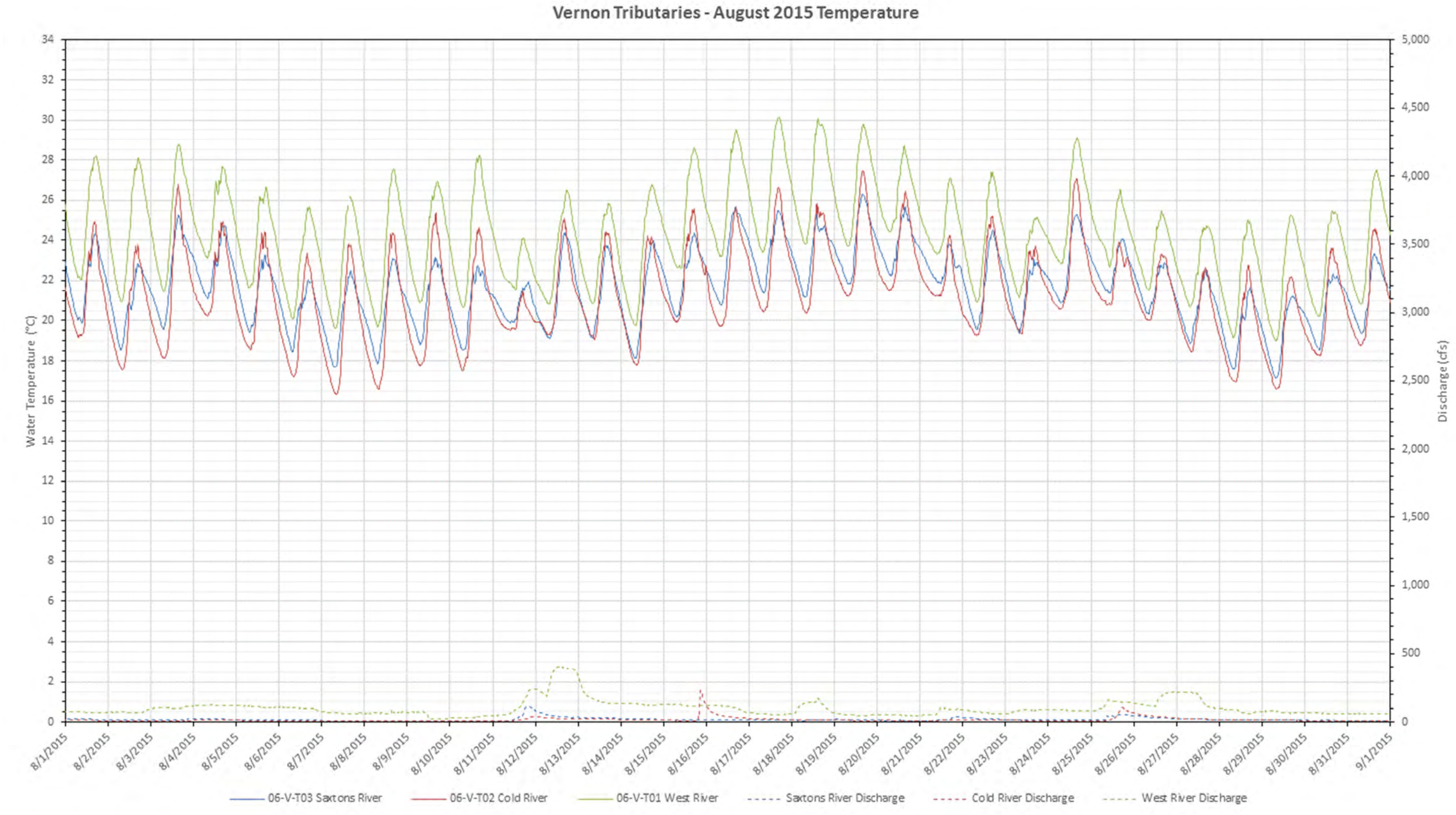

Figure E-21. 2015 August water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

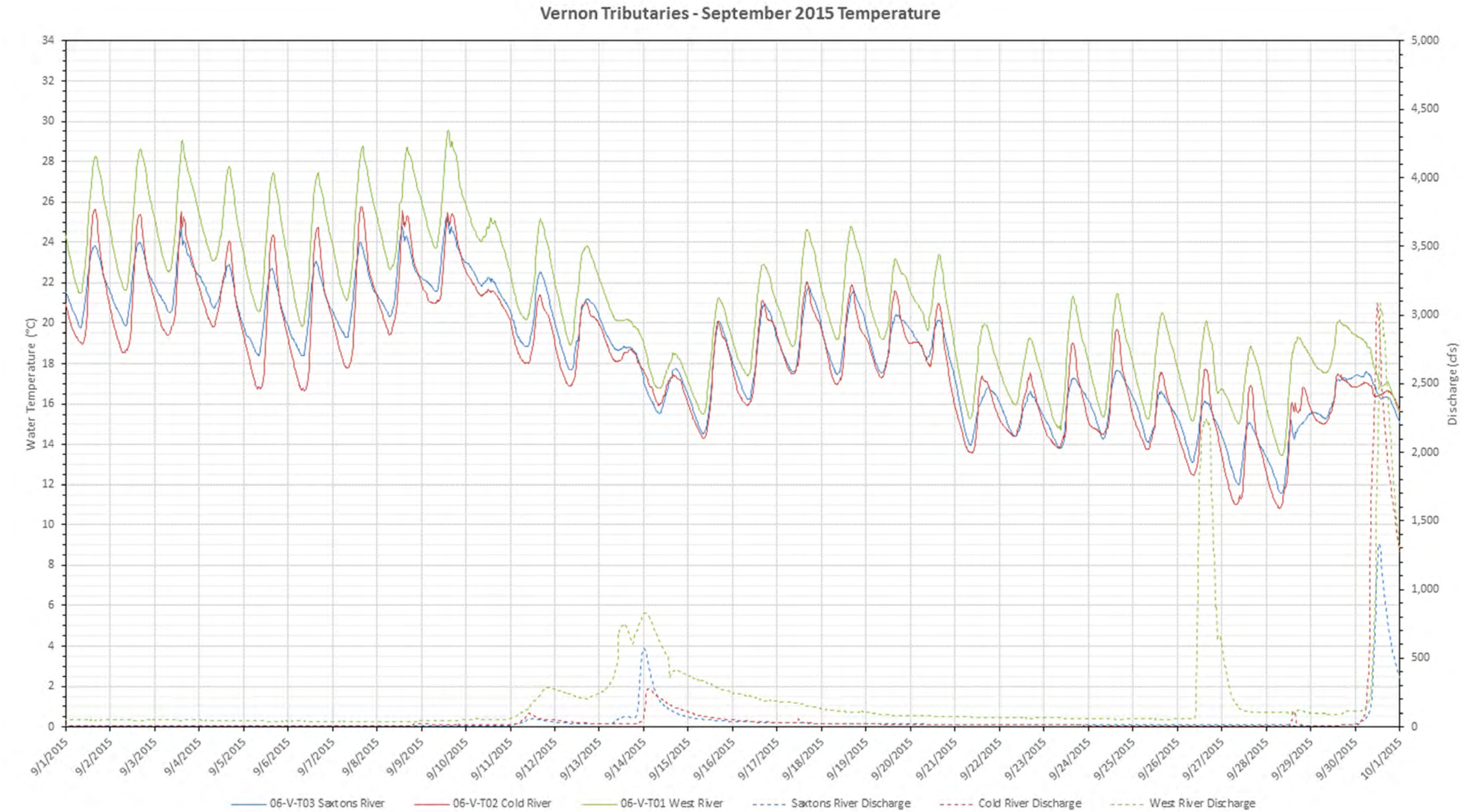

Figure E-22. 2015 September water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

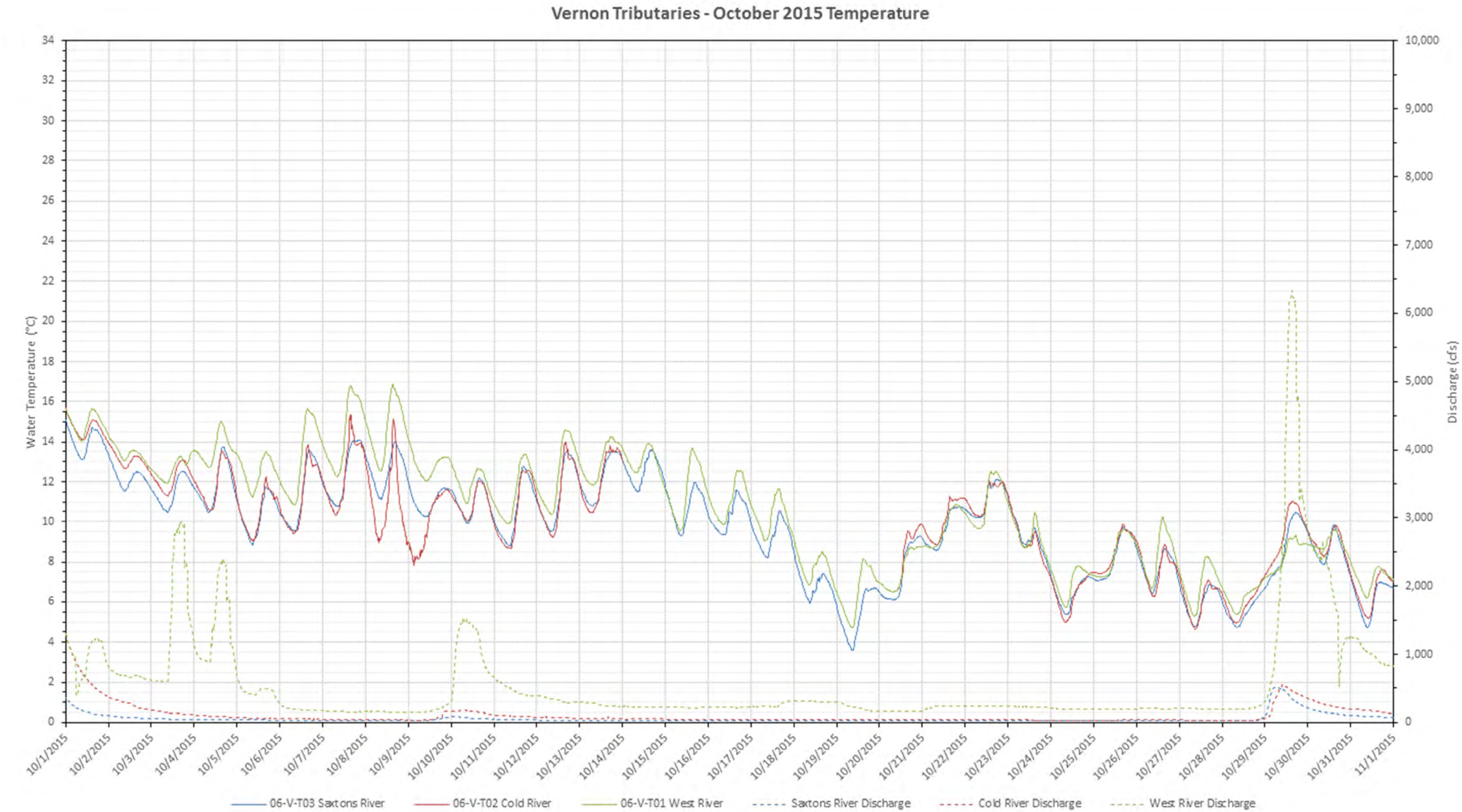

Figure E-23. 2015 October water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

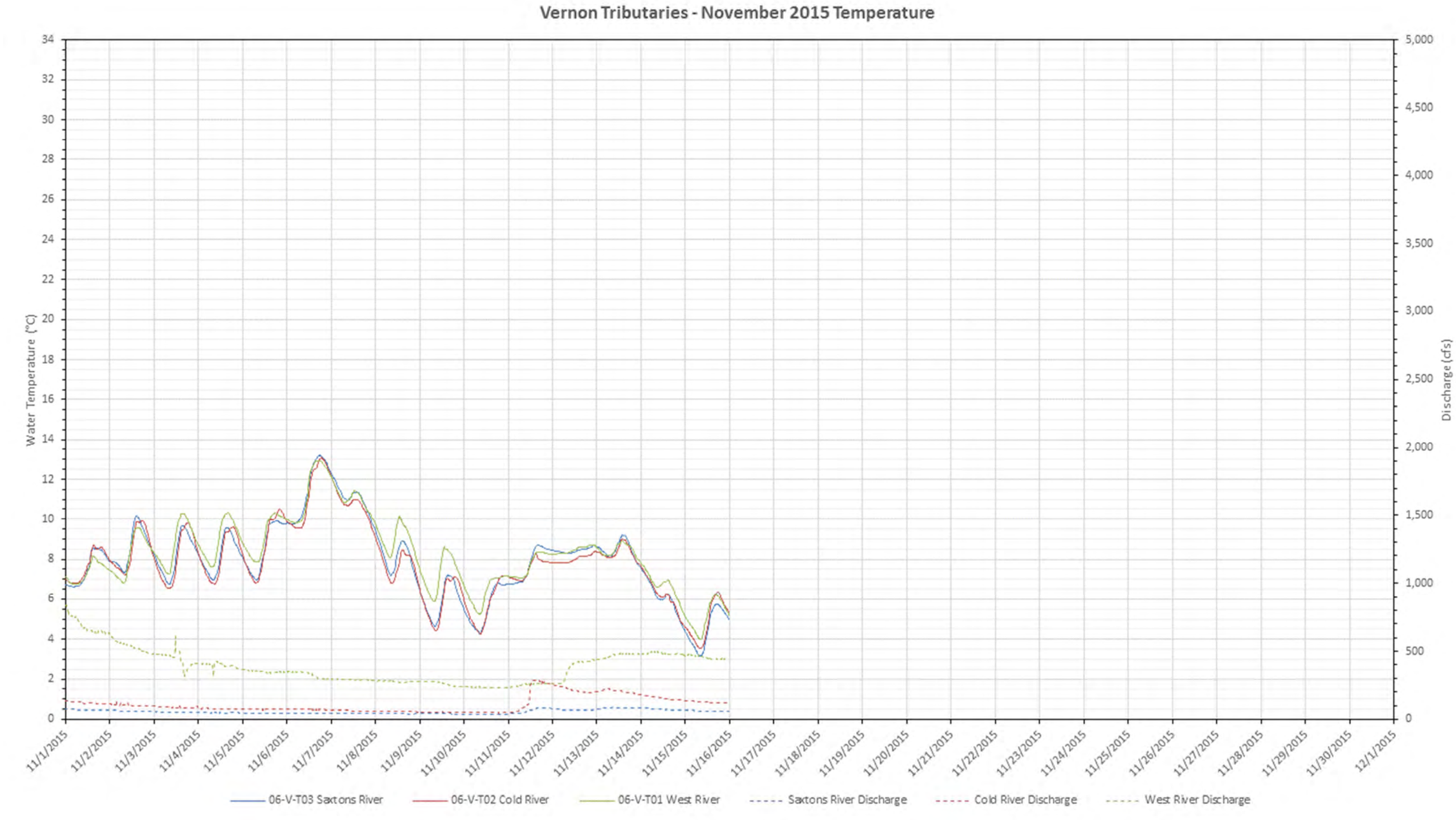

Figure E-24. 2015 November water temperature (°C) for Vernon tributaries with tributary discharge (cfs).

APPENDIX F

2015 Mainstem Water Quality Monthly Figures

[This page intentionally left blank.]

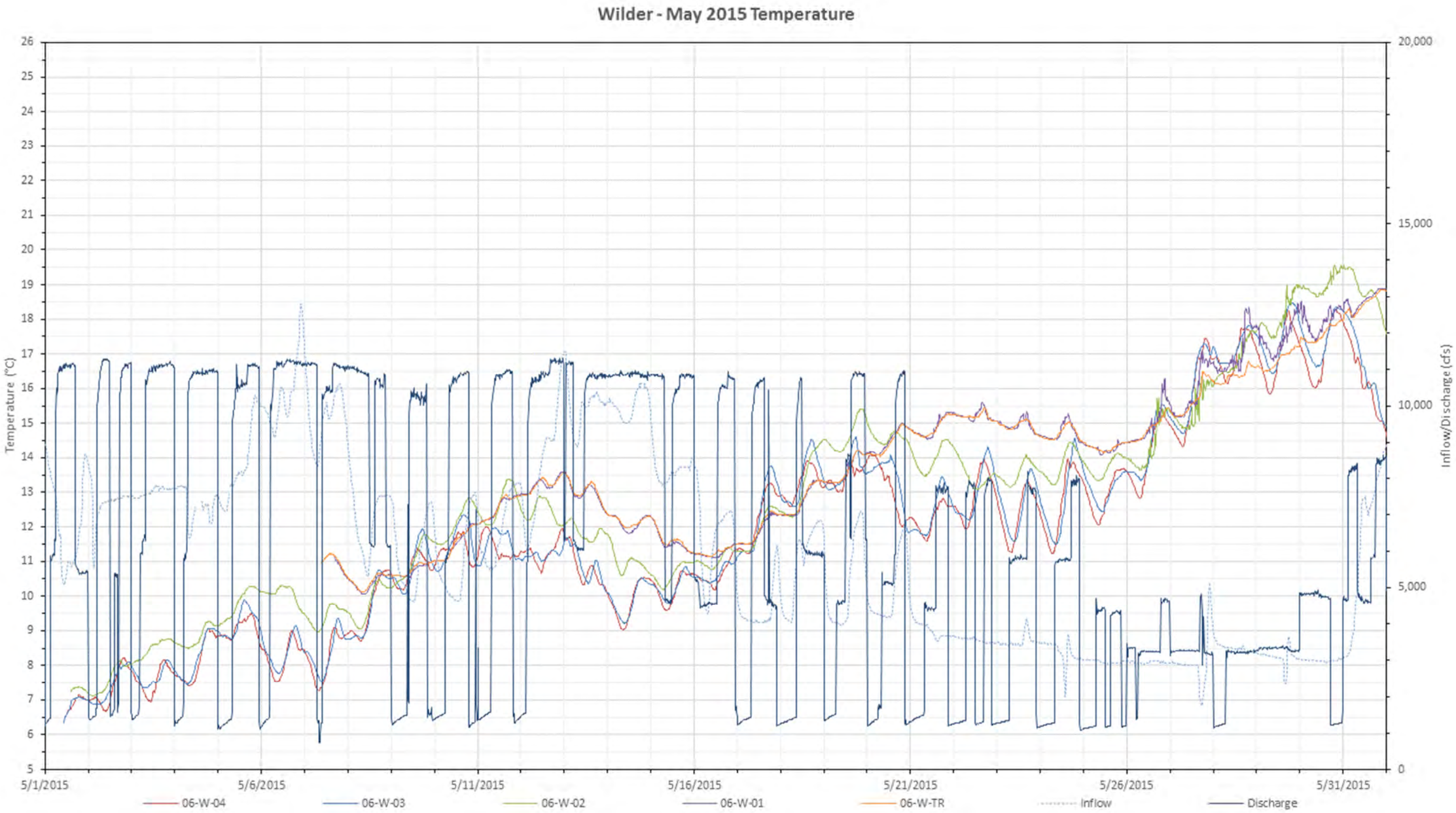

Figure F-1. 2015 May water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

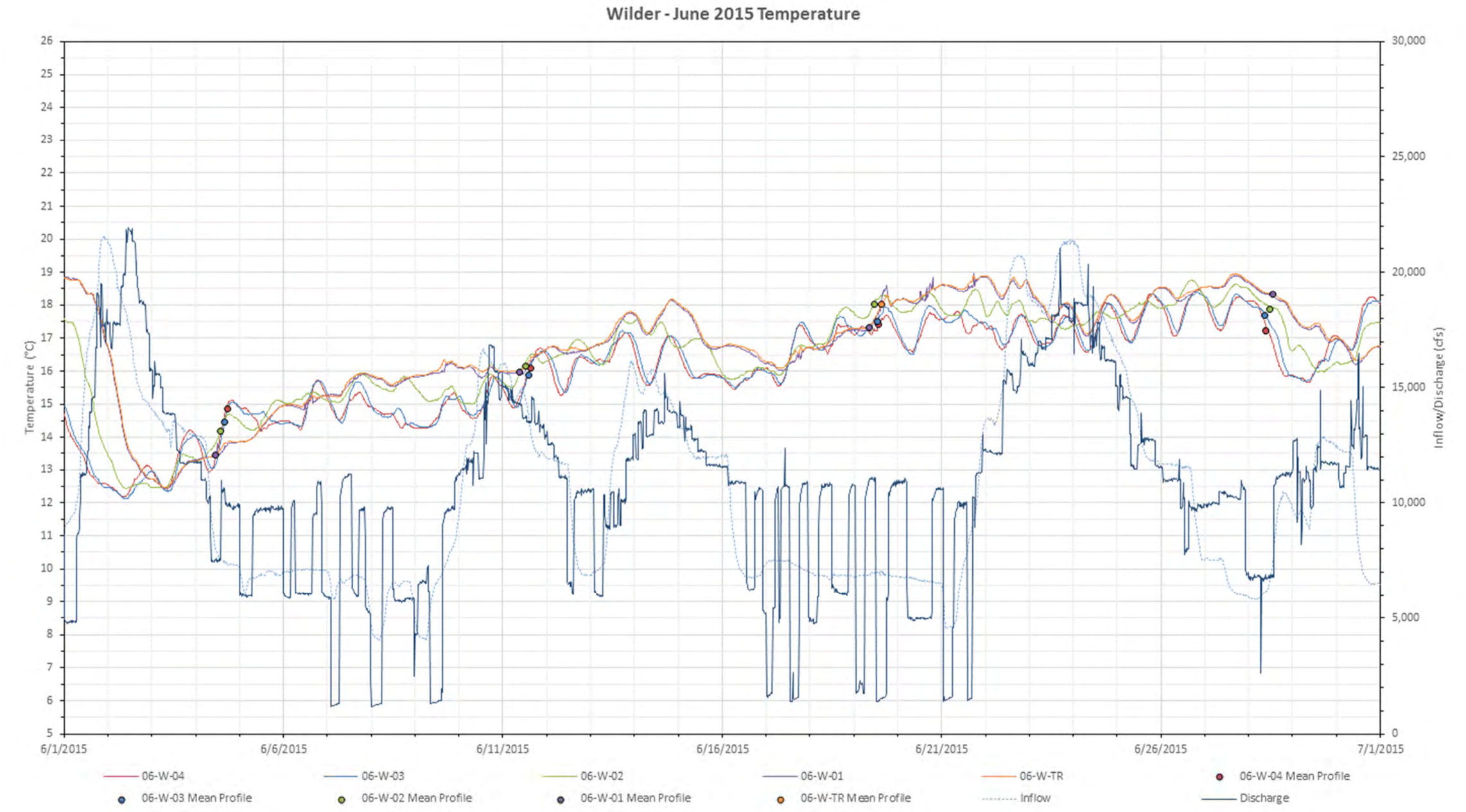

Figure F-2. 2015 June water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

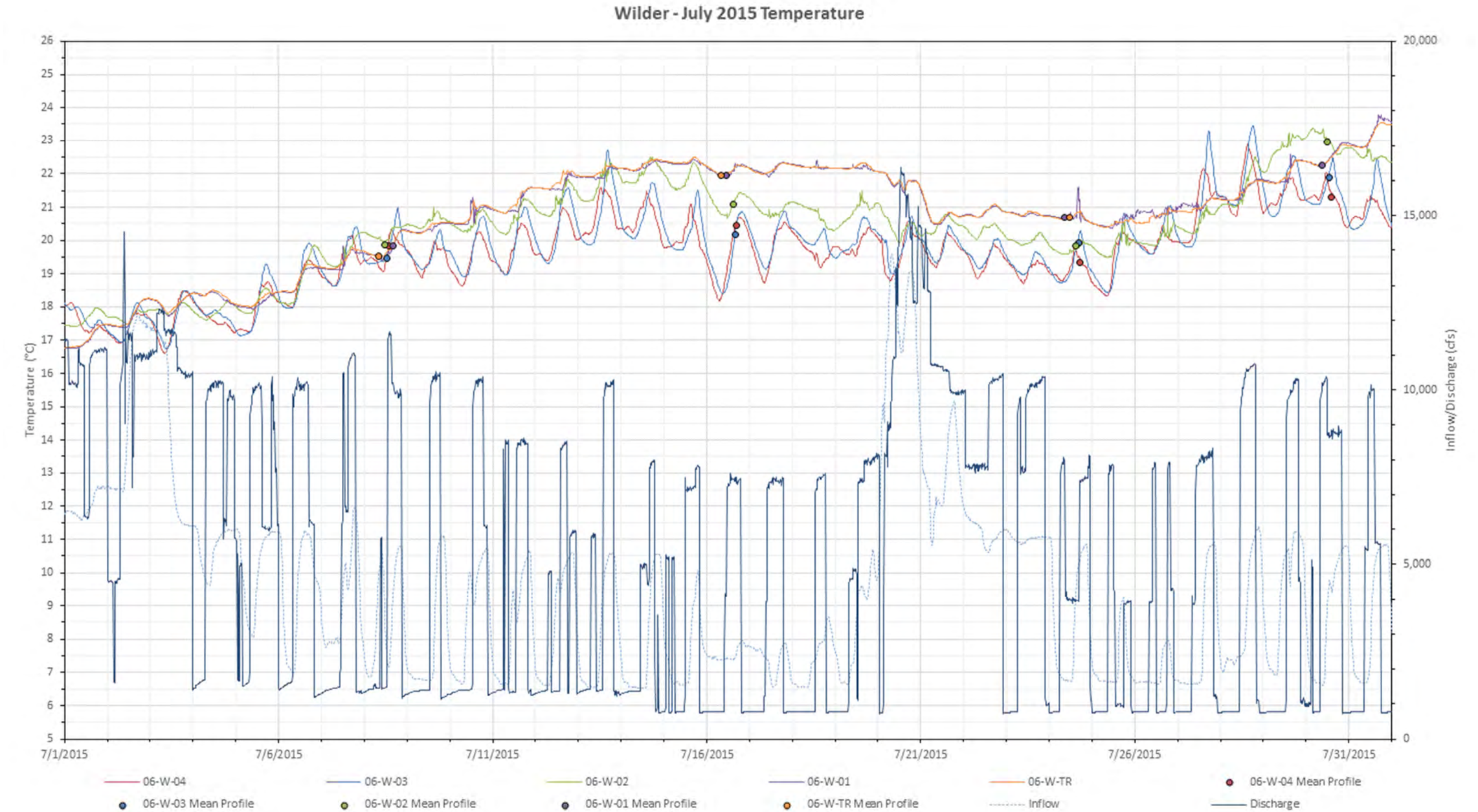

Figure F-3. 2015 July water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

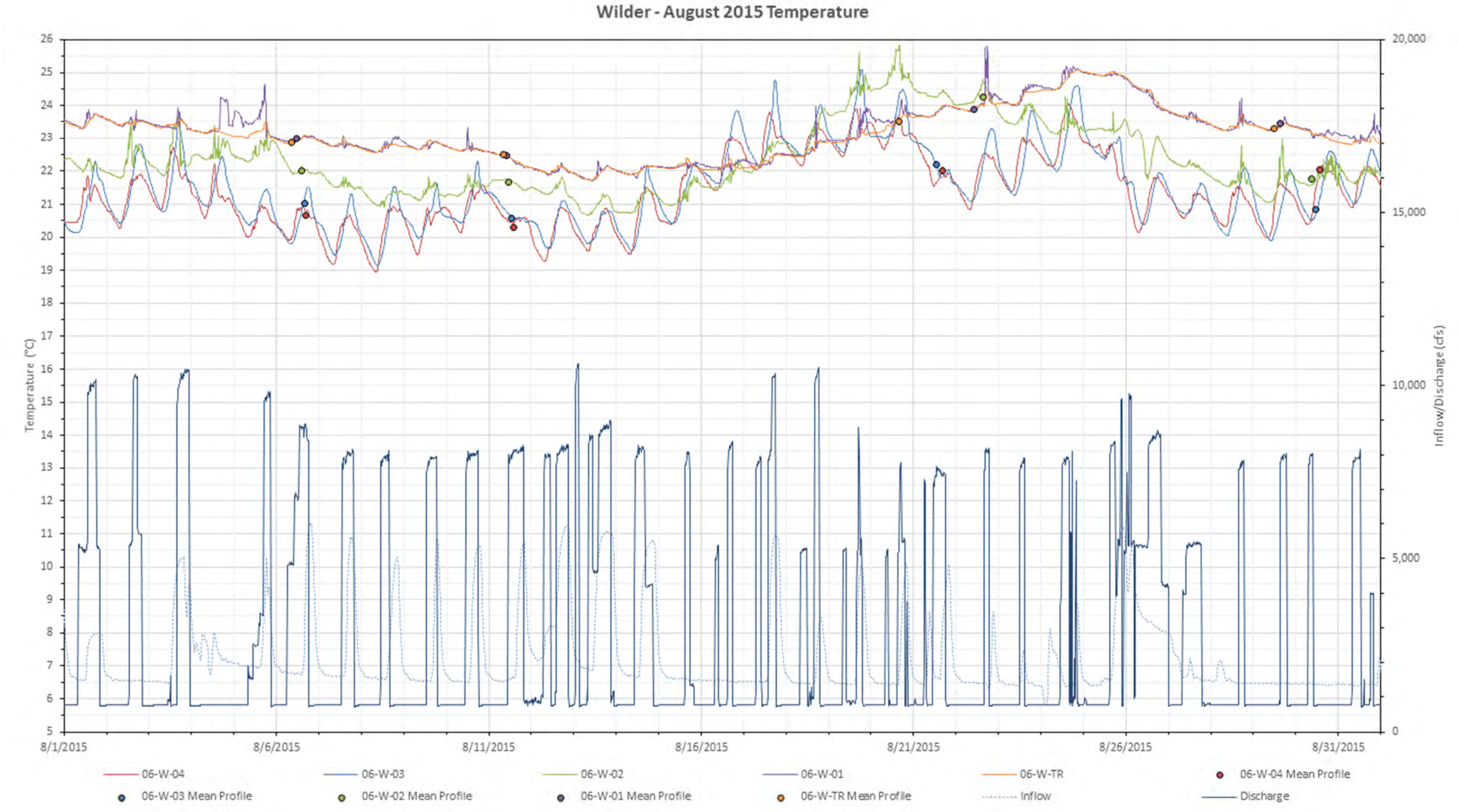

Figure F-4. 2015 August water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

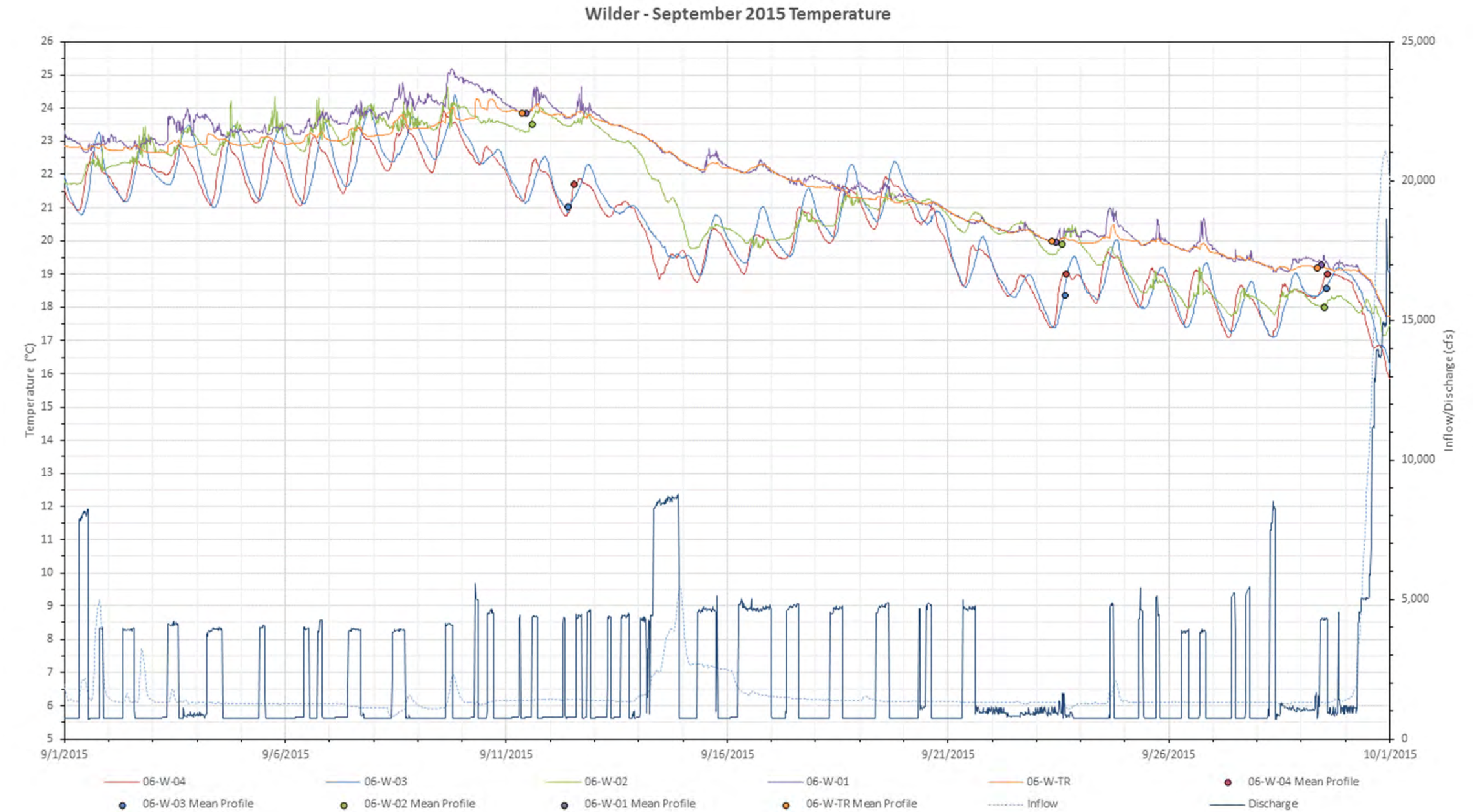

Figure F-5. 2015 September water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

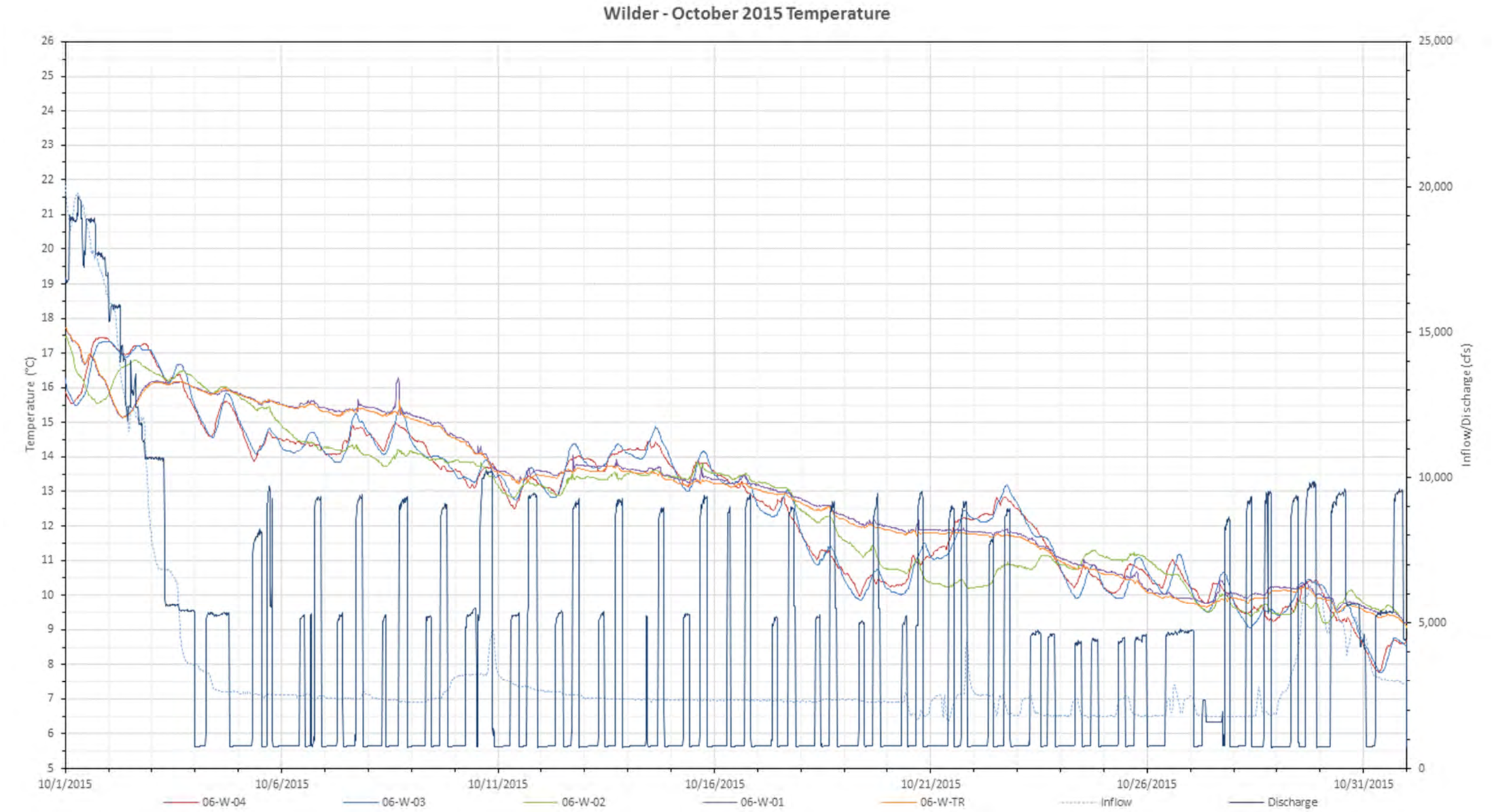

Figure F-6. 2015 October water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

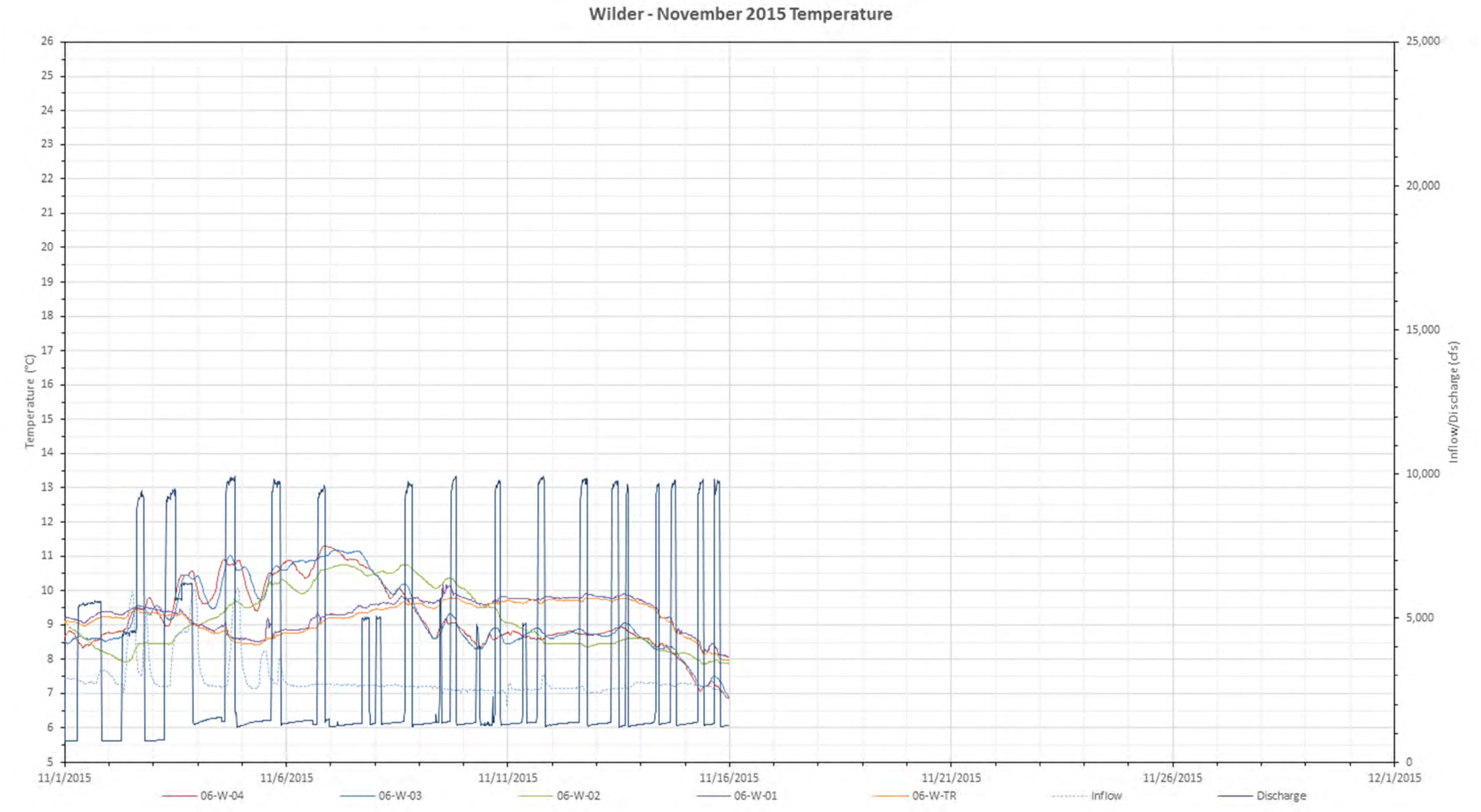

Figure F-7. 2015 November water temperatures at all Wilder stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

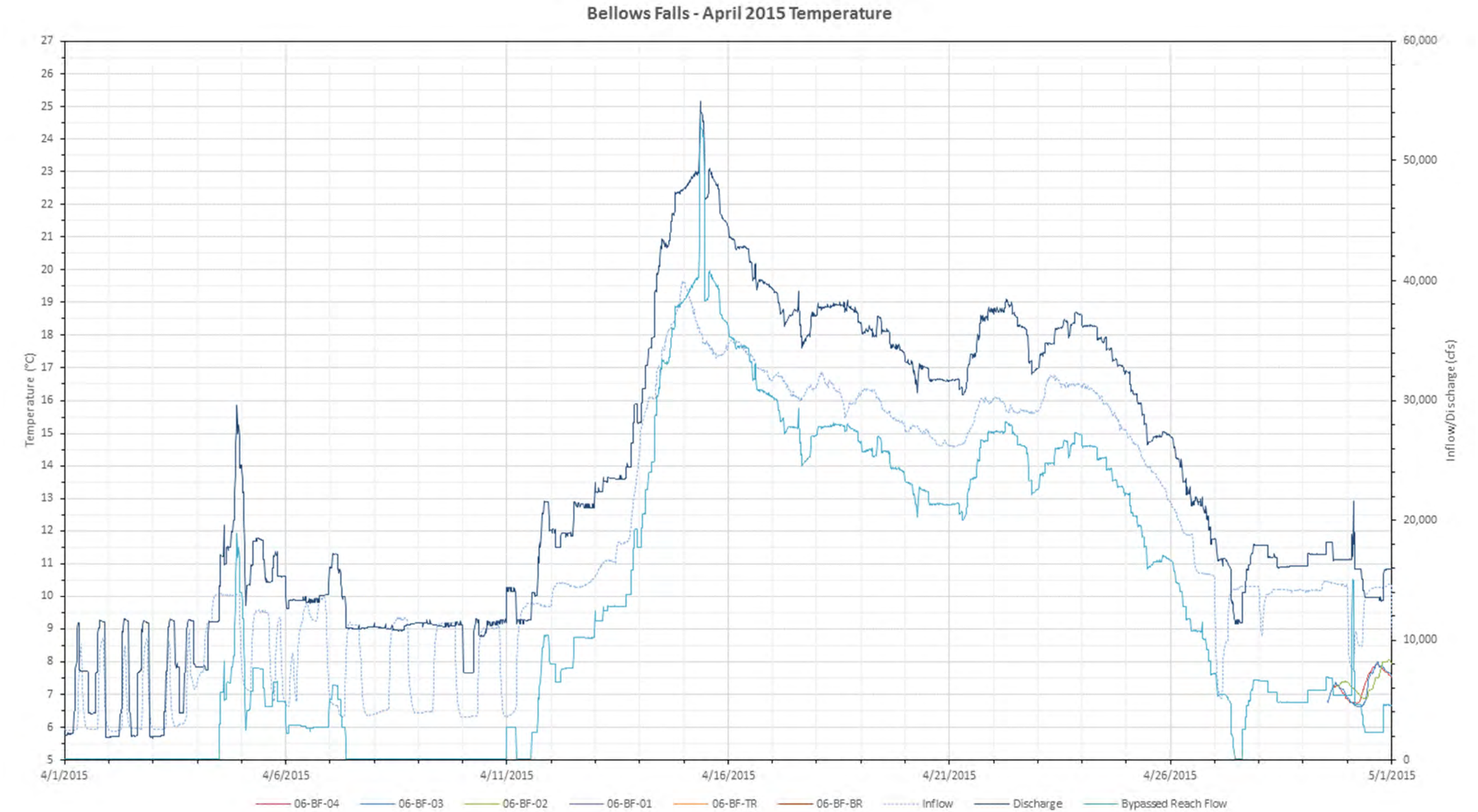

Figure F-8. 2015 April water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

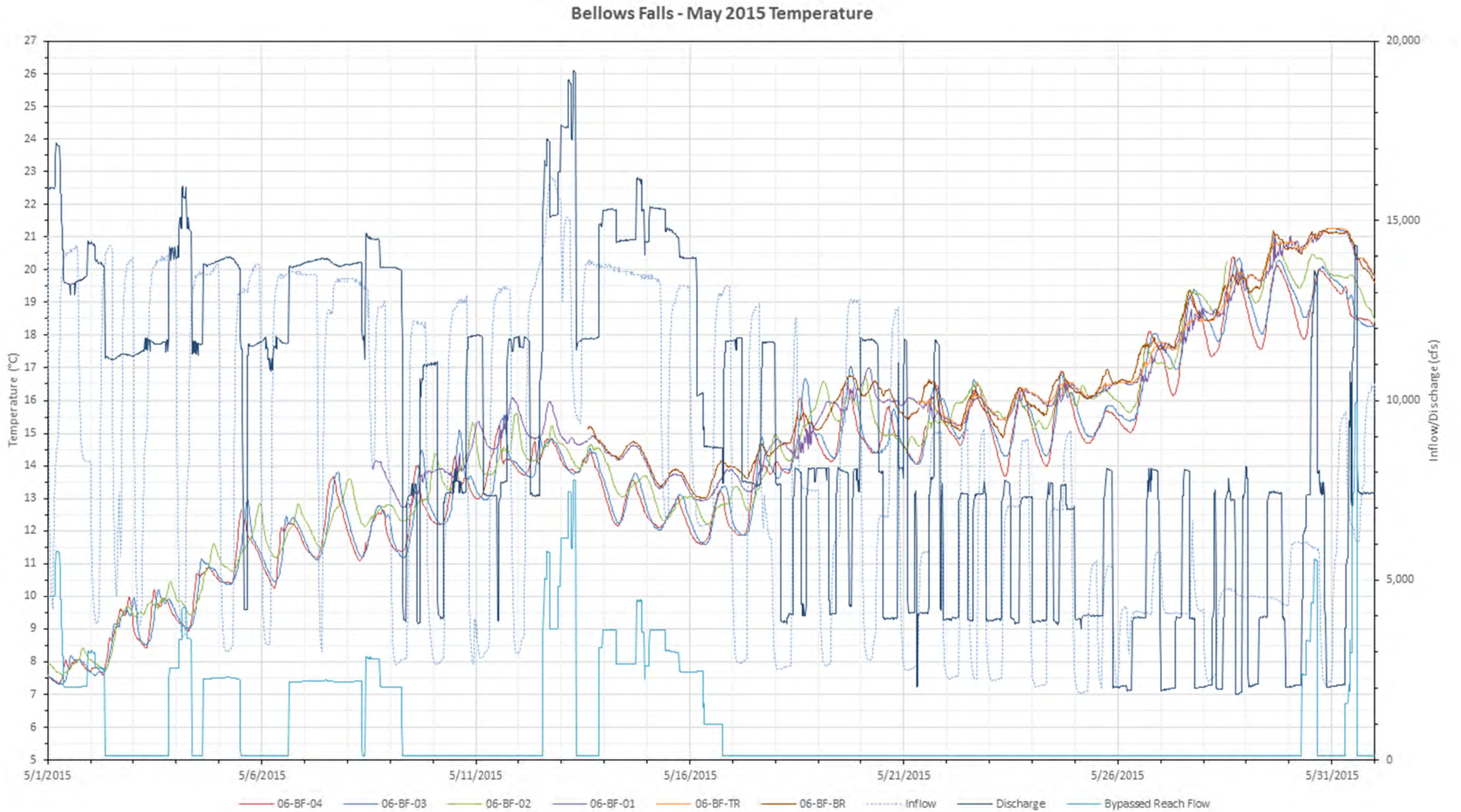

Figure F-9. 2015 May water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

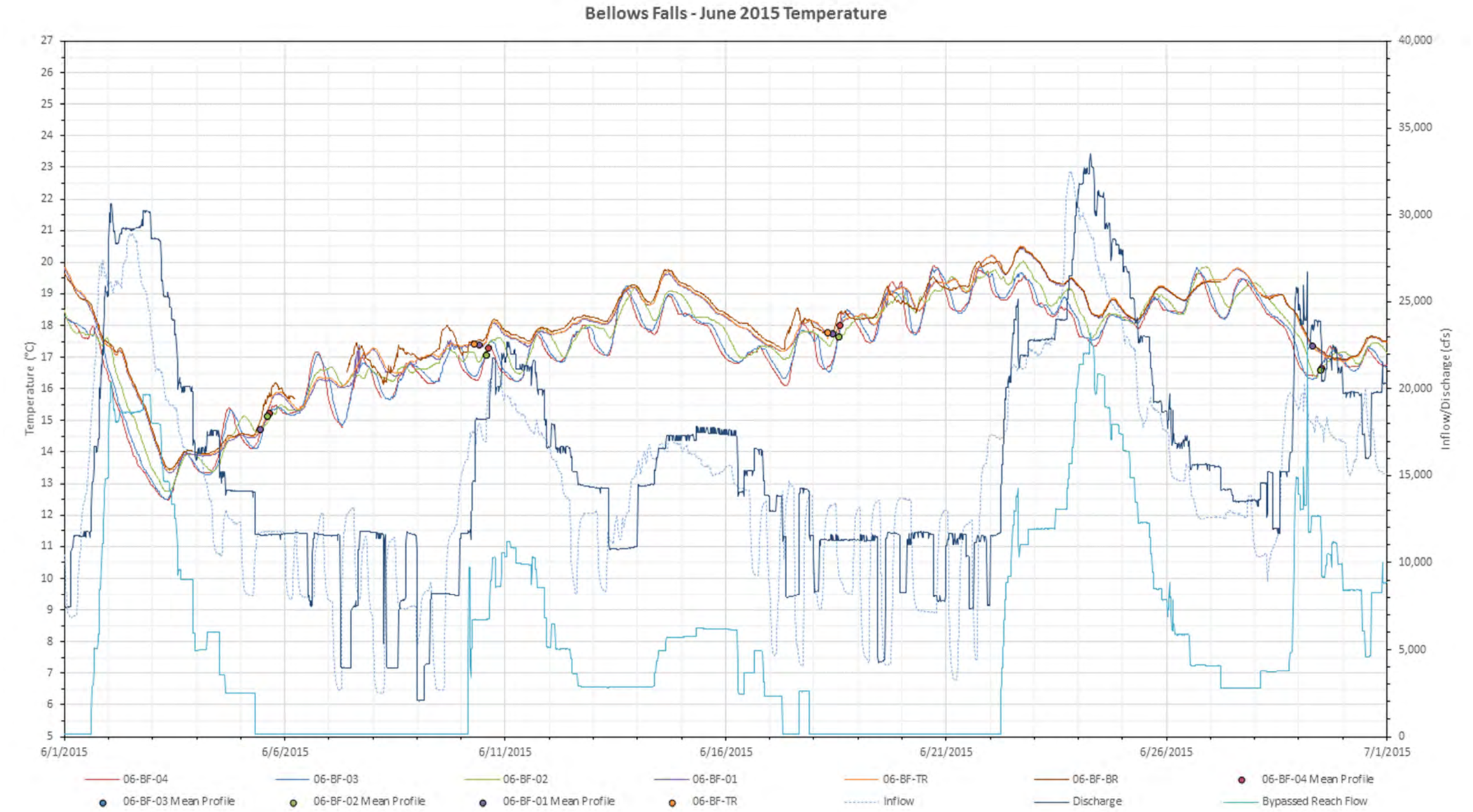

Figure F-10. 2015 June water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

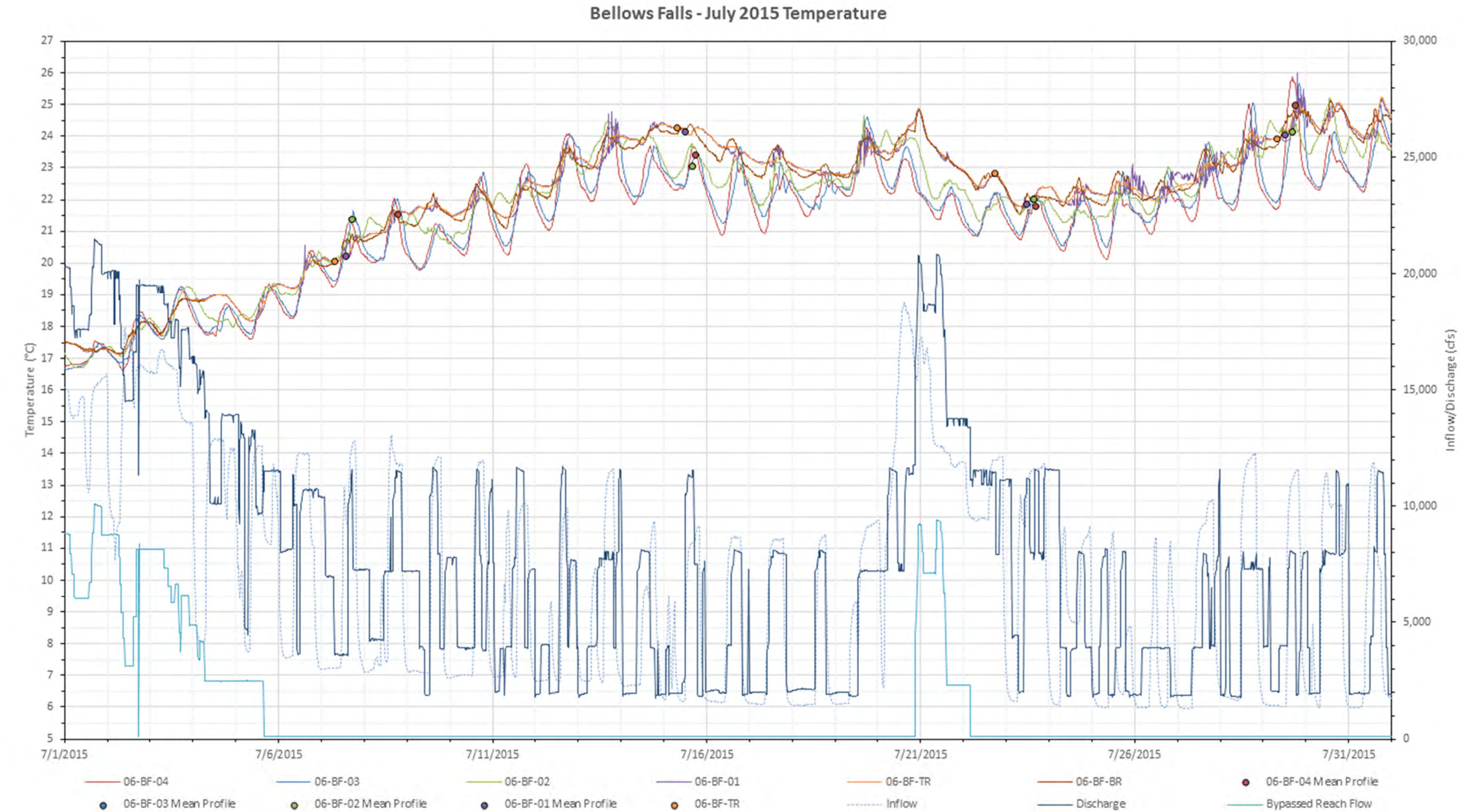

Figure F-11. 2015 July water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

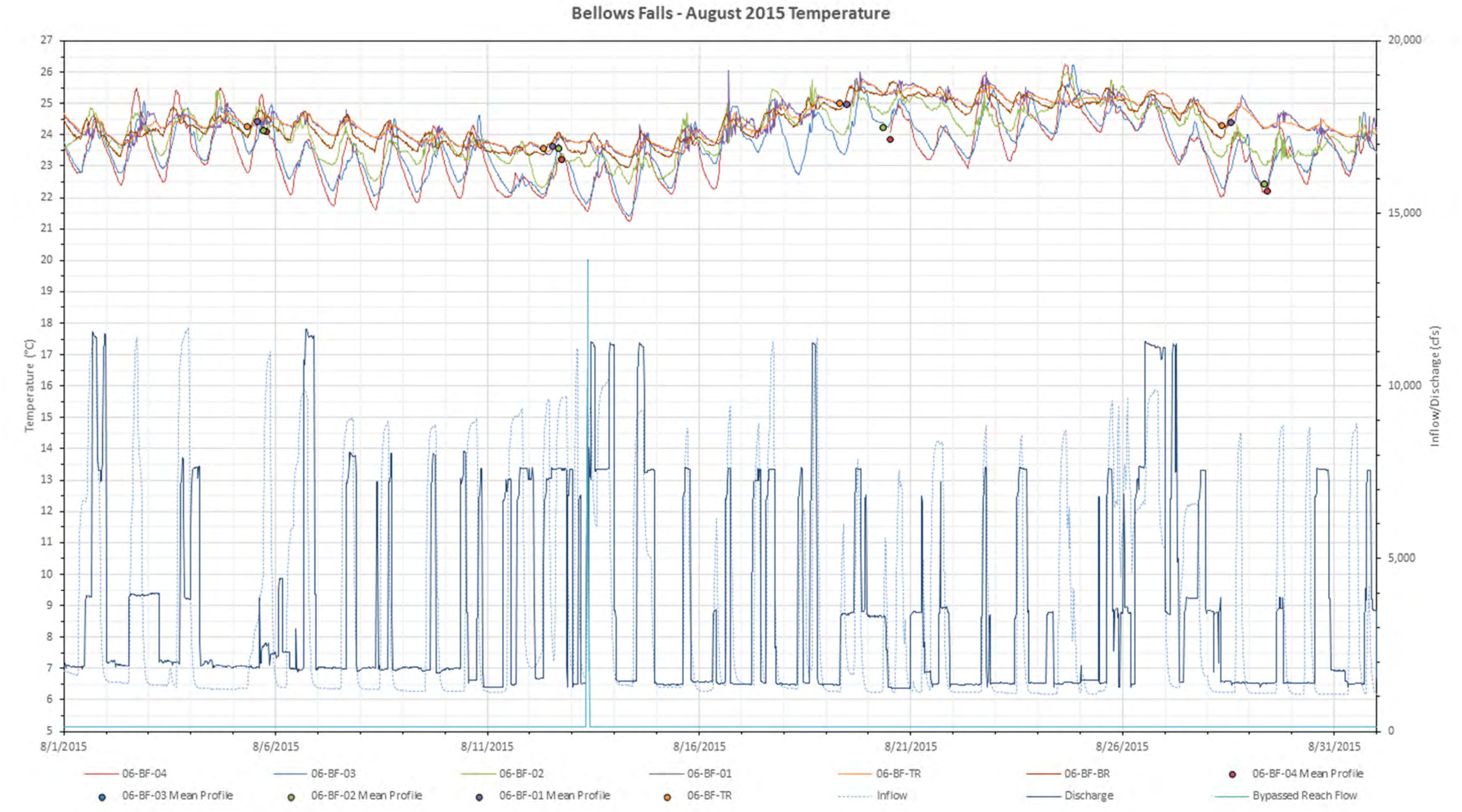

Figure F-12. 2015 August water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

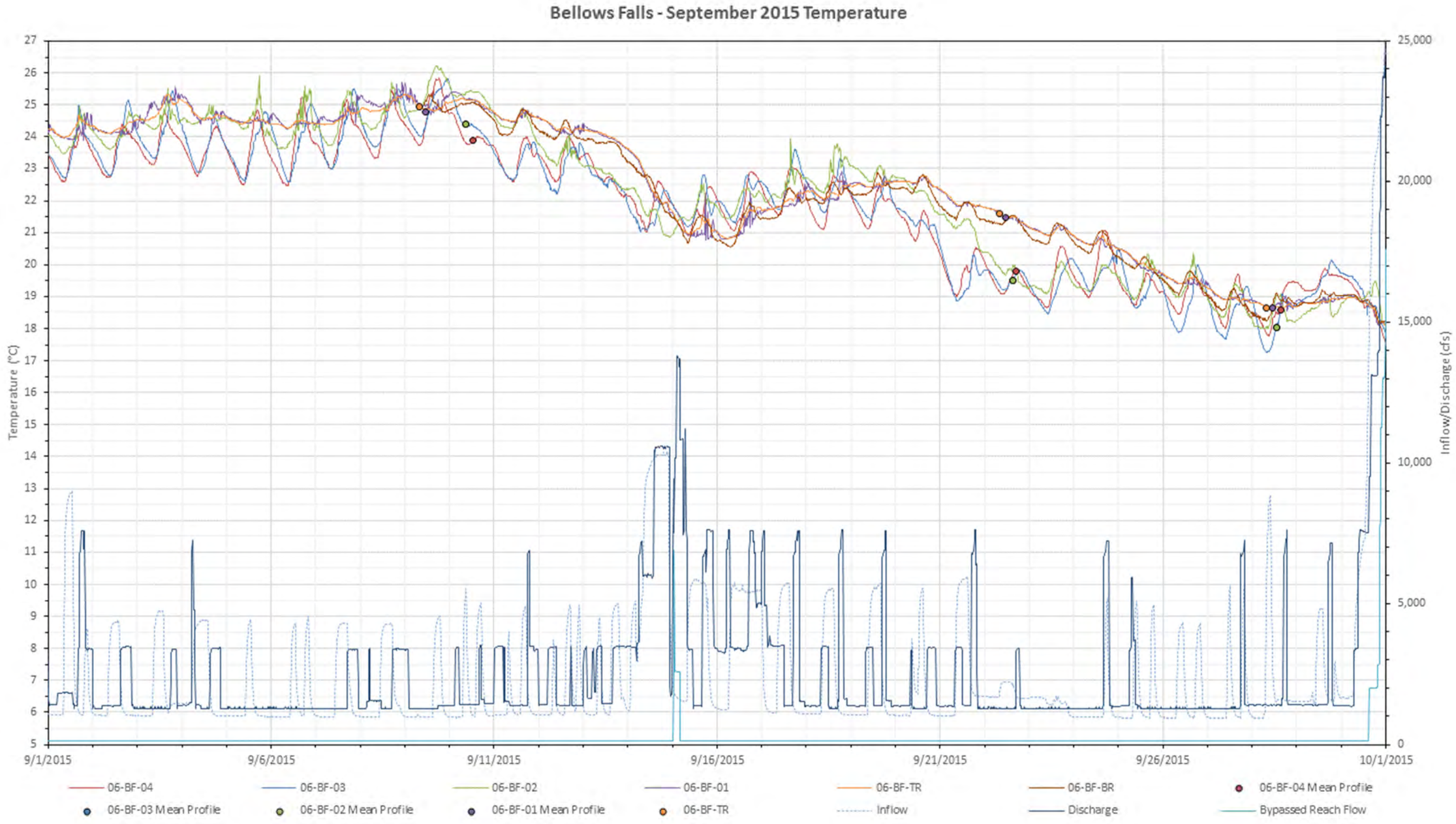

Figure F-13. 2015 September water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

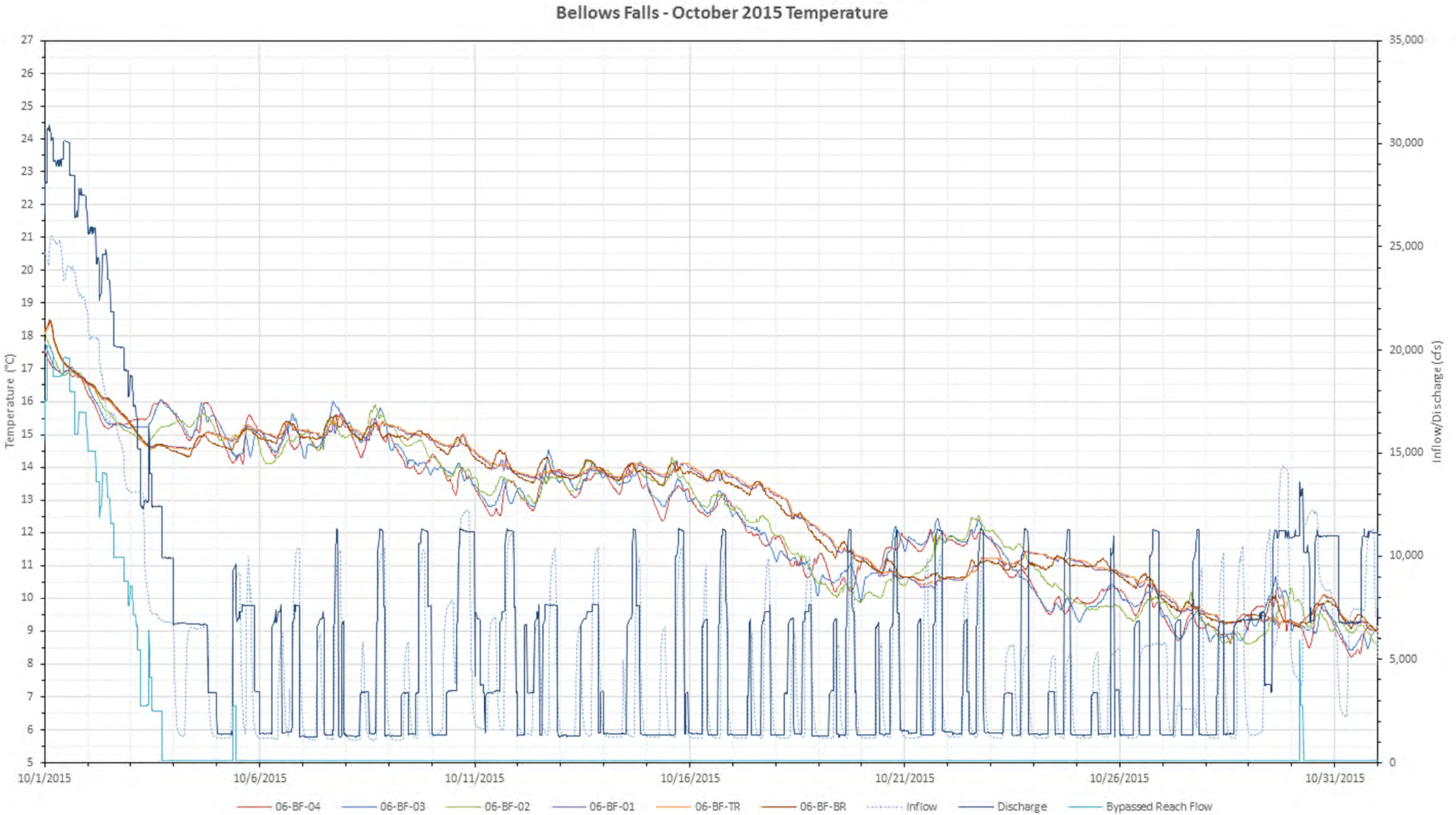

Figure F-14. 2015 October water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

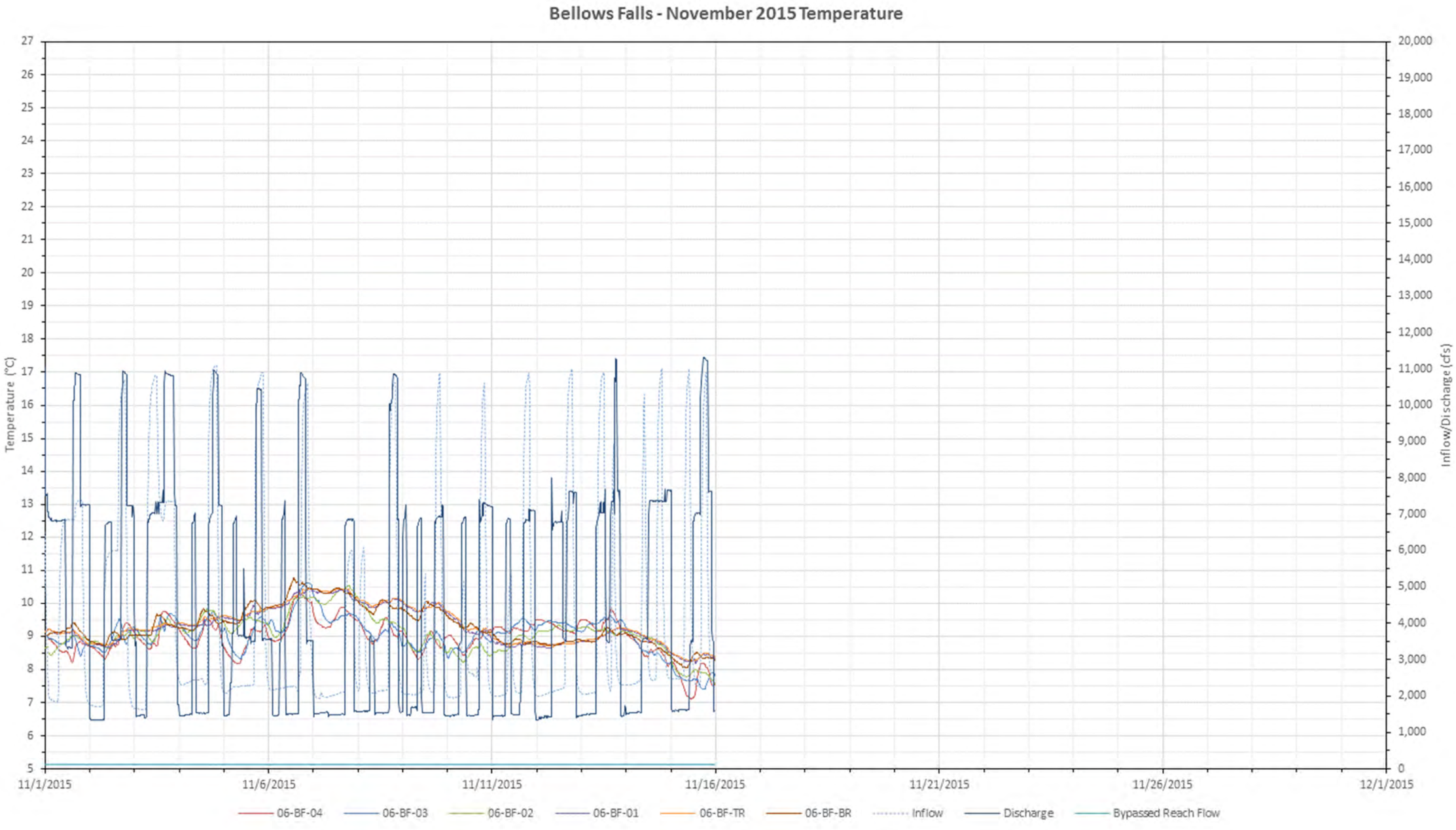

Figure F-15. 2015 November water temperatures at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

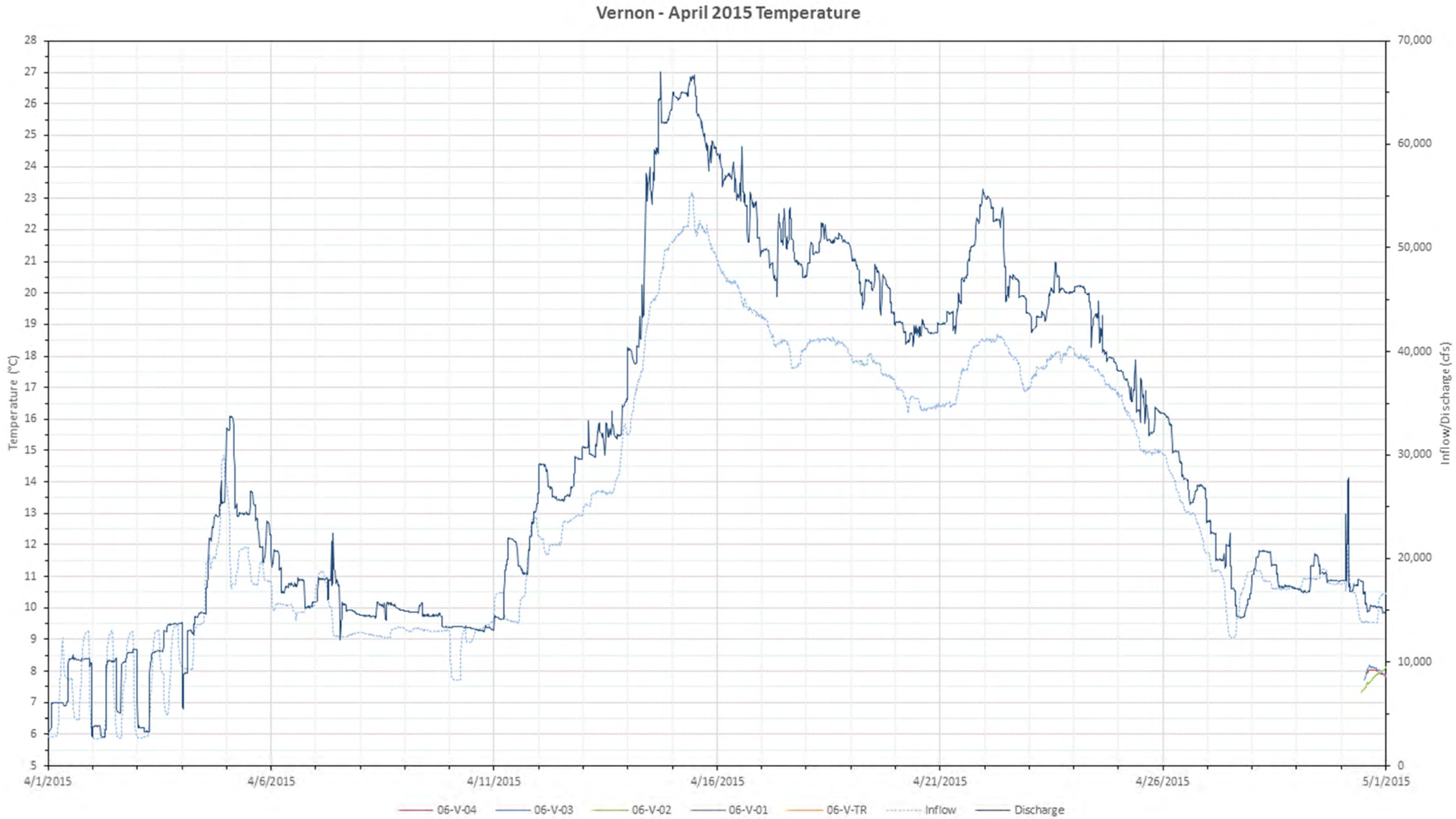

Figure F-16. 2015 April water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

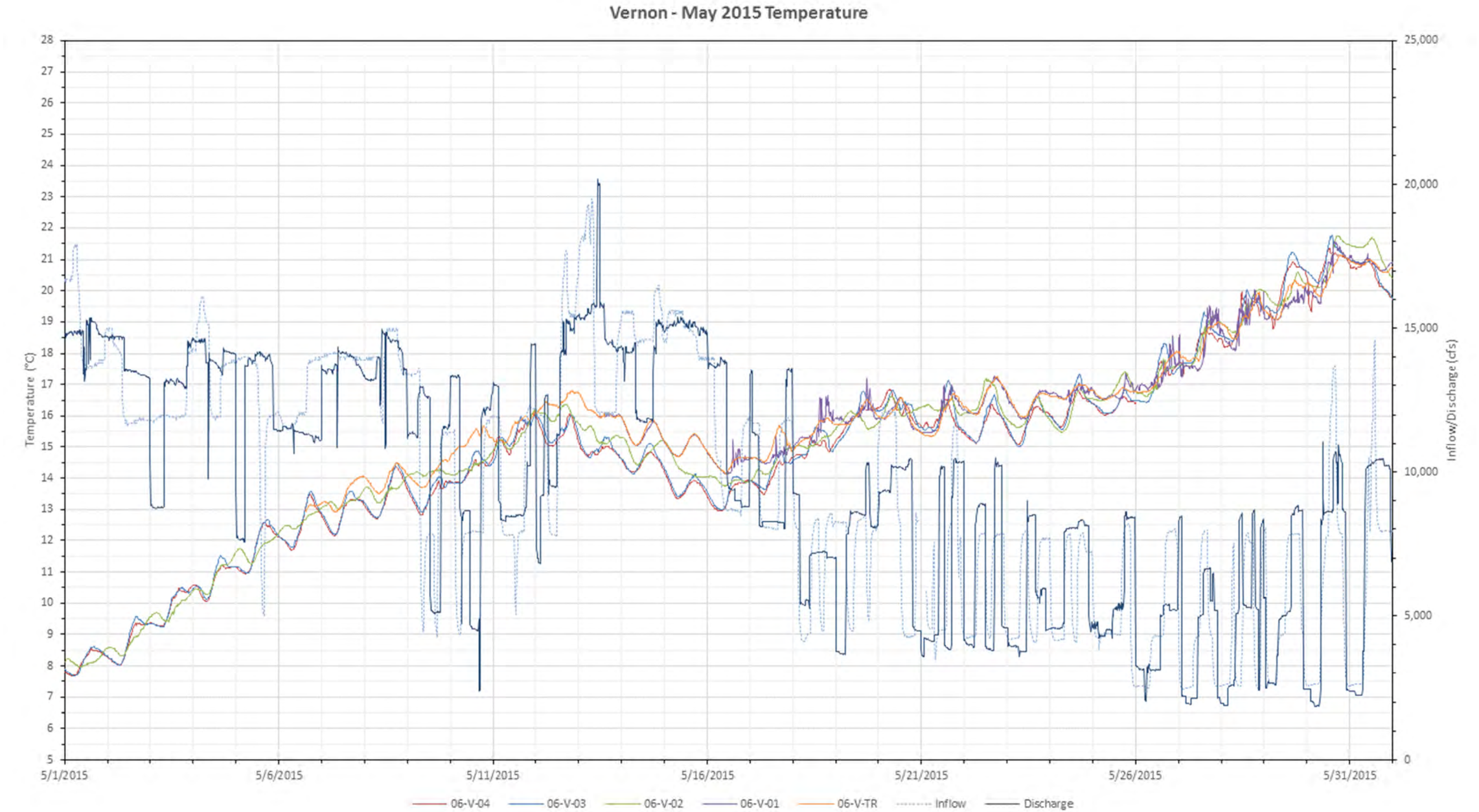

Figure F-17. 2015 May water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

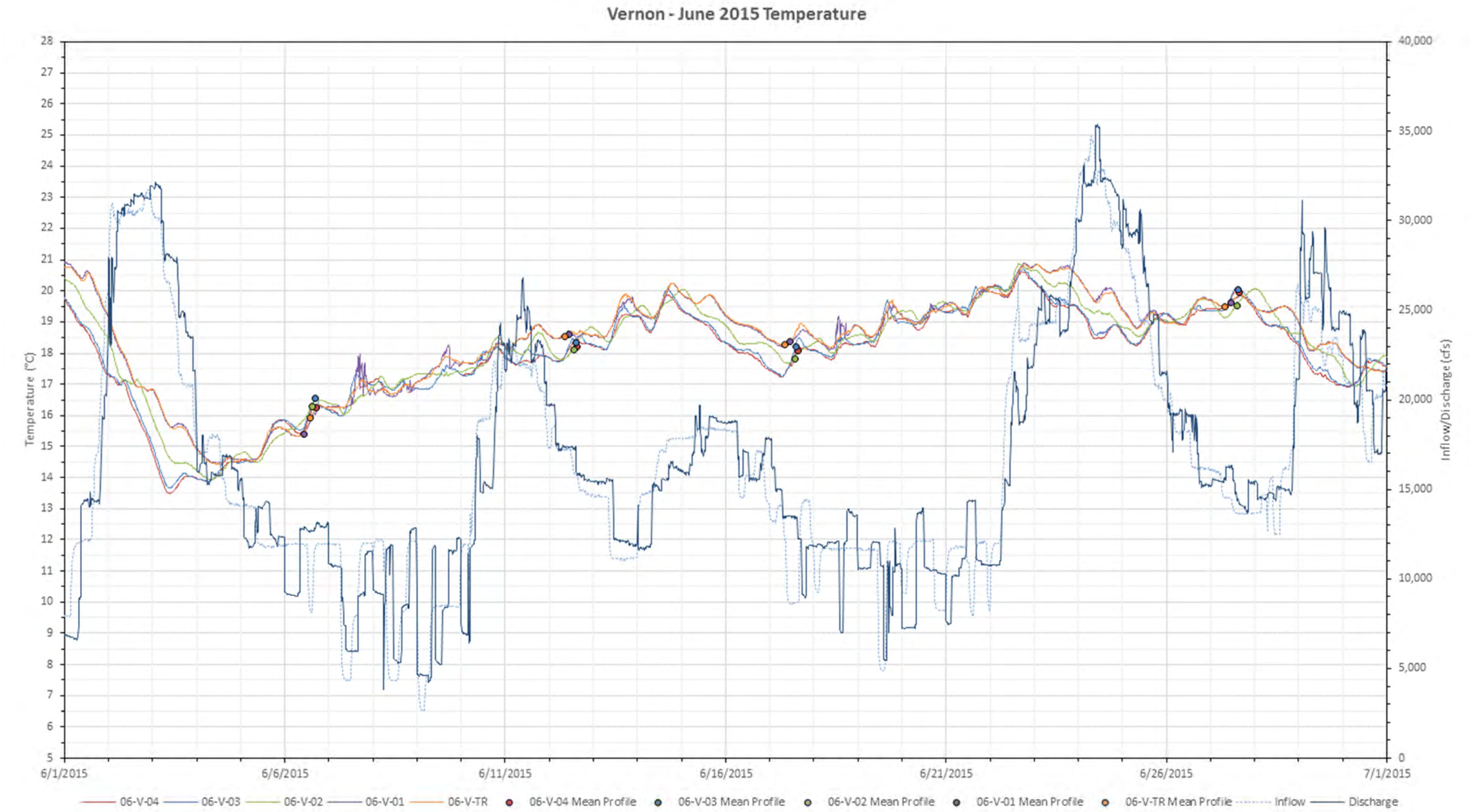

Figure F-18. 2015 June water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

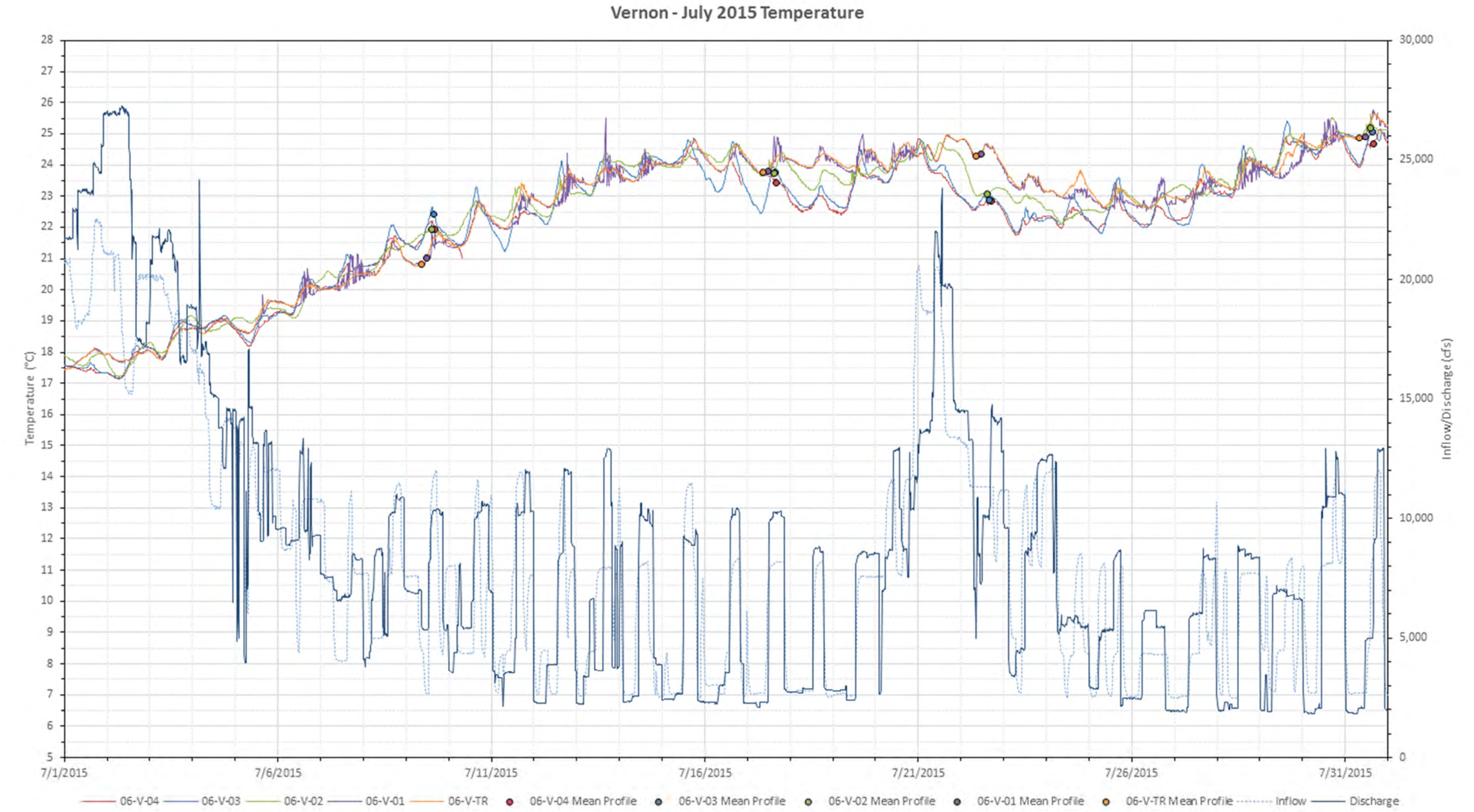

Figure F-19. 2015 July water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

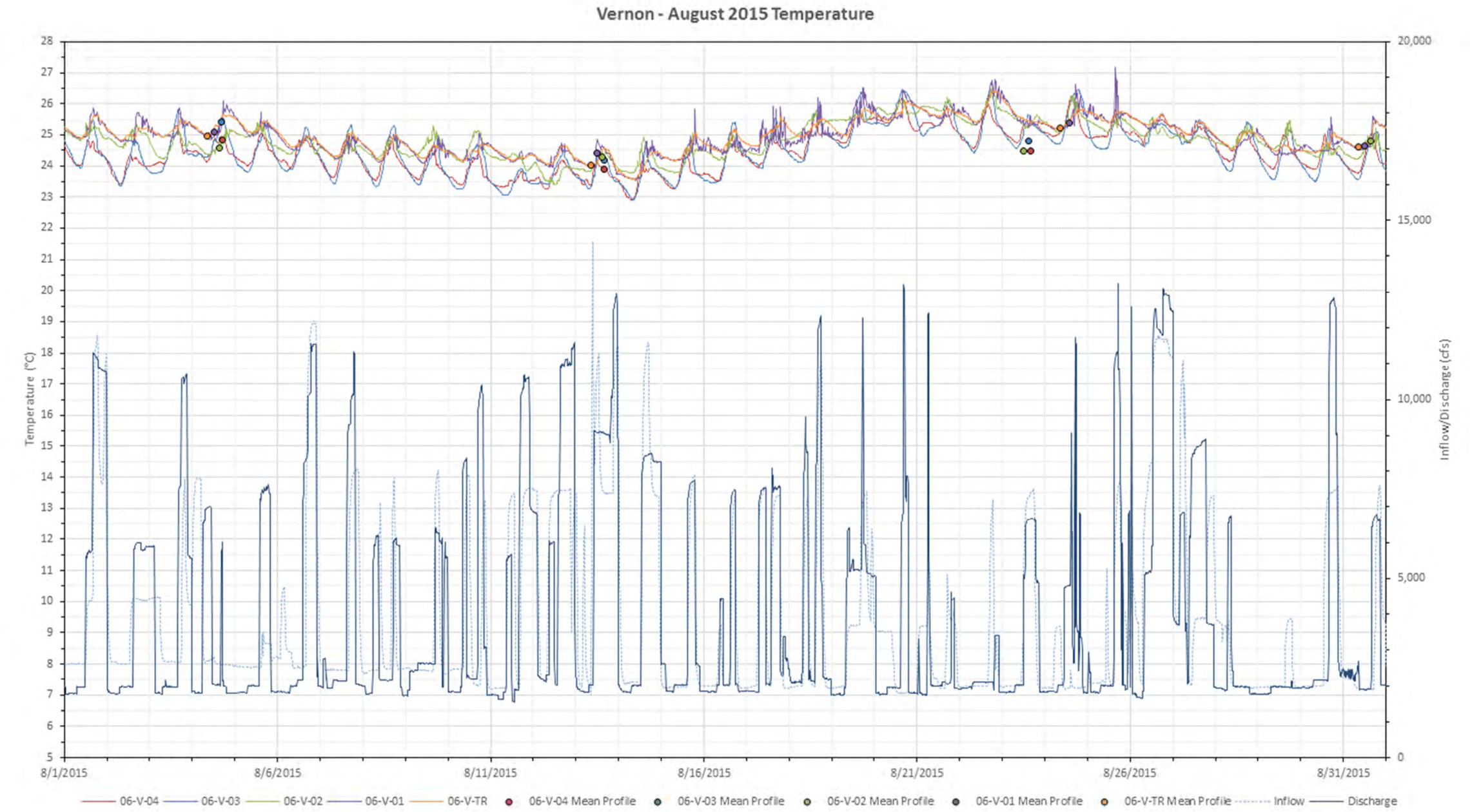

Figure F-20. 2015 August water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

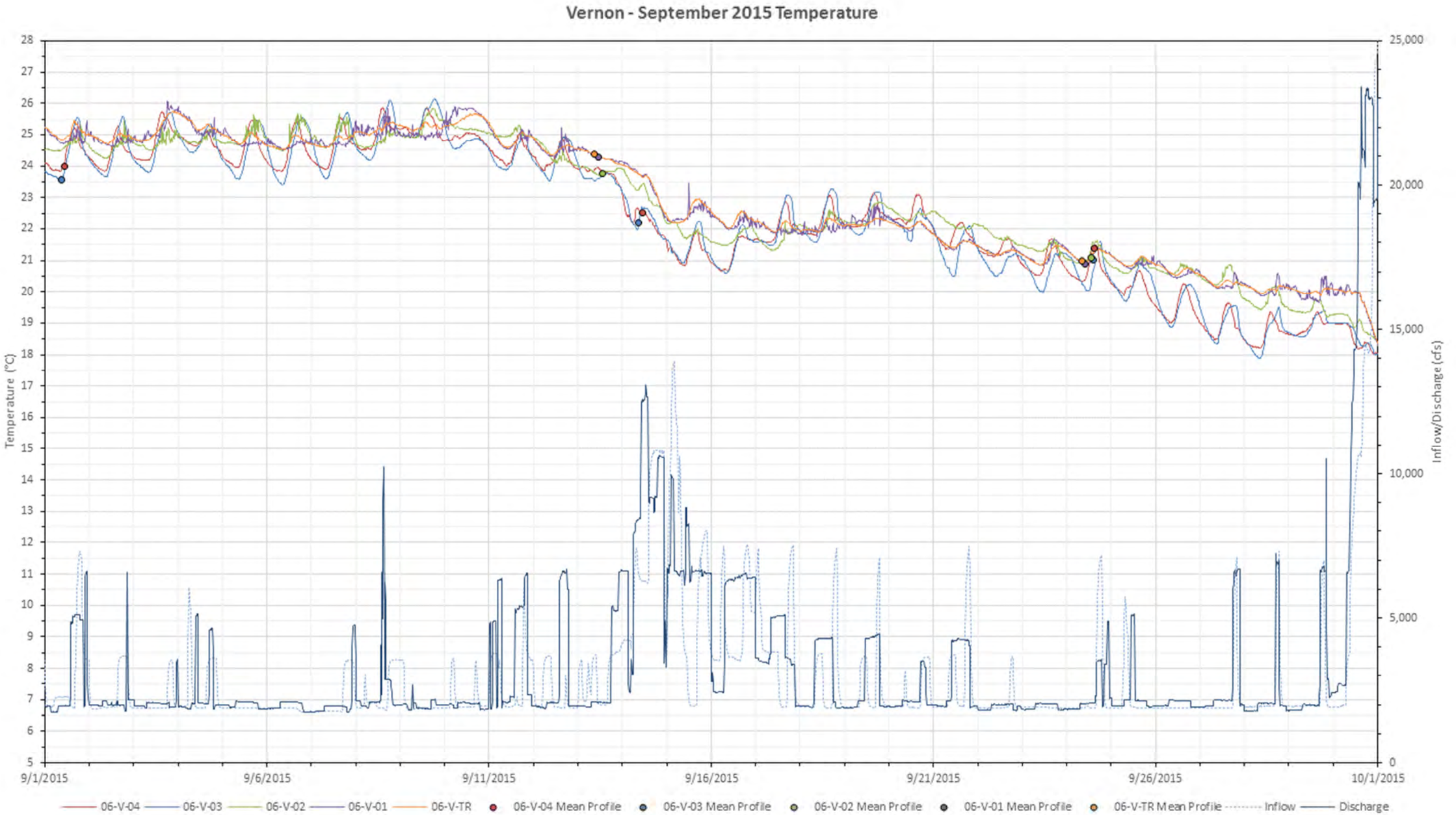

Figure F-21. 2015 September water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

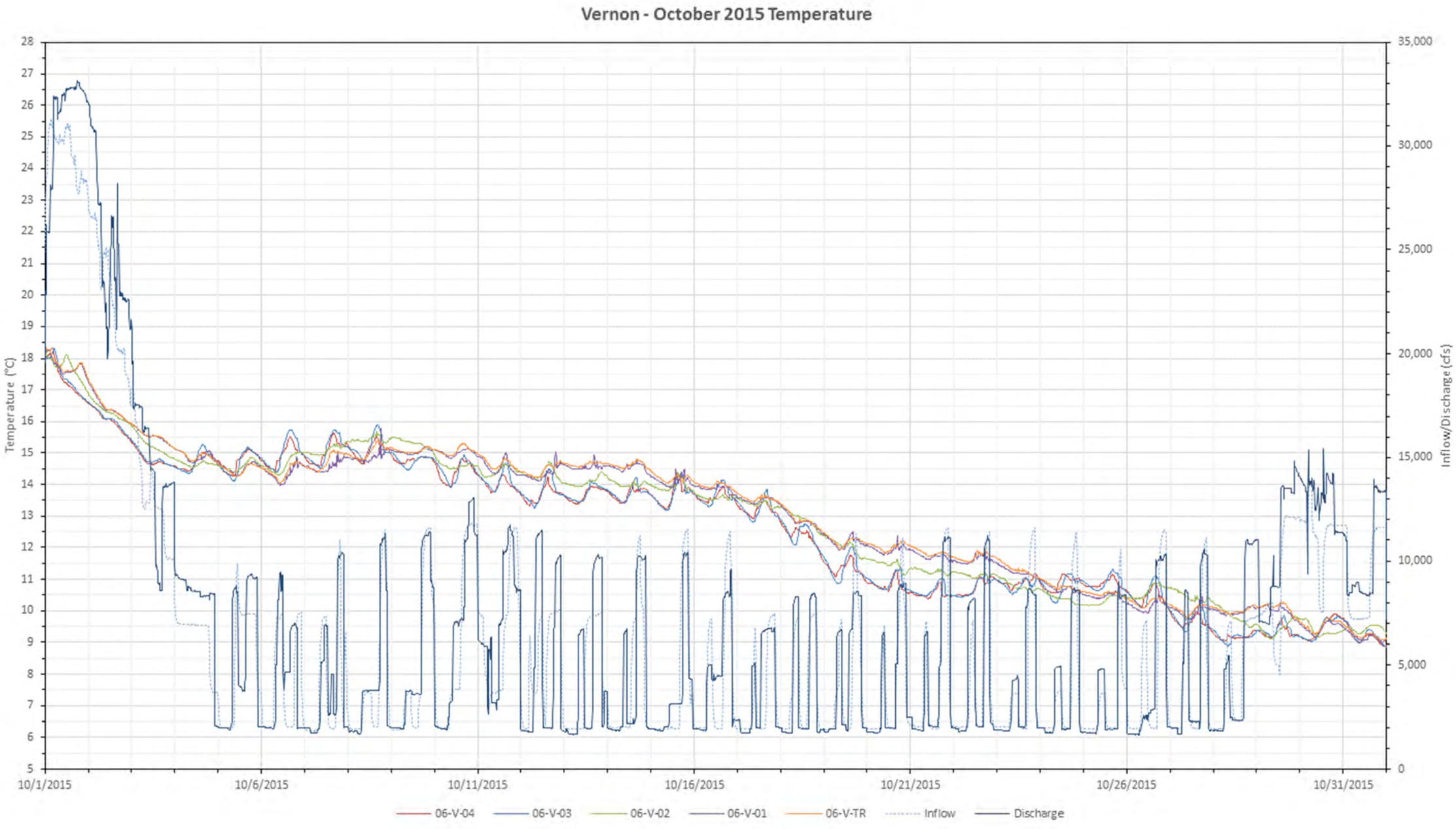

Figure F-22. 2015 October water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

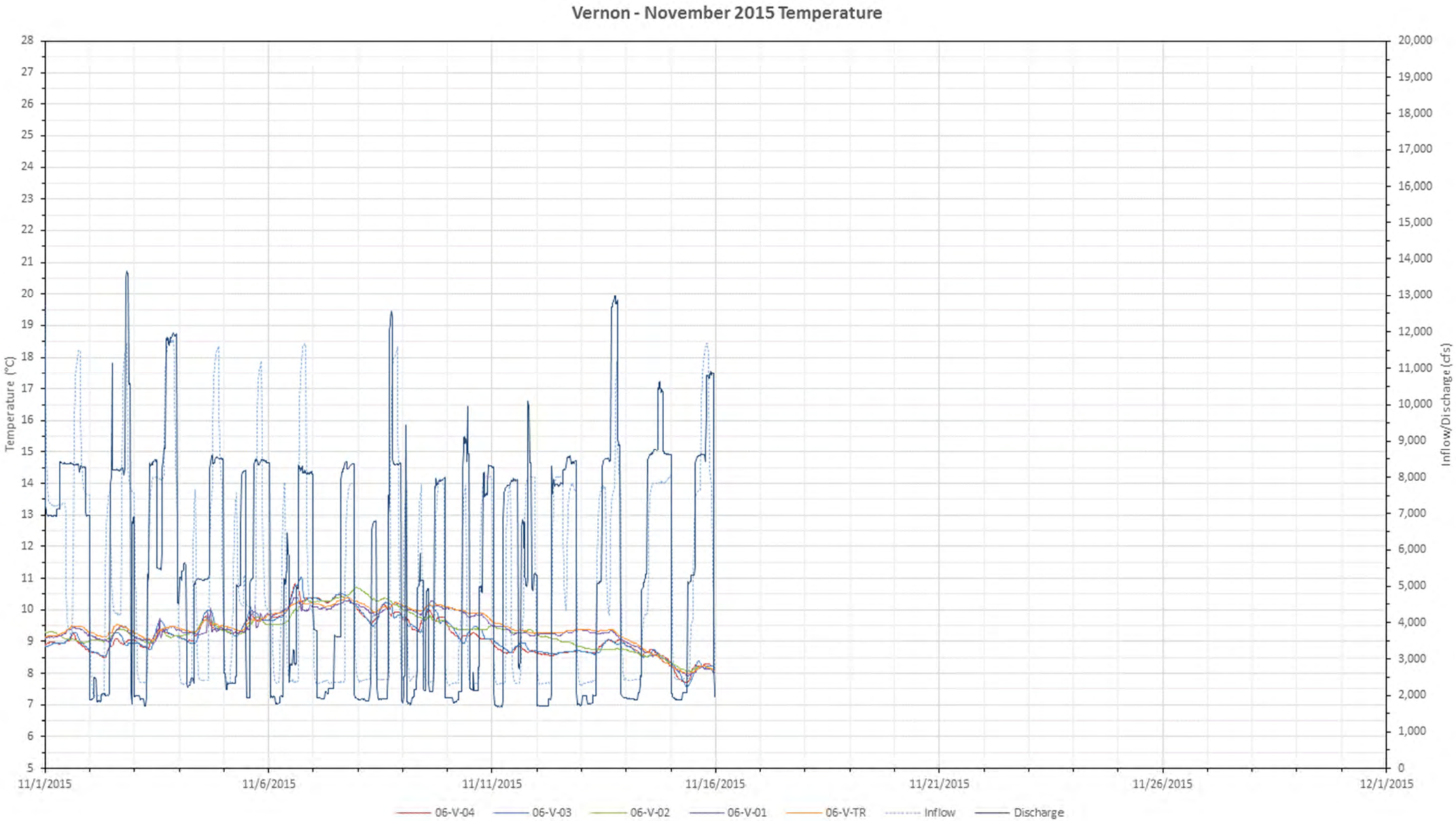

Figure F-23. 2015 November water temperatures at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

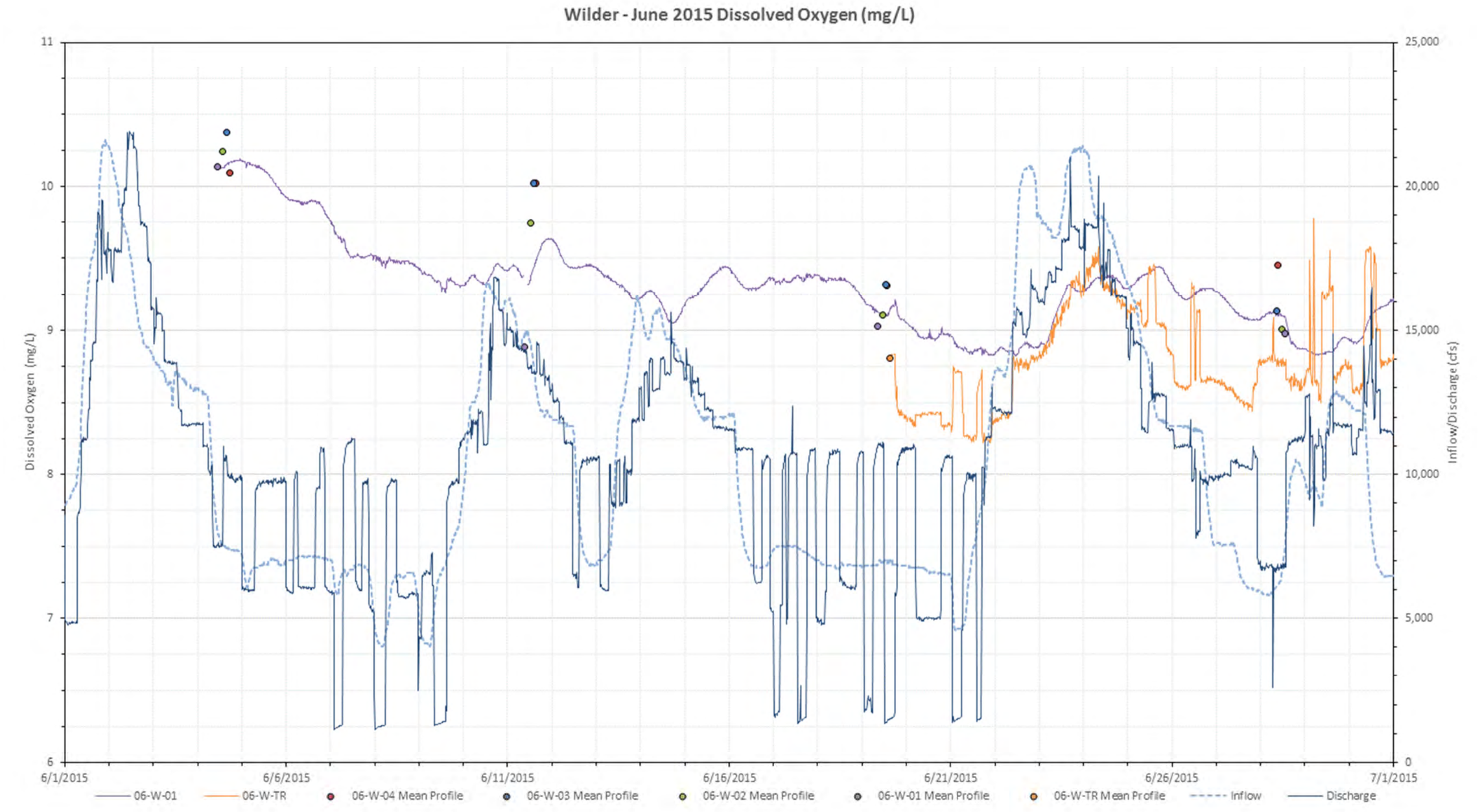

Figure F-24. 2015 June dissolved oxygen (mg/L) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

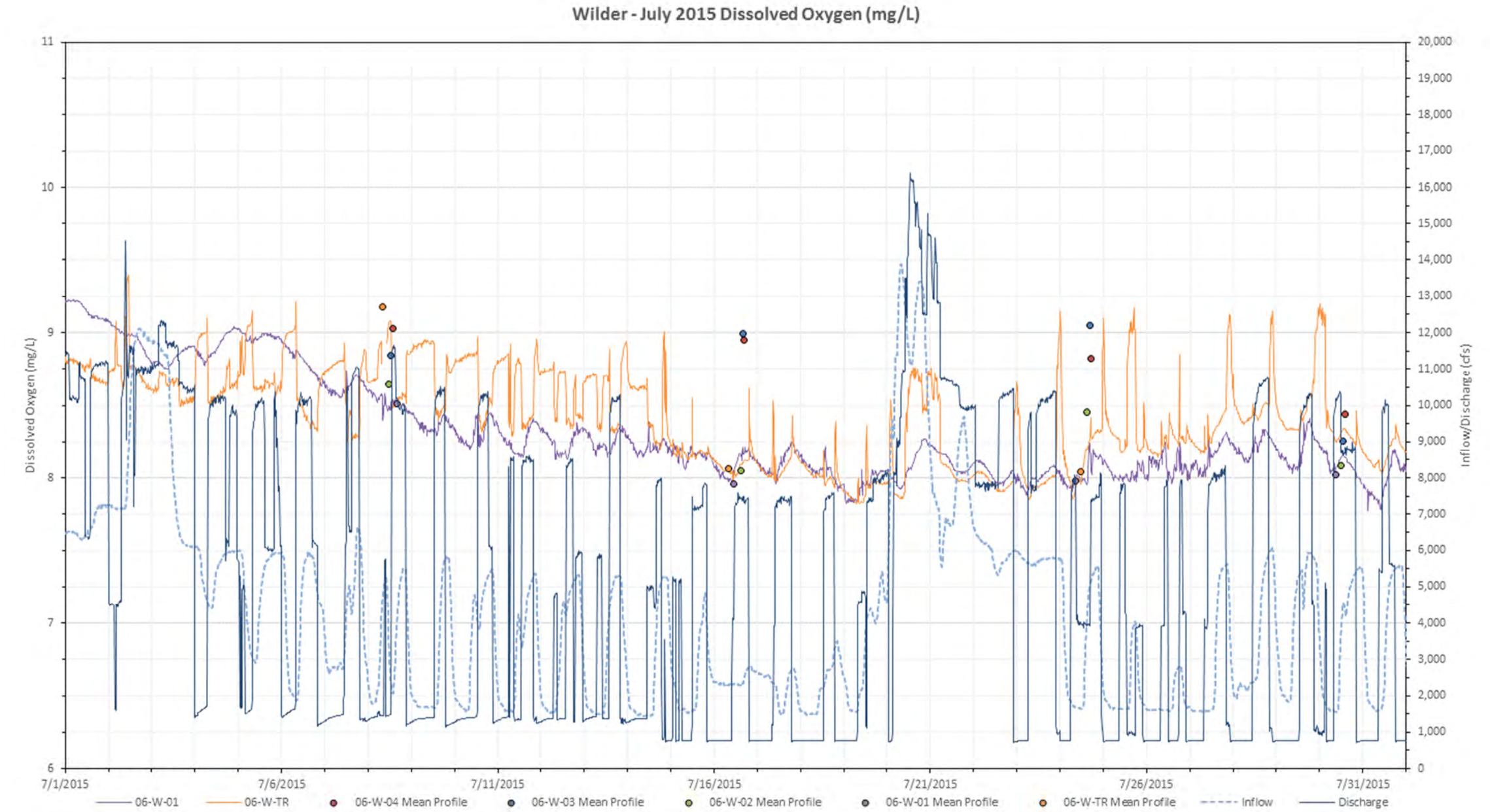

Figure F-25. 2015 July dissolved oxygen (mg/L) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

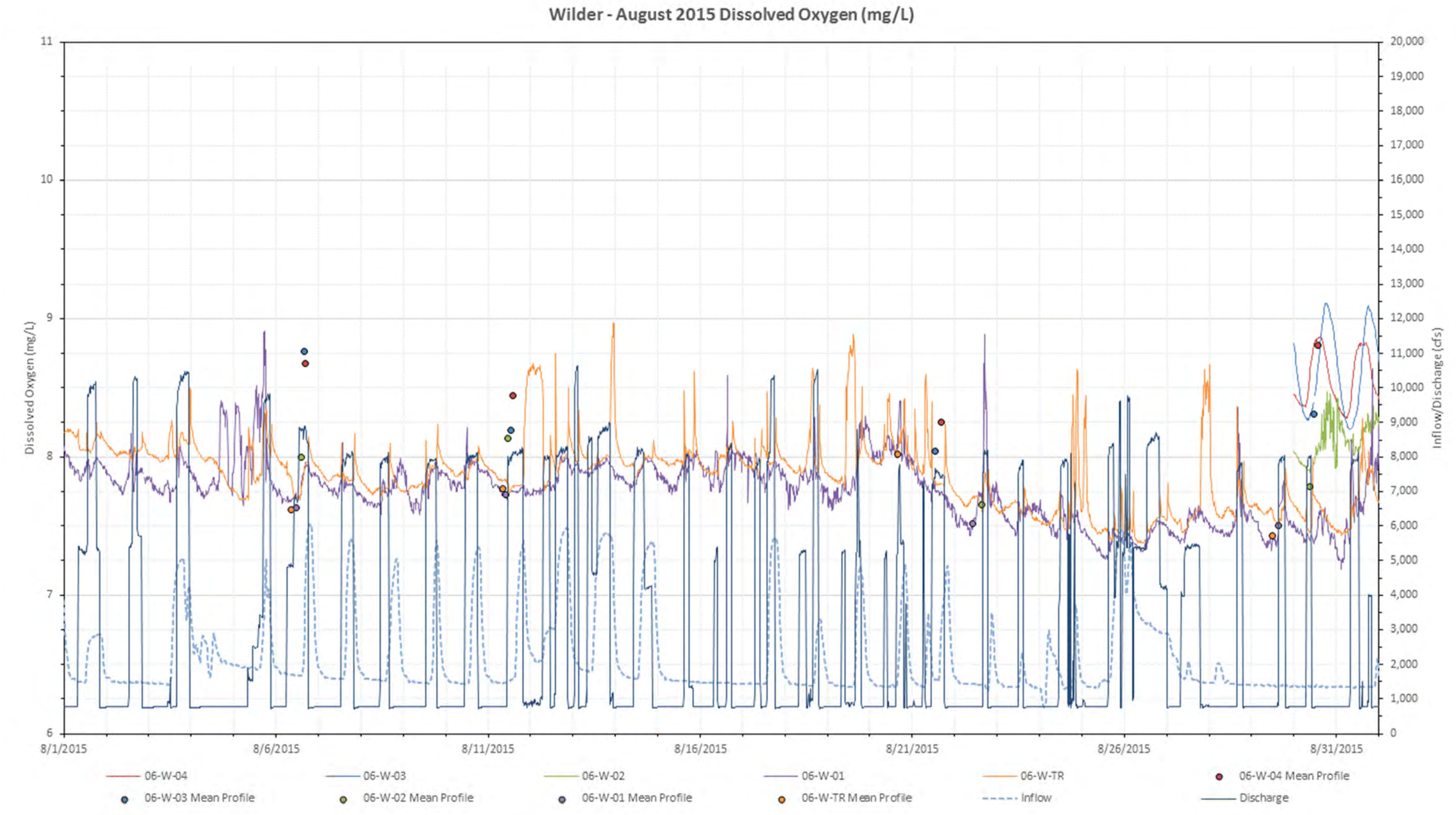

Figure F-26. 2015 August dissolved oxygen (mg/L) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

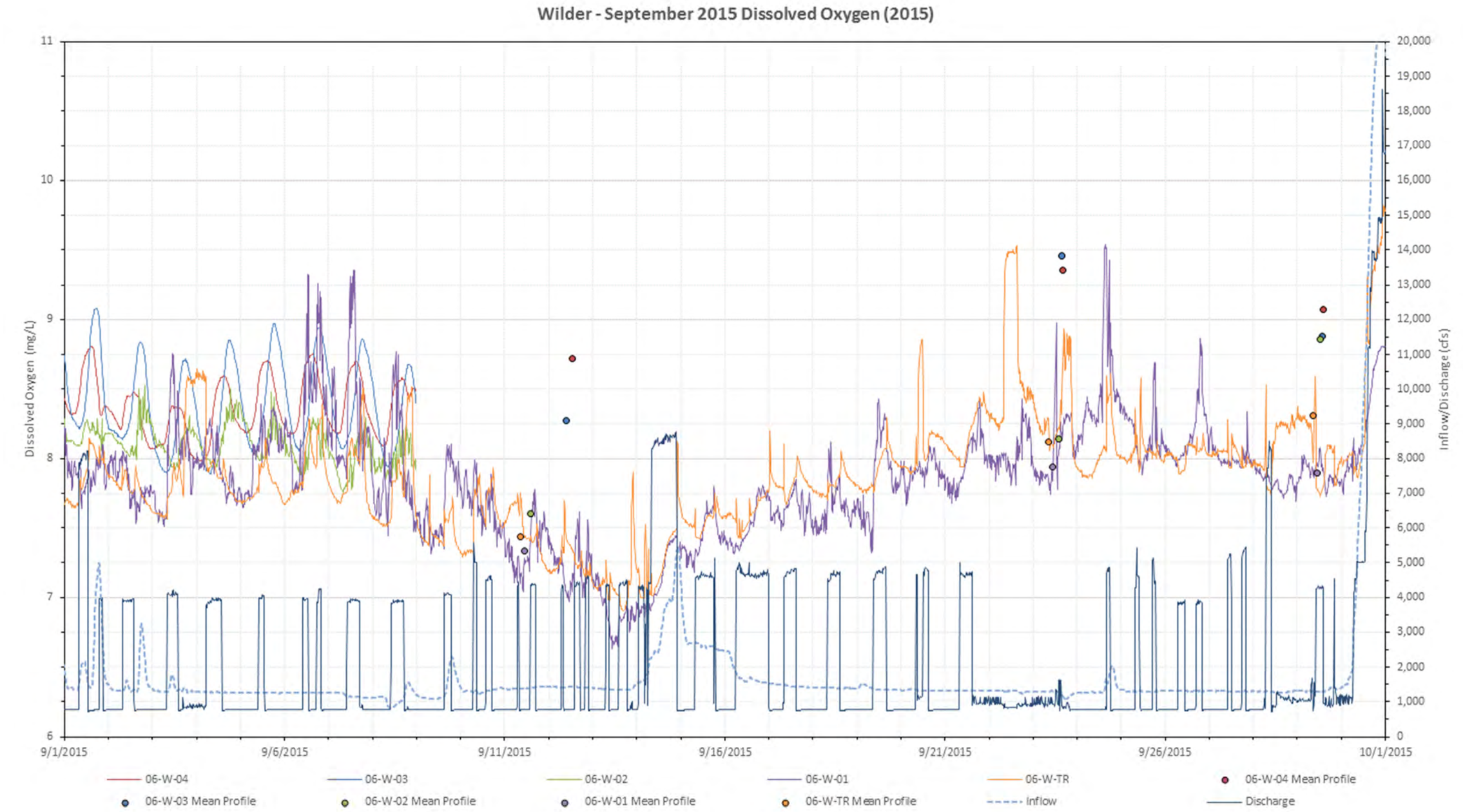

Figure F-27. 2015 September dissolved oxygen (mg/L) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

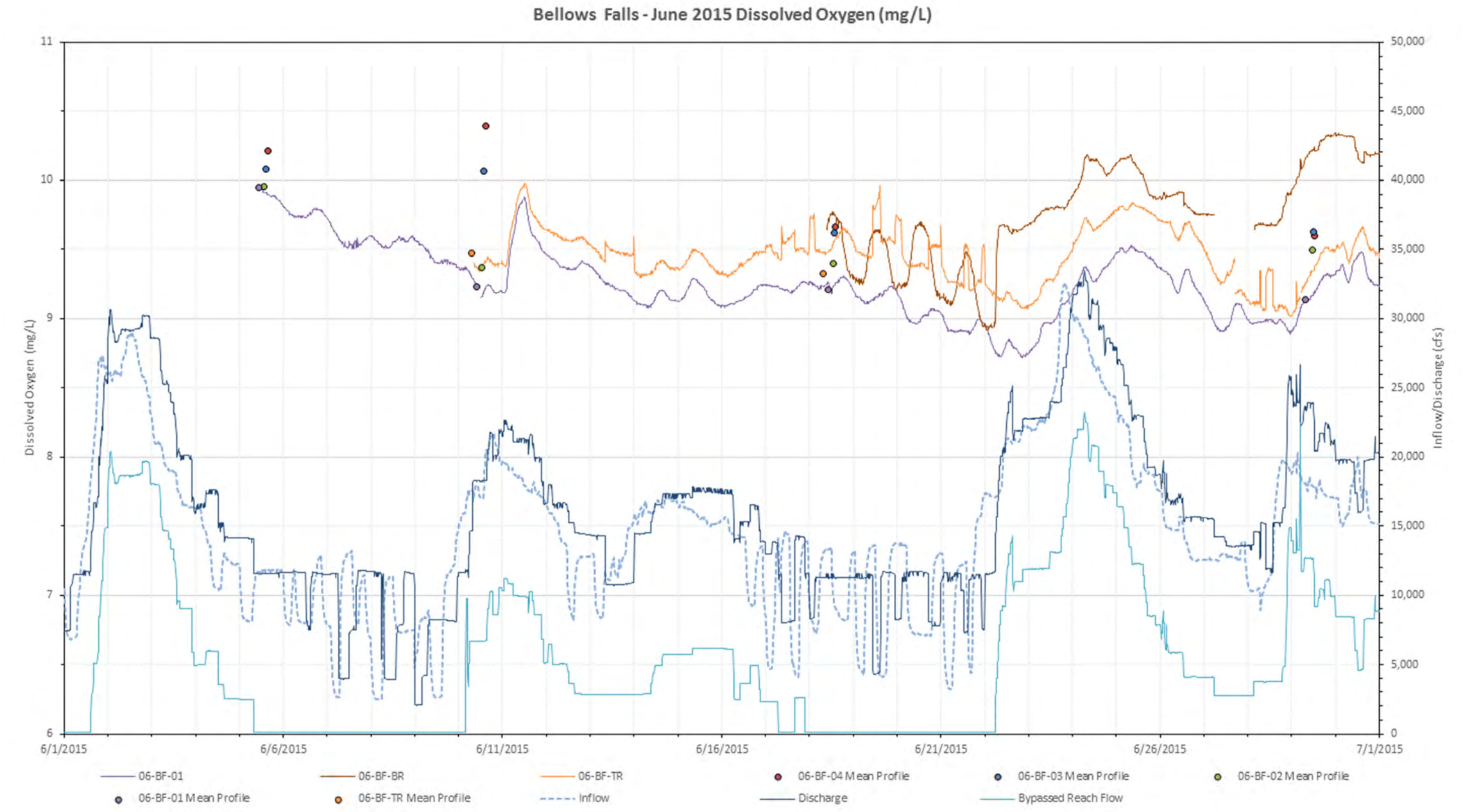

Figure F-28. 2015 June dissolved oxygen (mg/L) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

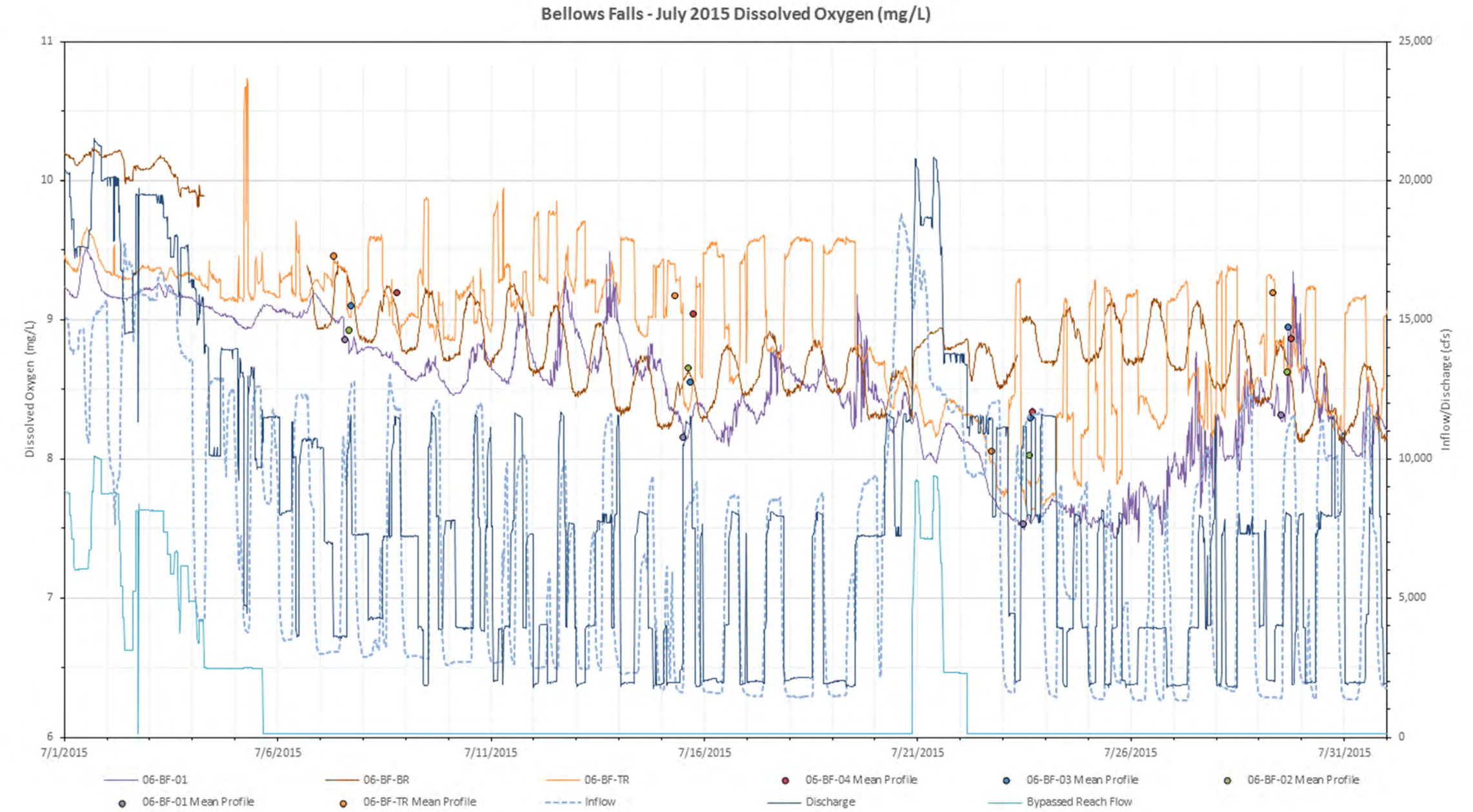

Figure F-29. 2015 July dissolved oxygen (mg/L) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

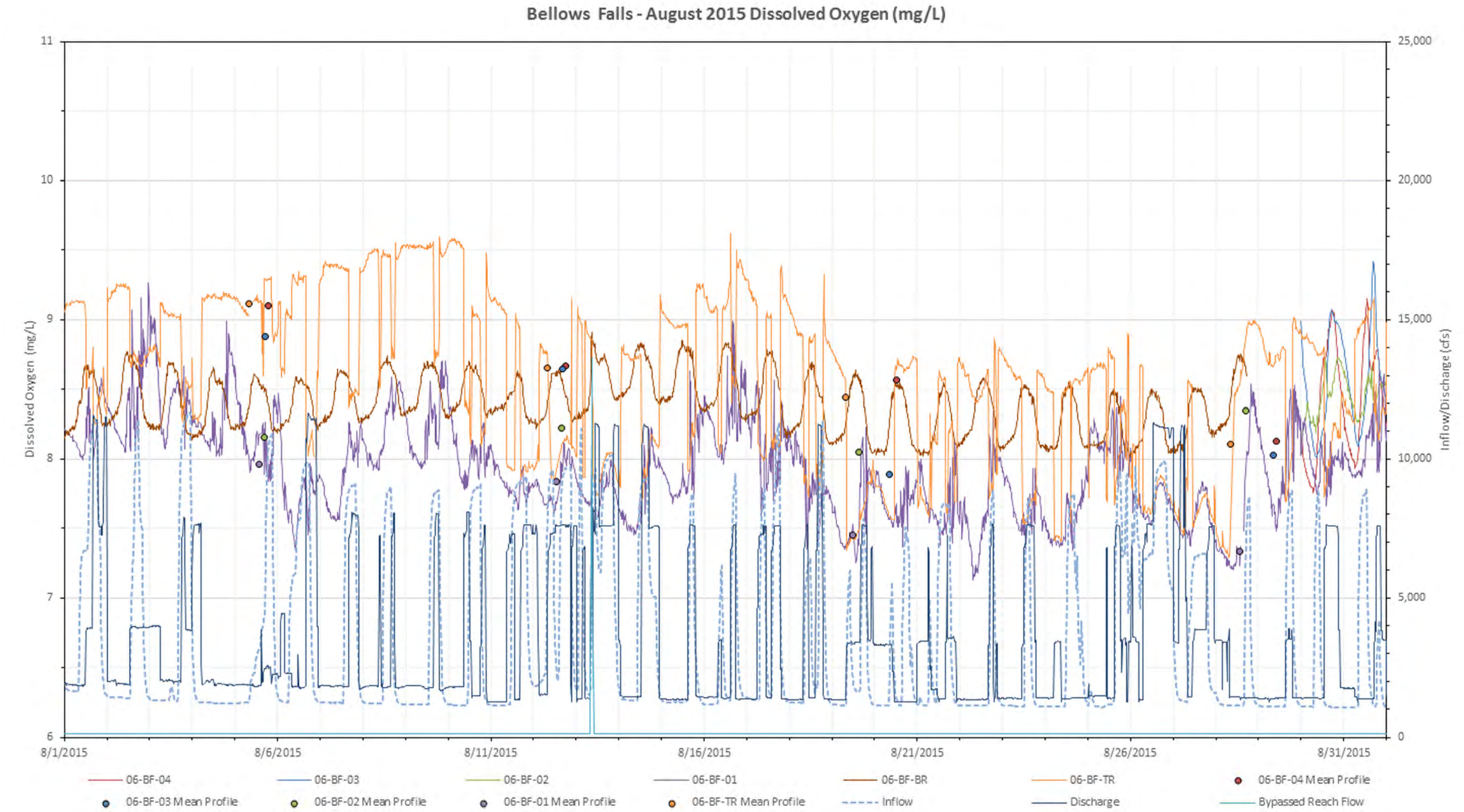

Figure F-30. 2015 August dissolved oxygen (mg/L) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

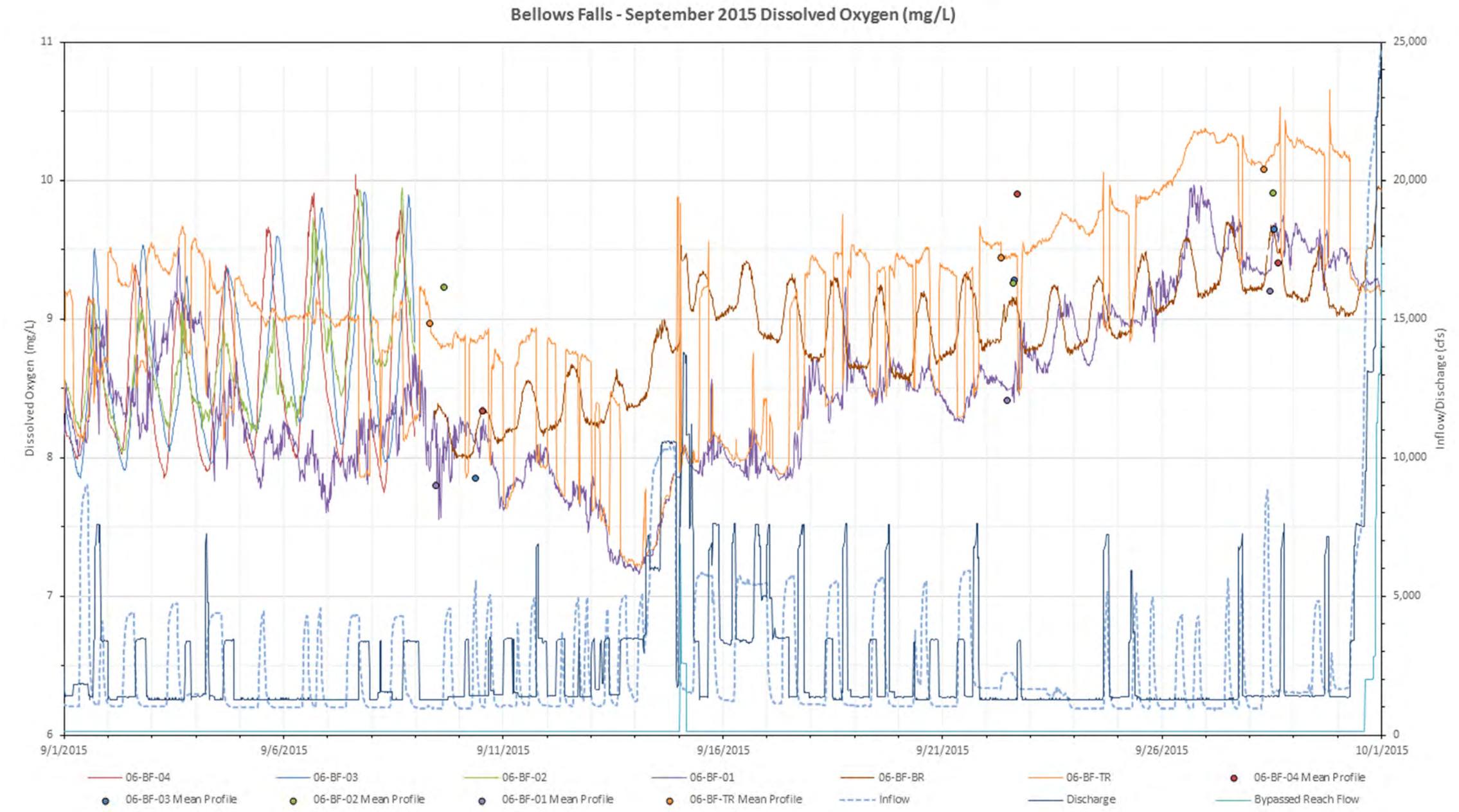

Figure F-31. 2015 September dissolved oxygen (mg/L) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

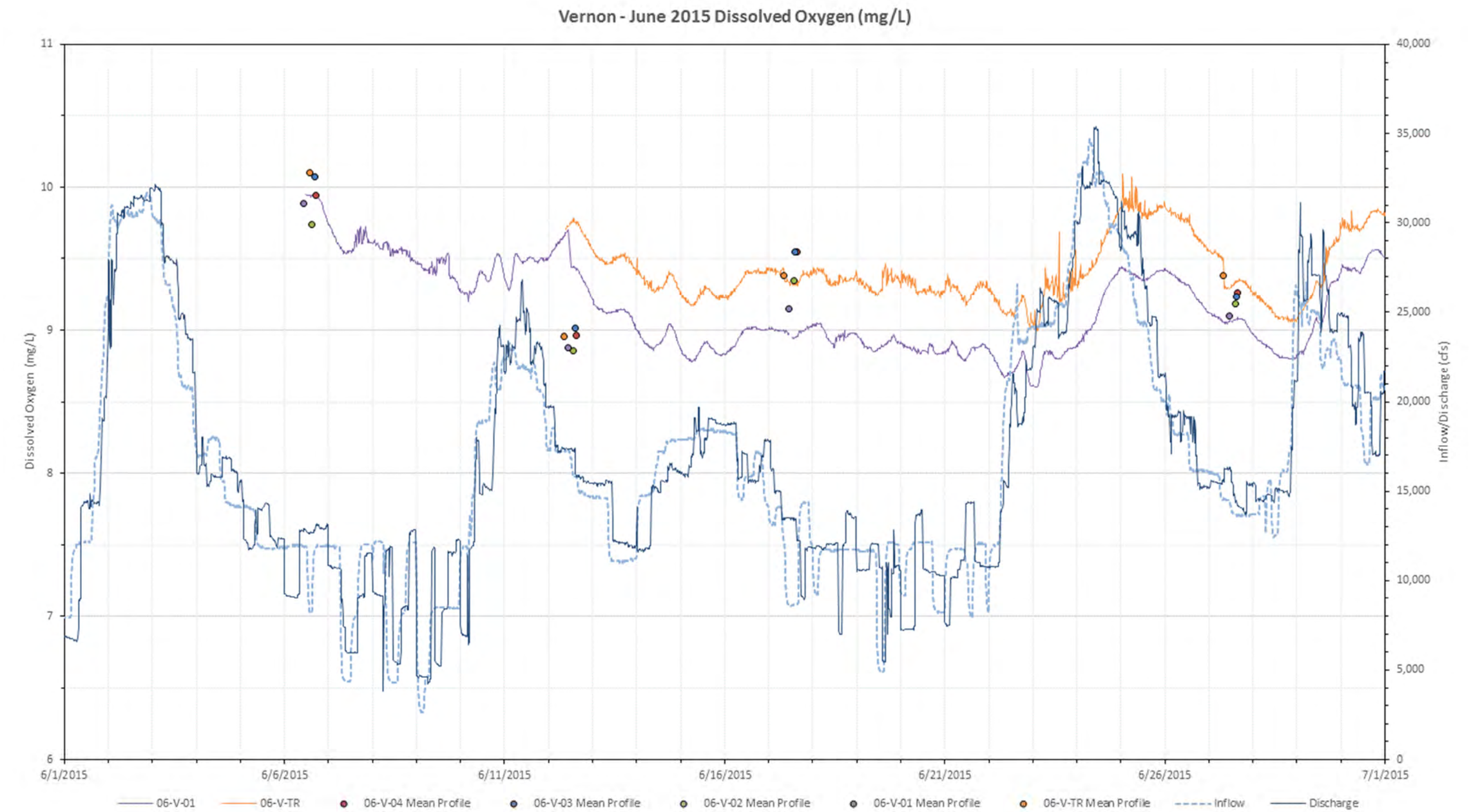

Figure F-32. 2015 June dissolved oxygen (mg/L) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

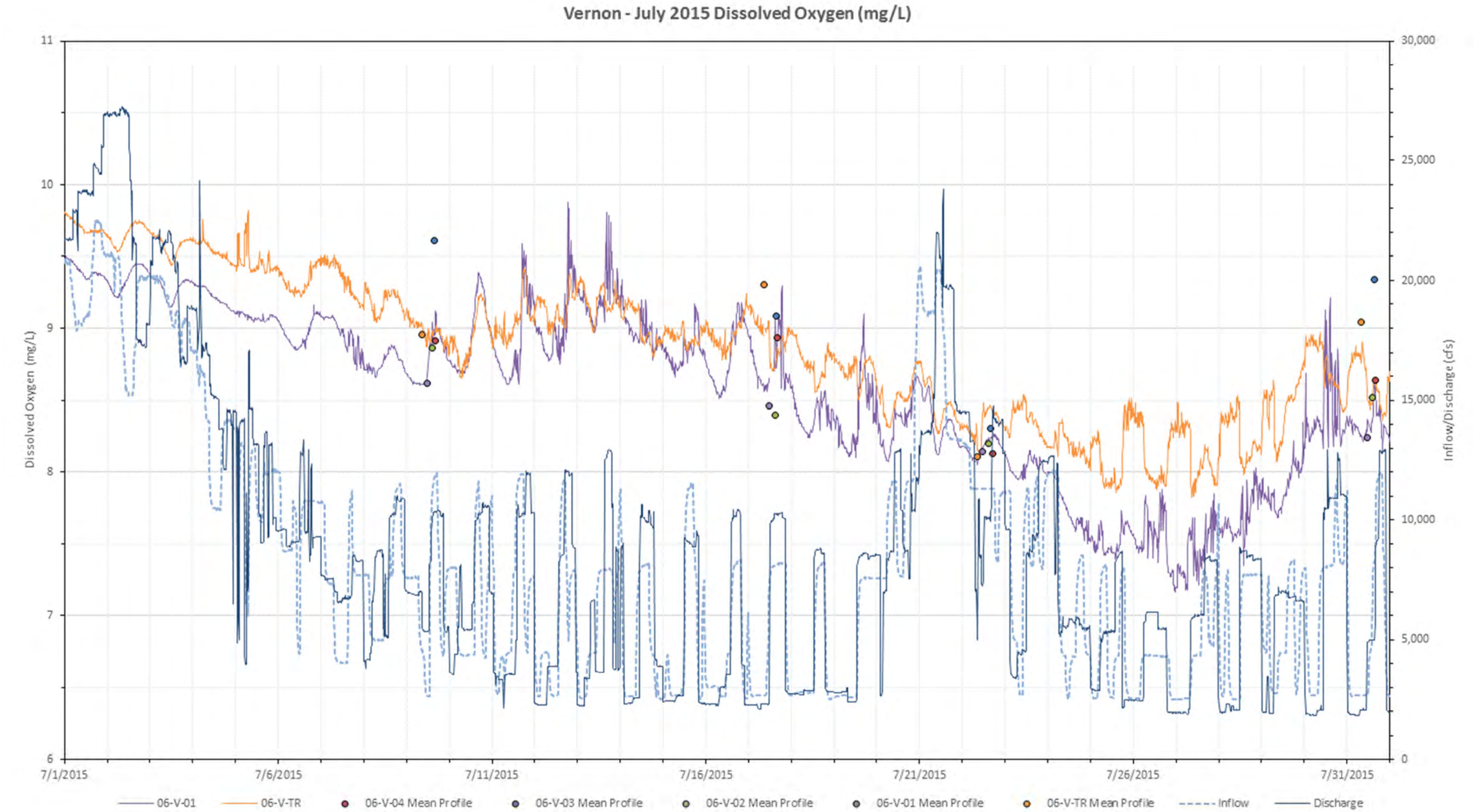

Figure F-33. 2015 July dissolved oxygen (mg/L) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

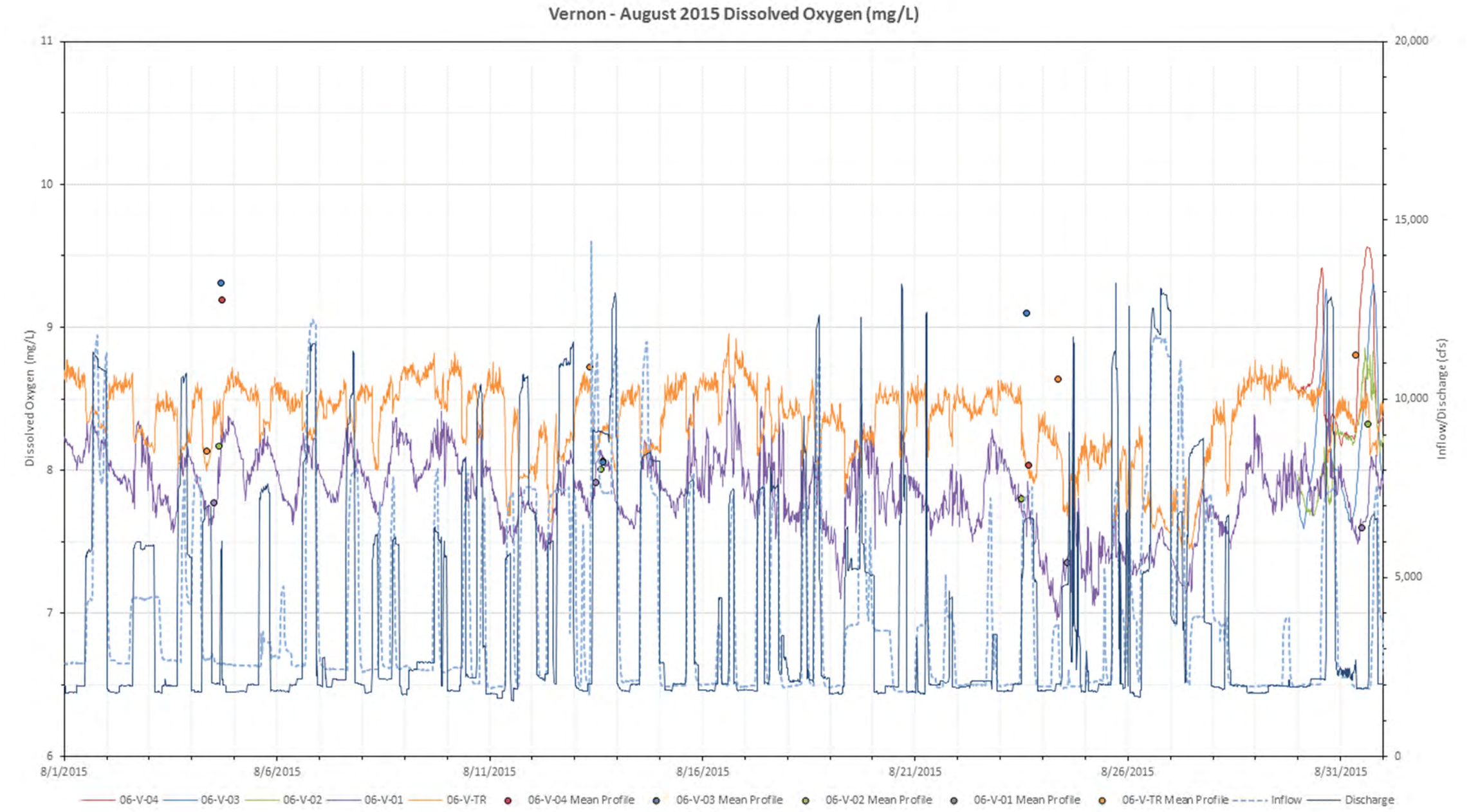

Figure F-34. 2015 August dissolved oxygen (mg/L) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

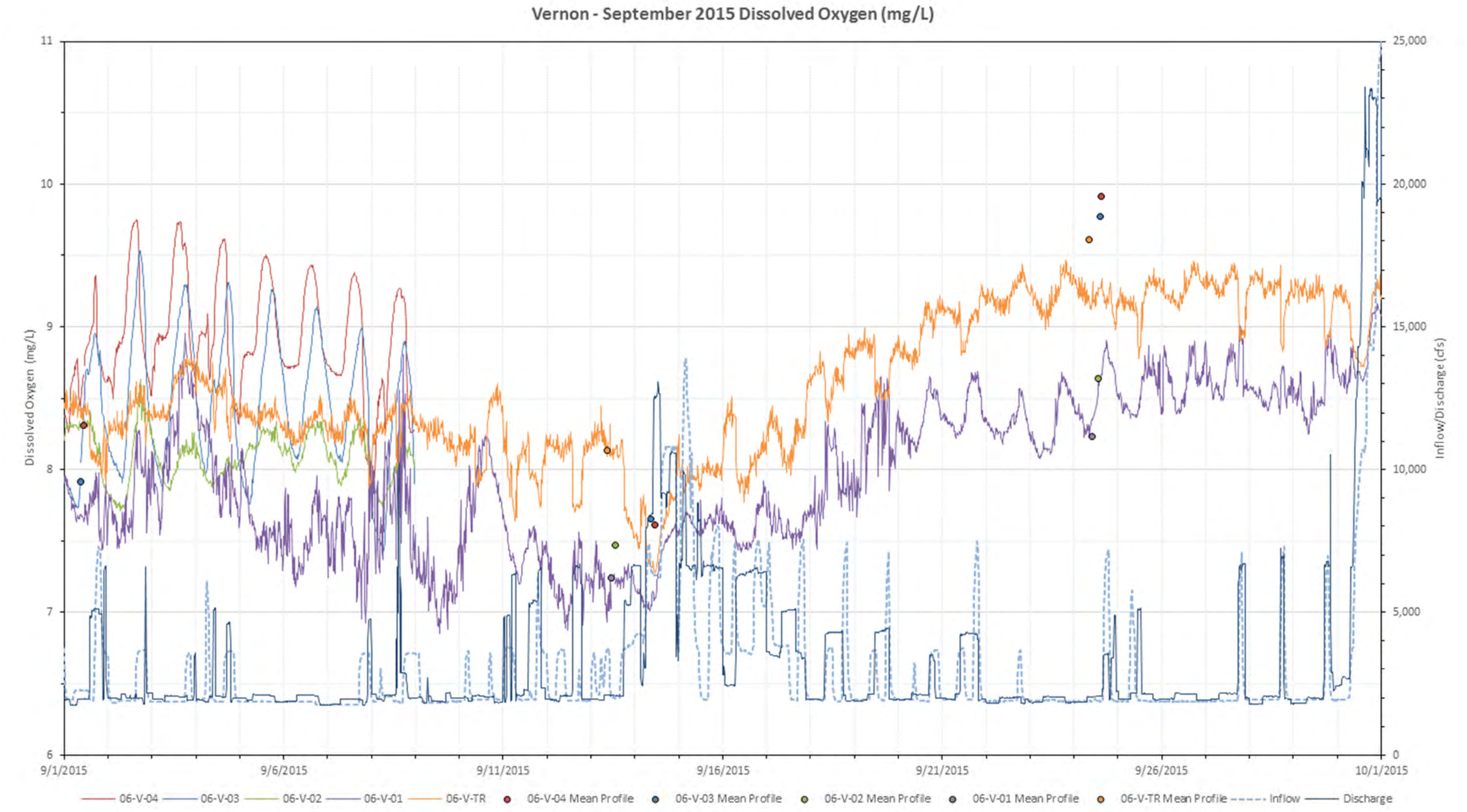

Figure F-35. 2015 September dissolved oxygen (mg/L) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

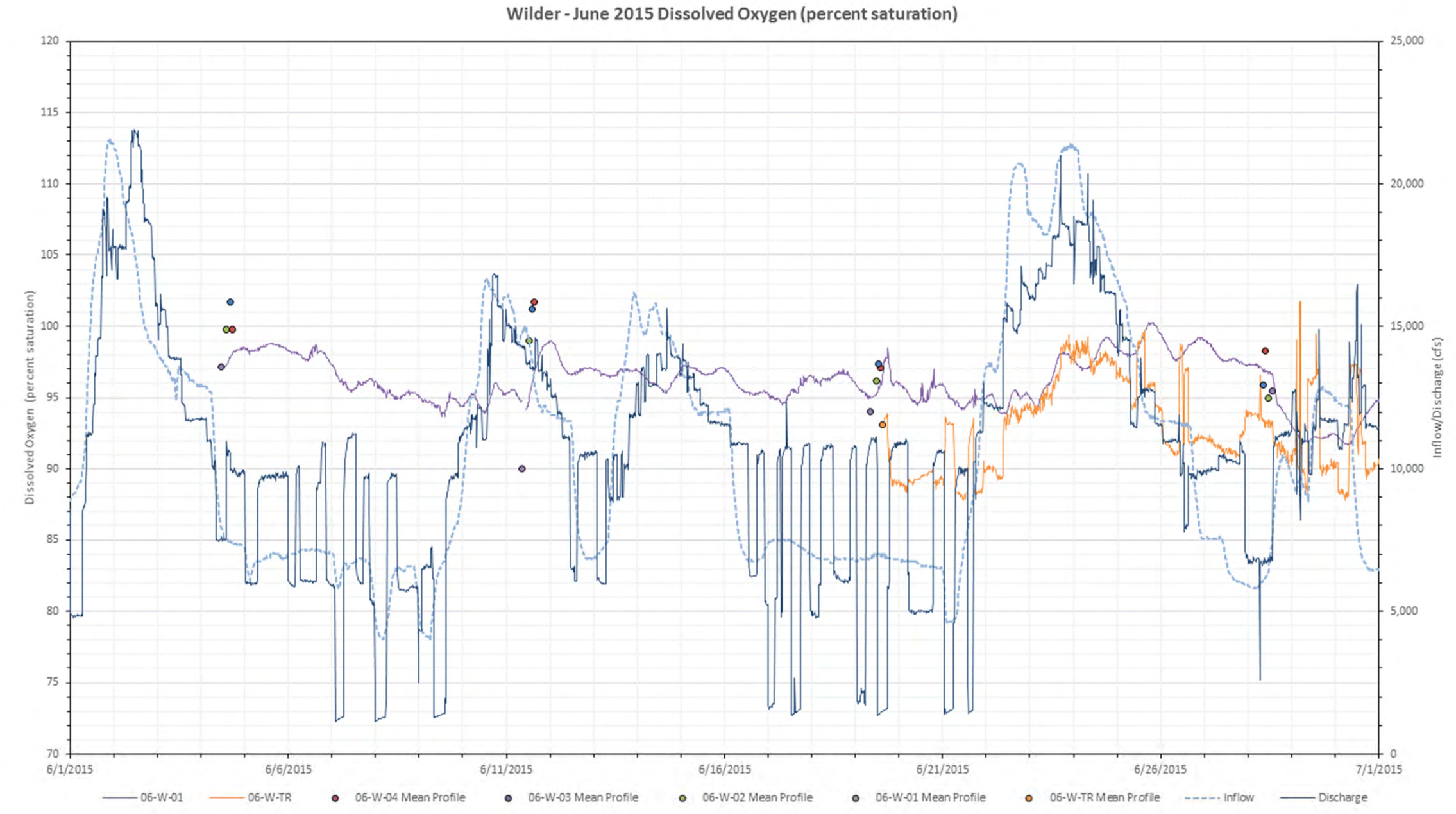

Figure F-36. 2015 June dissolved oxygen (percent saturation) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

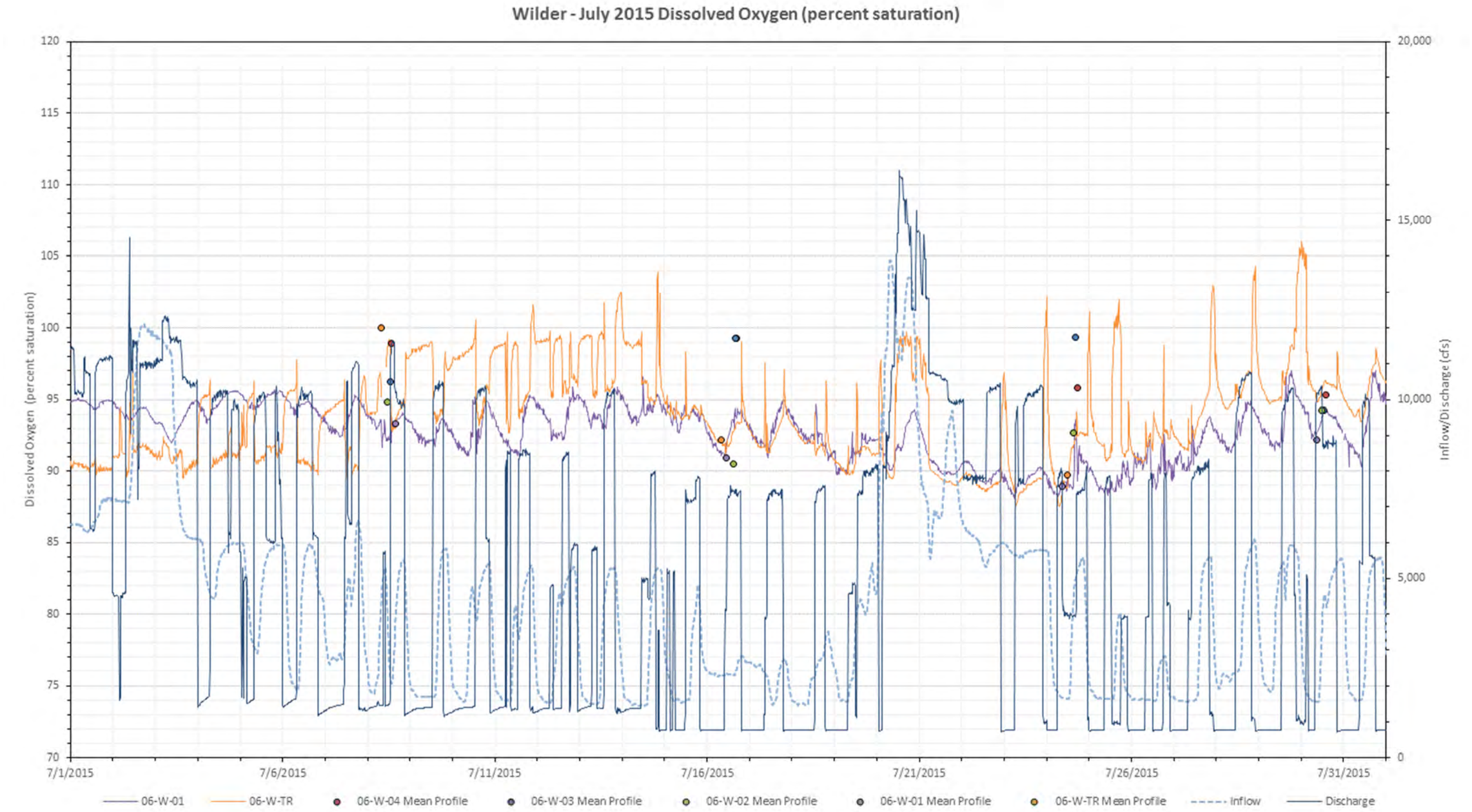

Figure F-37. 2015 July dissolved oxygen (percent saturation) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

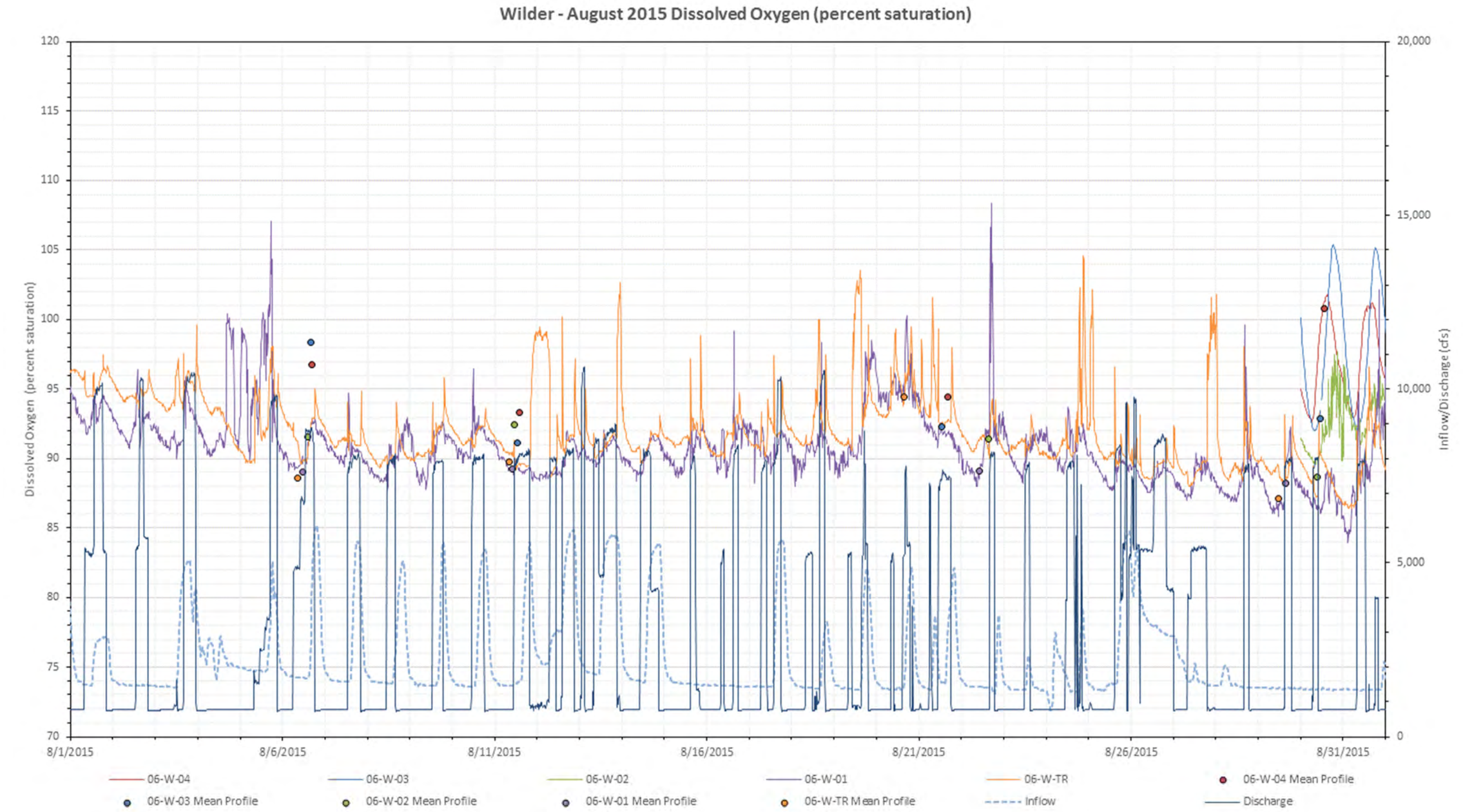

Figure F-38. 2015 August dissolved oxygen (percent saturation) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

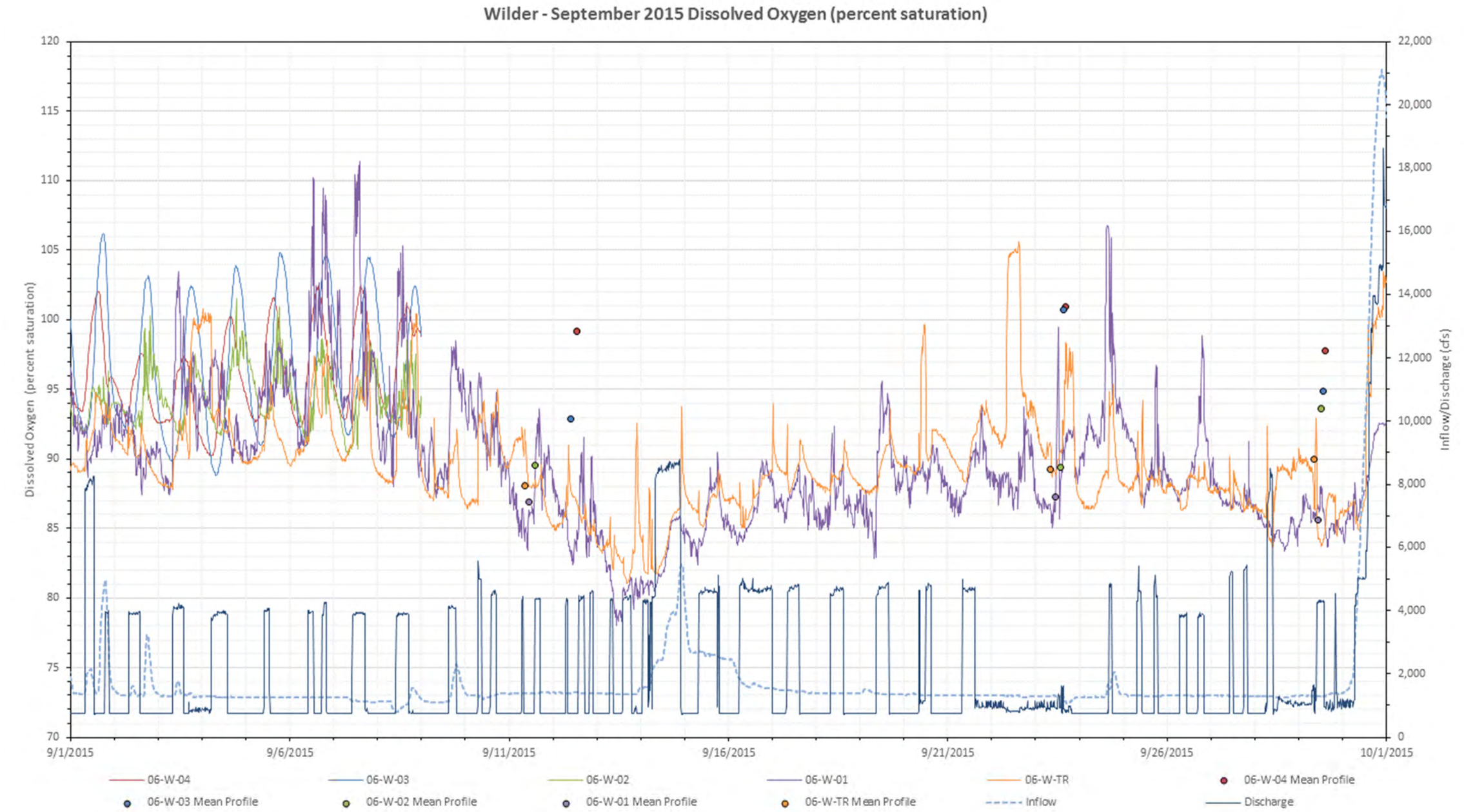

Figure F-39. 2015 September dissolved oxygen (percent saturation) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

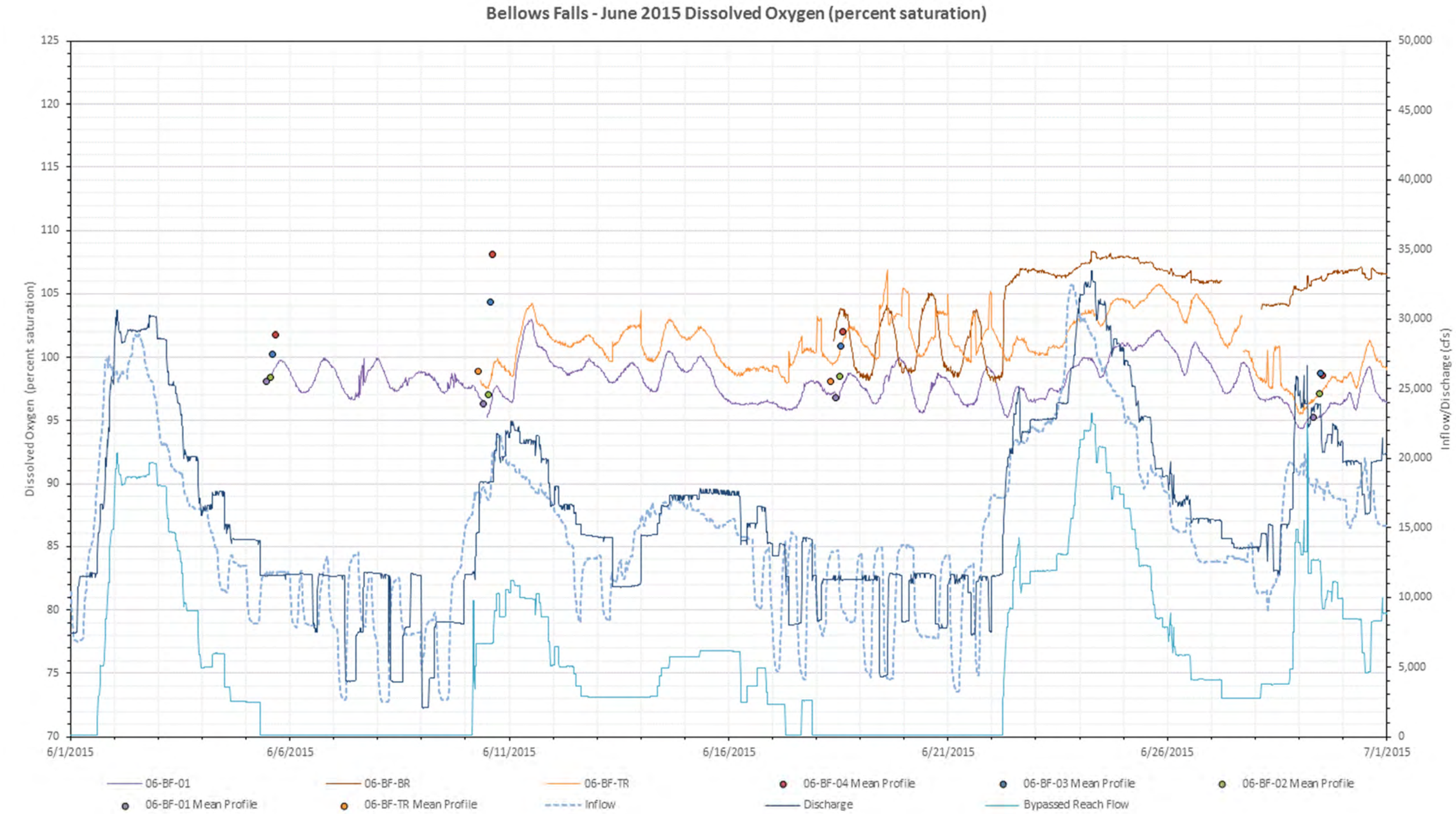

Figure F-40. 2015 June dissolved oxygen (percent saturation) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

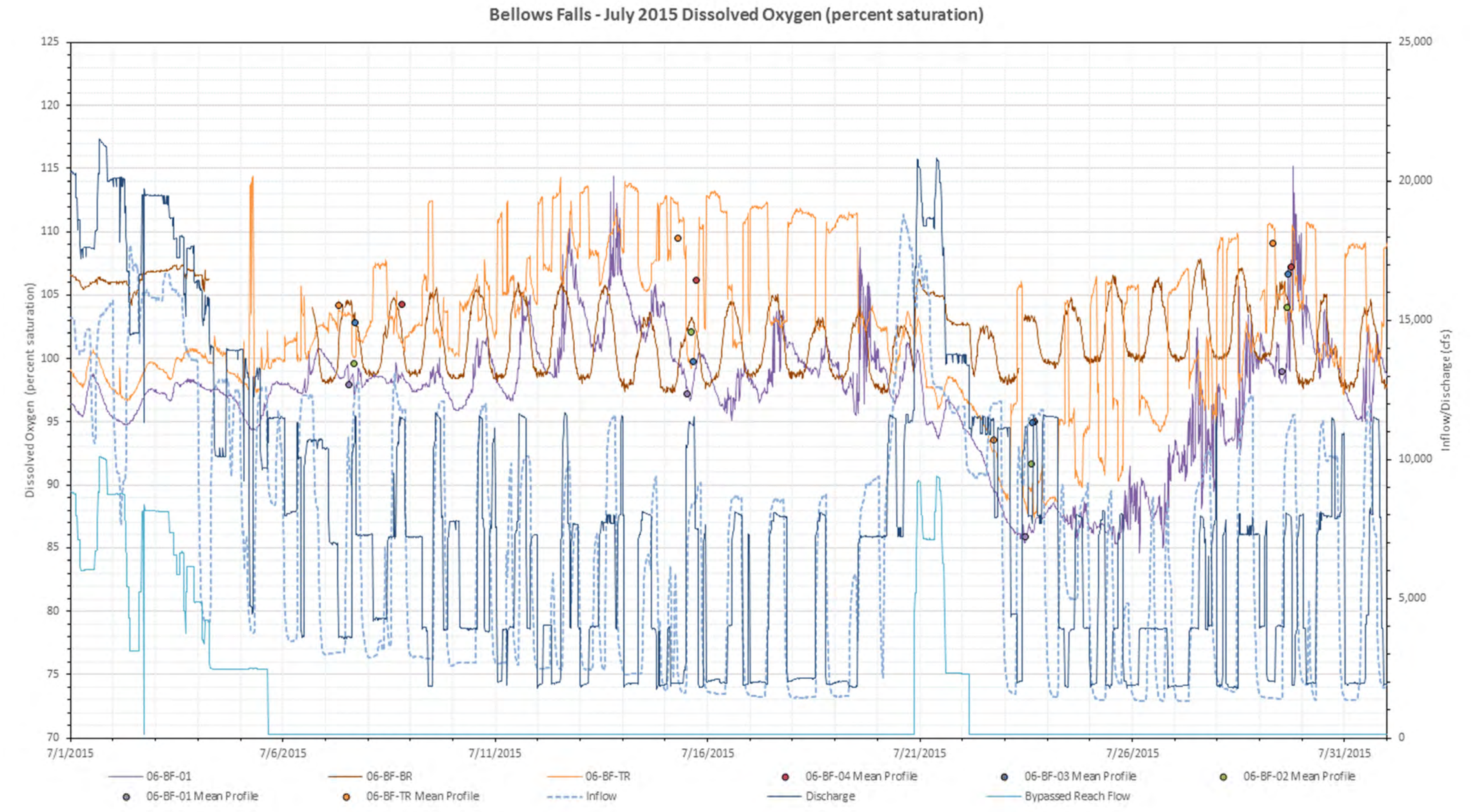

Figure F-41. 2015 July dissolved oxygen (percent saturation) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

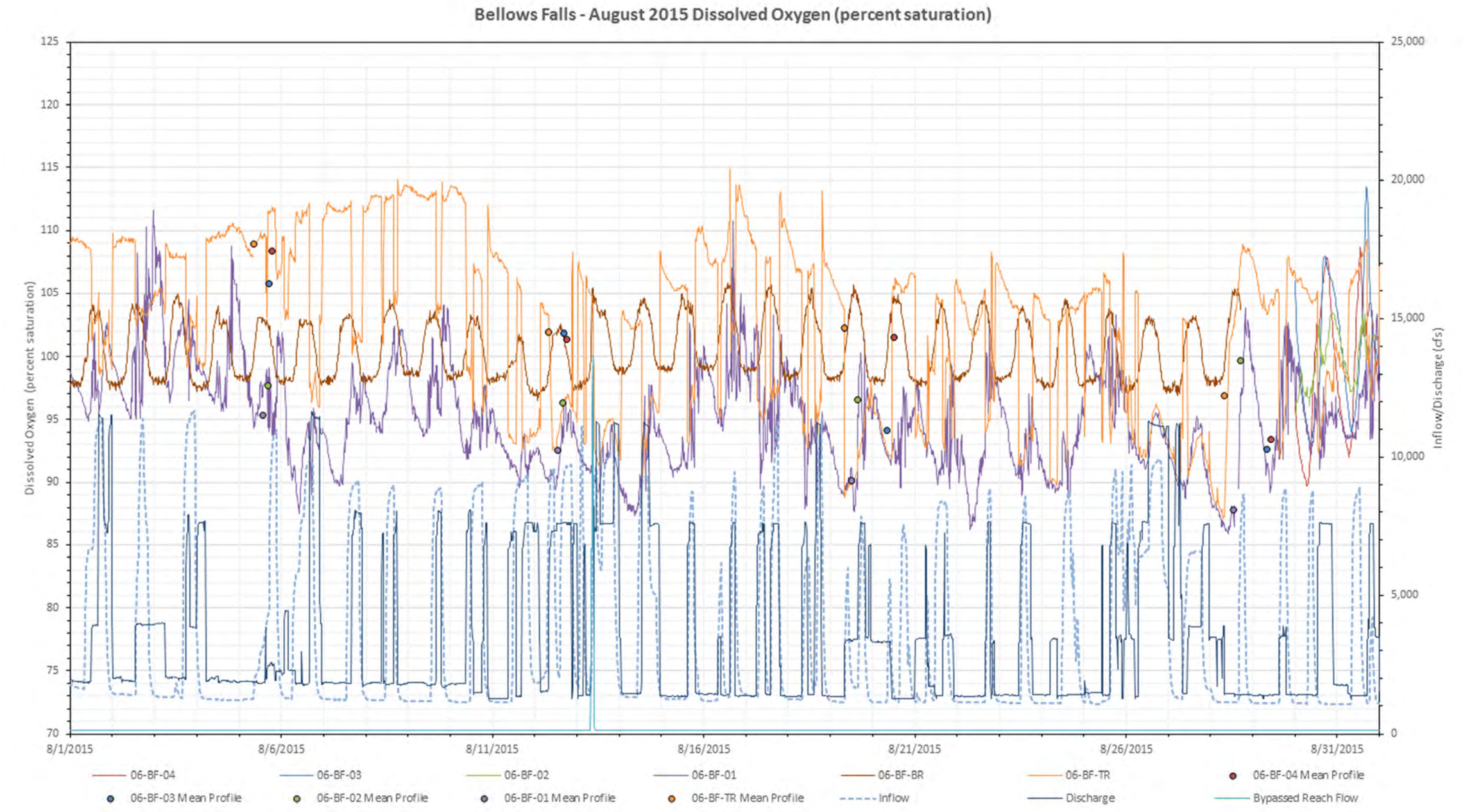

Figure F-42. 2015 August dissolved oxygen (percent saturation) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

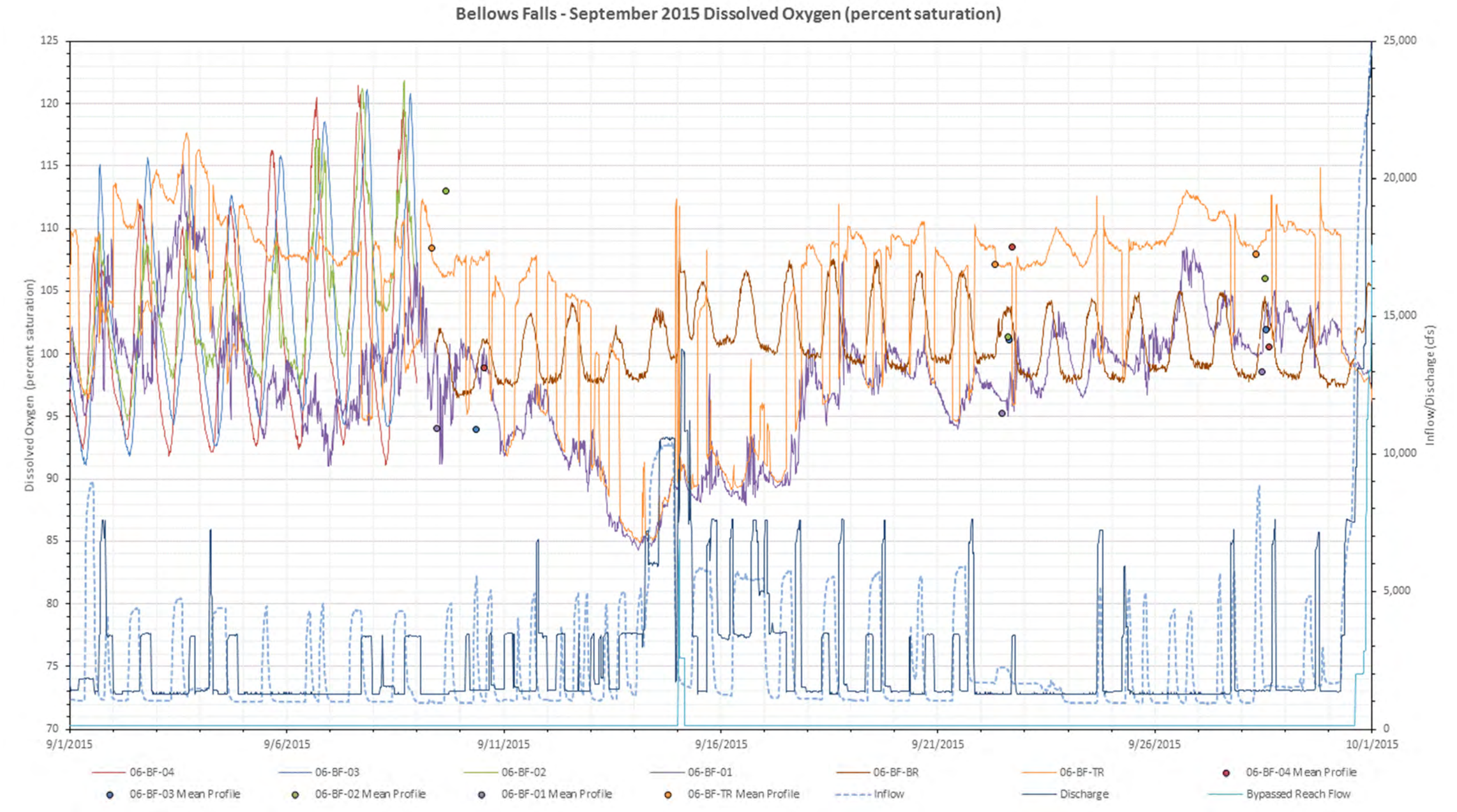

Figure F-43. 2015 September dissolved oxygen (percent saturation) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and project discharge.

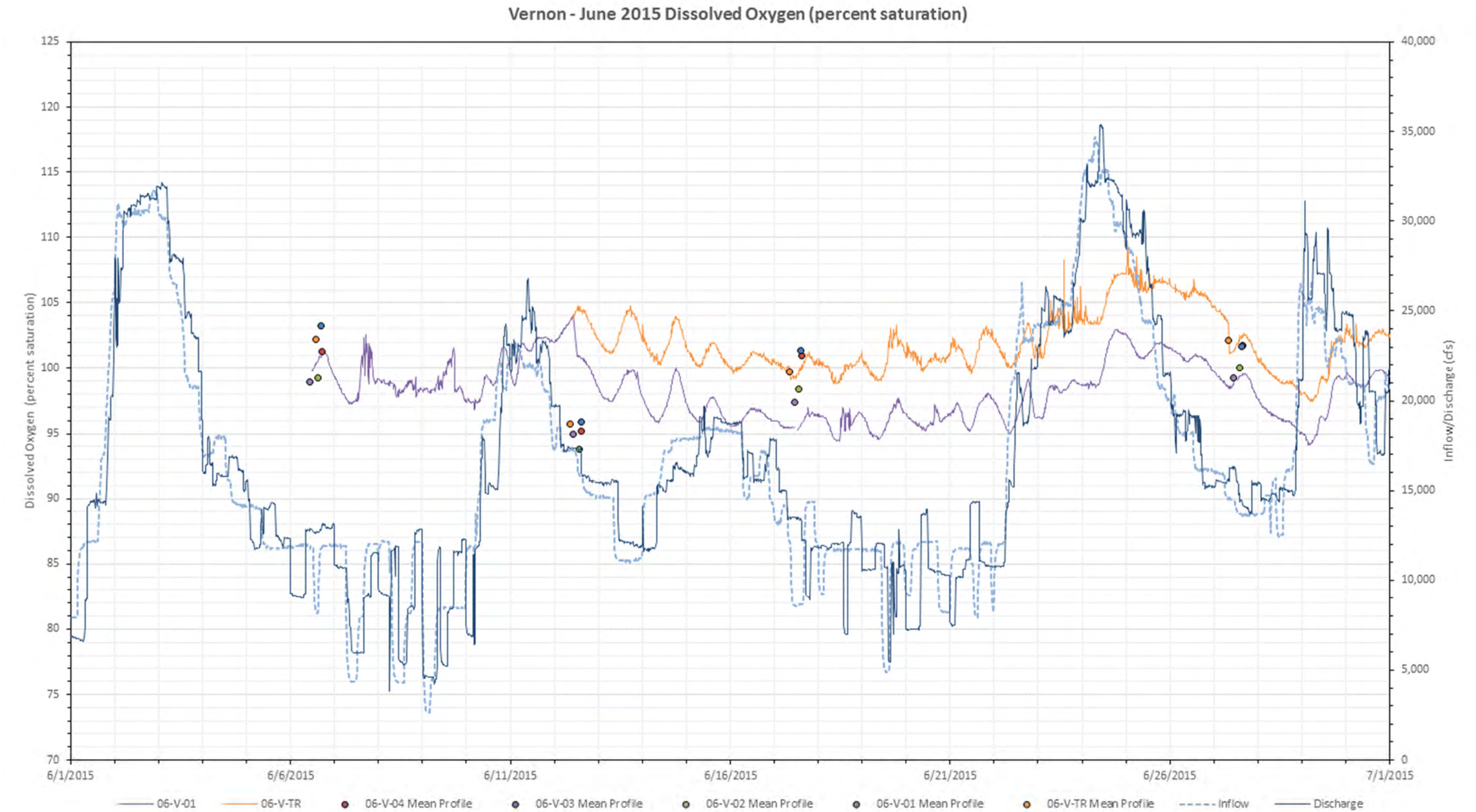

Figure F-44. 2015 June dissolved oxygen (percent saturation) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

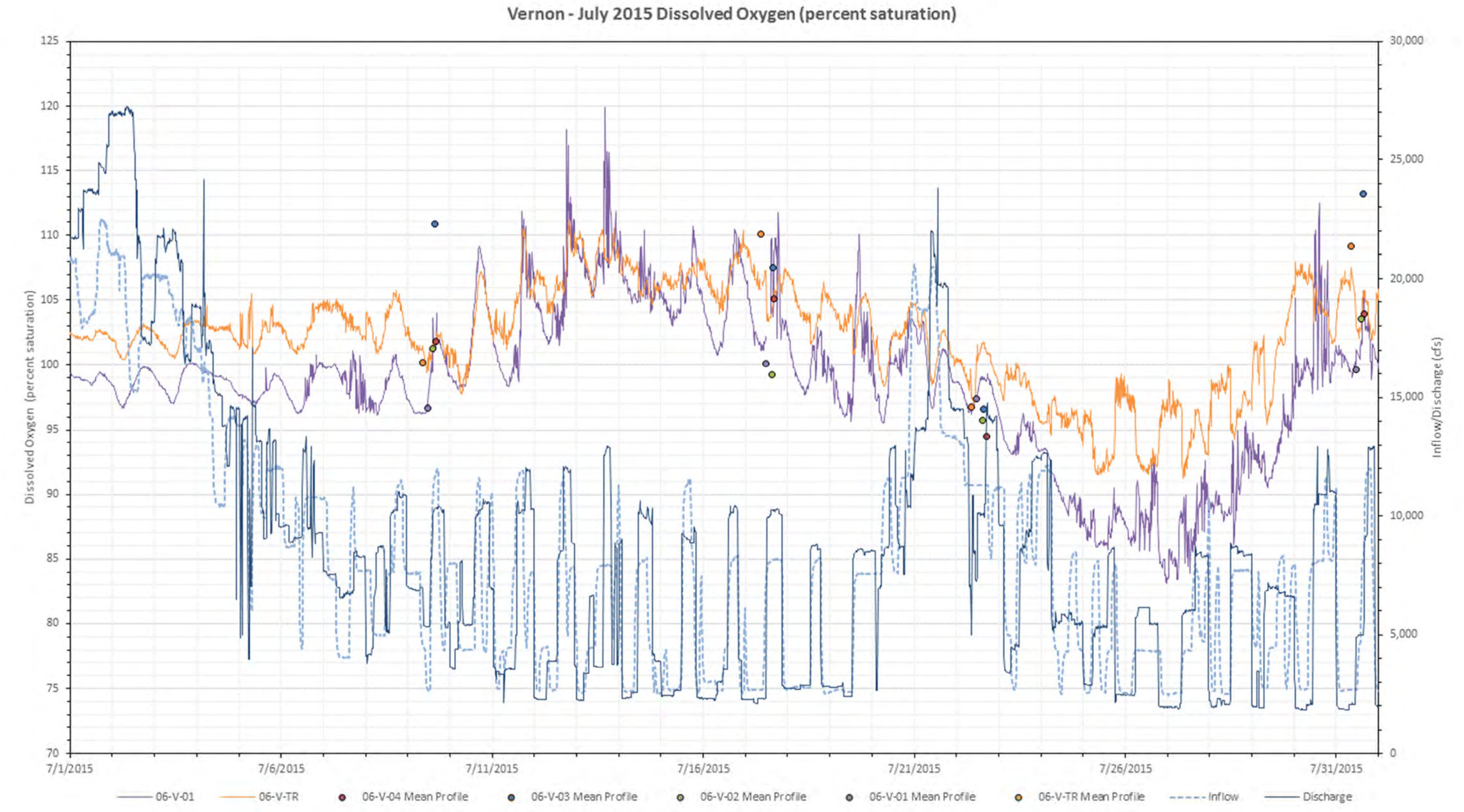

Figure F-45. 2015 July dissolved oxygen (percent saturation) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

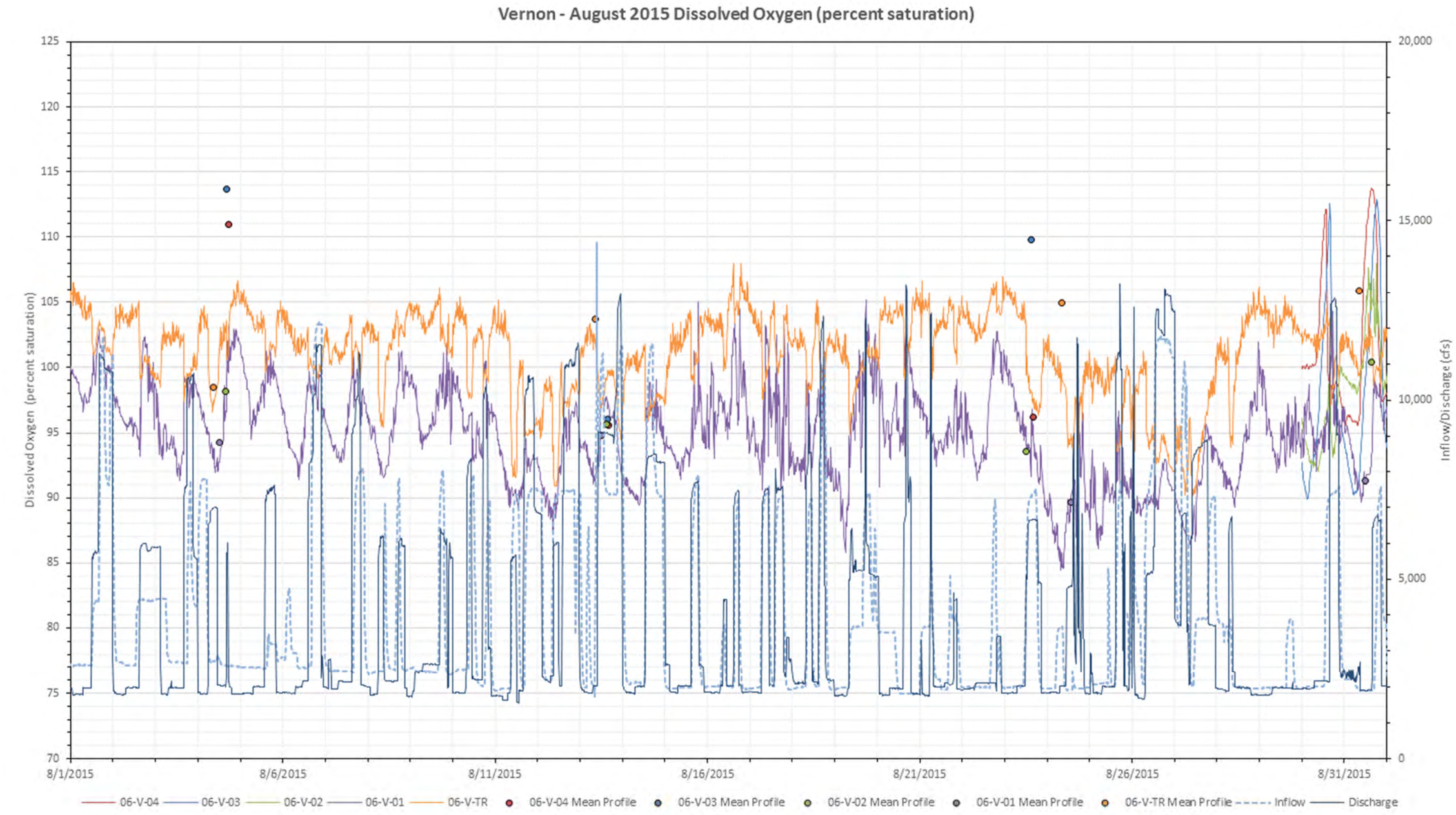

Figure F-46. 2015 August dissolved oxygen (percent saturation) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

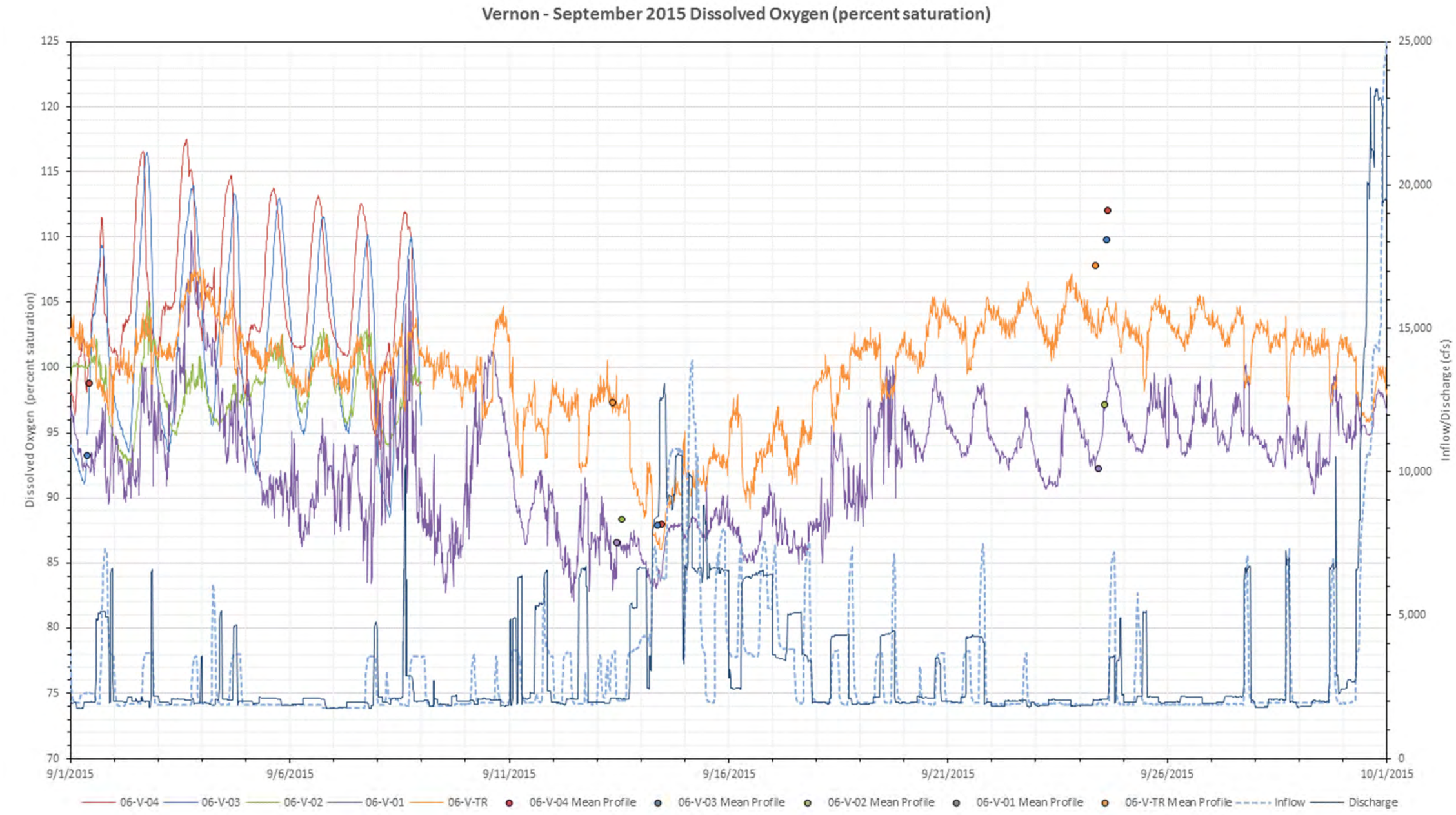

Figure F-47. 2015 September dissolved oxygen (percent saturation) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

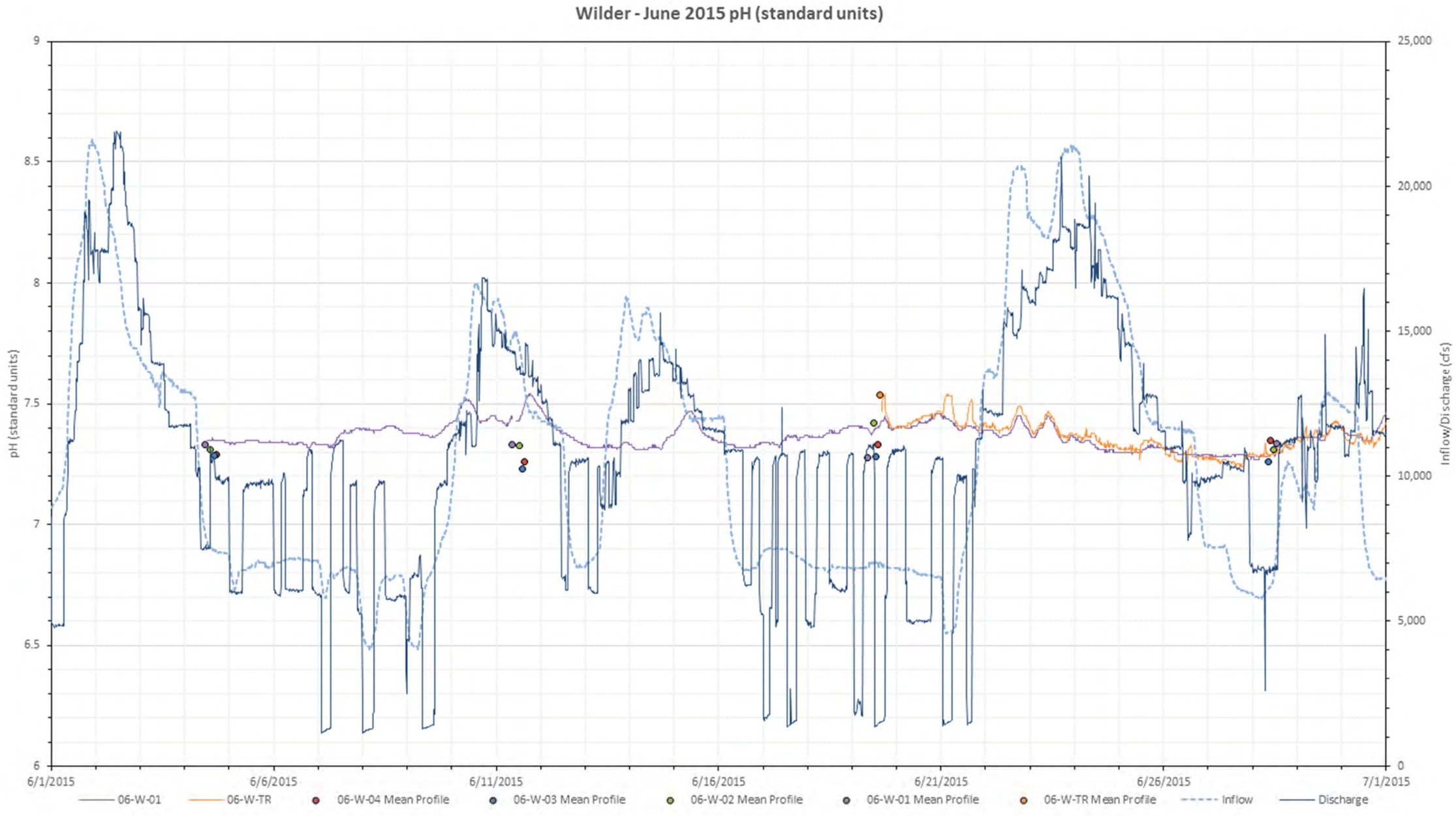

Figure F-48. 2015 June pH (standard units) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

Figure F-49. 2015 July pH (standard units) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

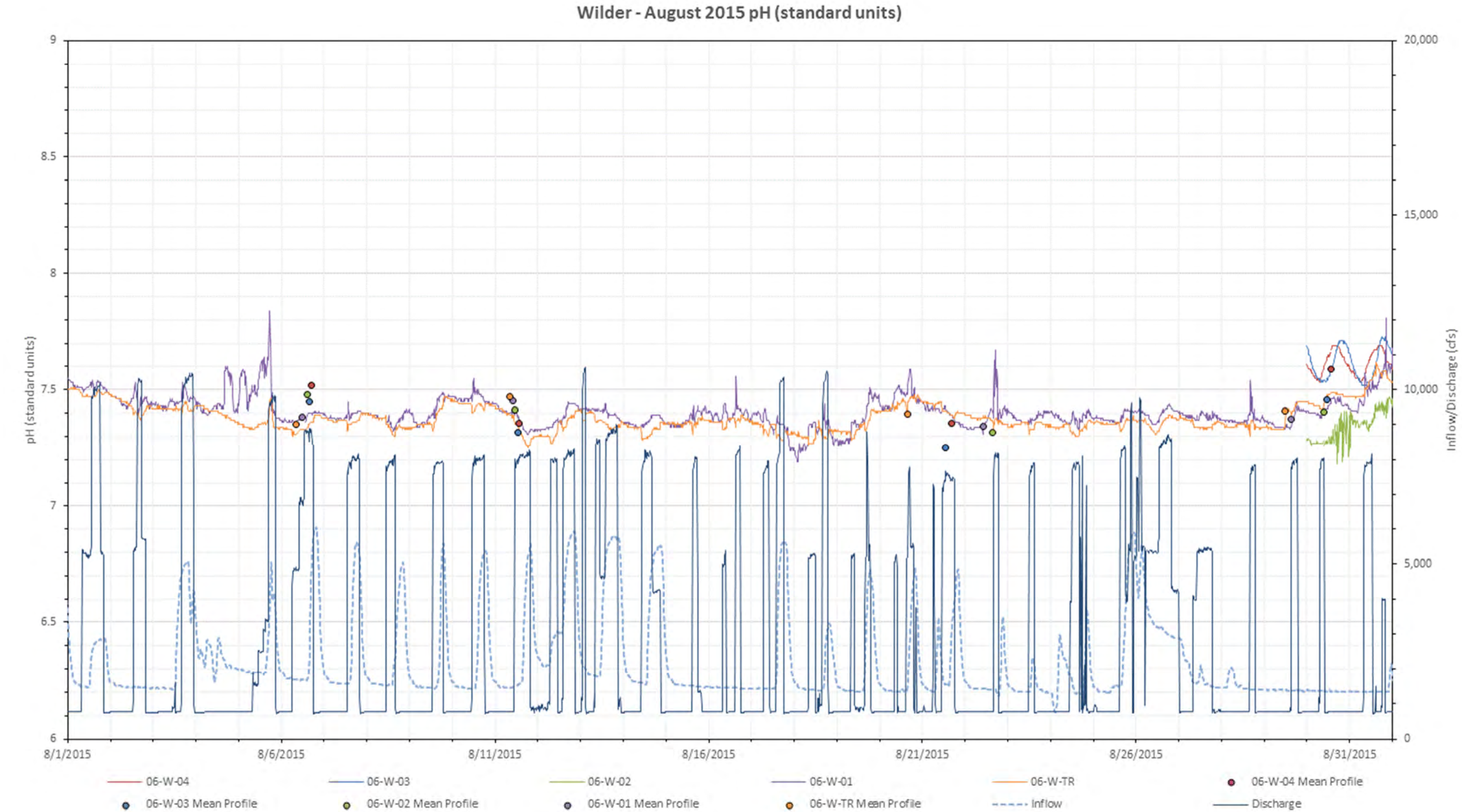

Figure F-50. 2015 August pH (standard units) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

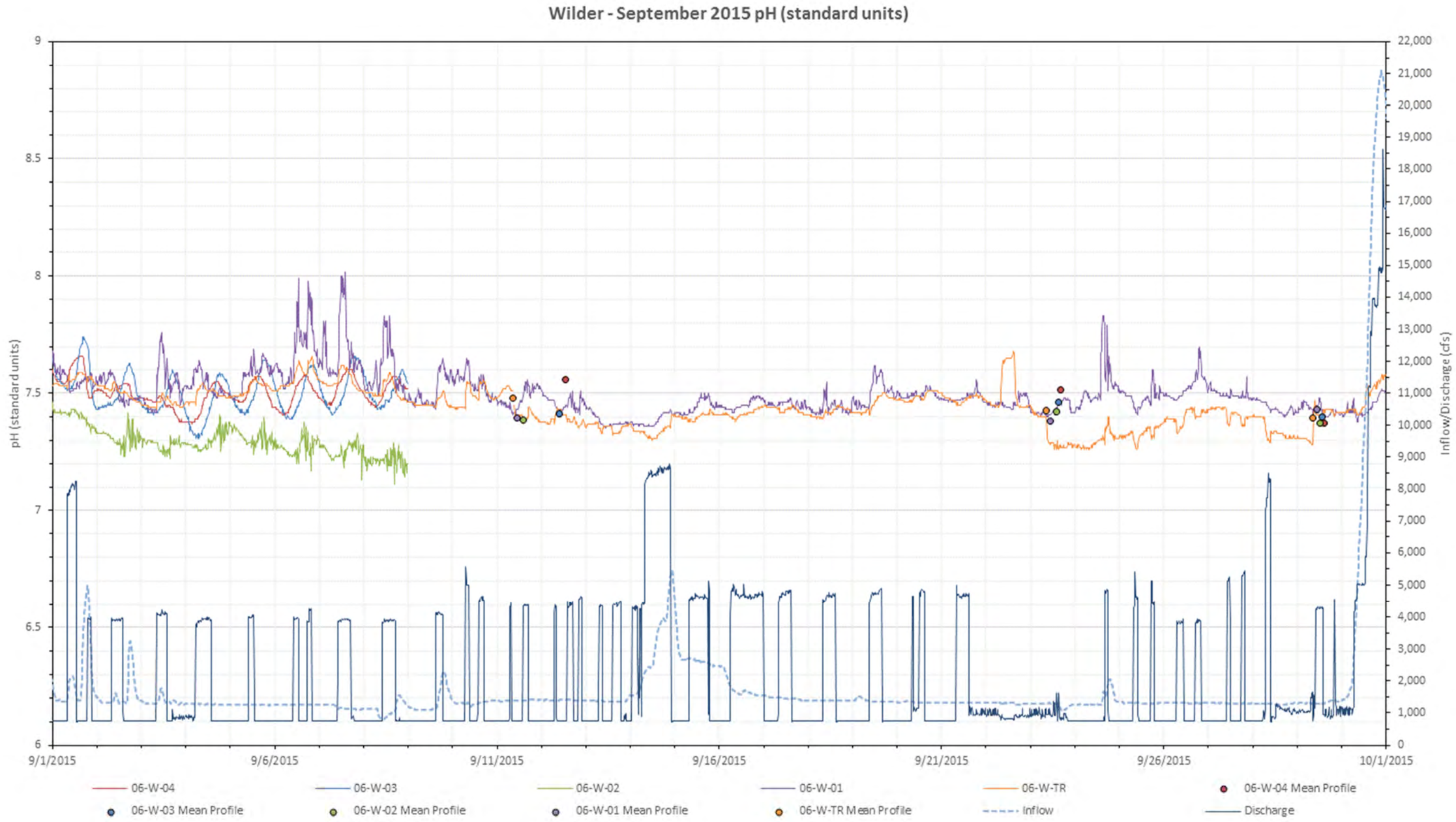

Figure F-51. 2015 September pH (standard units) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

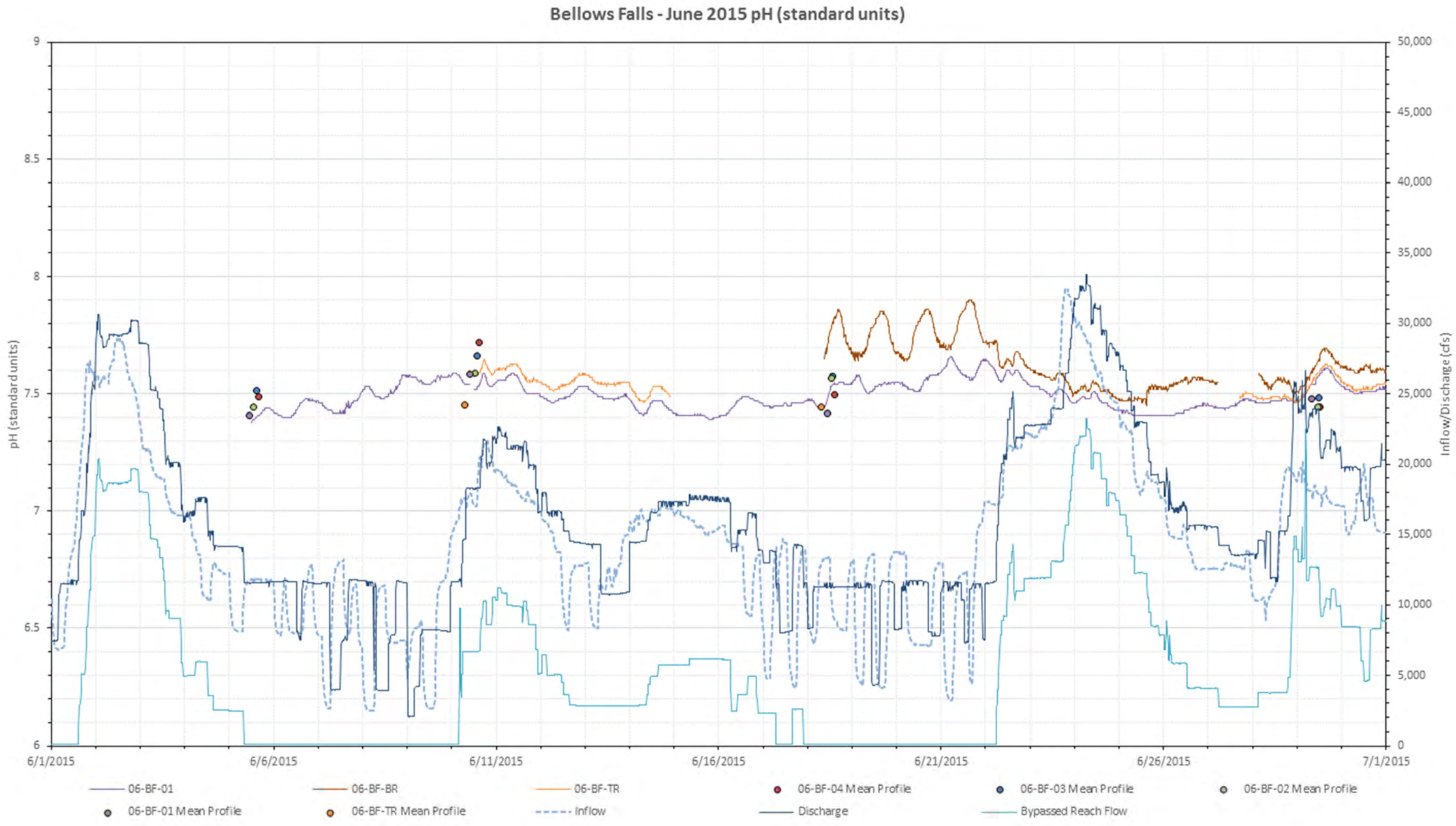

Figure F-52. 2015 June pH (standard units) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

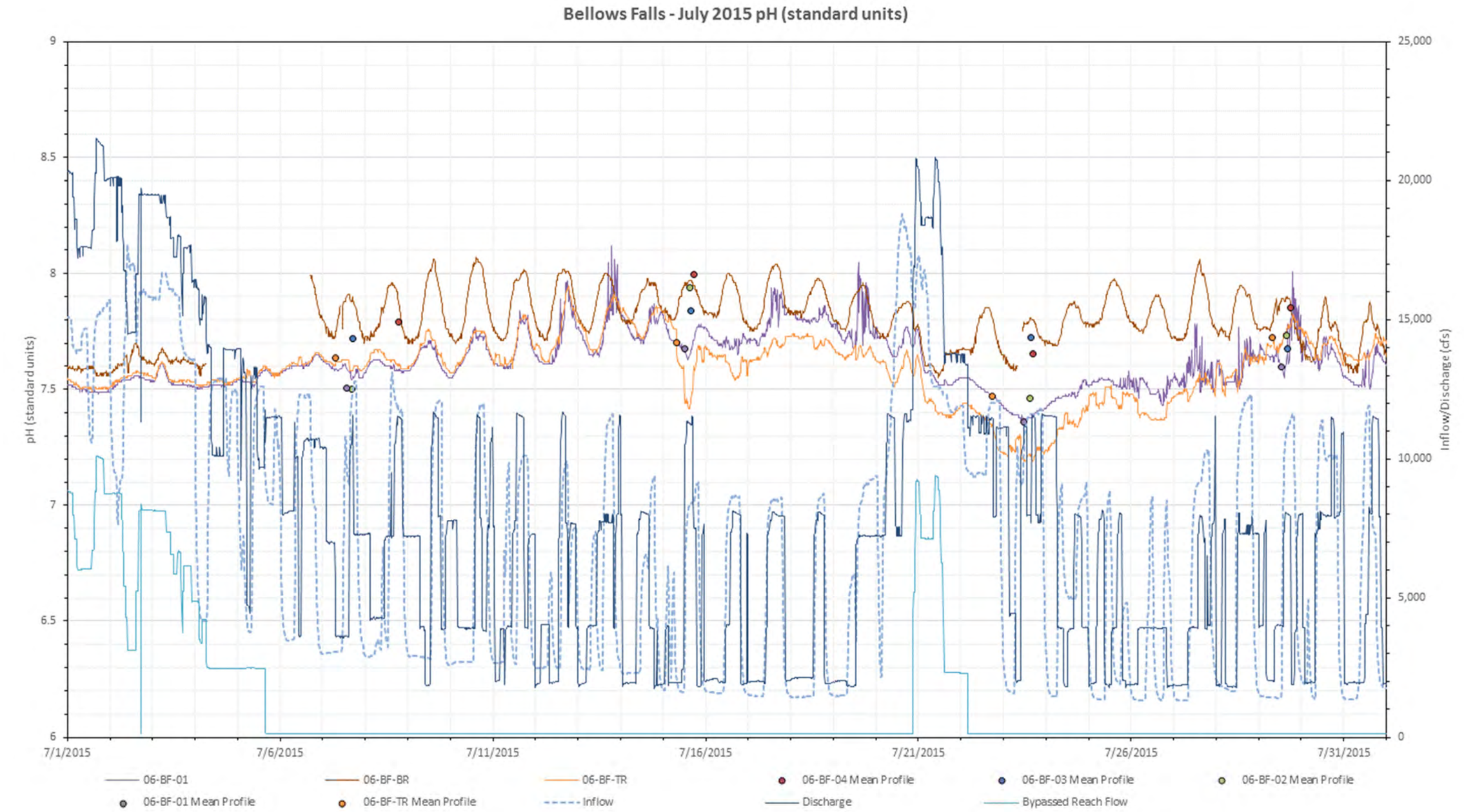

Figure F-53. 2015 July pH (standard units) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

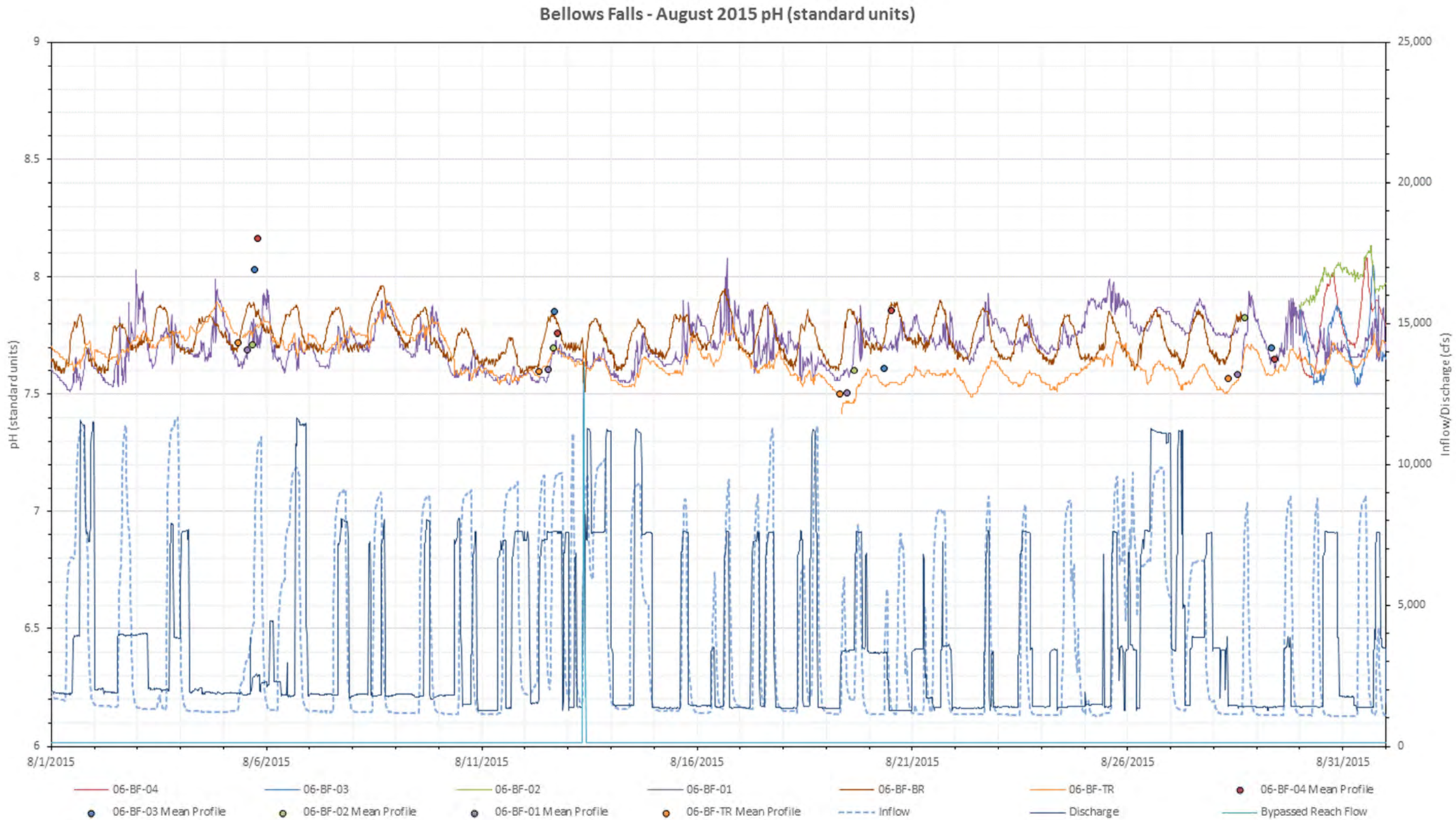

Figure F-54. 2015 August pH (standard units) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

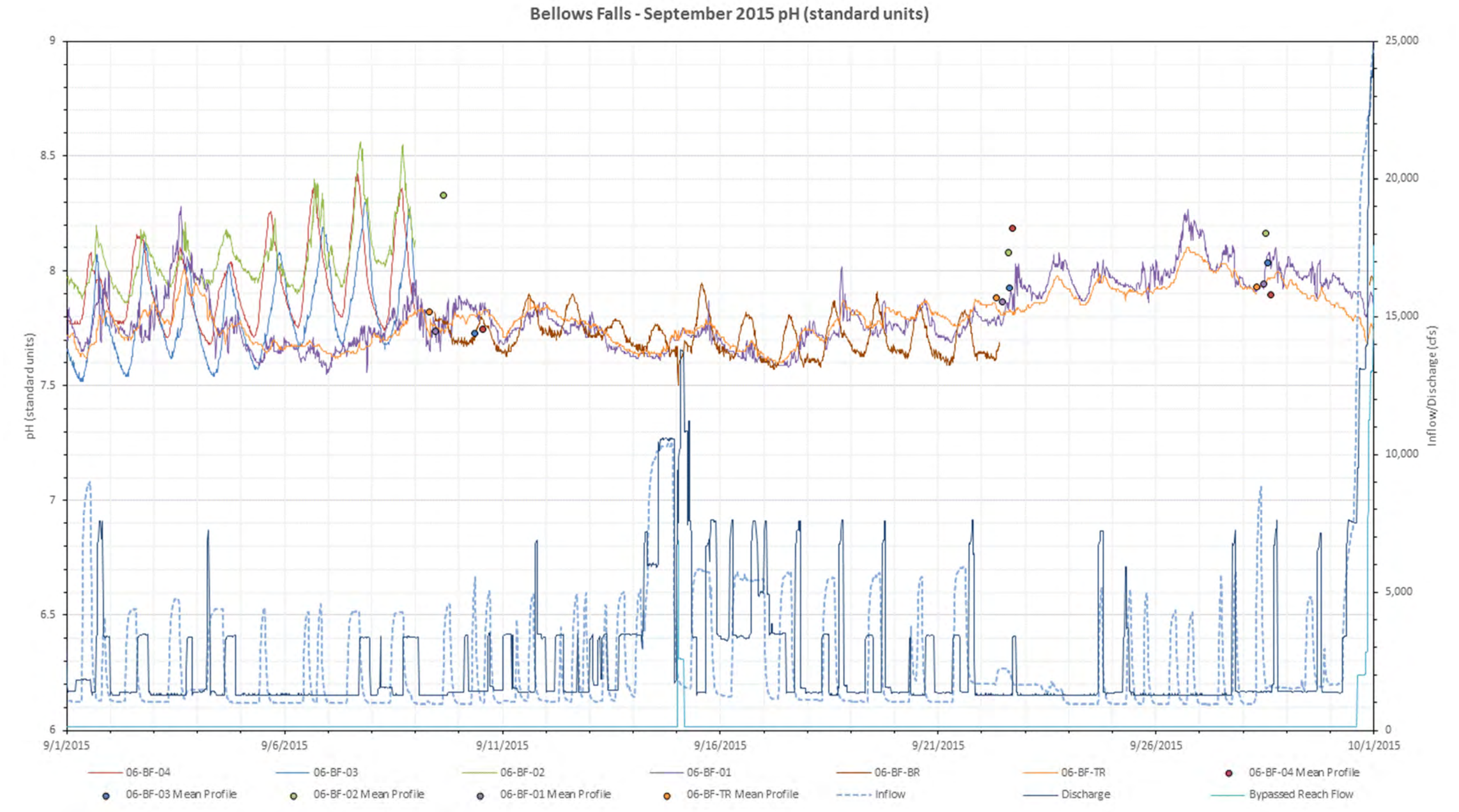

Figure F-55. 2015 September pH (standard units) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

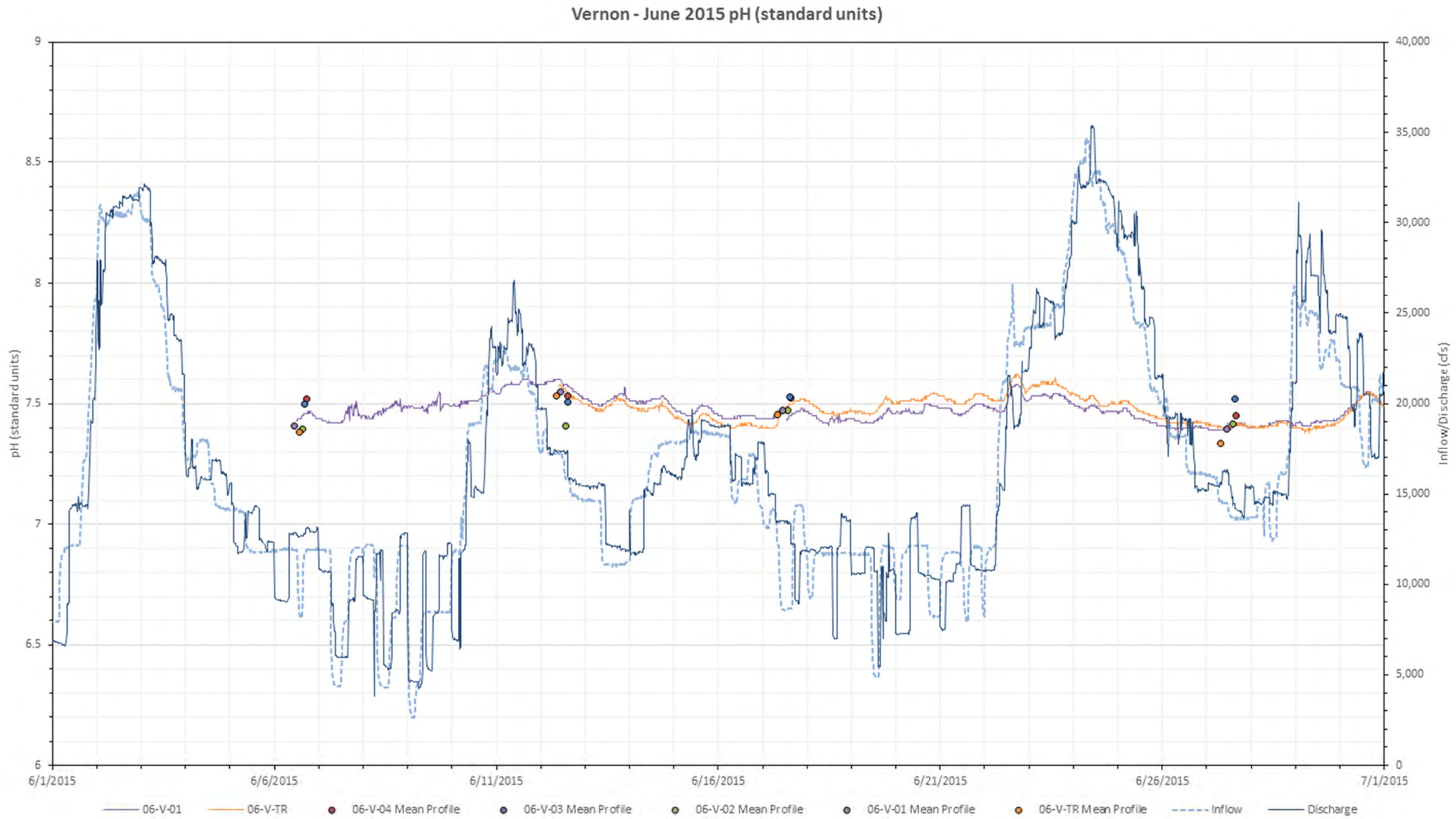

Figure F-56. 2015 June pH (standard units) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

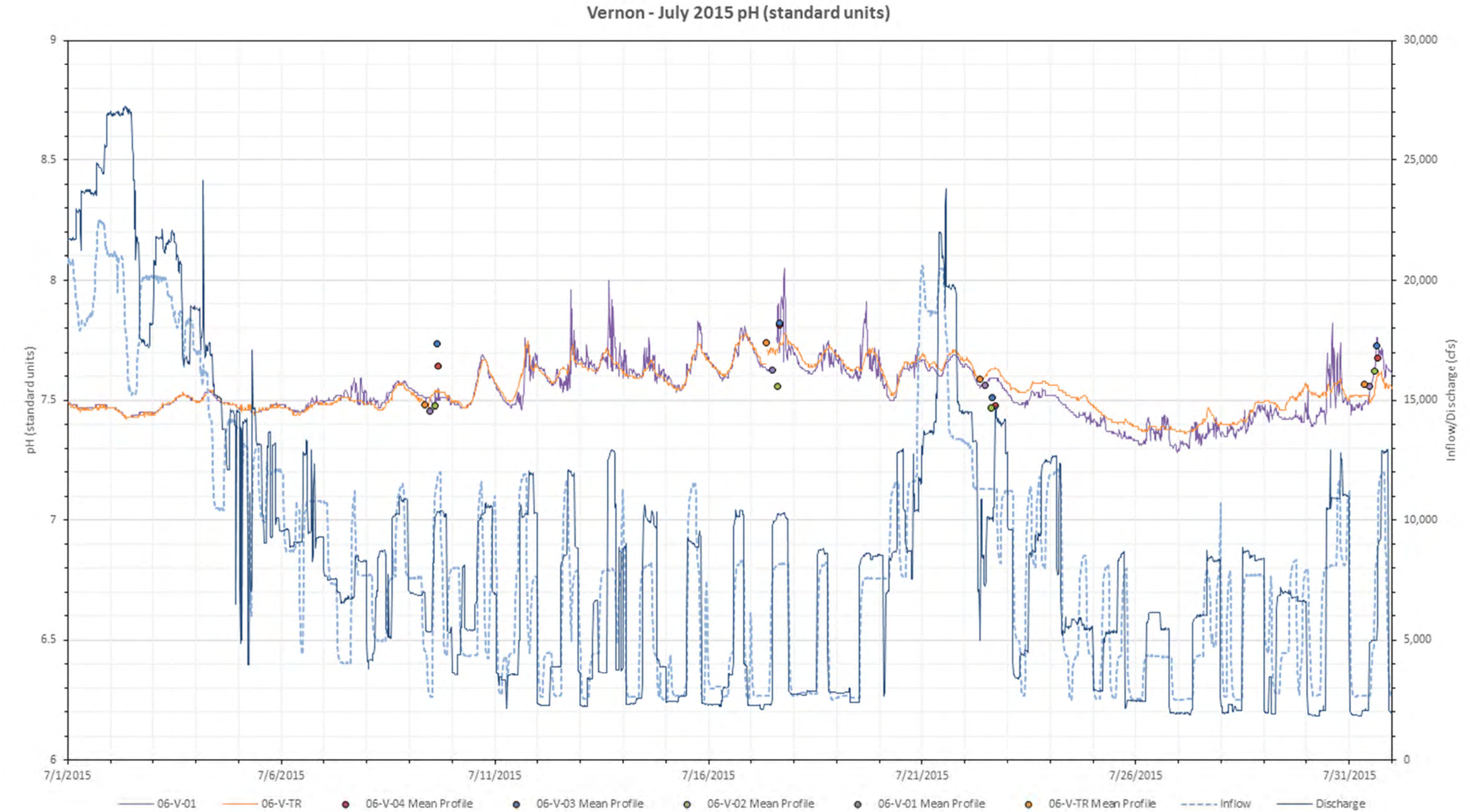

Figure F-57. 2015 July pH (standard units) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

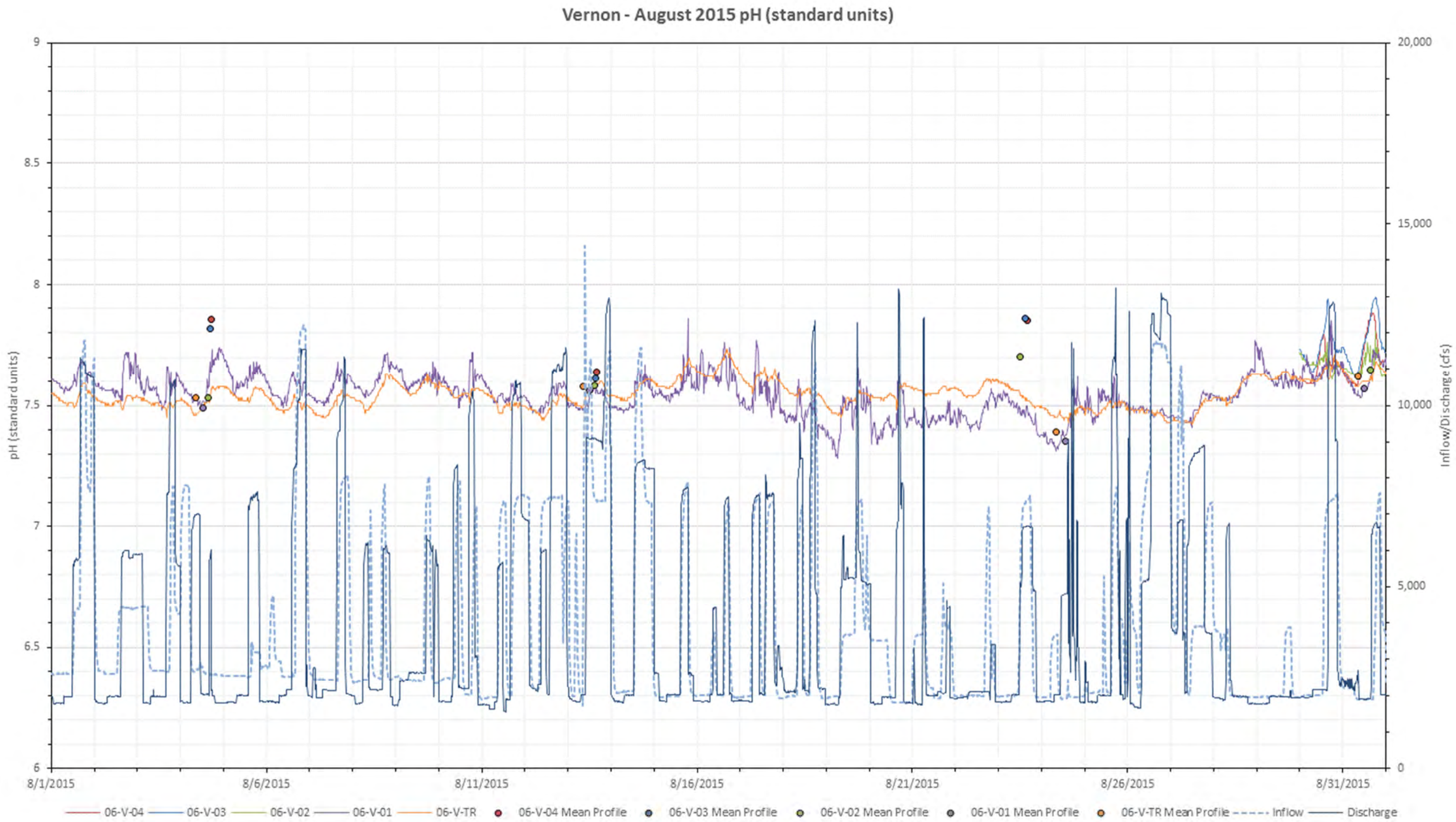

Figure F-58. 2015 August pH (standard units) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

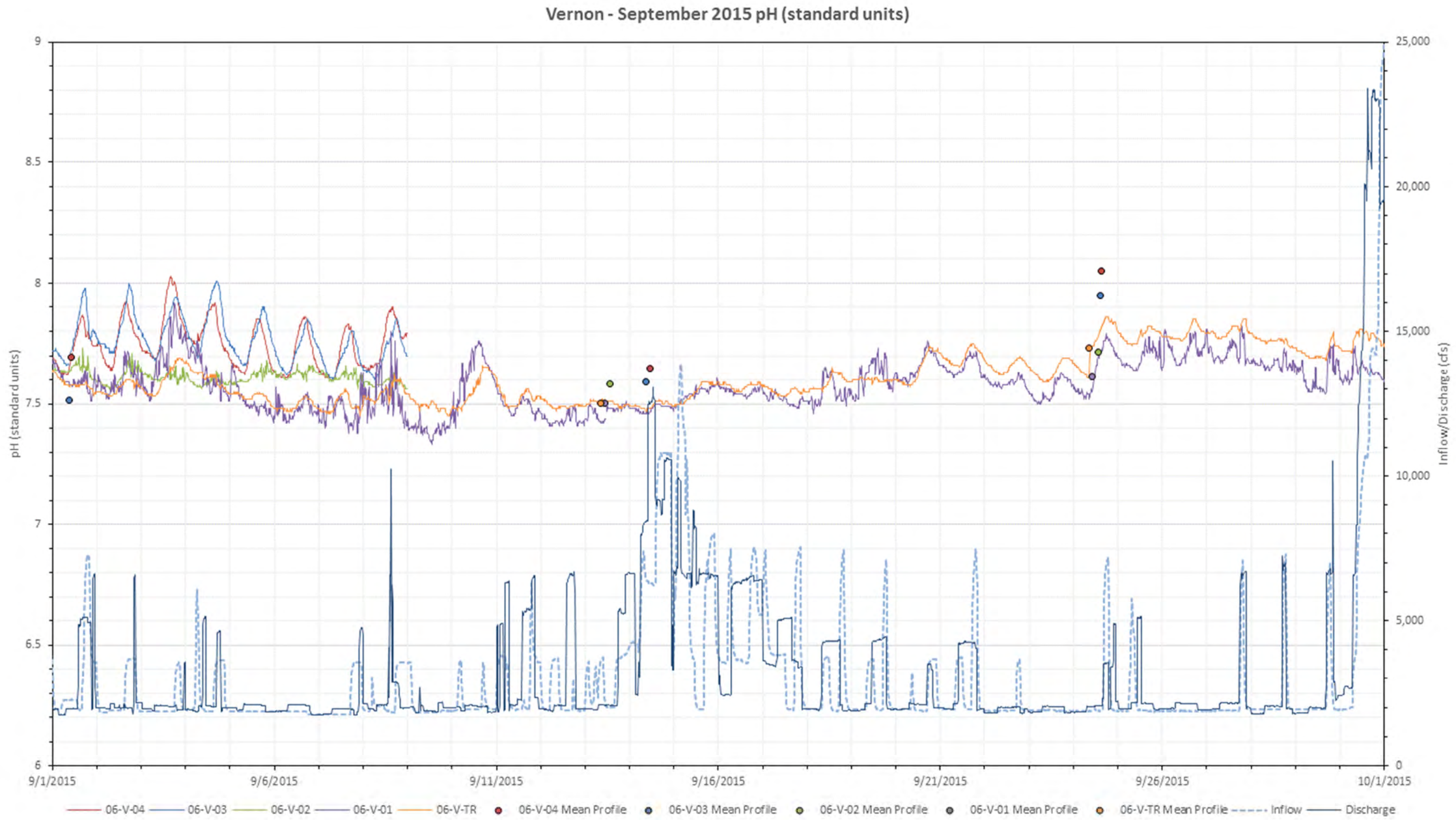

Figure F-59. 2015 September pH (standard units) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

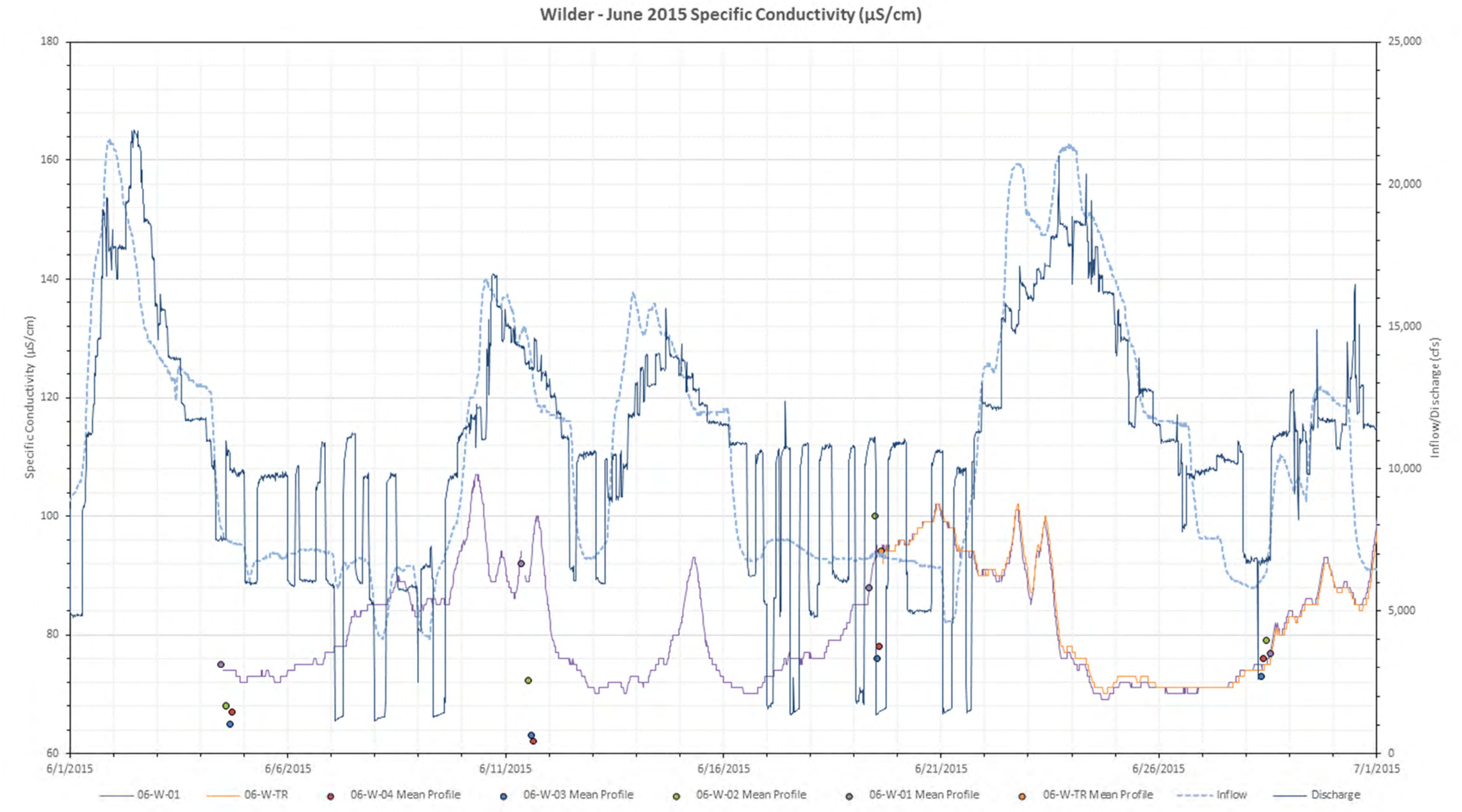

Figure F-60. 2015 June specific conductivity (µS/cm) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

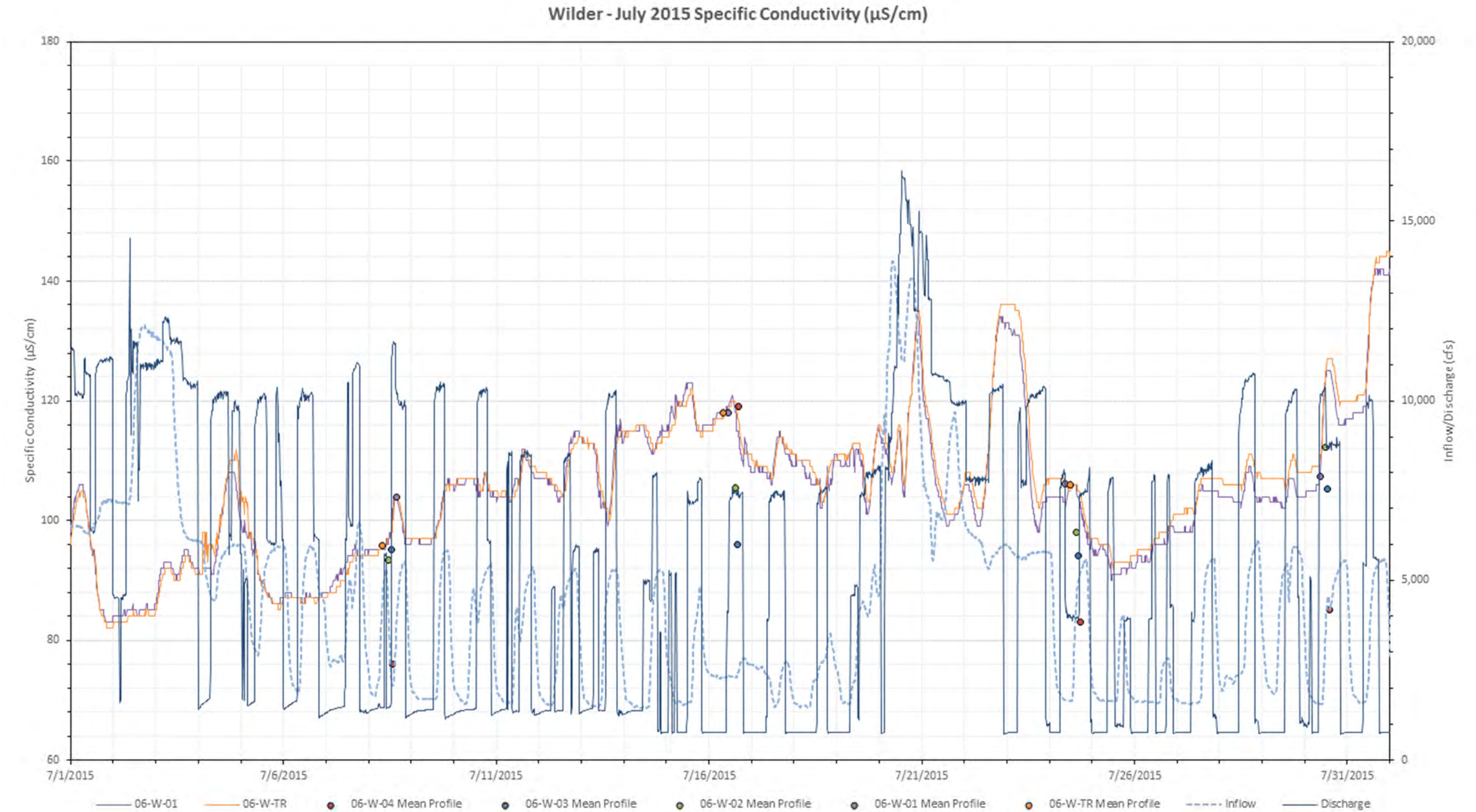

Figure F-61. 2015 July specific conductivity (µS/cm) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

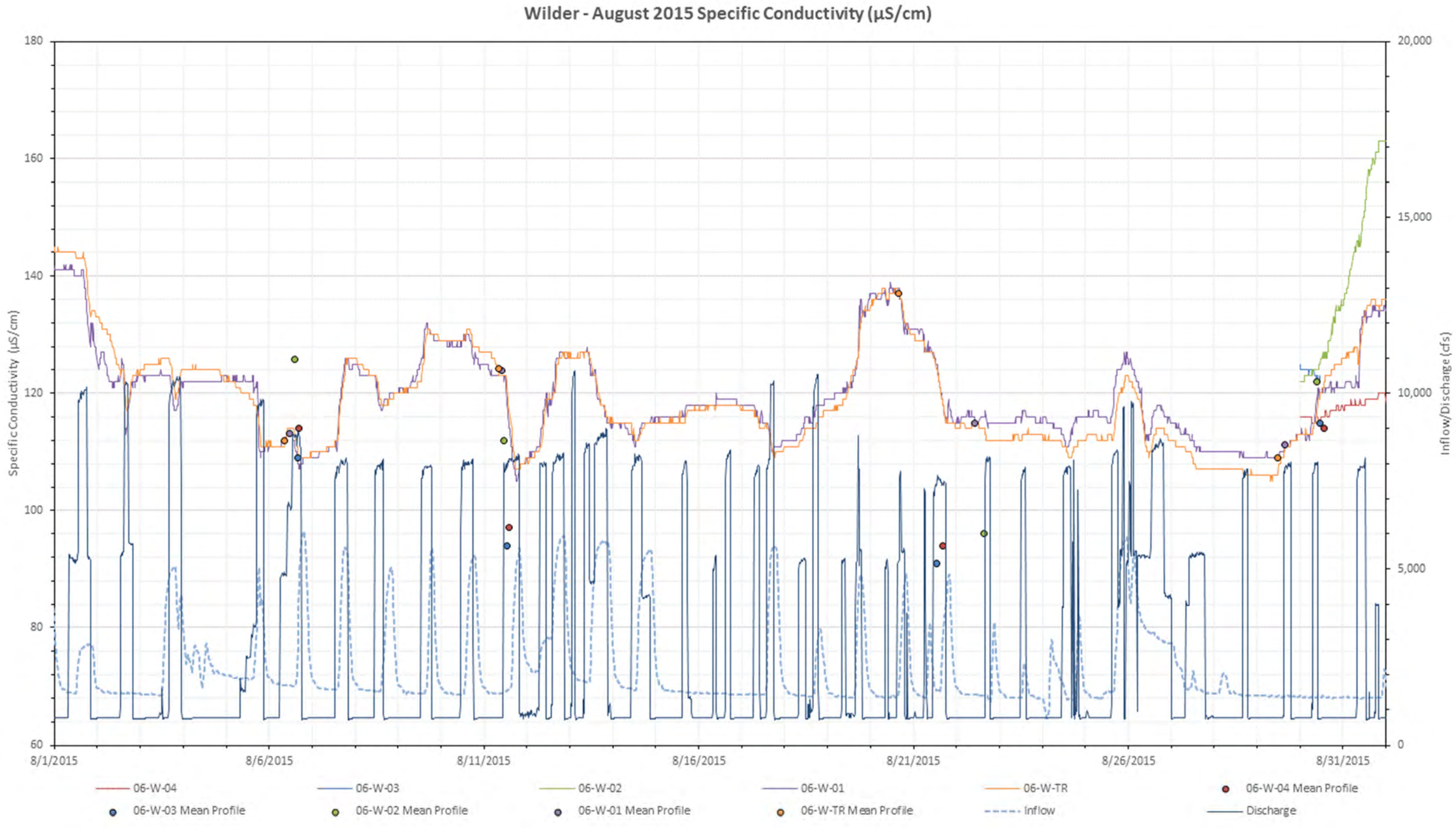

Figure F-62. 2015 August specific conductivity (µS/cm) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

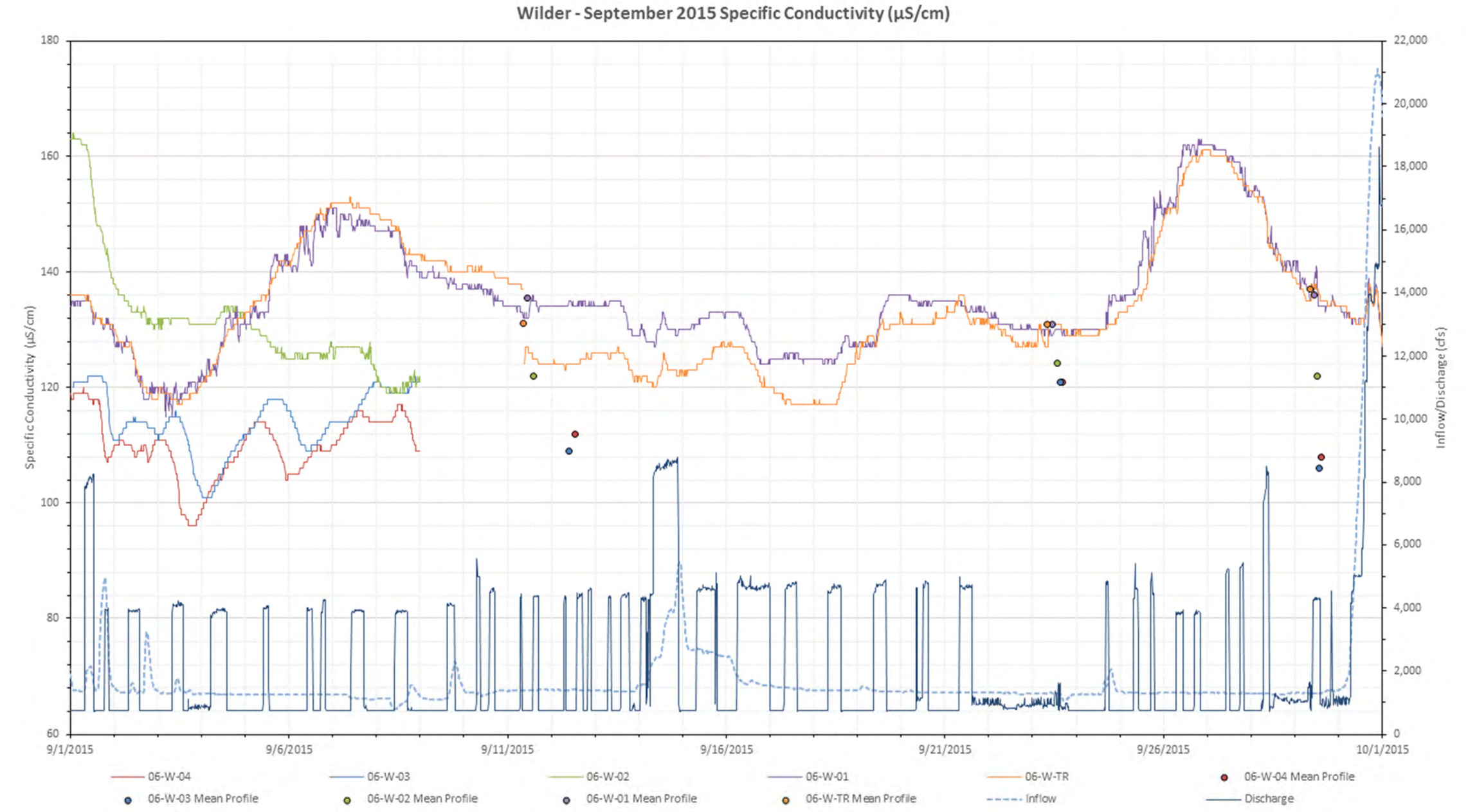

Figure F-63. 2015 September specific conductivity (µS/cm) at all Wilder mainstem stations with inflow (USGS Gage No. 01138500) and Wilder project discharge.

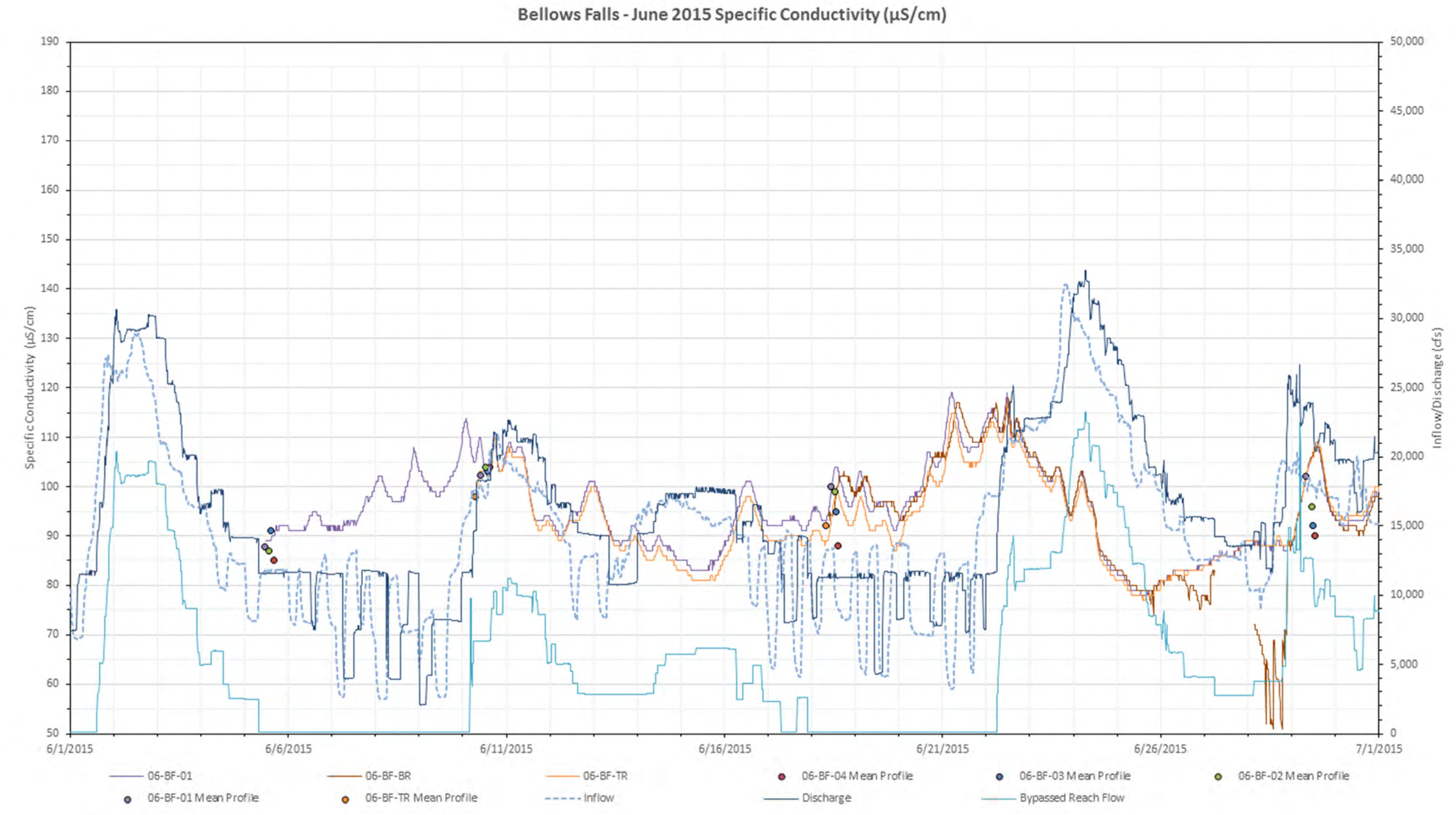

Figure F-64 2015 June specific conductivity (µS/cm) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

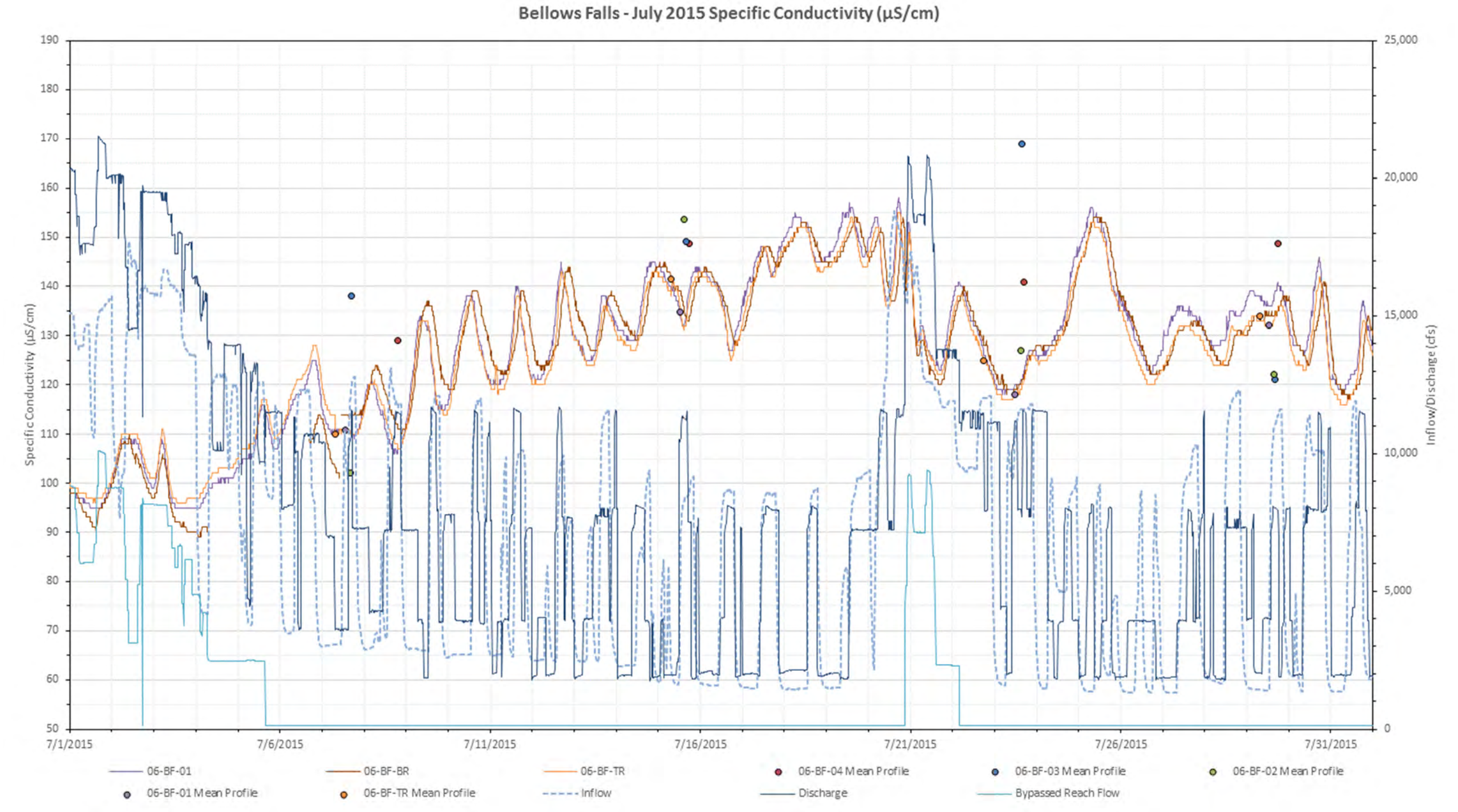

Figure F-65. 2015 July specific conductivity (µS/cm) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

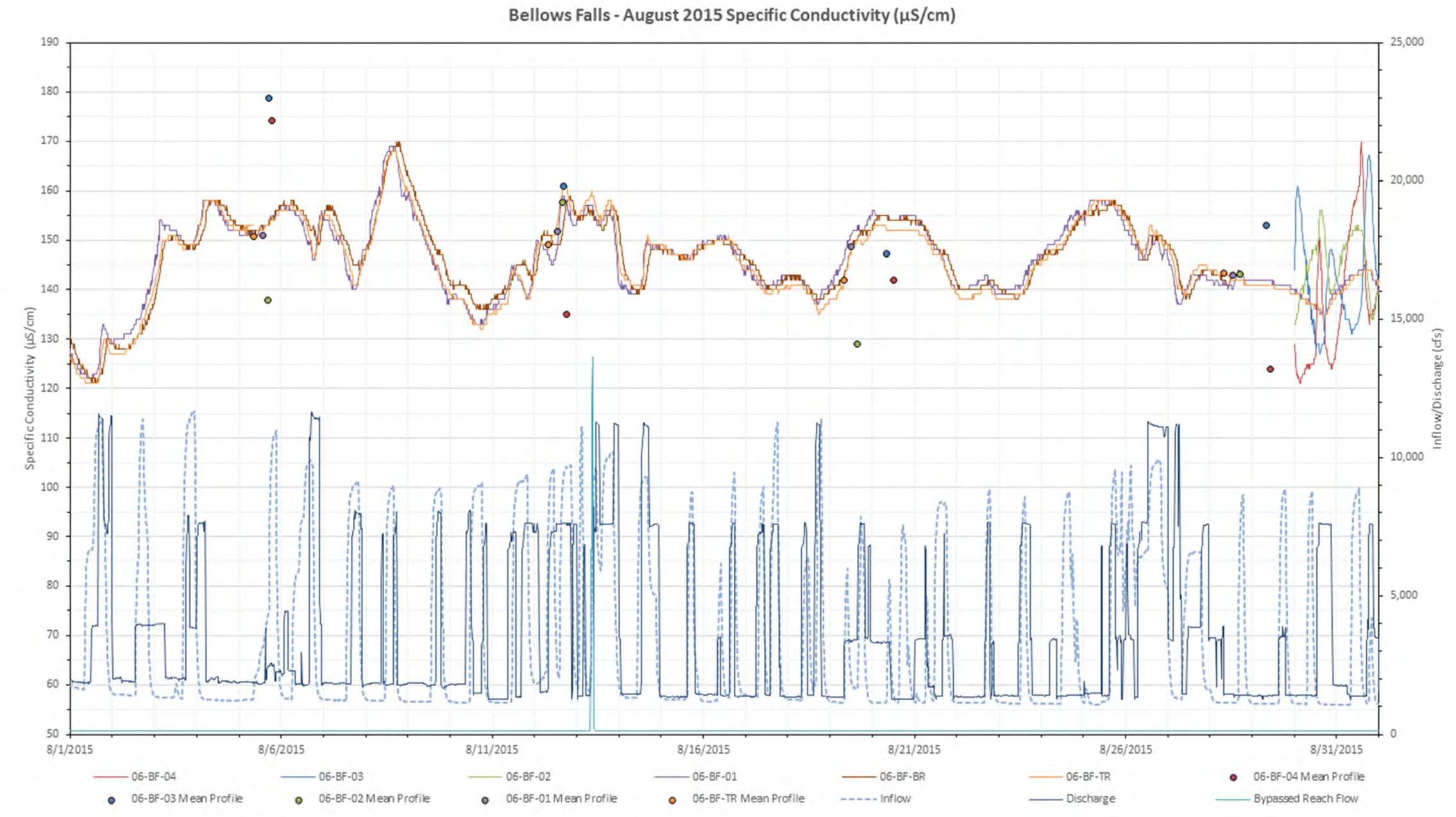

Figure F-66. 2015 August specific conductivity (µS/cm) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

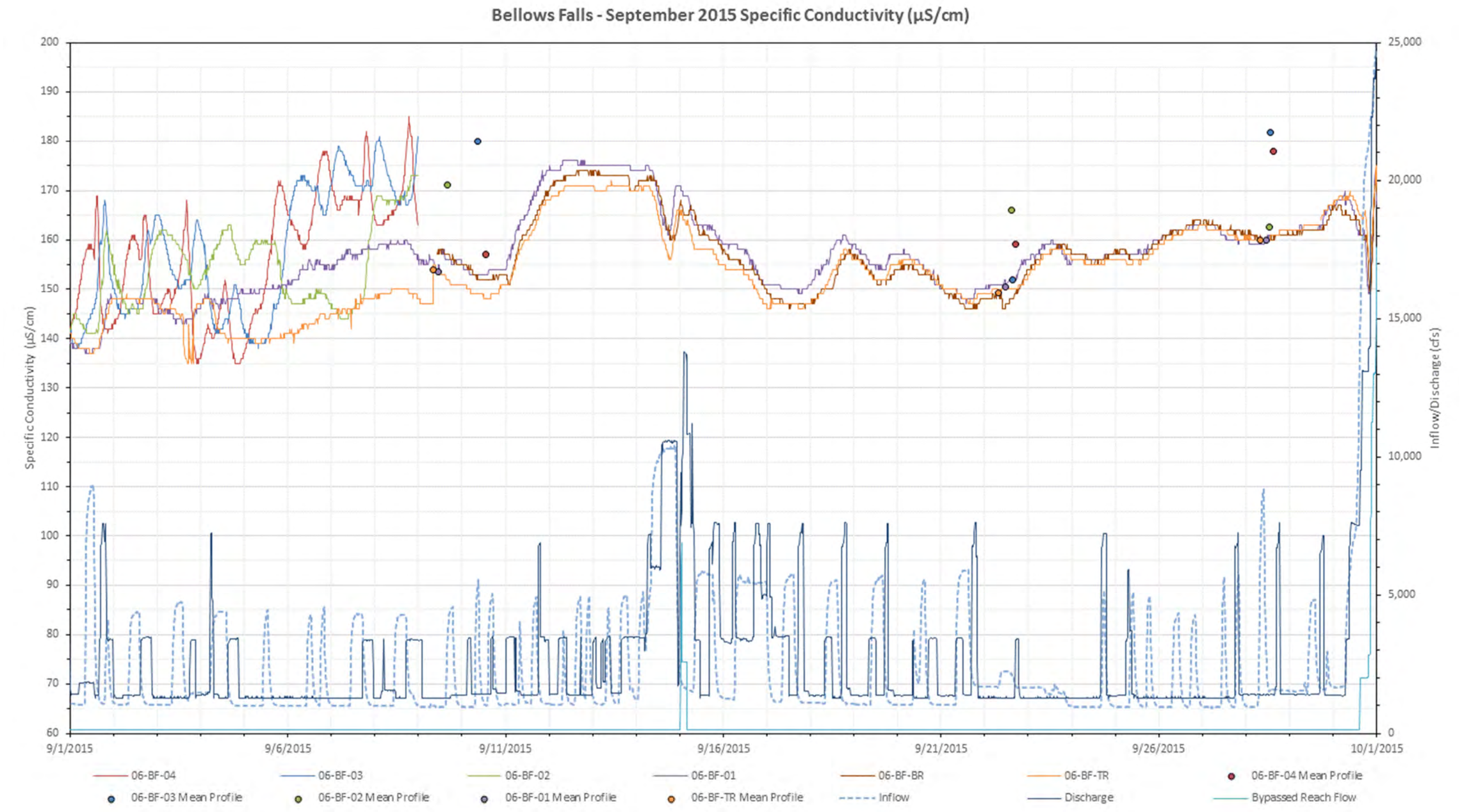

Figure F-67. 2015 September specific conductivity (µS/cm) at all Bellows Falls stations with inflow (USGS Gage No. 01144500), bypassed reach flow, and Bellows Falls project discharge.

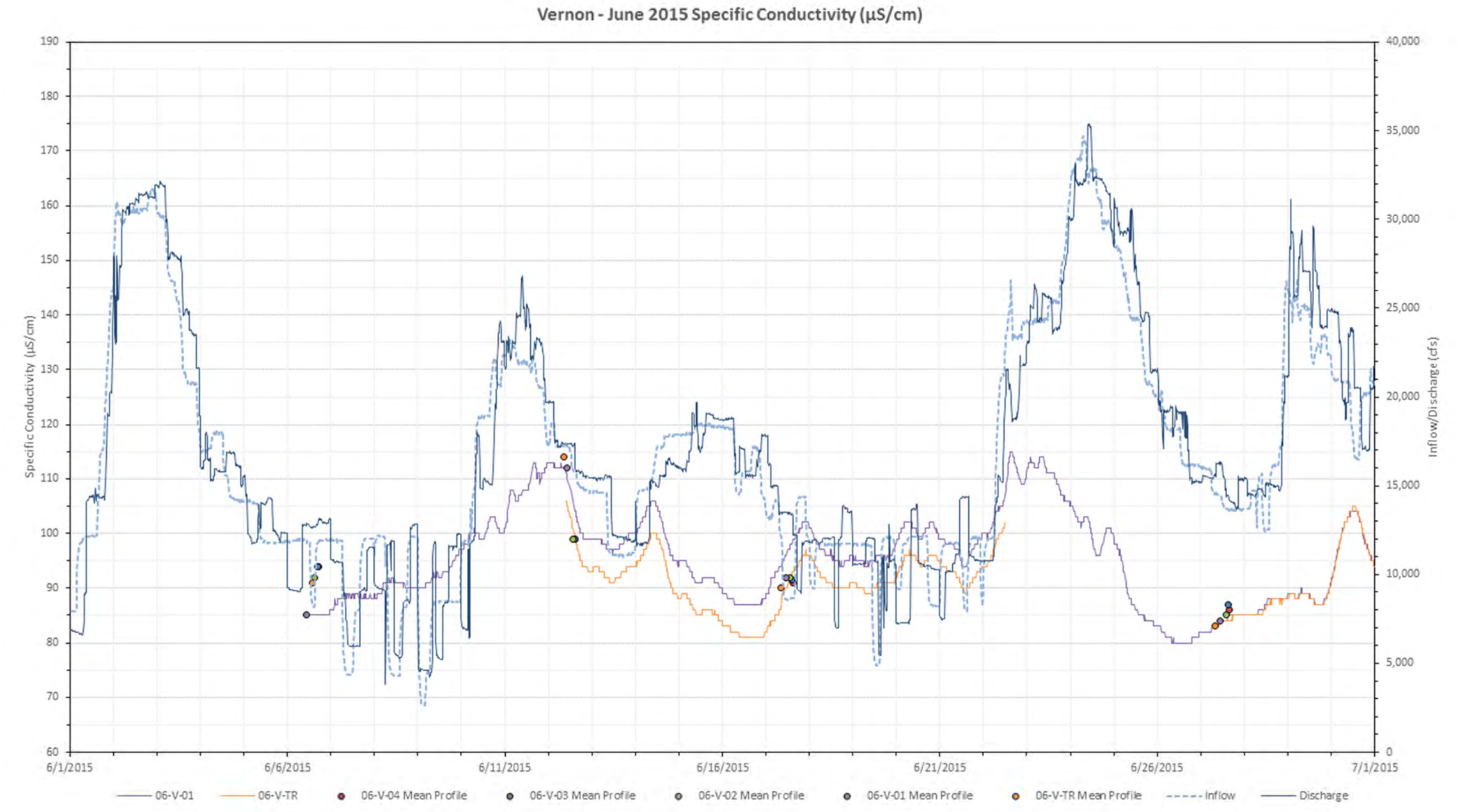

Figure F-68. 2015 June specific conductivity (µS/cm) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

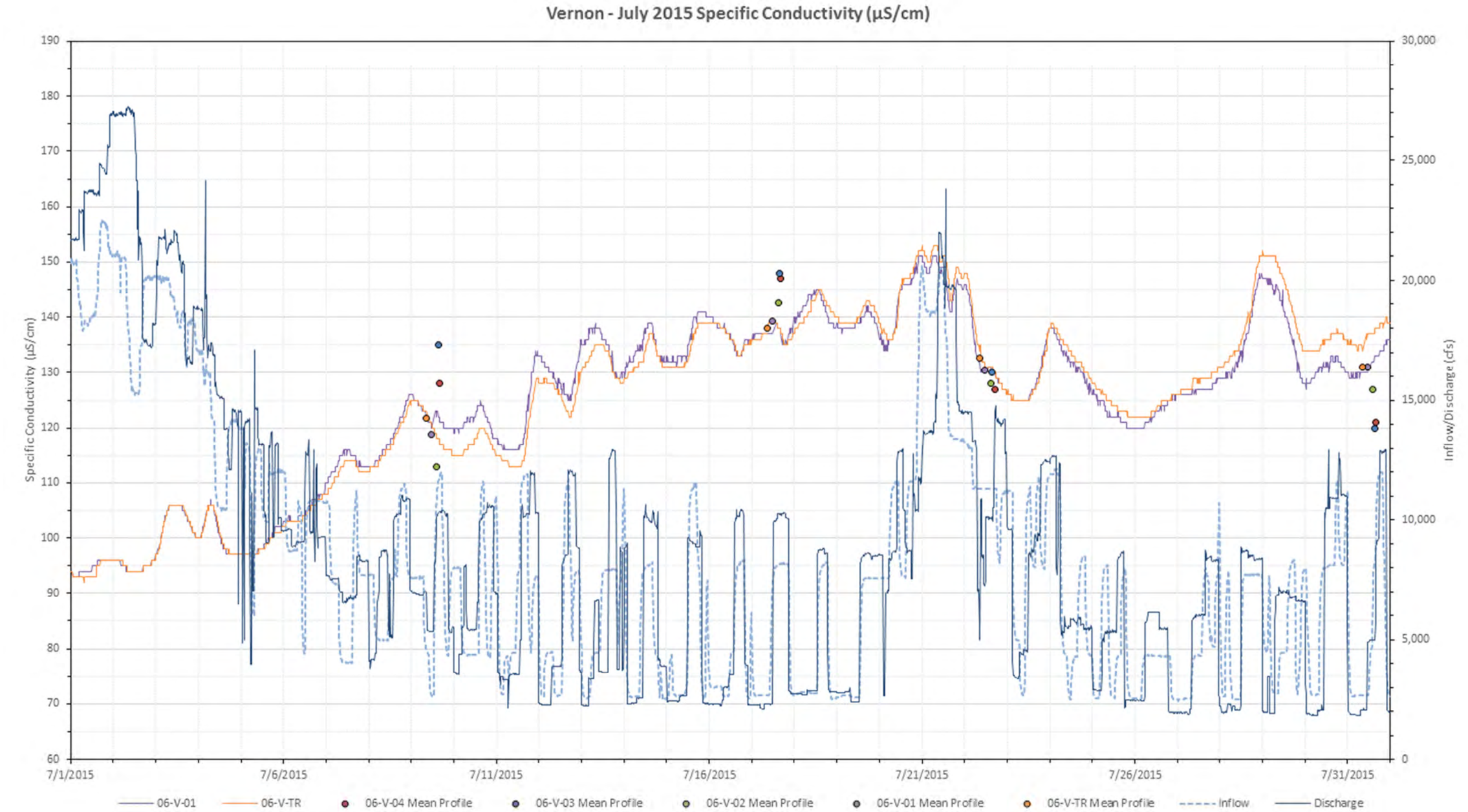

Figure F-69. 2015 July specific conductivity (µS/cm) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

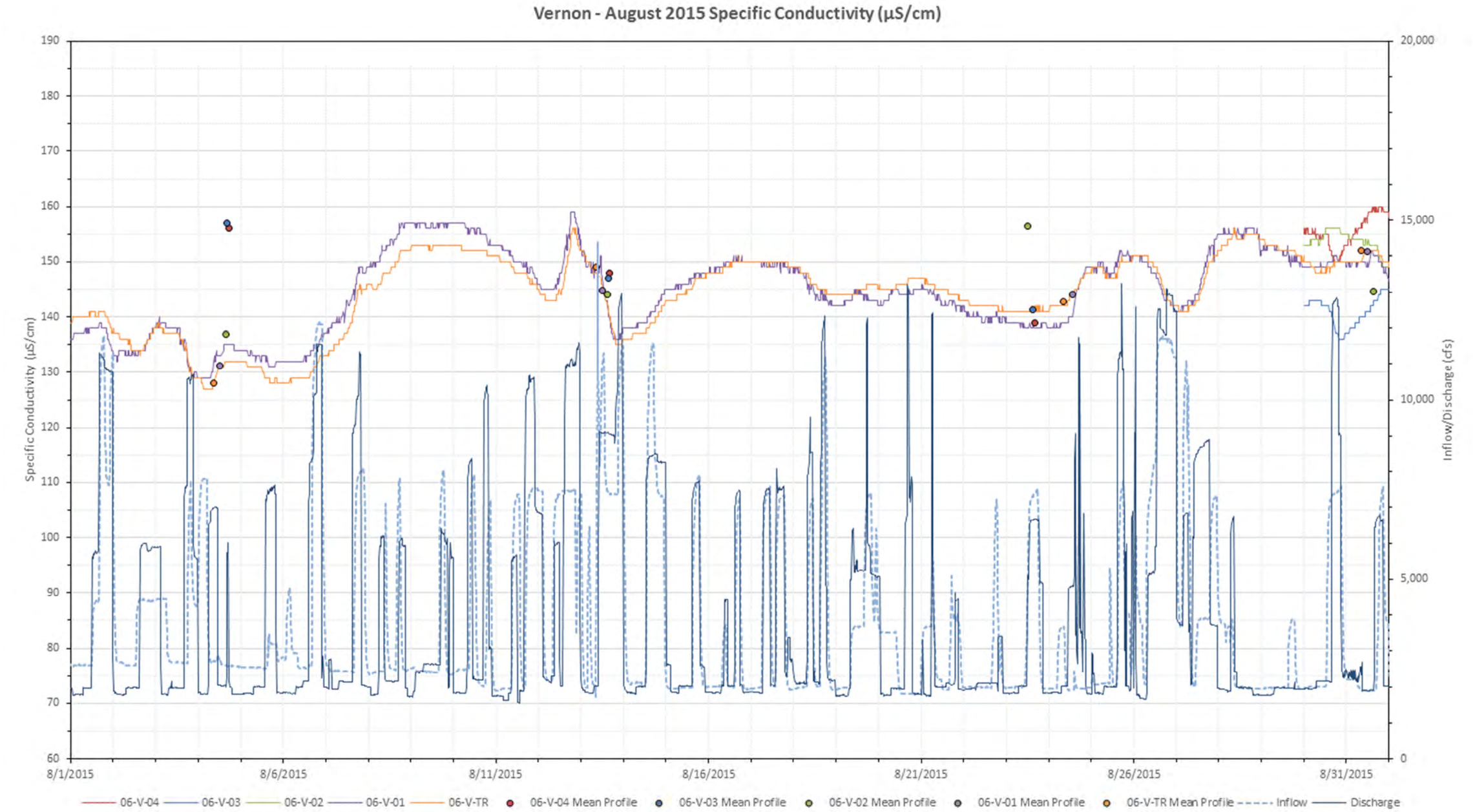

Figure F-67. 2015 August specific conductivity (µS/cm) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

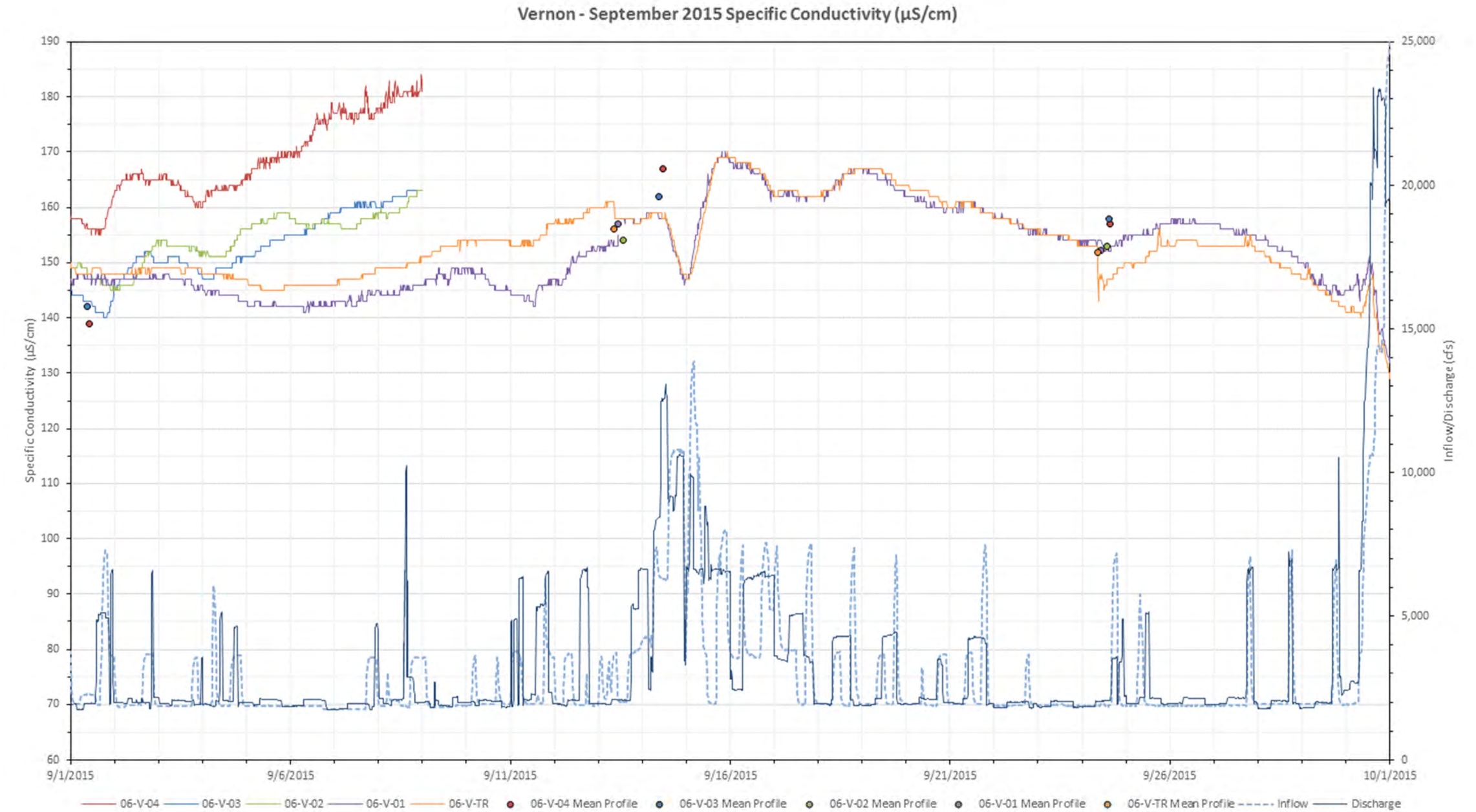

Figure F-71. 2015 September specific conductivity (µS/cm) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500) and Vernon project discharge.

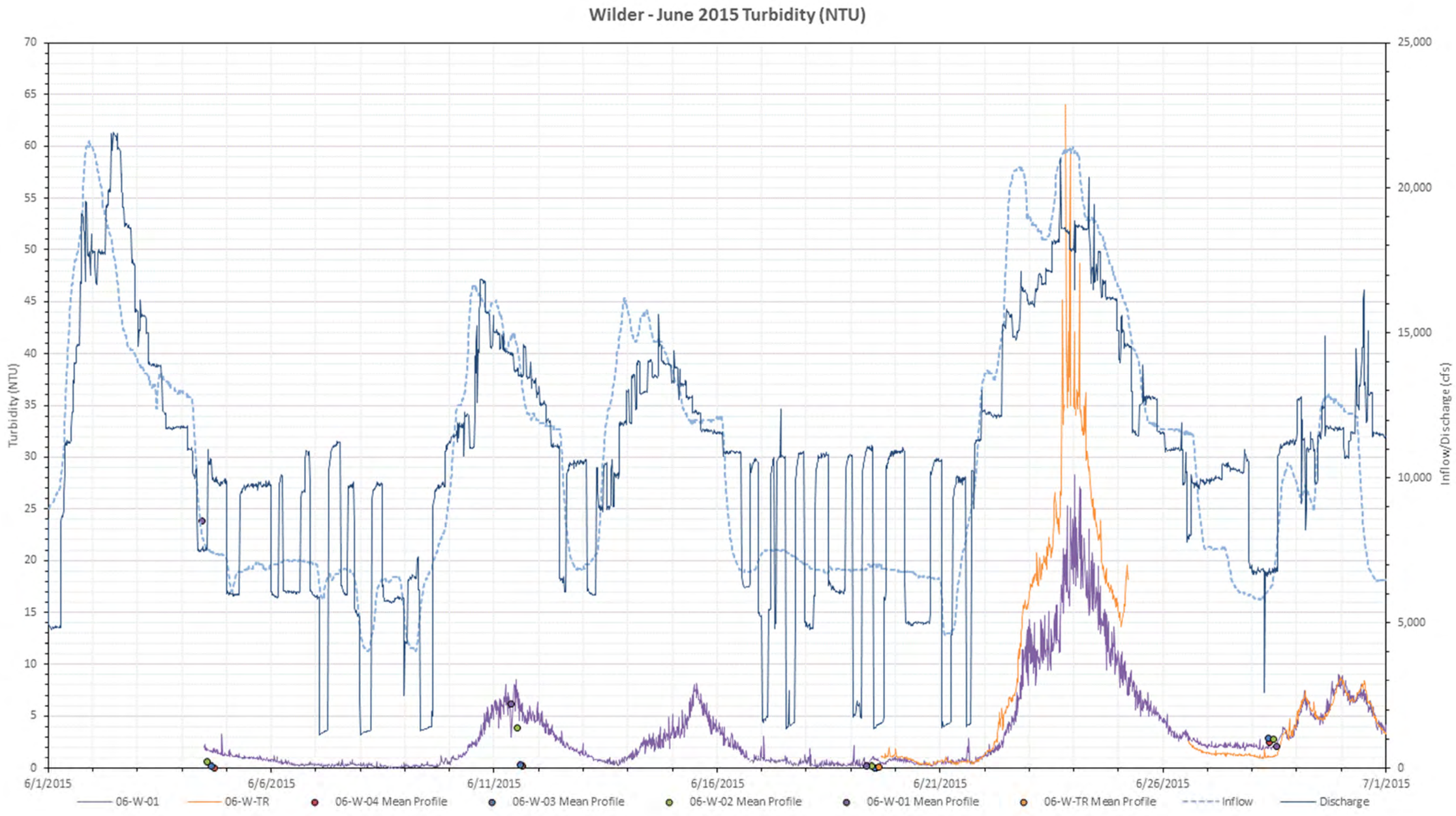

Figure F-72. 2015 June turbidity (NTU) at all Wilder mainstem stations with inflow (USGS Gage No. 0113850 Connecticut River at Wells River, VT) and Wilder project discharge.

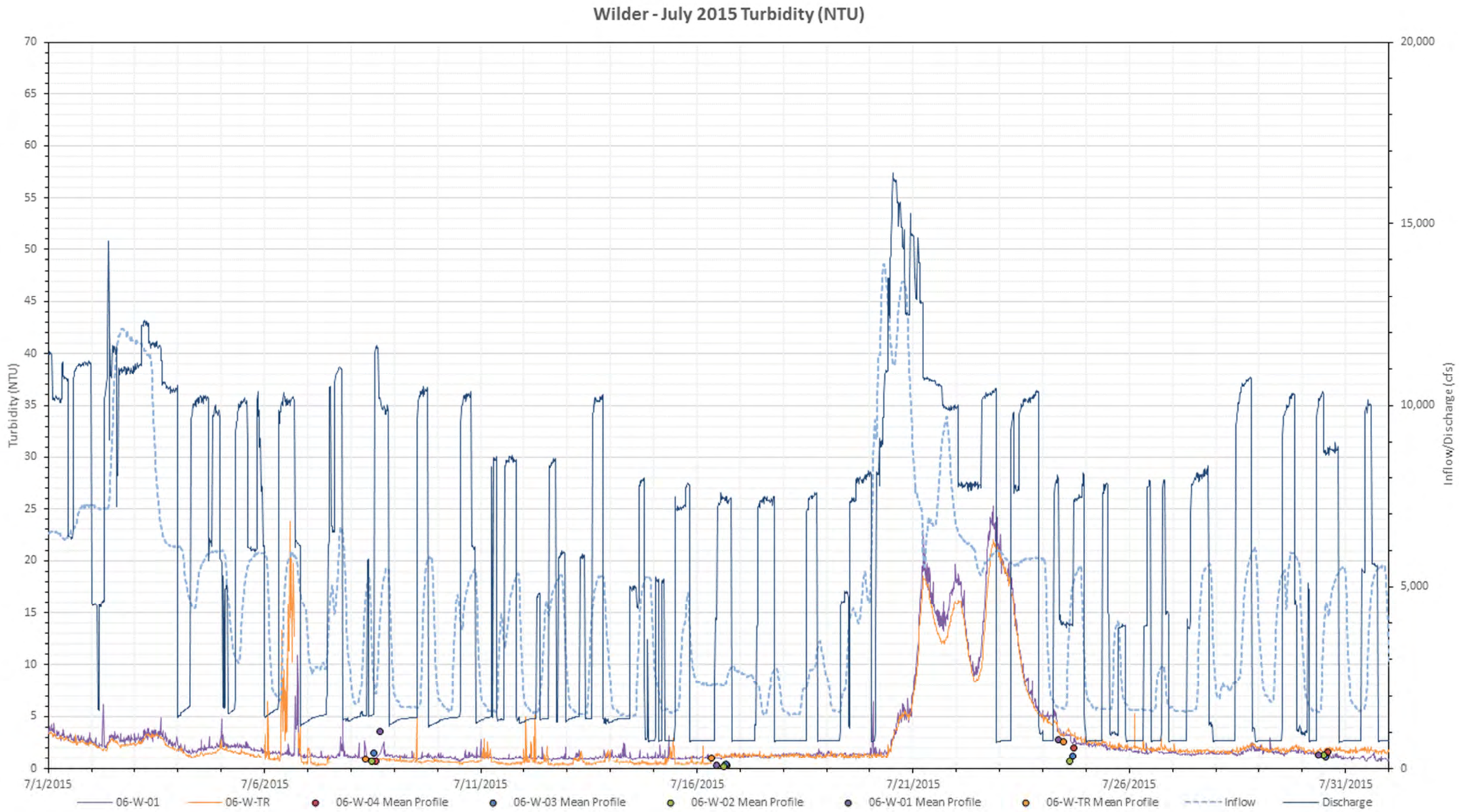

Figure F-73. 2015 July turbidity (NTU) at all Wilder mainstem stations with inflow (USGS Gage No. 0113850 Connecticut River at Wells River, VT) and Wilder project discharge.

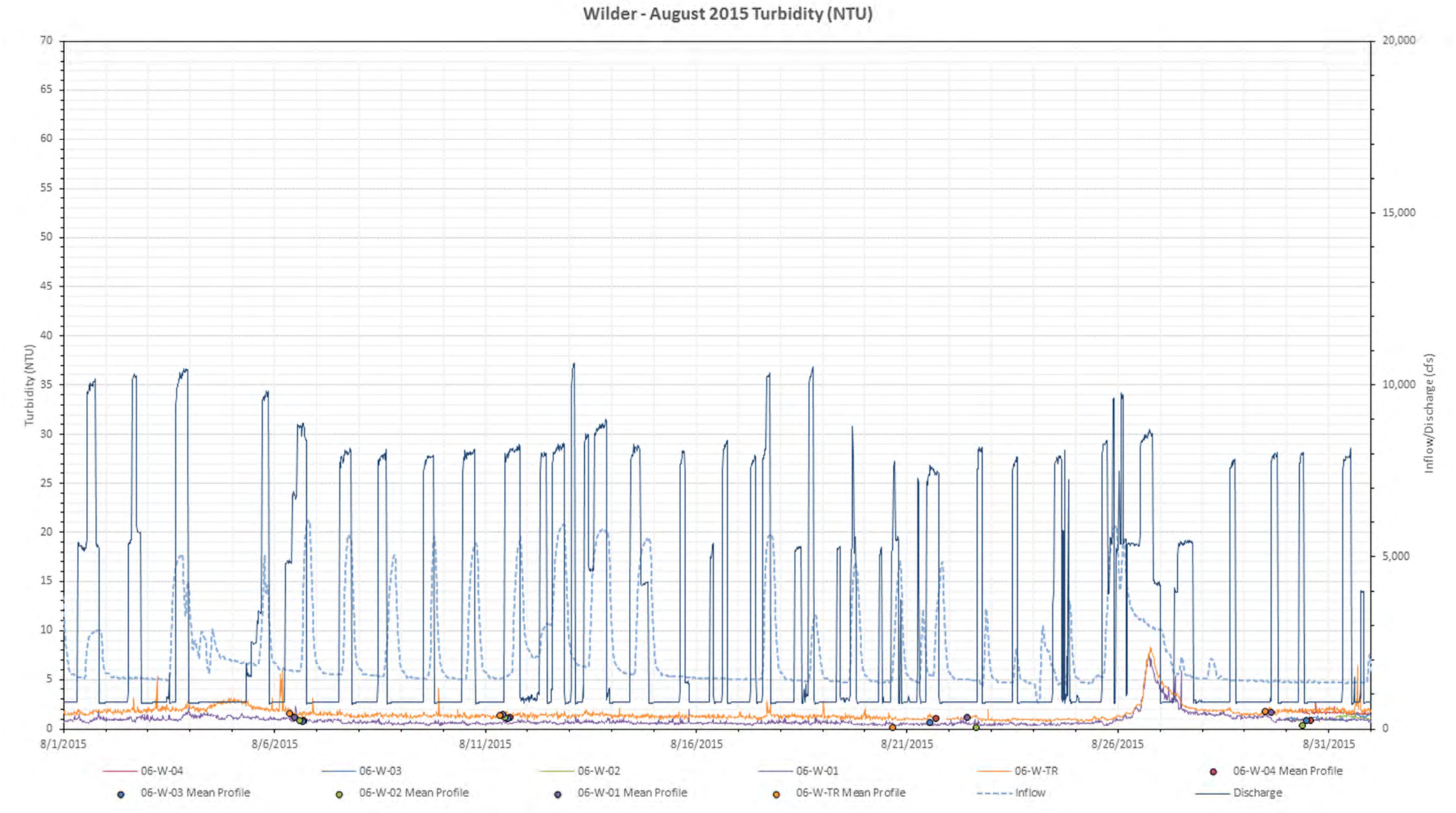

Figure F-74. 2015 August turbidity (NTU) at all Wilder mainstem stations with inflow (USGS Gage No. 0113850 Connecticut River at Wells River, VT) and Wilder project discharge.

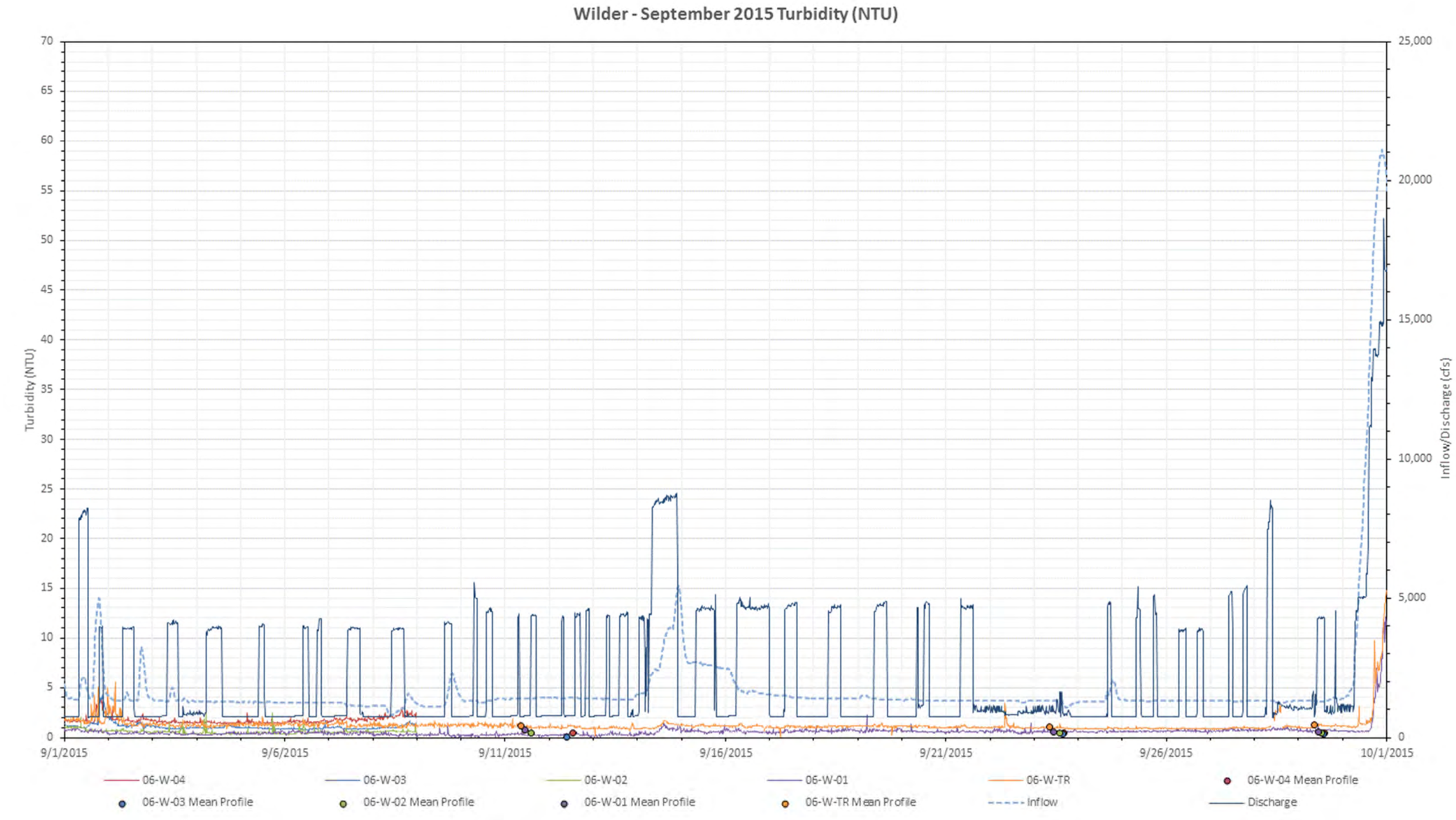

Figure F-75. 2015 September turbidity (NTU) at all Wilder mainstem stations with inflow (USGS Gage No. 0113850 Connecticut River at Wells River, VT) and Wilder project discharge.

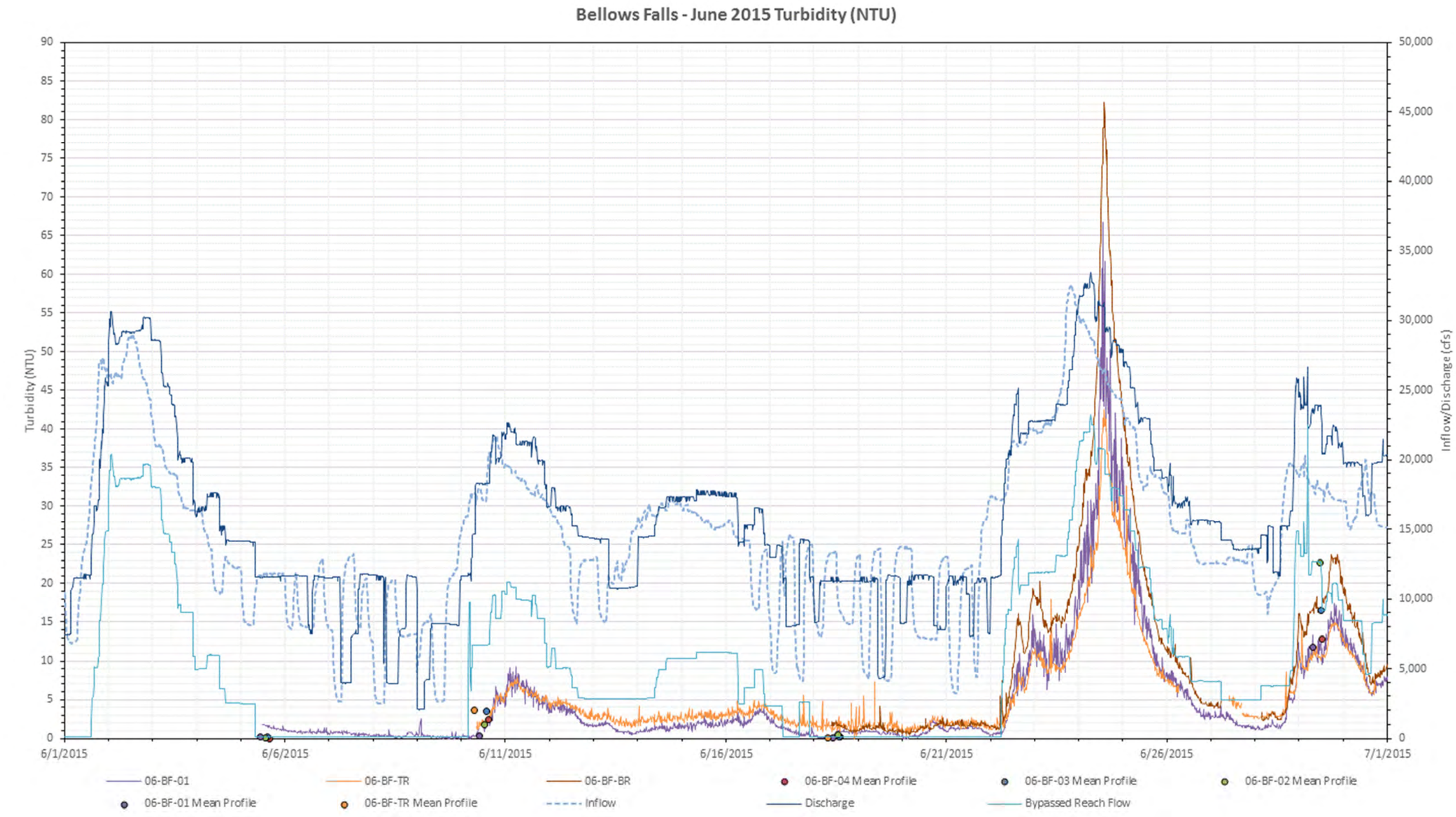

Figure F-76. 2015 June turbidity (NTU) at all Bellows Falls stations with inflow (USGS Gage No. 01144500 West Lebanon, NH), bypassed reach flow, and Bellows Falls project discharge.

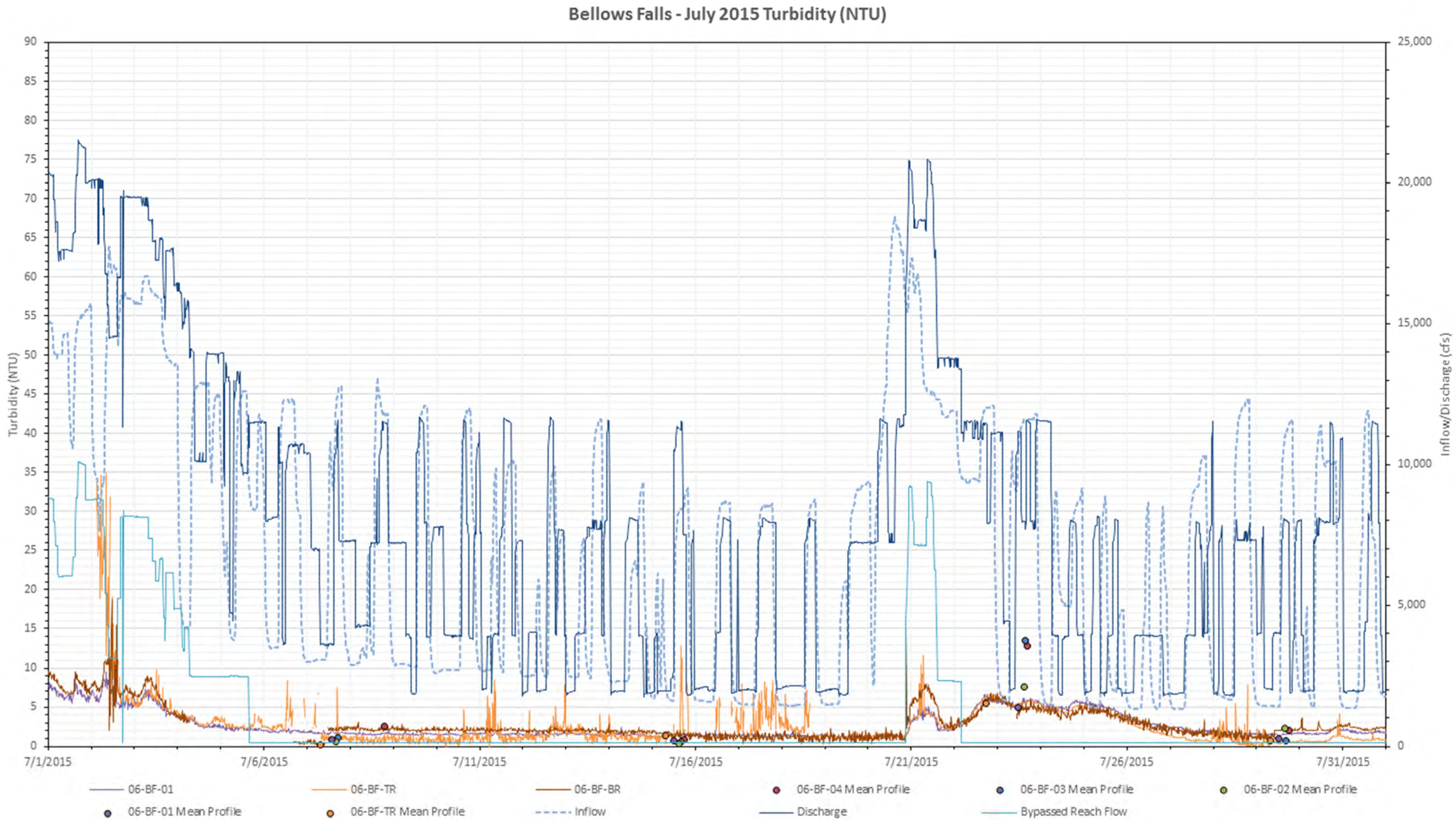

Figure F-77. 2015 July turbidity (NTU) at all Bellows Falls stations with inflow (USGS Gage No. 01144500 West Lebanon, NH), bypassed reach flow, and Bellows Falls project discharge.

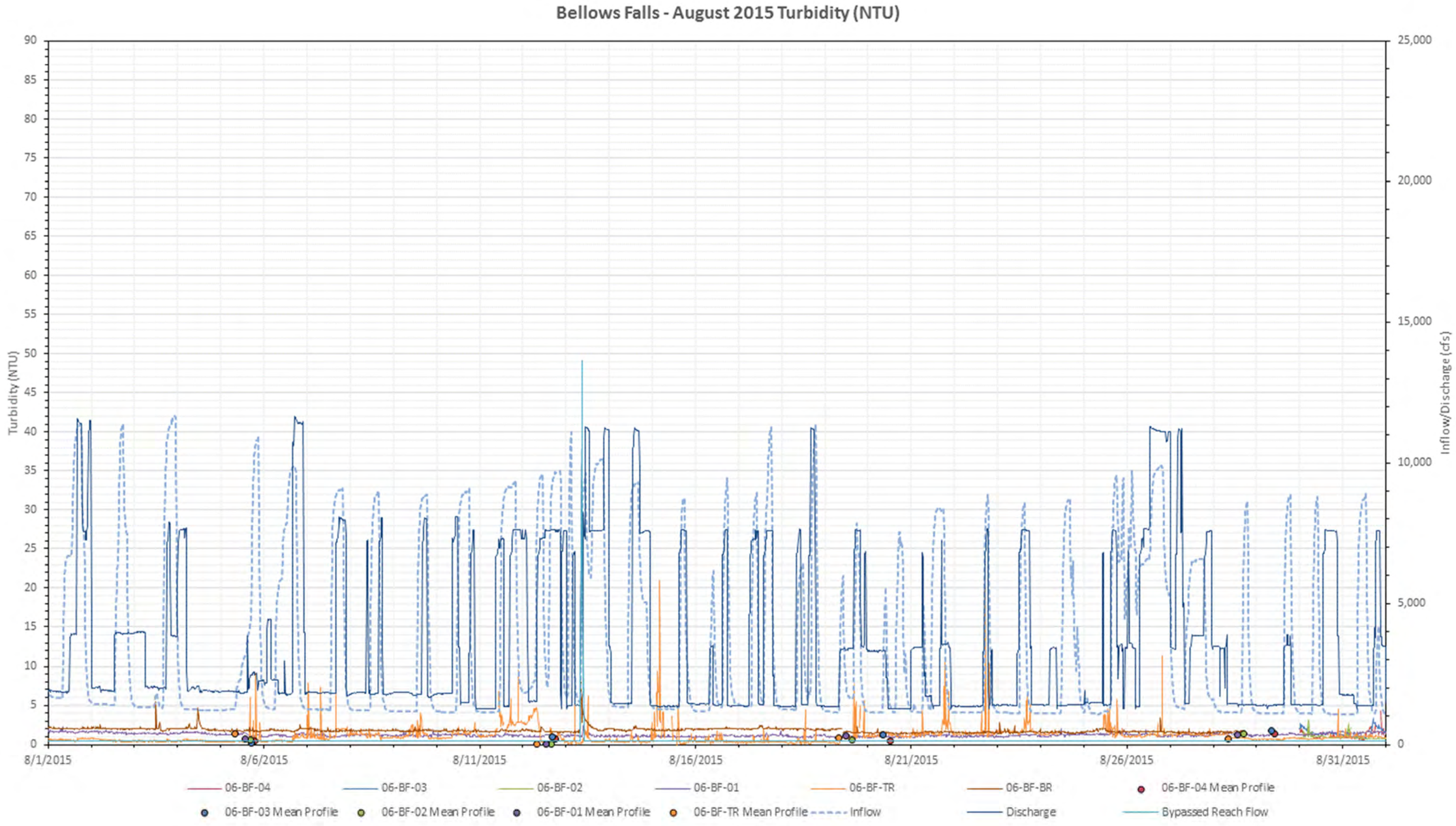

Figure F-78. 2015 August turbidity (NTU) at all Bellows Falls stations with inflow (USGS Gage No. 01144500 West Lebanon, NH), bypassed reach flow, and Bellows Falls project discharge.

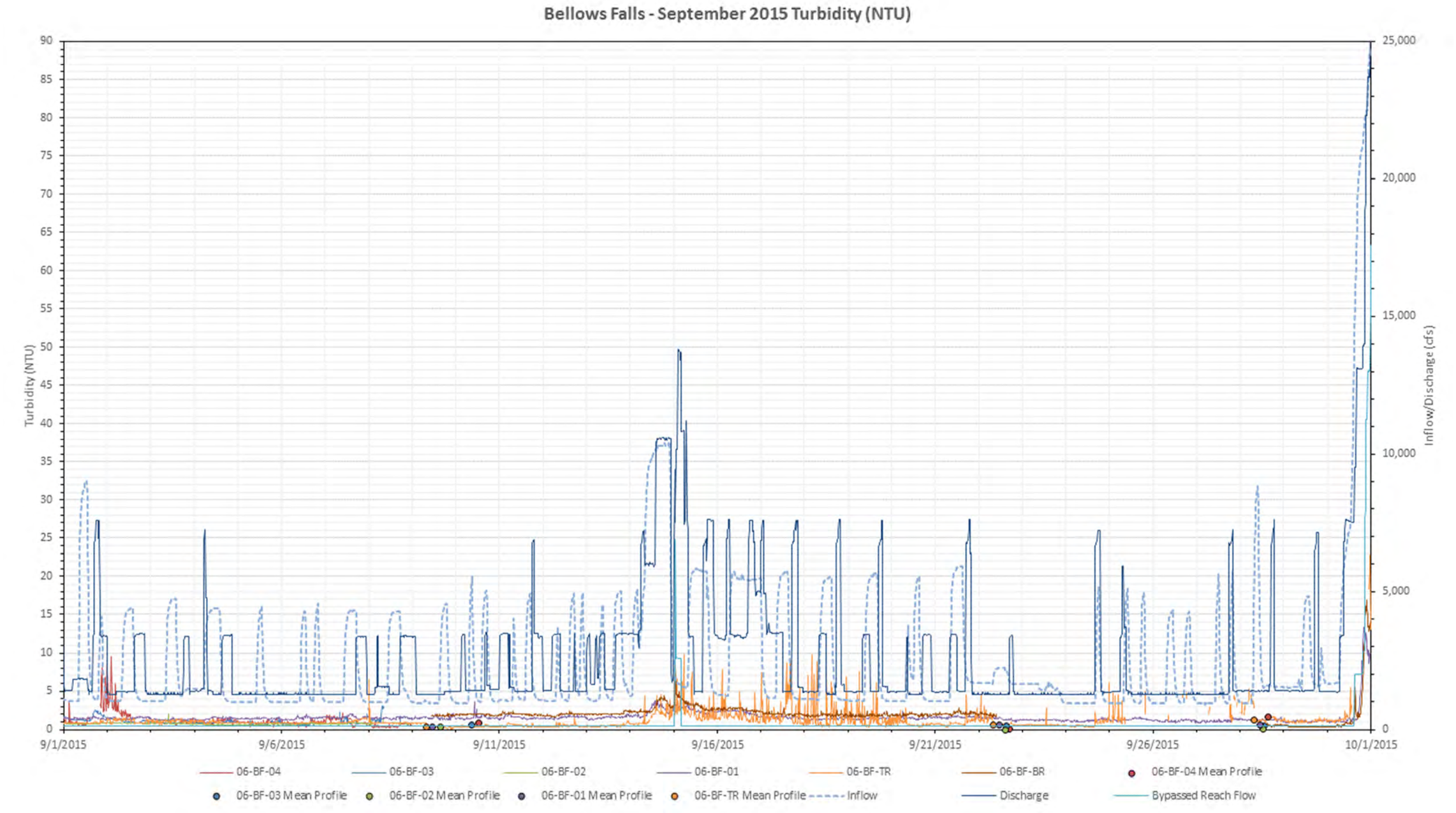

Figure F-79. 2015 September turbidity (NTU) at all Bellows Falls stations with inflow (USGS Gage No. 01144500 West Lebanon, NH), bypassed reach flow, and Bellows Falls project discharge.

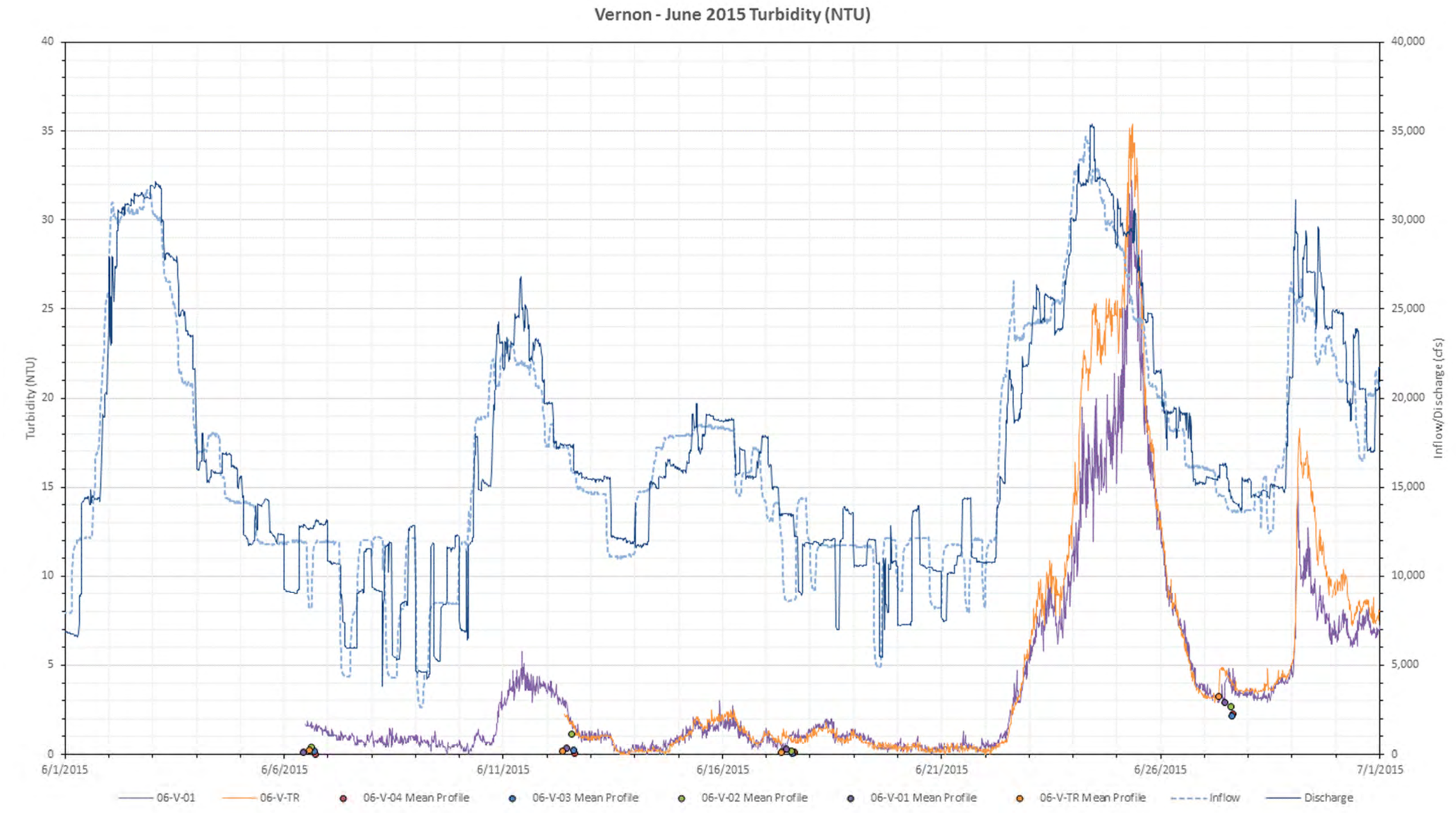

Figure F-80. 2015 June turbidity (NTU) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500 North Walpole, NH) and Vernon project discharge.

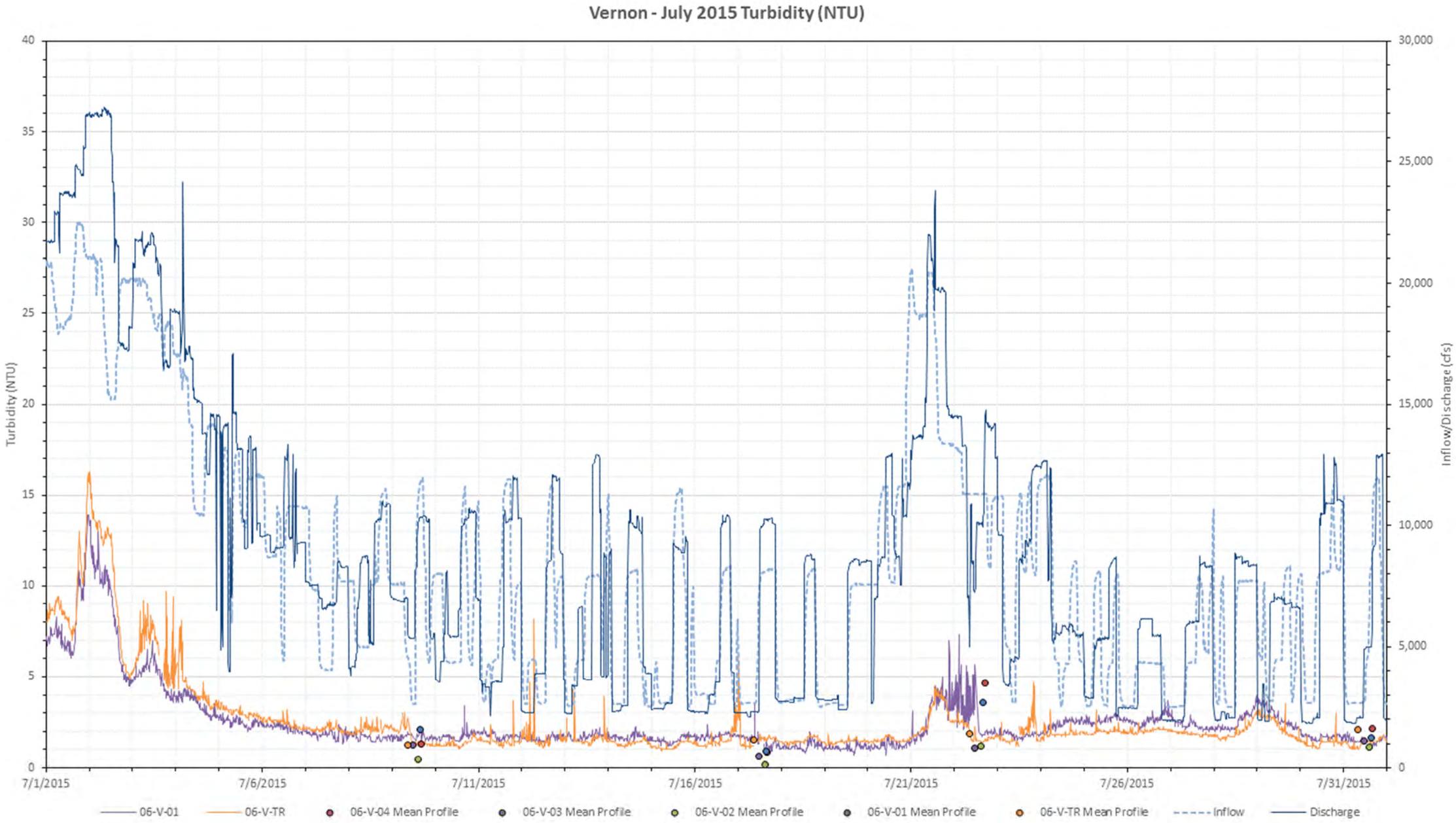

Figure F-81. 2015 July turbidity (NTU) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500 North Walpole, NH) and Vernon project discharge.

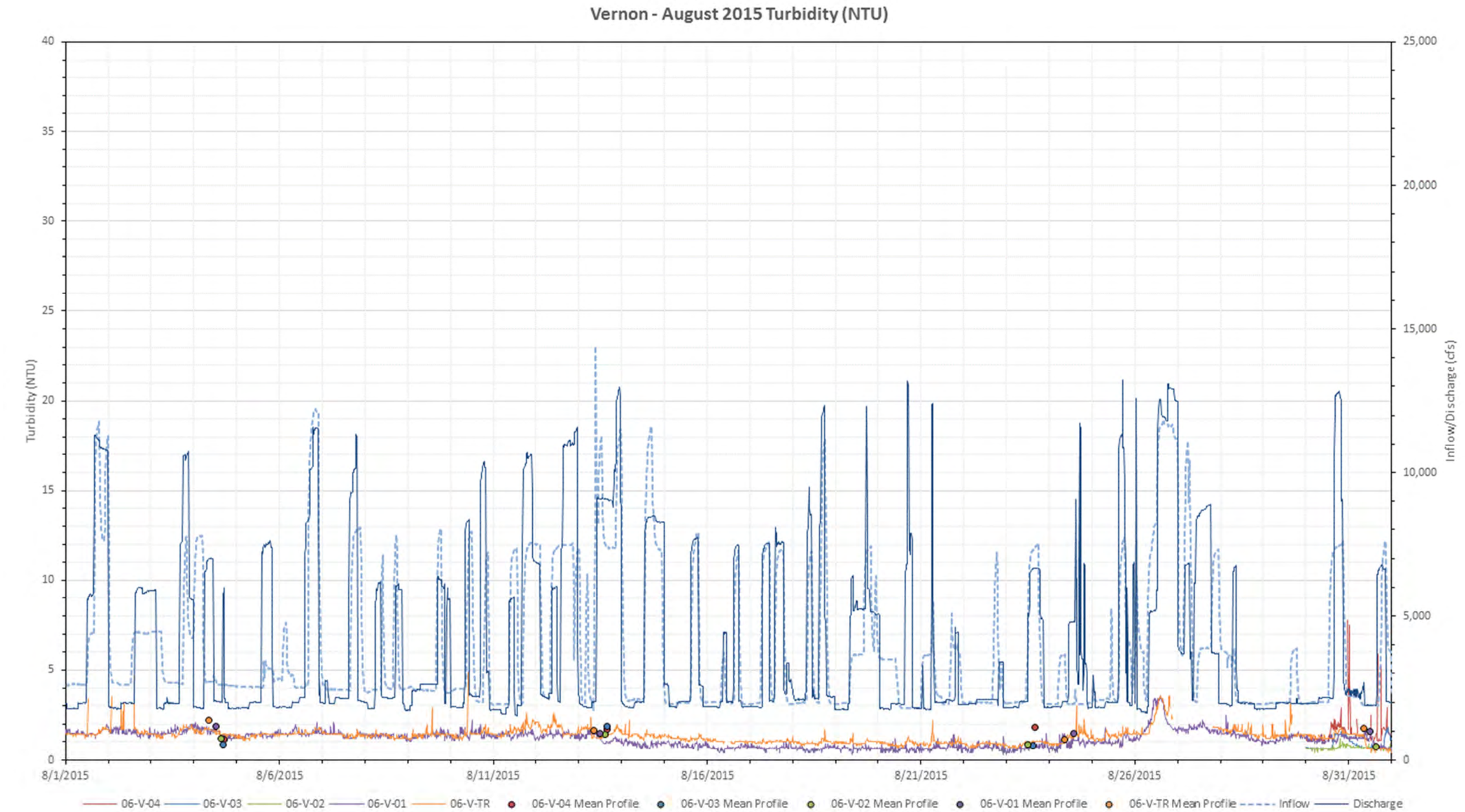

Figure F-82. 2015 August turbidity (NTU) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500 North Walpole, NH) and Vernon project discharge.

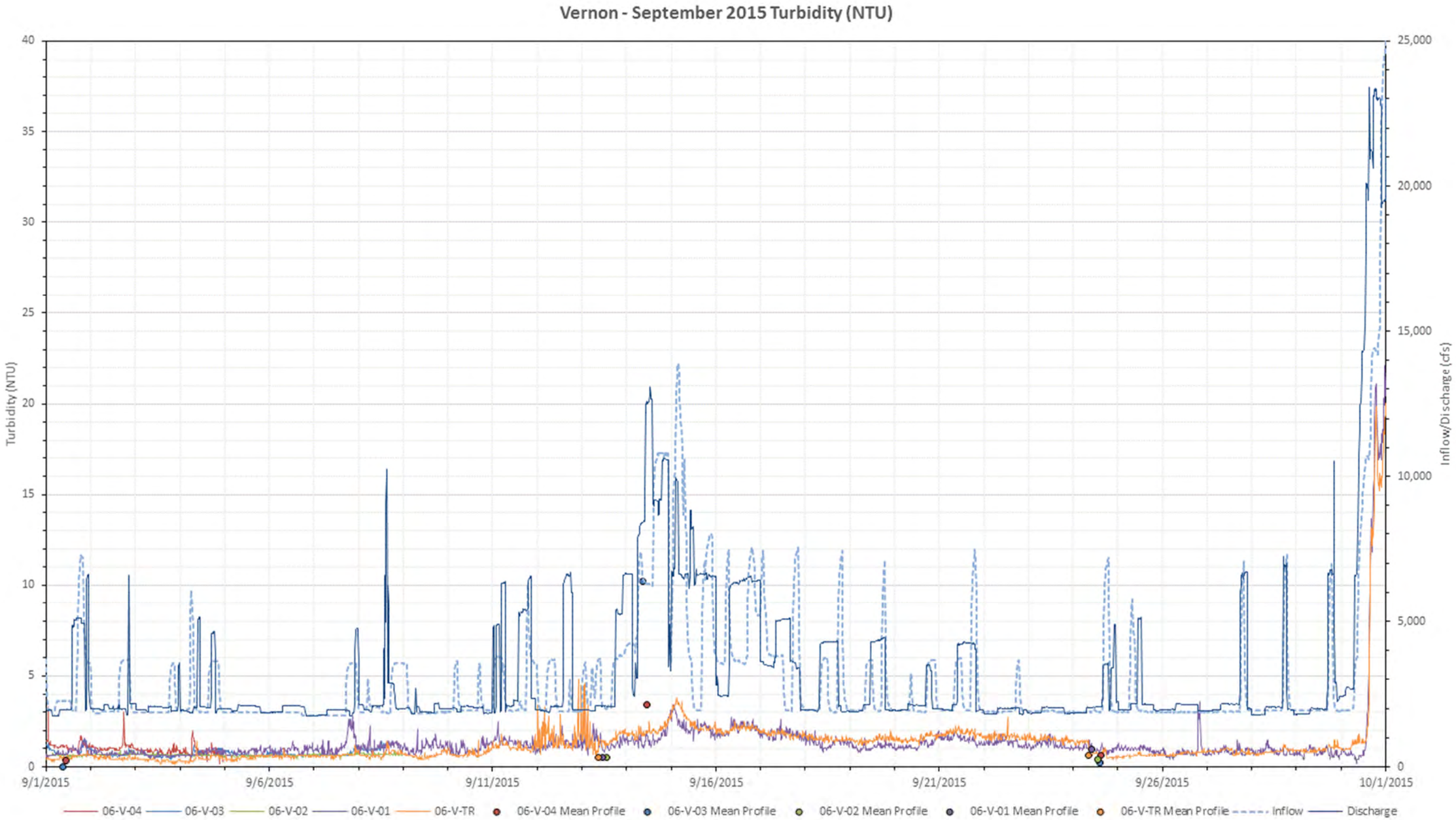

Figure F-83. 2015 September turbidity (NTU) at all mainstem Vernon stations with inflow (USGS Gage No. 01154500 North Walpole, NH) and Vernon project discharge.

[this page intentionally left blank]

APPENDIX G

2015 Water Quality Vertical Profile Mean Time-Series Figures

[This page intentionally left blank.]

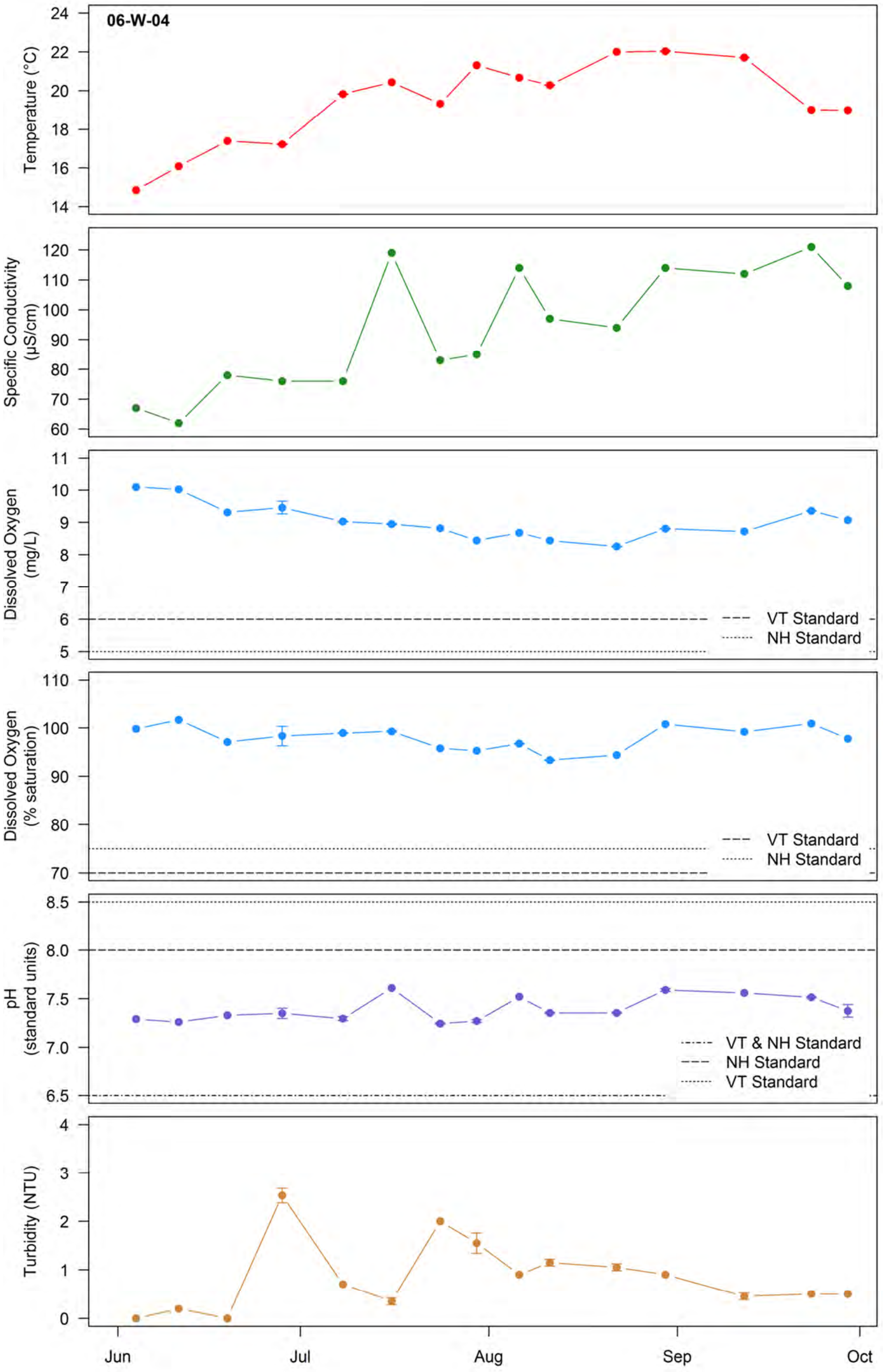

Figure G-1. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at 06-W-04 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

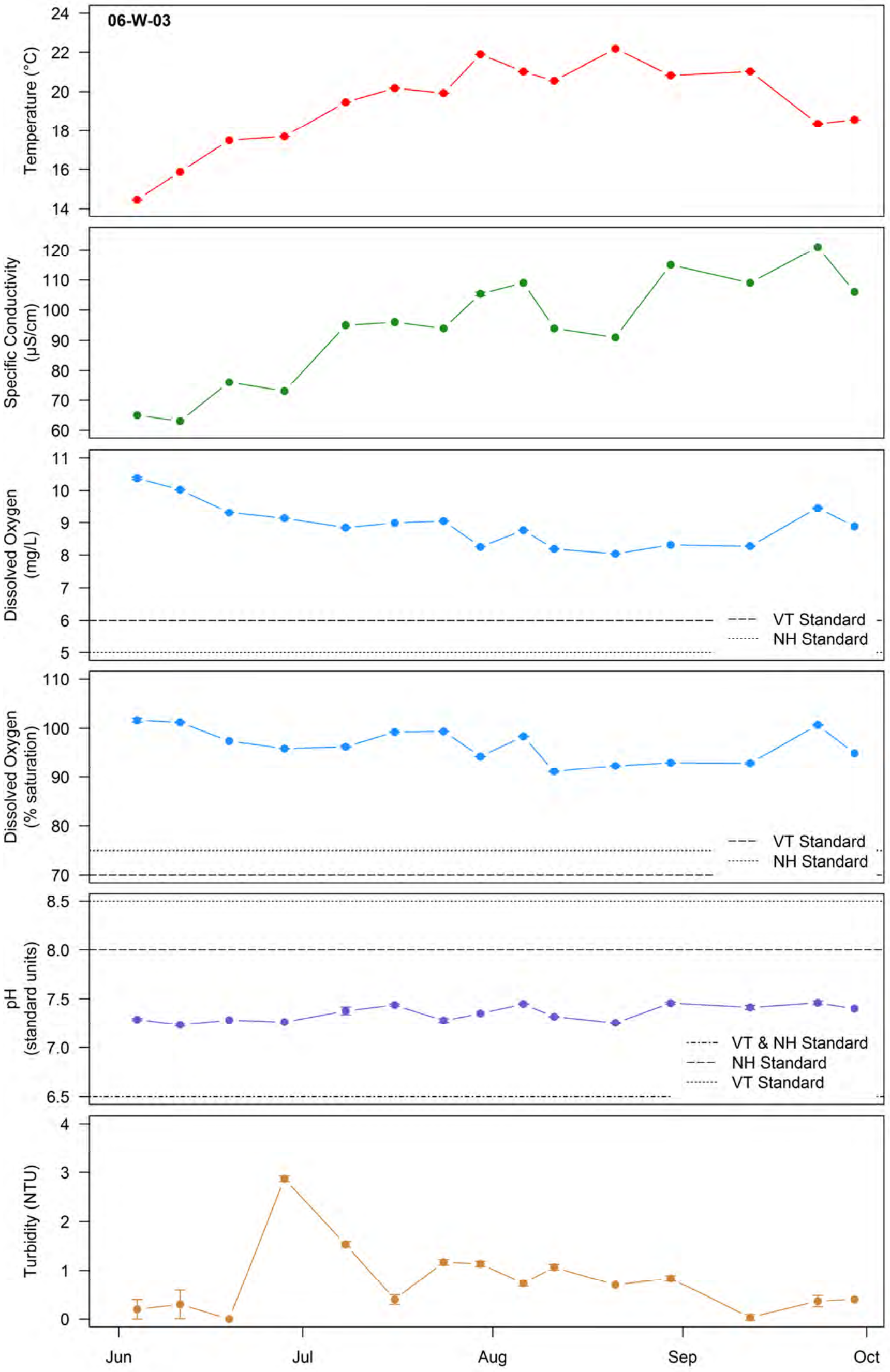

Figure G-2. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-W-03 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

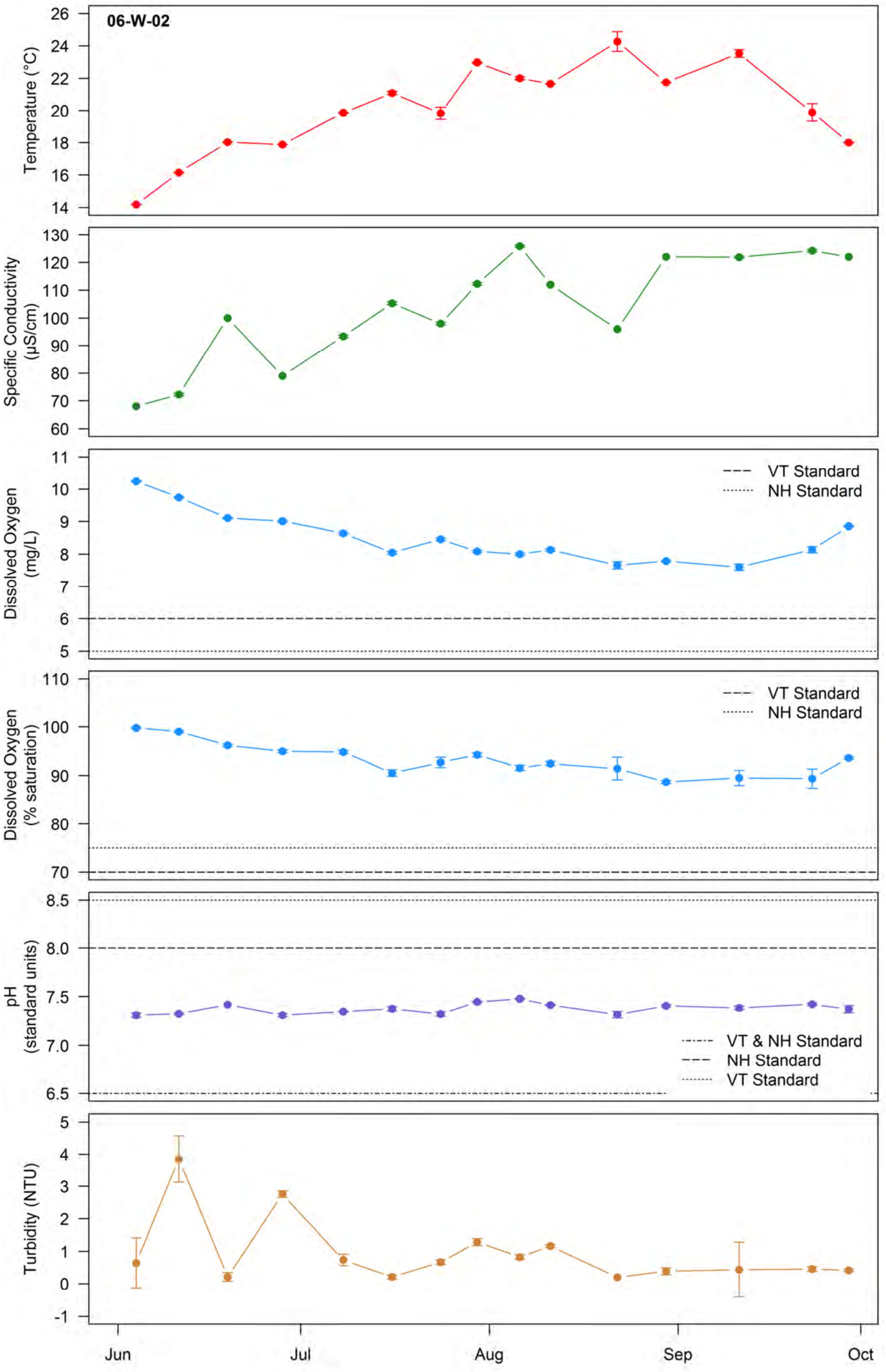

Figure G-3. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-W-02 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

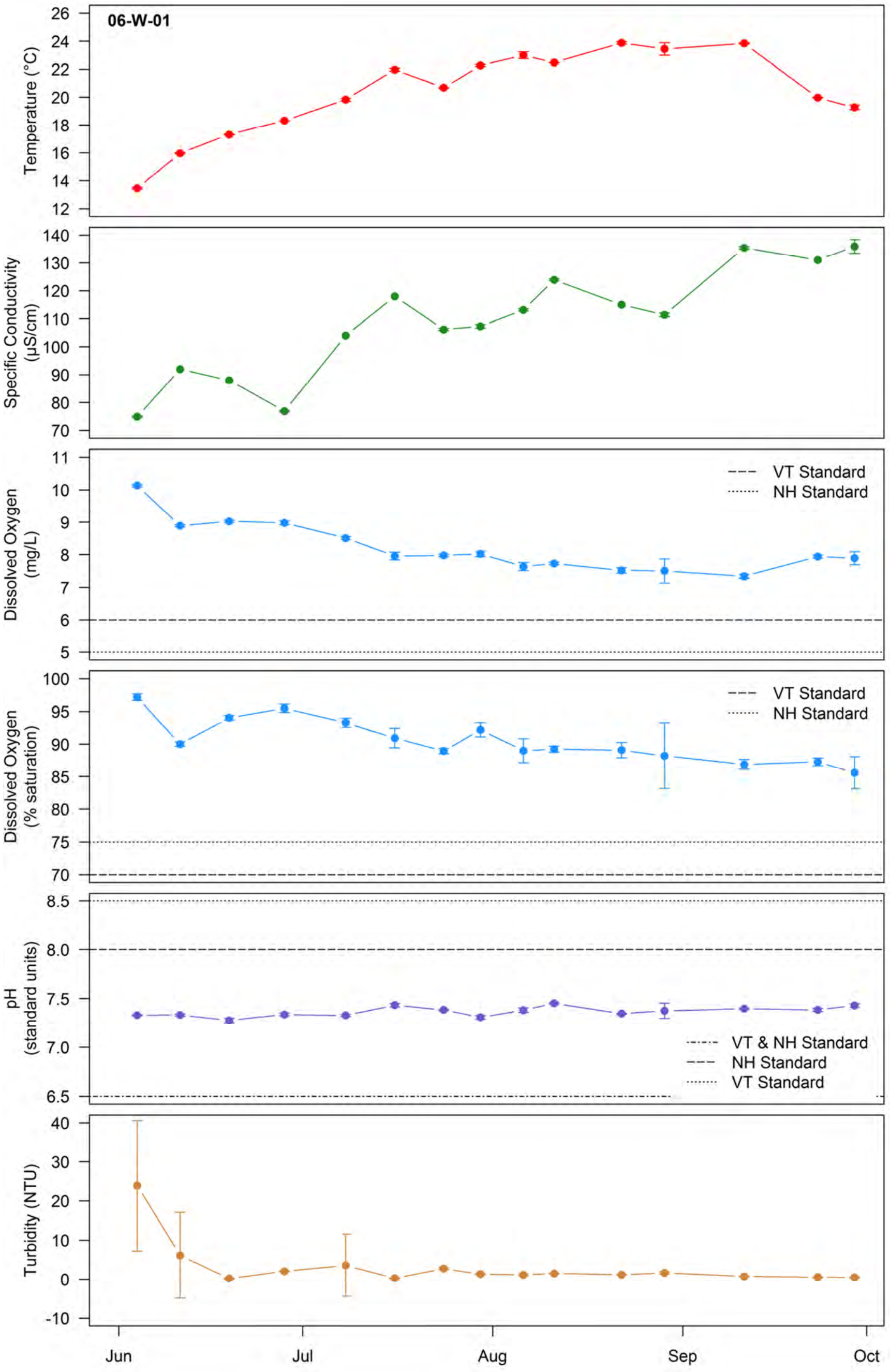

Figure G-4. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at 06-W-01 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

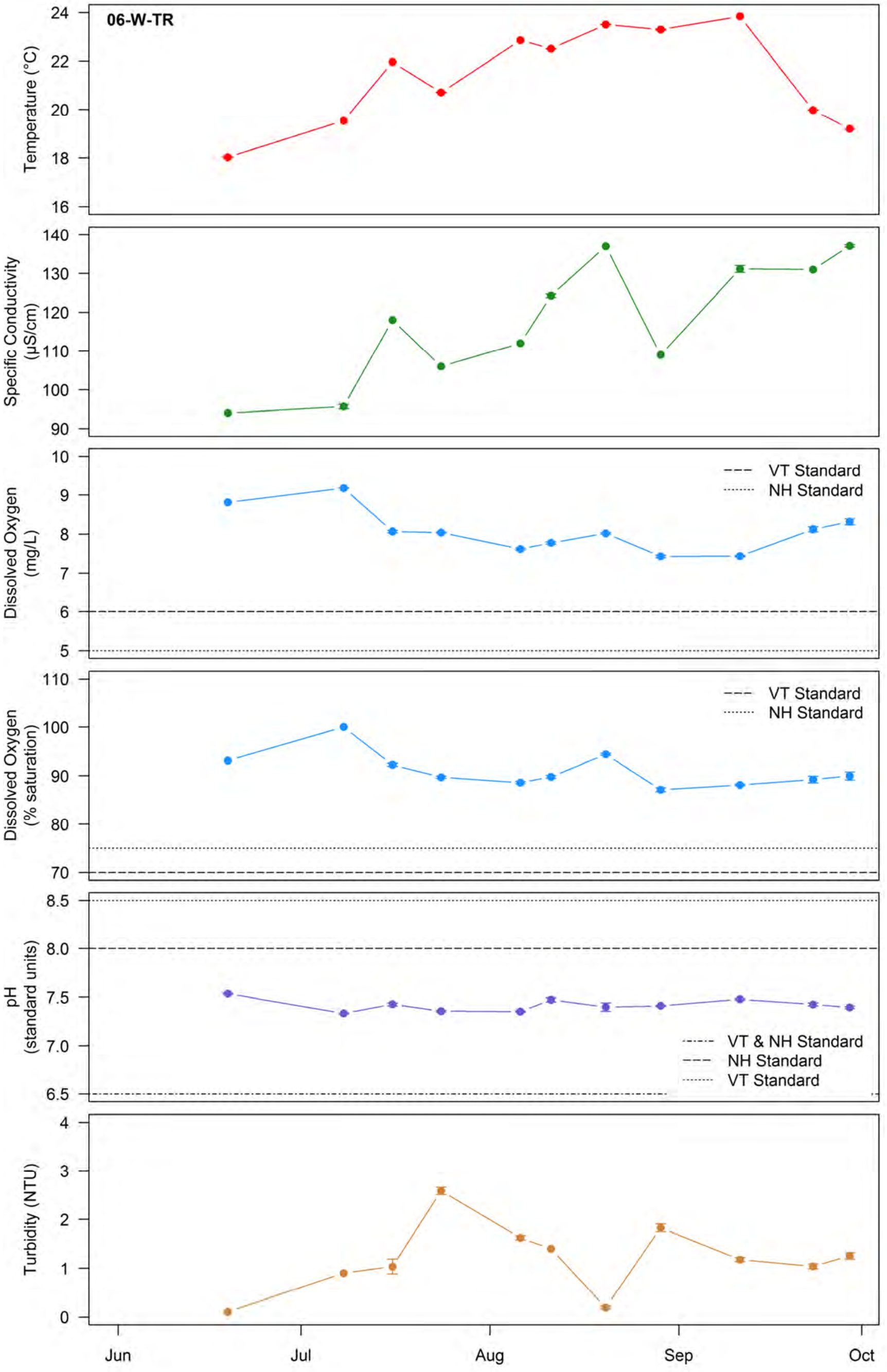

Figure G-5. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at 06-W-TR water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

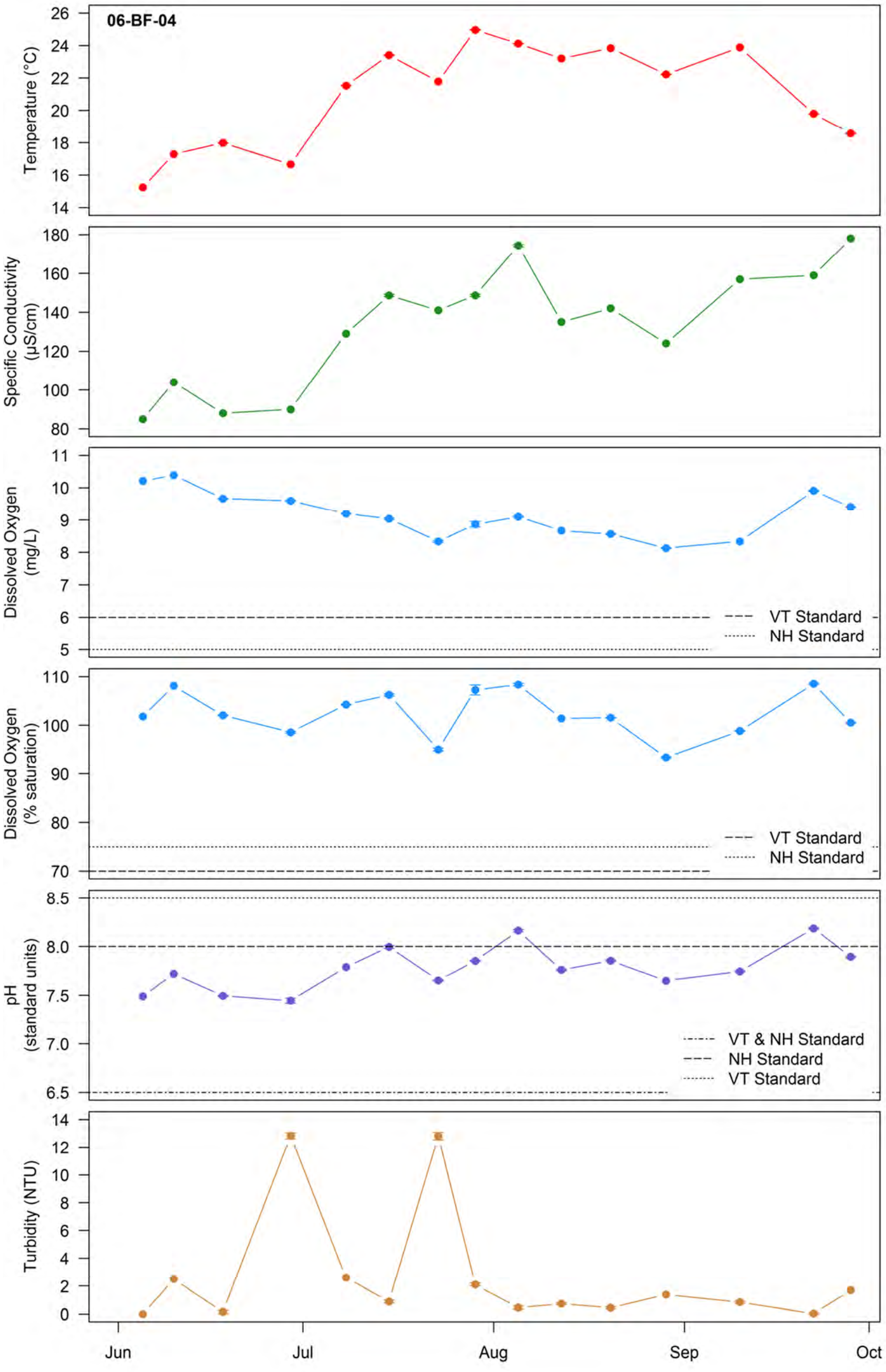

Figure G-6. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-BF-04 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

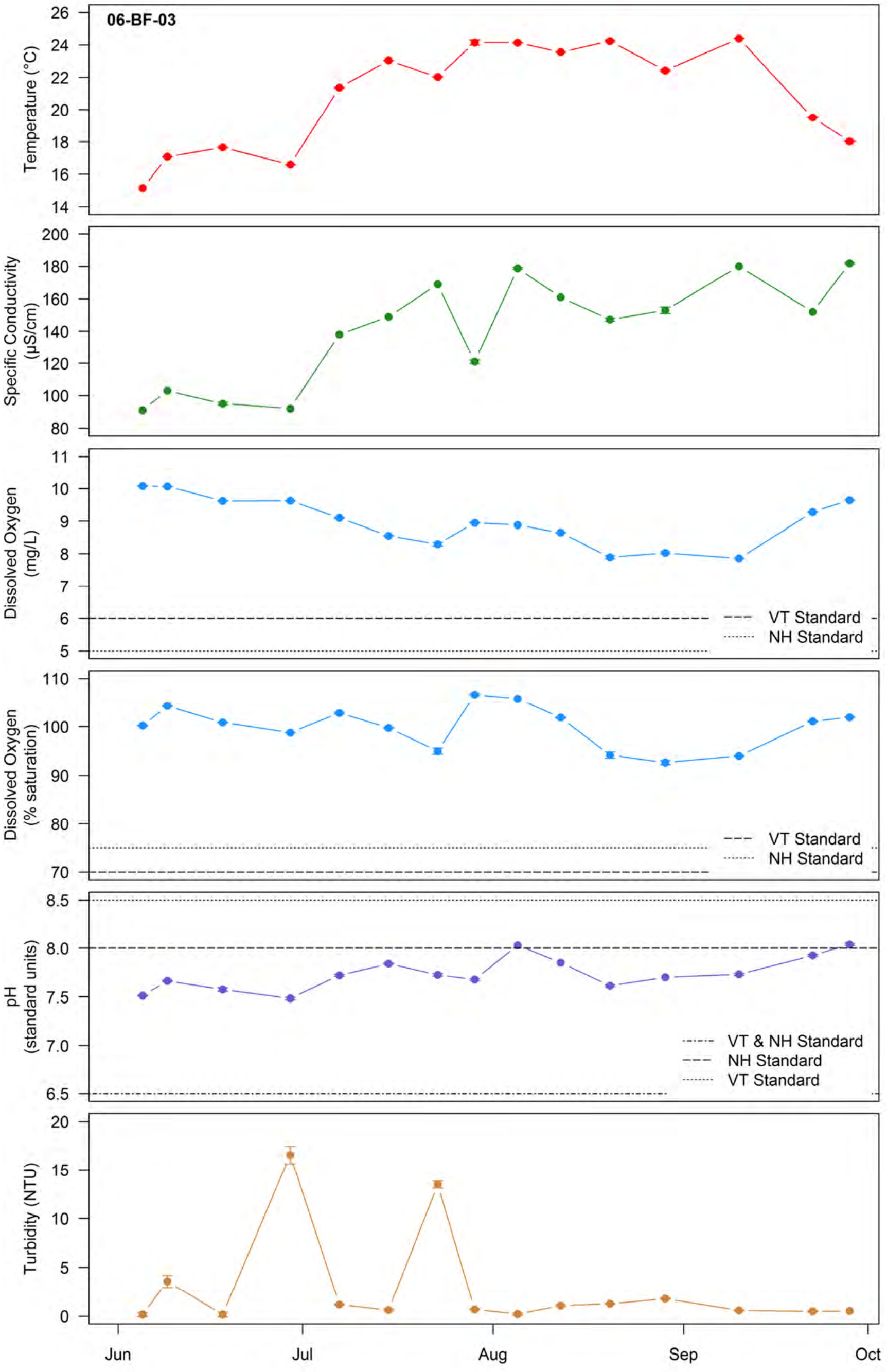

Figure G-7. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-BF-03 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

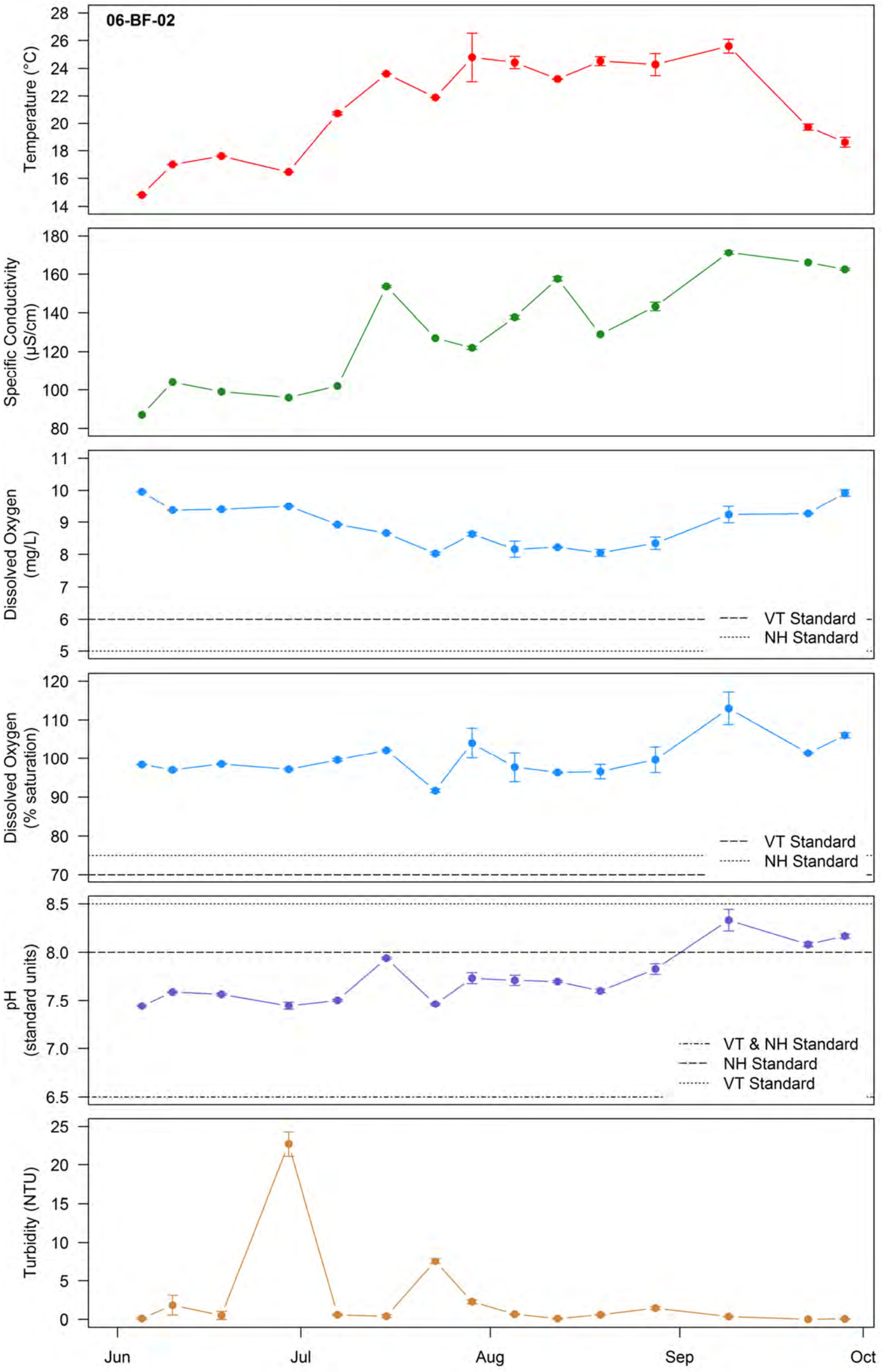

Figure G-8. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-BF-02 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

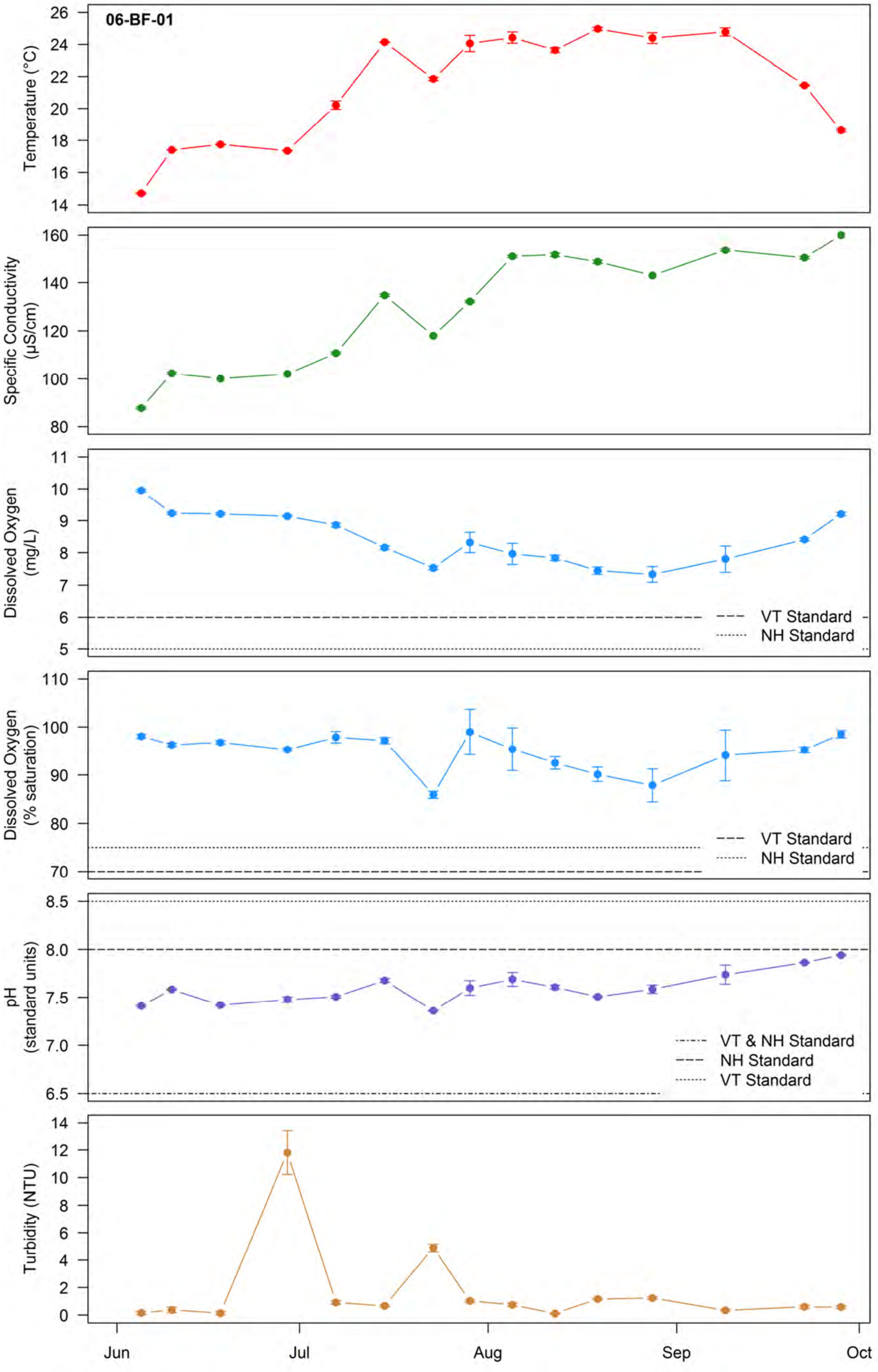

Figure G-9. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-BF-01 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

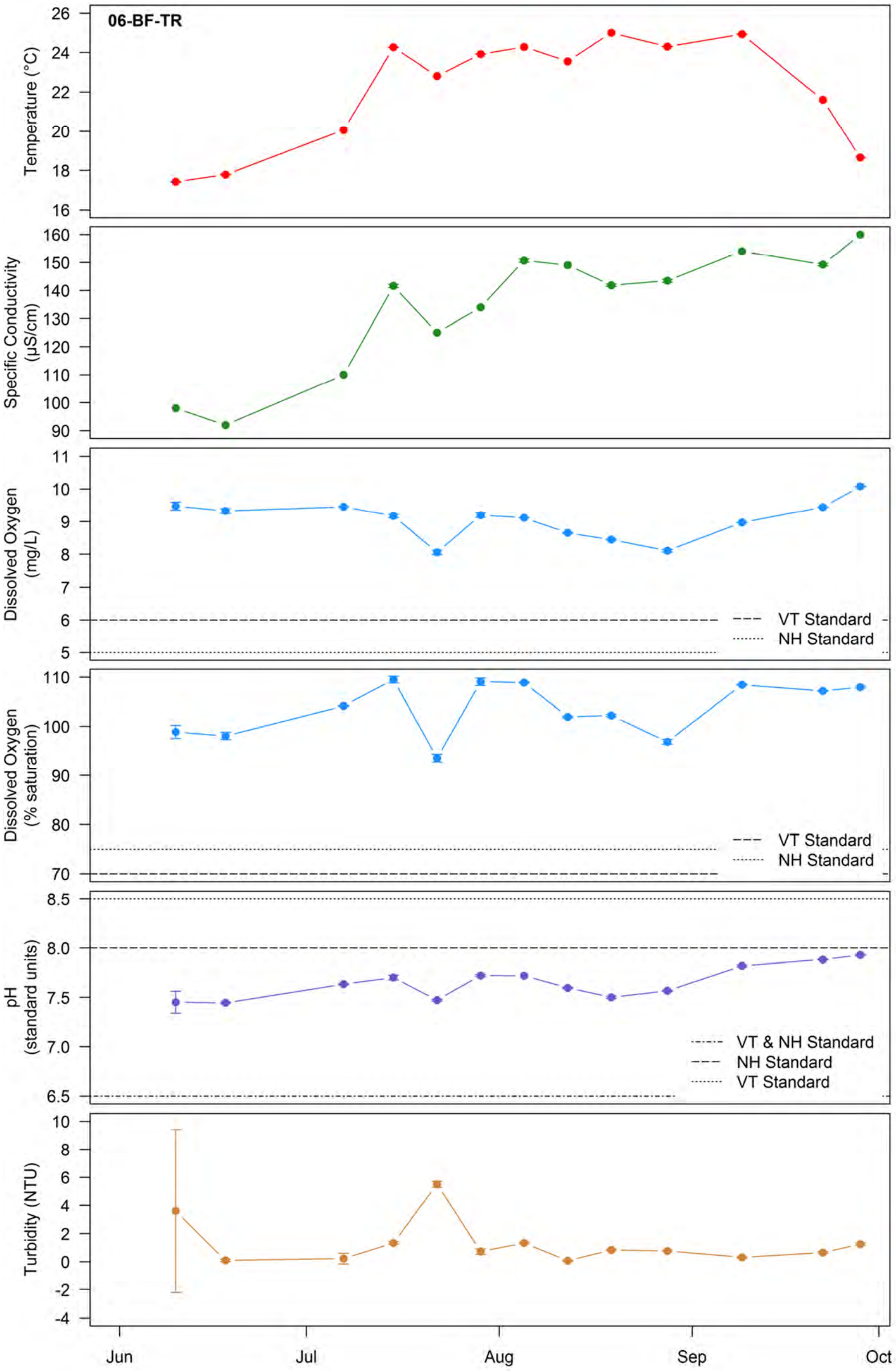

Figure G-10. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-BF-TR water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

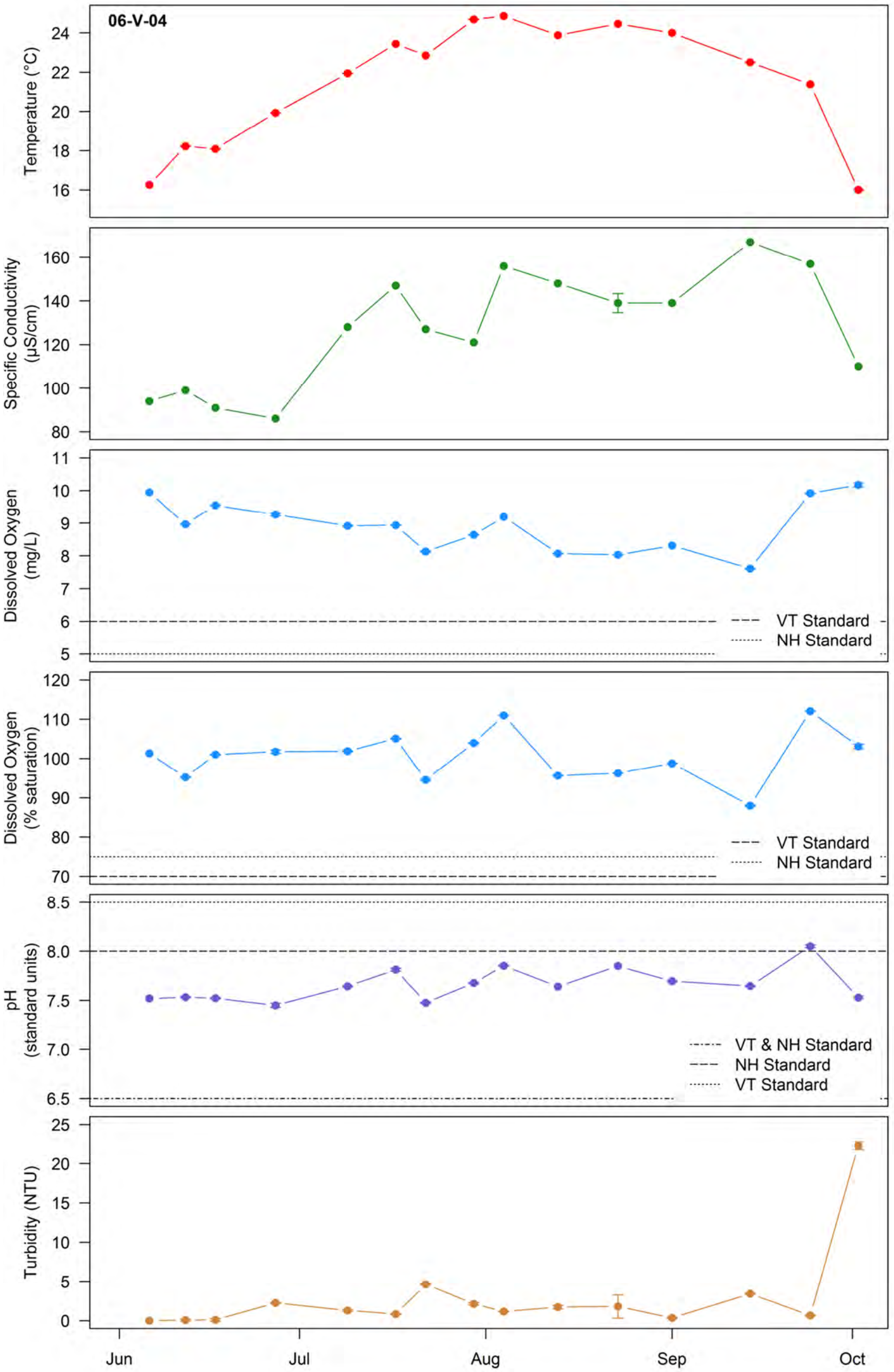

Figure G-11. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-V-04 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

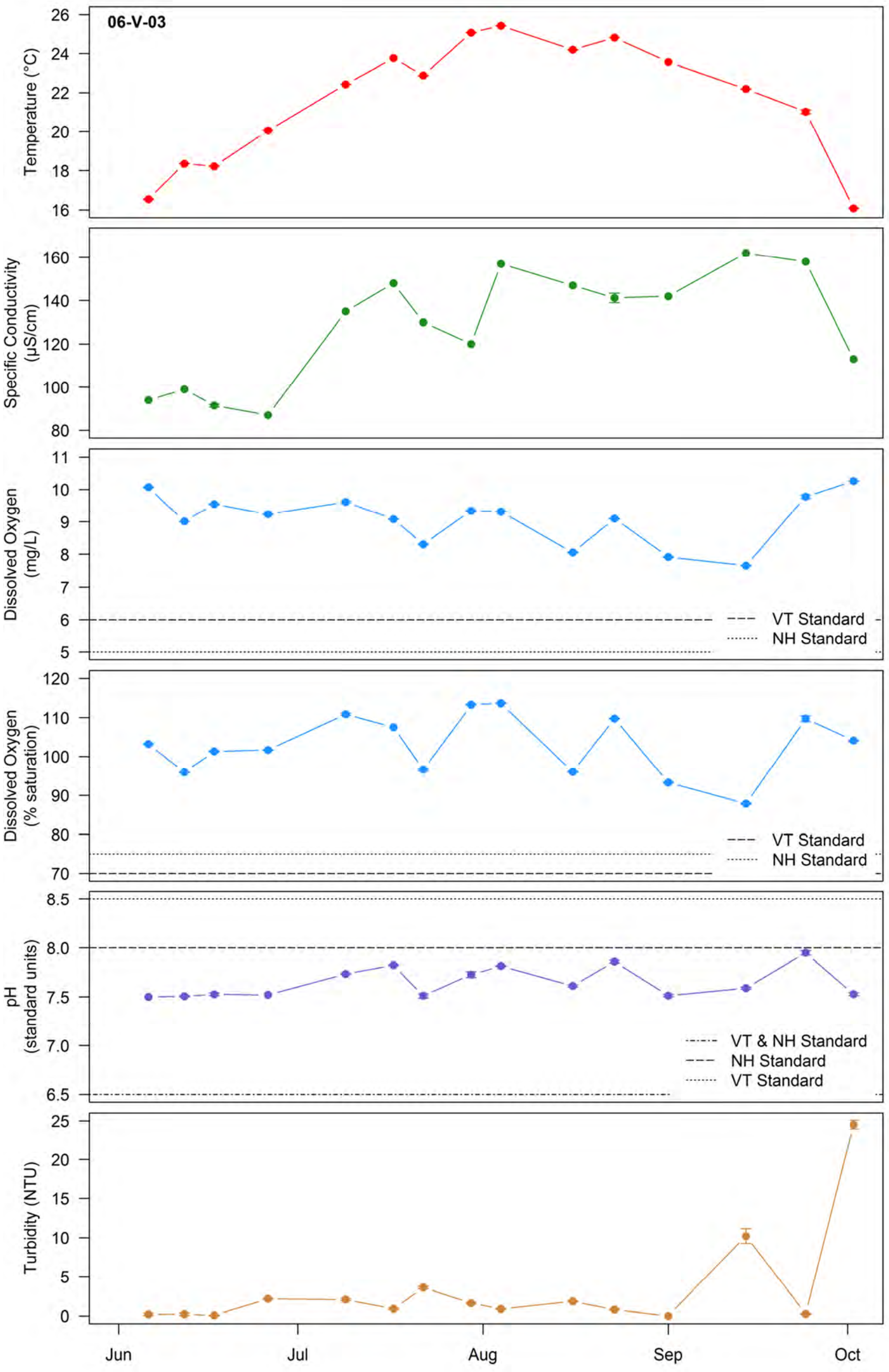

Figure G-12. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-V-03 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

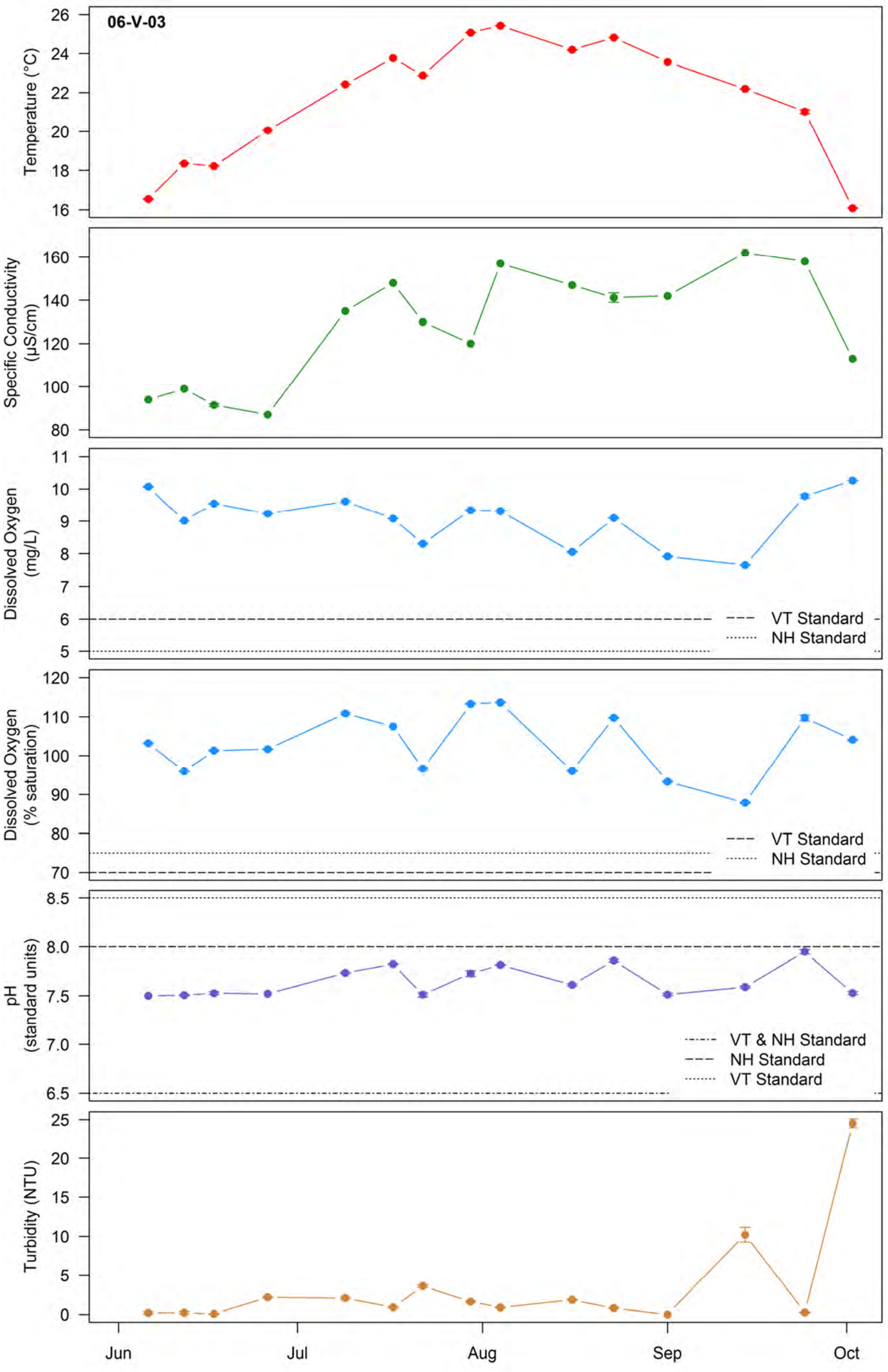

Figure G-13. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-V-02 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

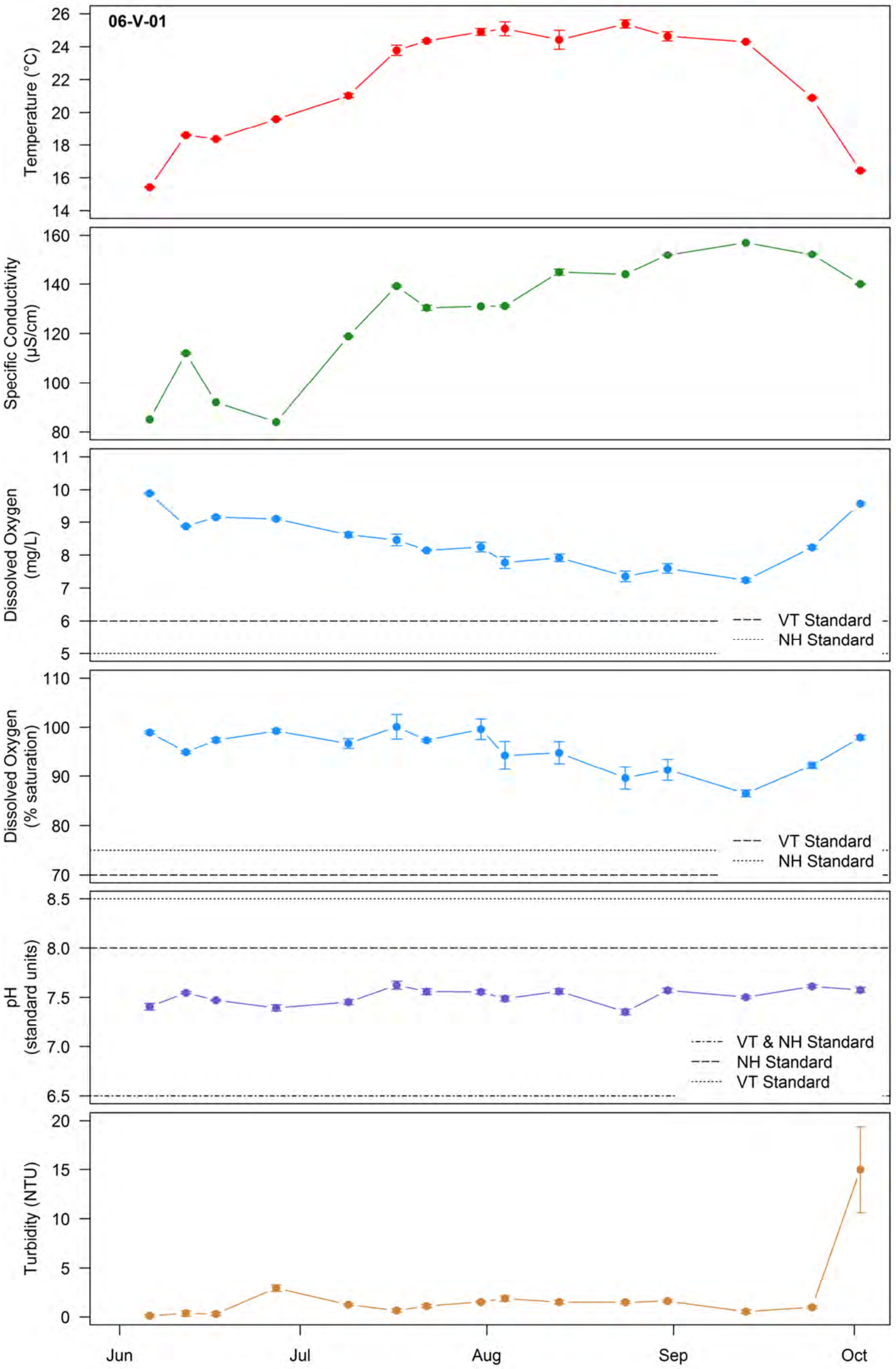

Figure G-14. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-V-01 water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

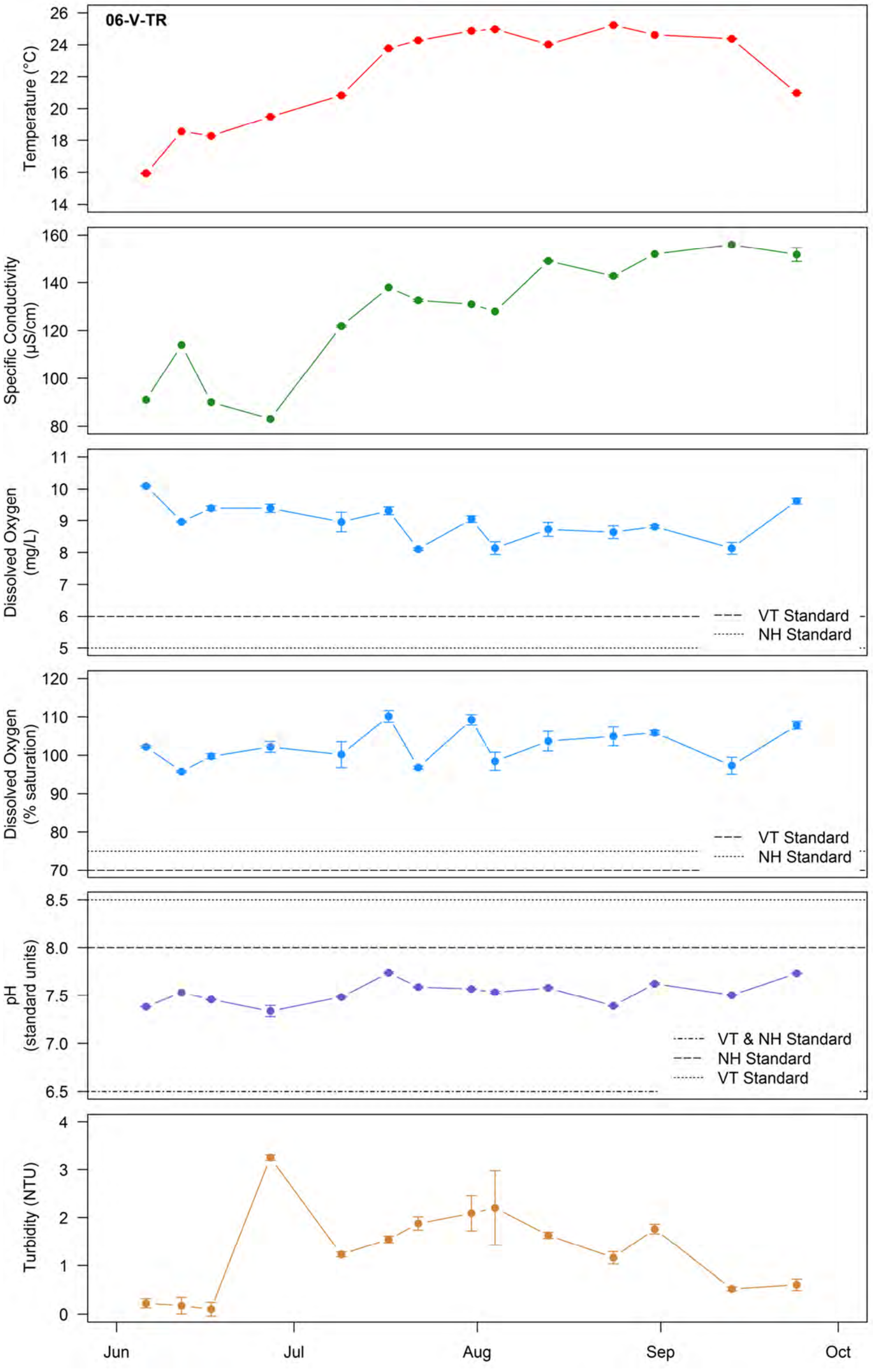

Figure G-15. Mean (dots) ± 1 standard deviation (whiskers) of water quality vertical profiles collected at the 06-V-TR water quality monitoring station. Points without whiskers indicate a standard deviation of zero.

[this page intentionally left blank]

APPENDIX H

2015 Water Quality Vertical Profiles

Note: The surface elevation (0.0) point on the following vertical profile graphs is a relative elevation based on the actual water surface elevation at the time of each profile sample. For forebay station vertical profiles specifically, this precludes locating a static depth of the turbine intakes. Intake specifications for each project are provided below.

Wilder Intakes: Upper intake elevations (top of trash racks) are approximately 9.1 m (30 ft) below the licensed maximum impoundment level, and approximately 7.5 m (25 ft) below the licensed minimum impoundment level. Intake racks for Units 1 and 2 are 9.5 m (31 ft) in height and 9.1 m (30 ft) in height for Unit 3.

Bellows Falls Intakes: Upper intake elevations (top of trash racks) are approximately at the water surface the licensed maximum impoundment level, and approximately 1 m (3 ft) above the water surface at the licensed minimum impoundment level. Intake racks are approximately 14 m (45.8 ft) in height.

Vernon Intakes: Upper intake elevations (top of trash racks) are approximately 1.5 m (5 ft) below the licensed maximum pond level, and approximately 1 m (3 ft) above the water surface at the licensed minimum impoundment level. Intake racks are approximately 6.4 m (21 ft) in height.

[This page intentionally left blank.]

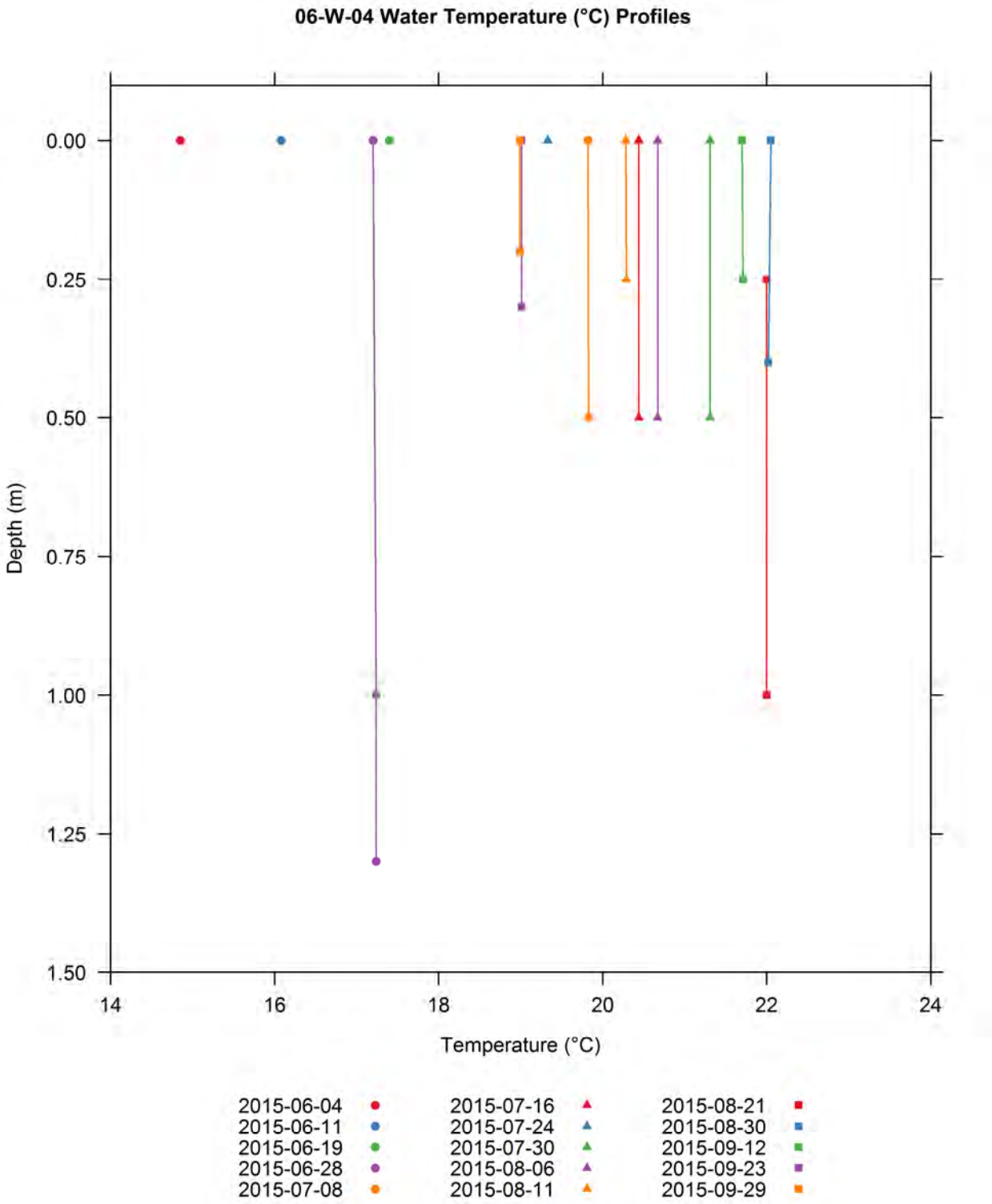

Figure H-1. Vertical profiles of water temperature (°C) collected at the Wilder upstream 06-W-04 water quality monitoring station.

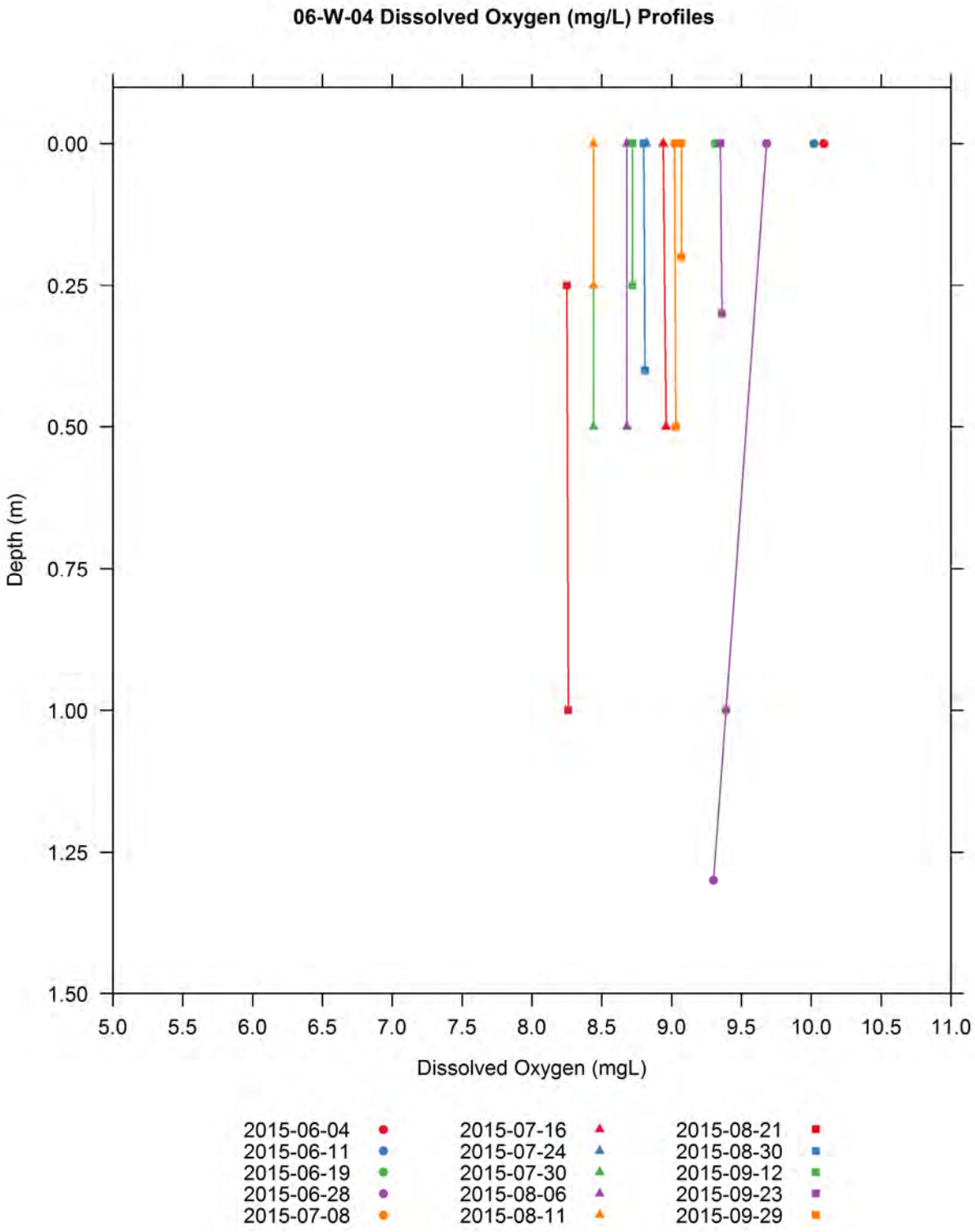

Figure H-2. Vertical profiles of dissolved oxygen (mg/L) collected at the Wilder upstream 06-W-04 water quality monitoring station.

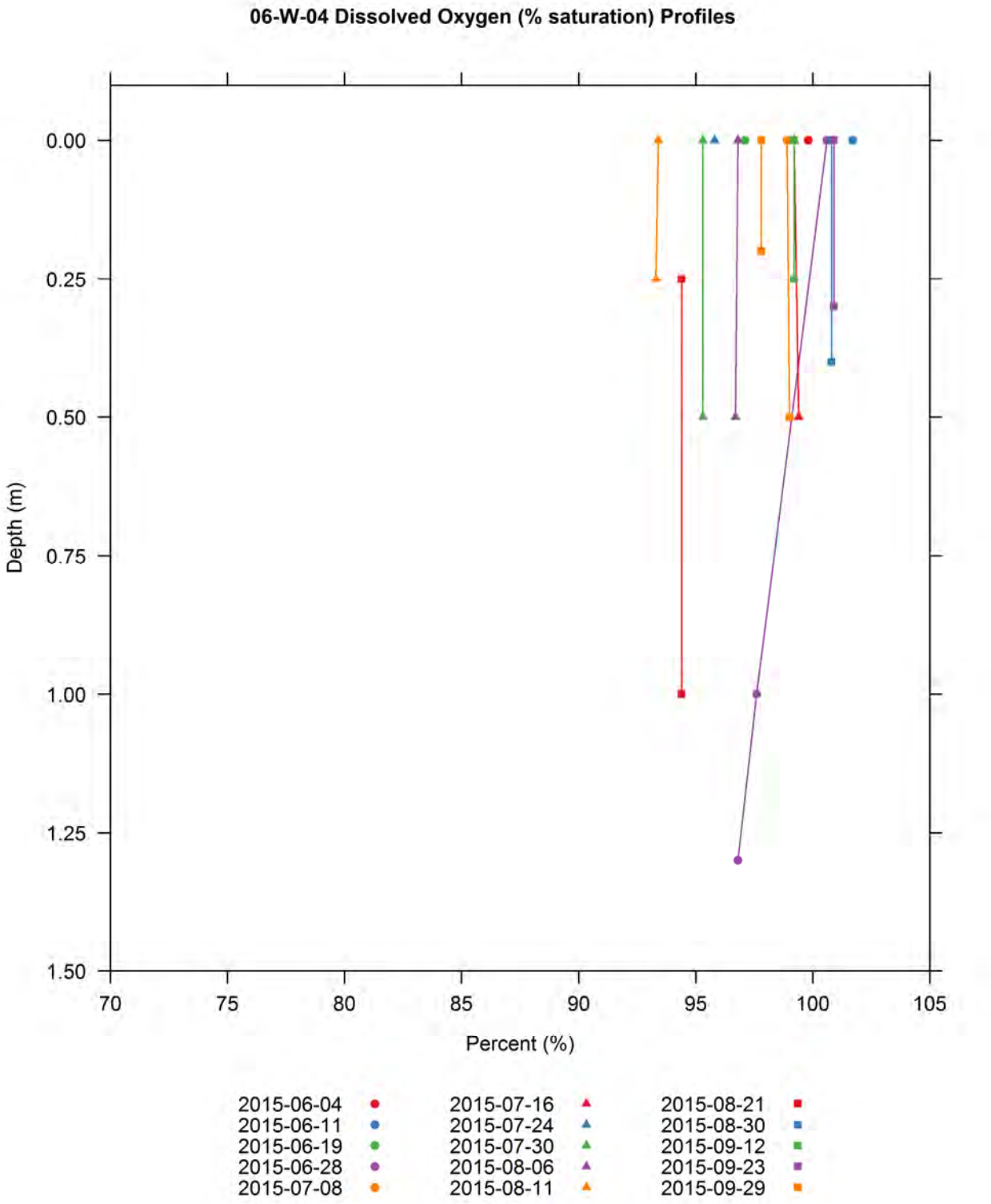

Figure H-3. Vertical profiles of dissolved oxygen (% saturation) collected at the Wilder upstream 06-W-04 water quality monitoring station.

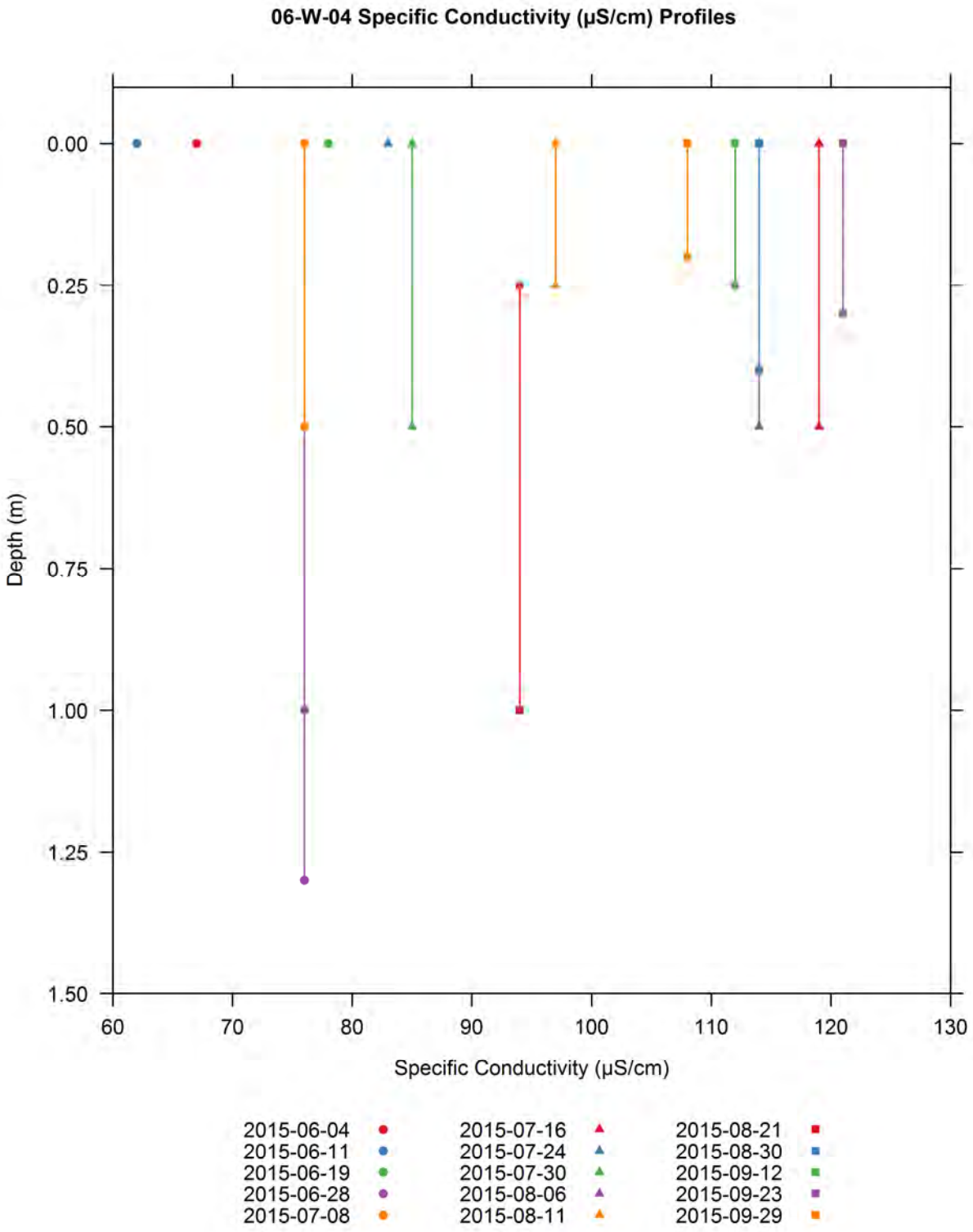

Figure H-4. Vertical profiles of specific conductivity (µS/cm) collected at the Wilder upstream 06-W-04 water quality monitoring station.

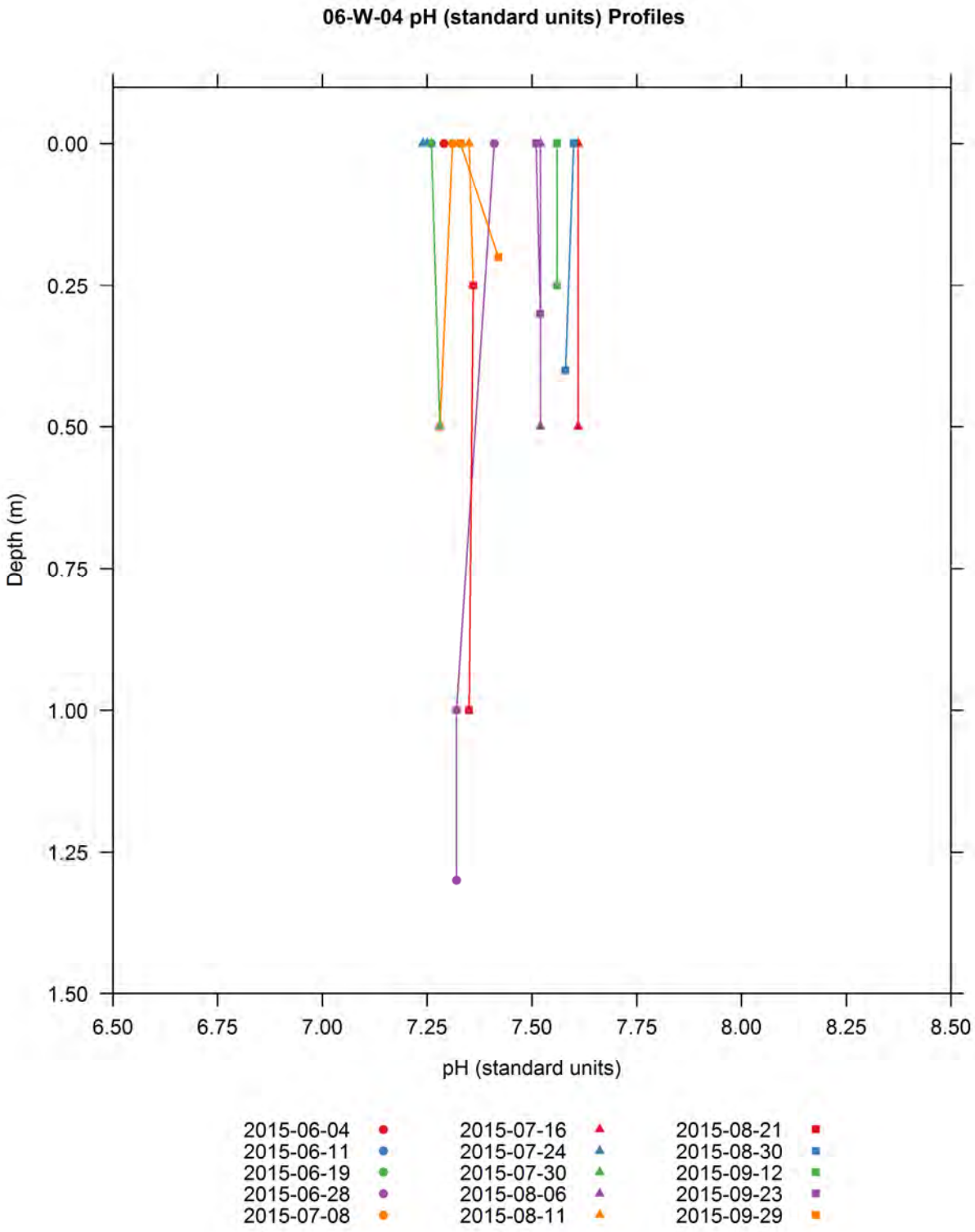

Figure H-5. Vertical profiles of pH (standard units) collected at the Wilder upstream 06-W-04 water quality monitoring station.

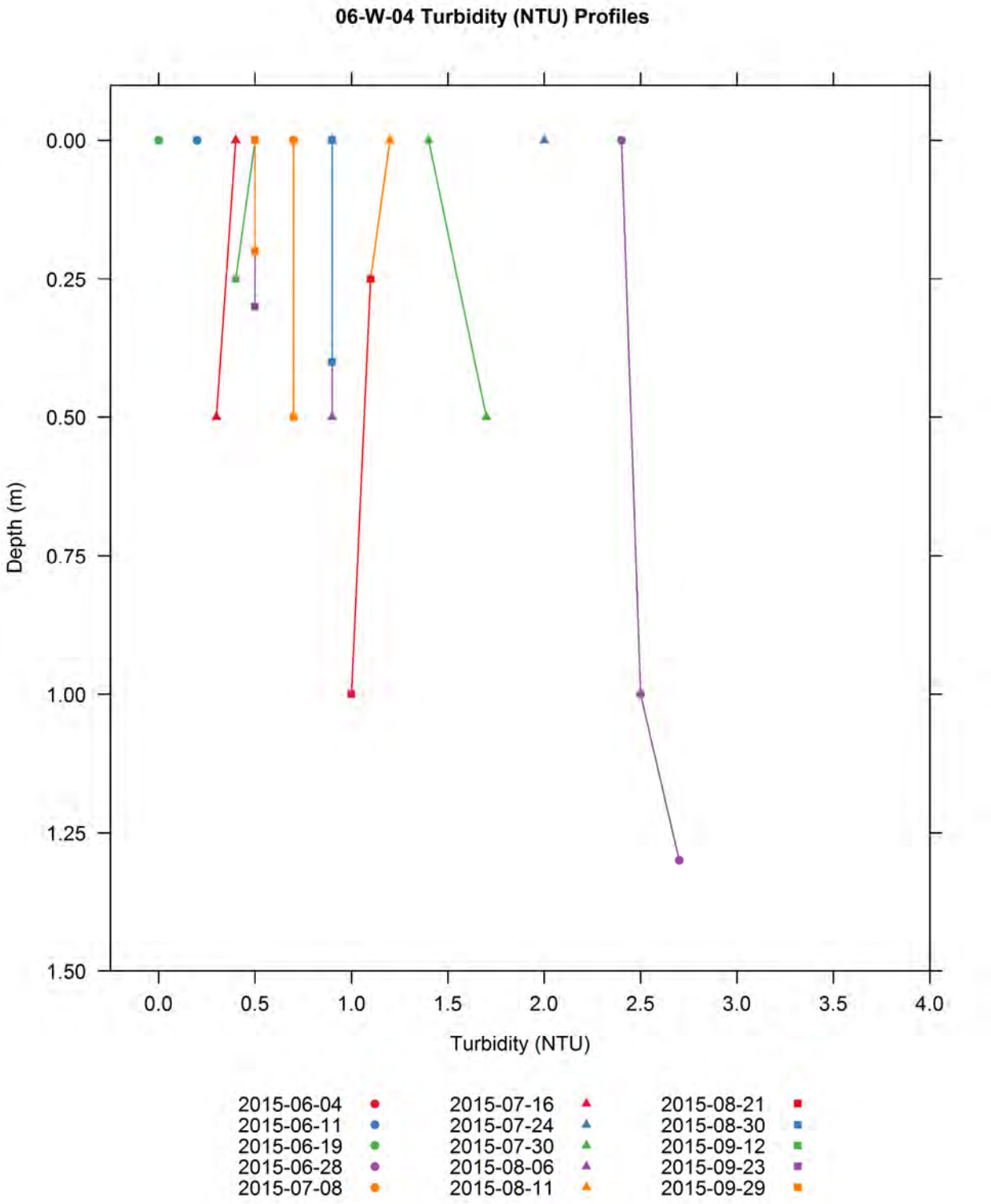

Figure H-6. Vertical profiles of turbidity (NTU) collected at the Wilder upstream 06-W-04 water quality monitoring station.

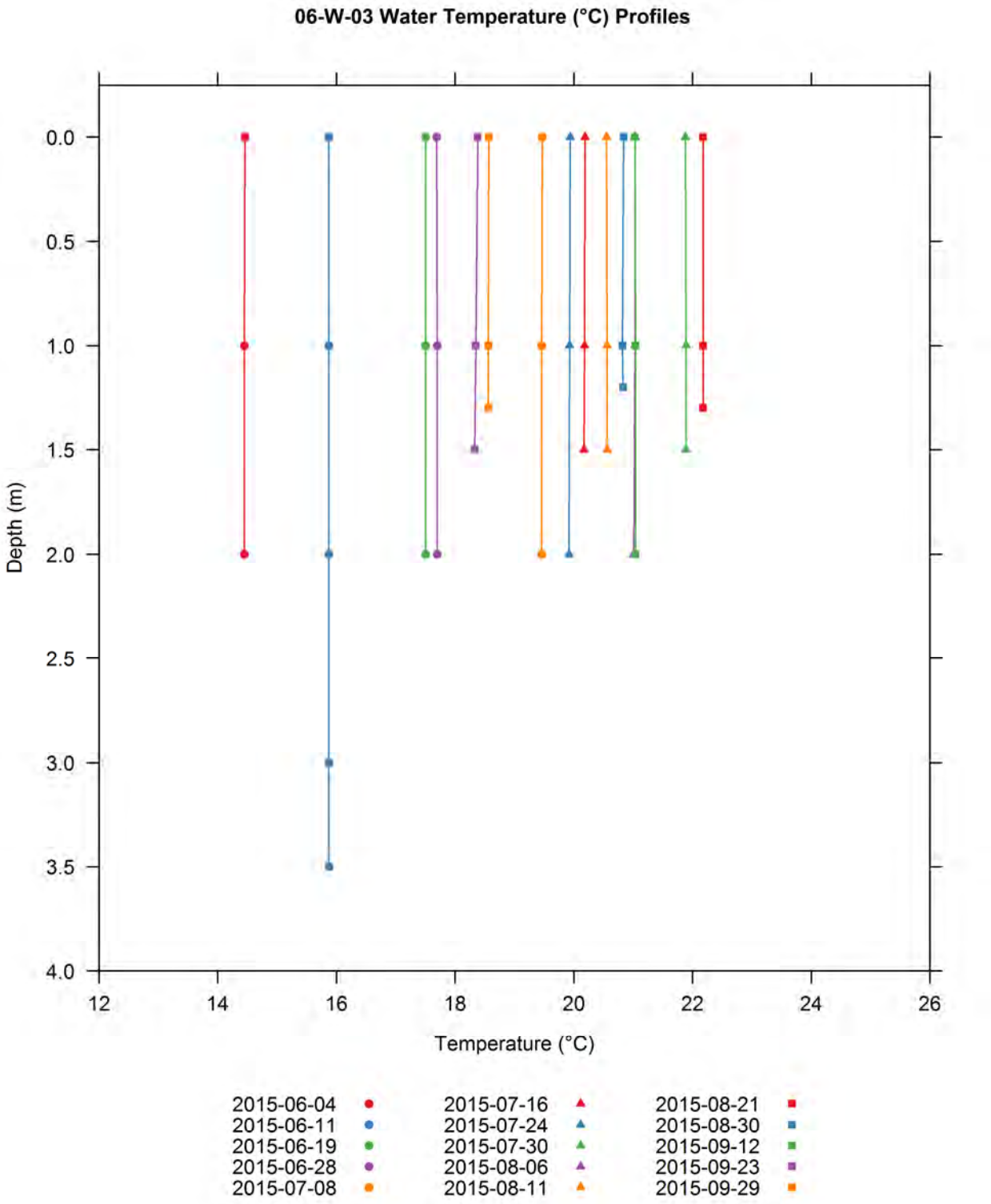

Figure H-7. Vertical profiles of temperature (°C) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

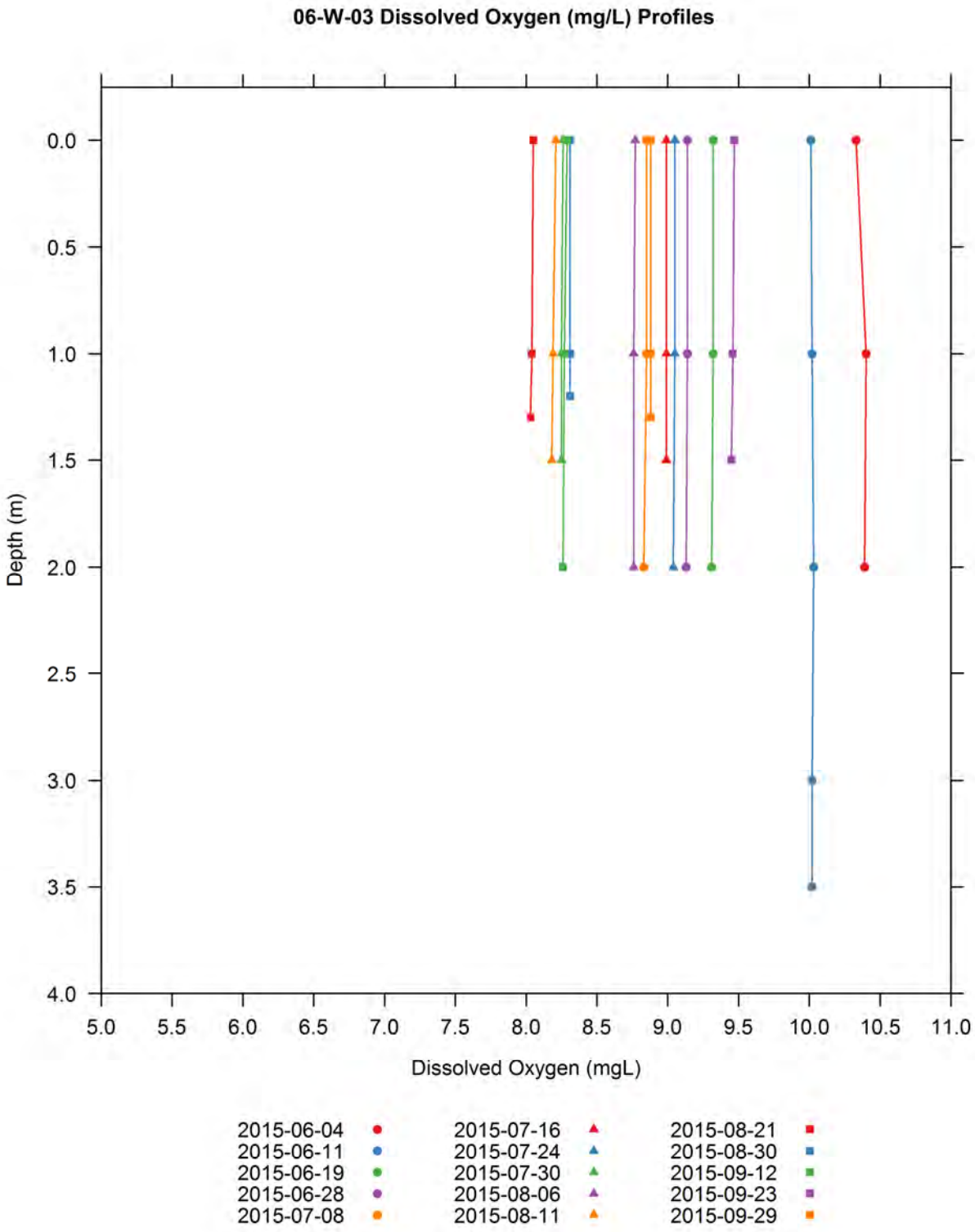

Figure H-8. Vertical profiles of dissolved oxygen (mg/L) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

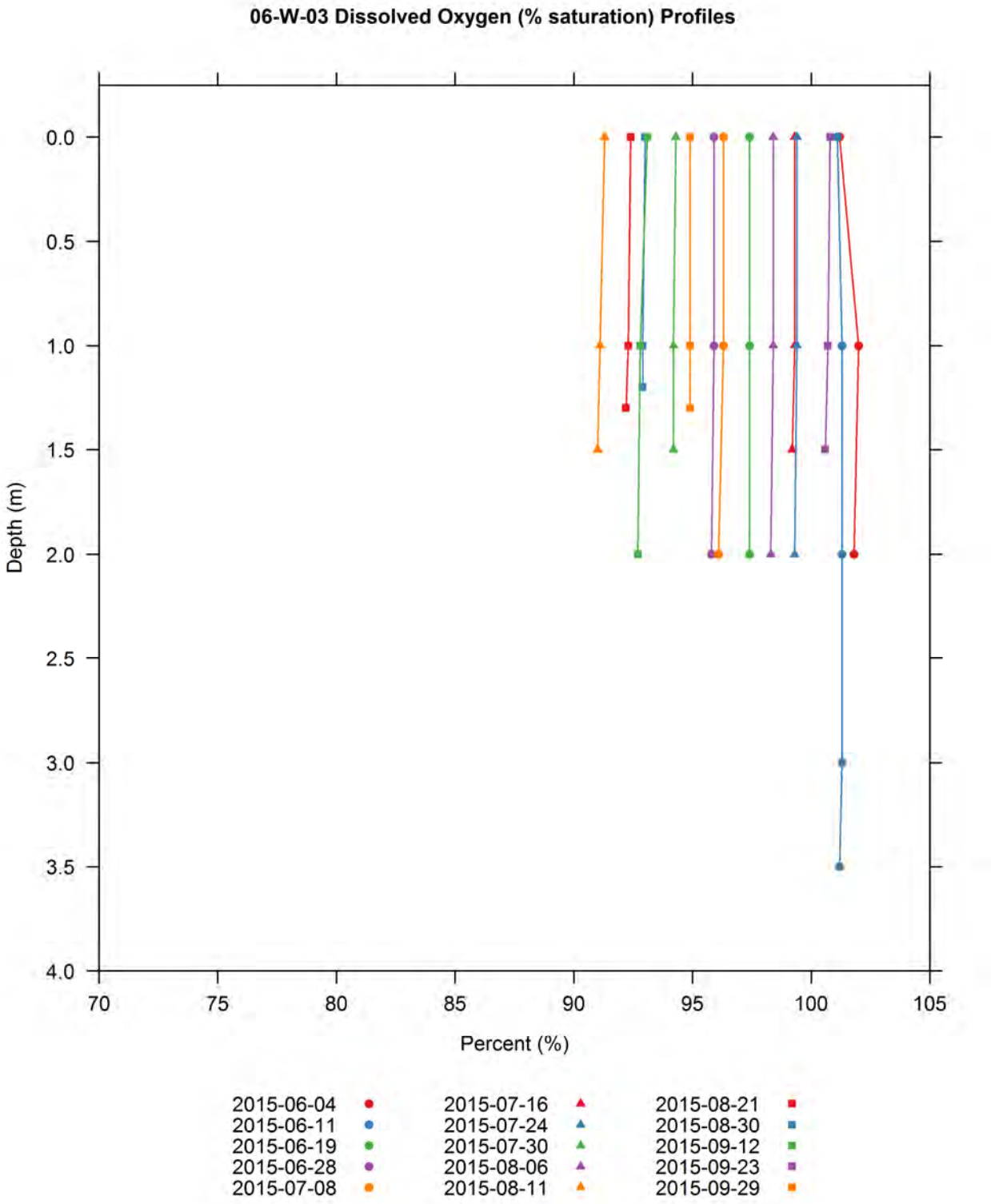

Figure H-9. Vertical profiles of dissolved oxygen (percent saturation) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

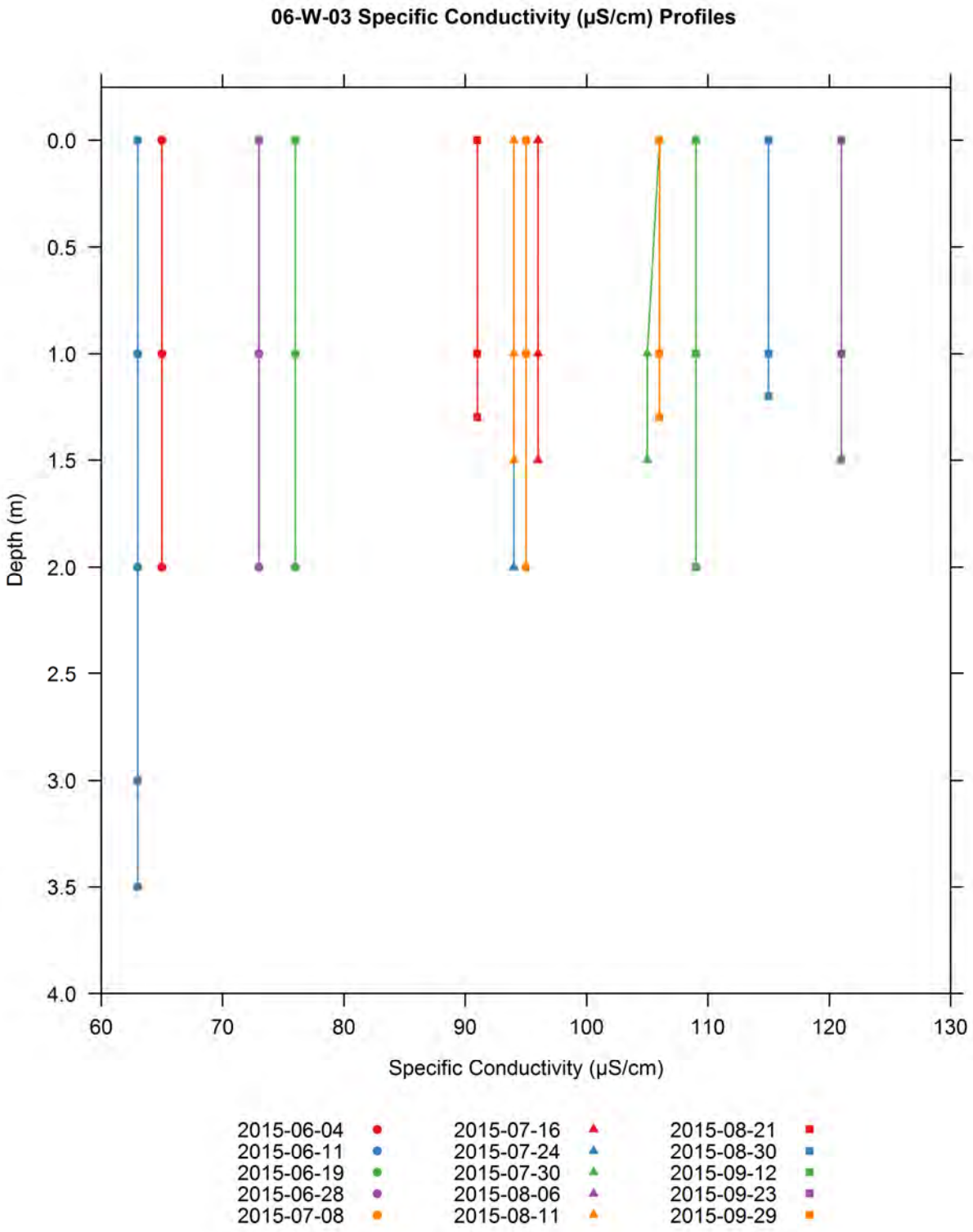

Figure H-10. Vertical profiles of specific conductivity (µS/cm) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

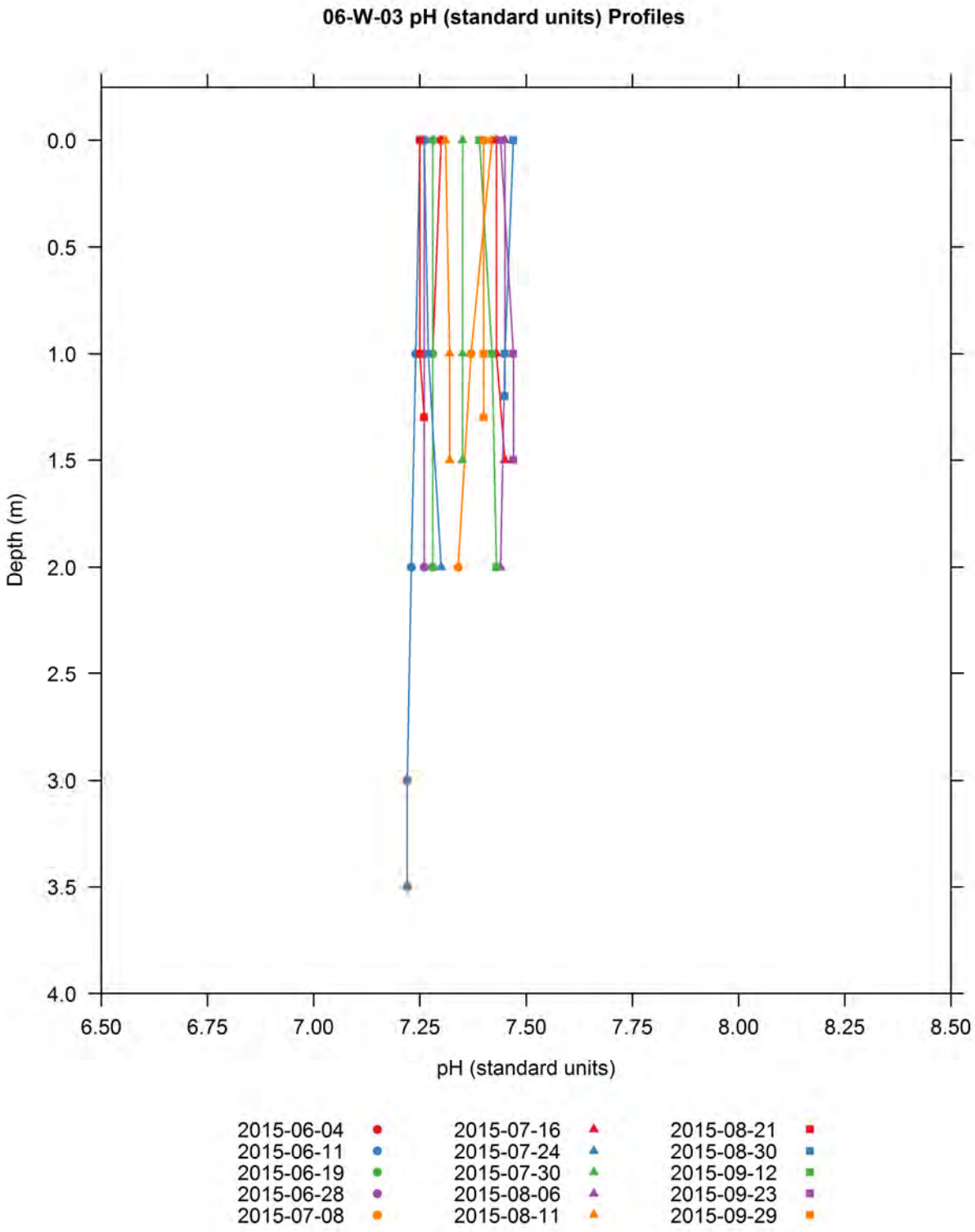

Figure H-11. Vertical profiles of pH (standard units) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

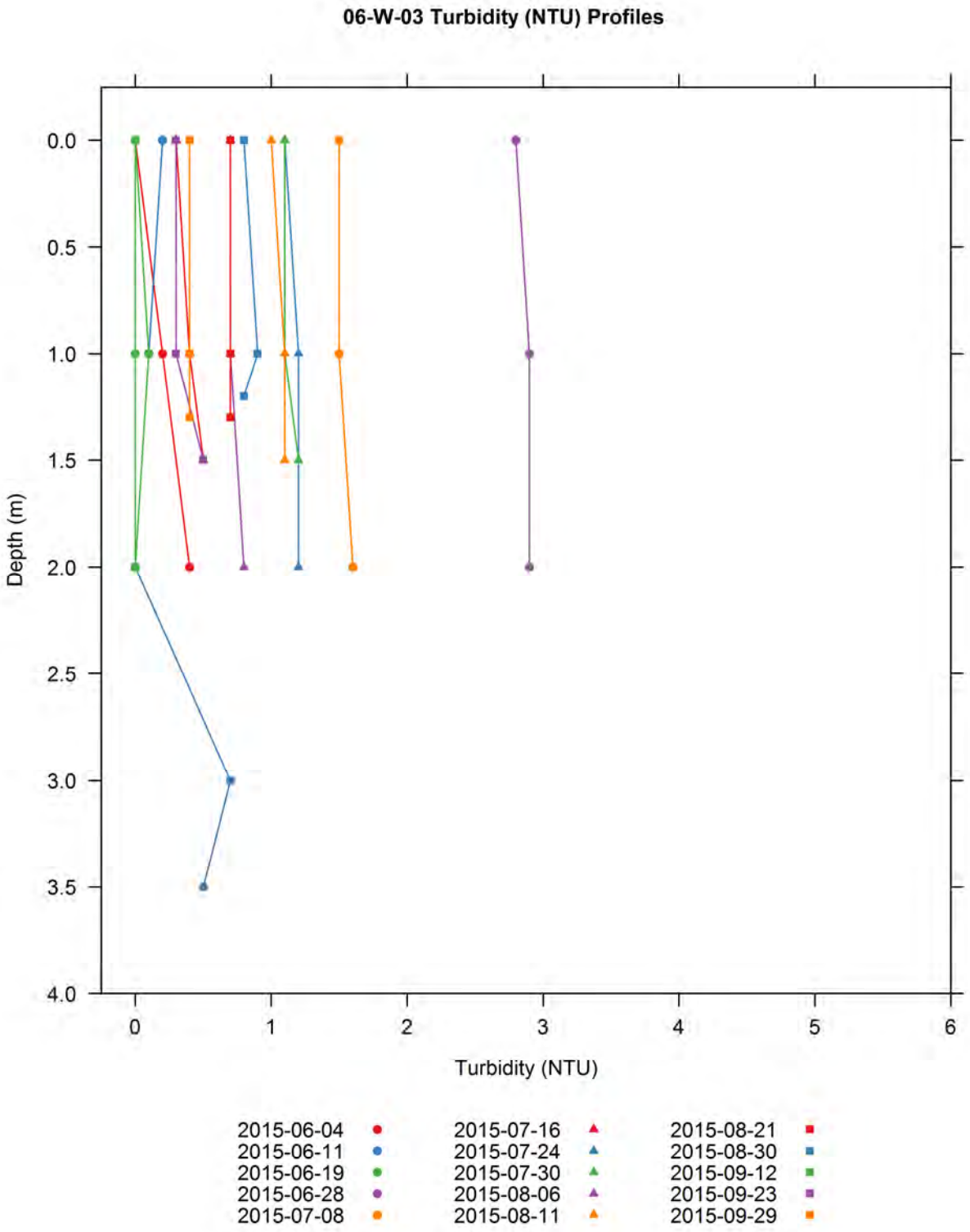

Figure H-12. Vertical profiles of turbidity (NTU) collected at the Wilder upper impoundment 06-W-03 water quality monitoring station.

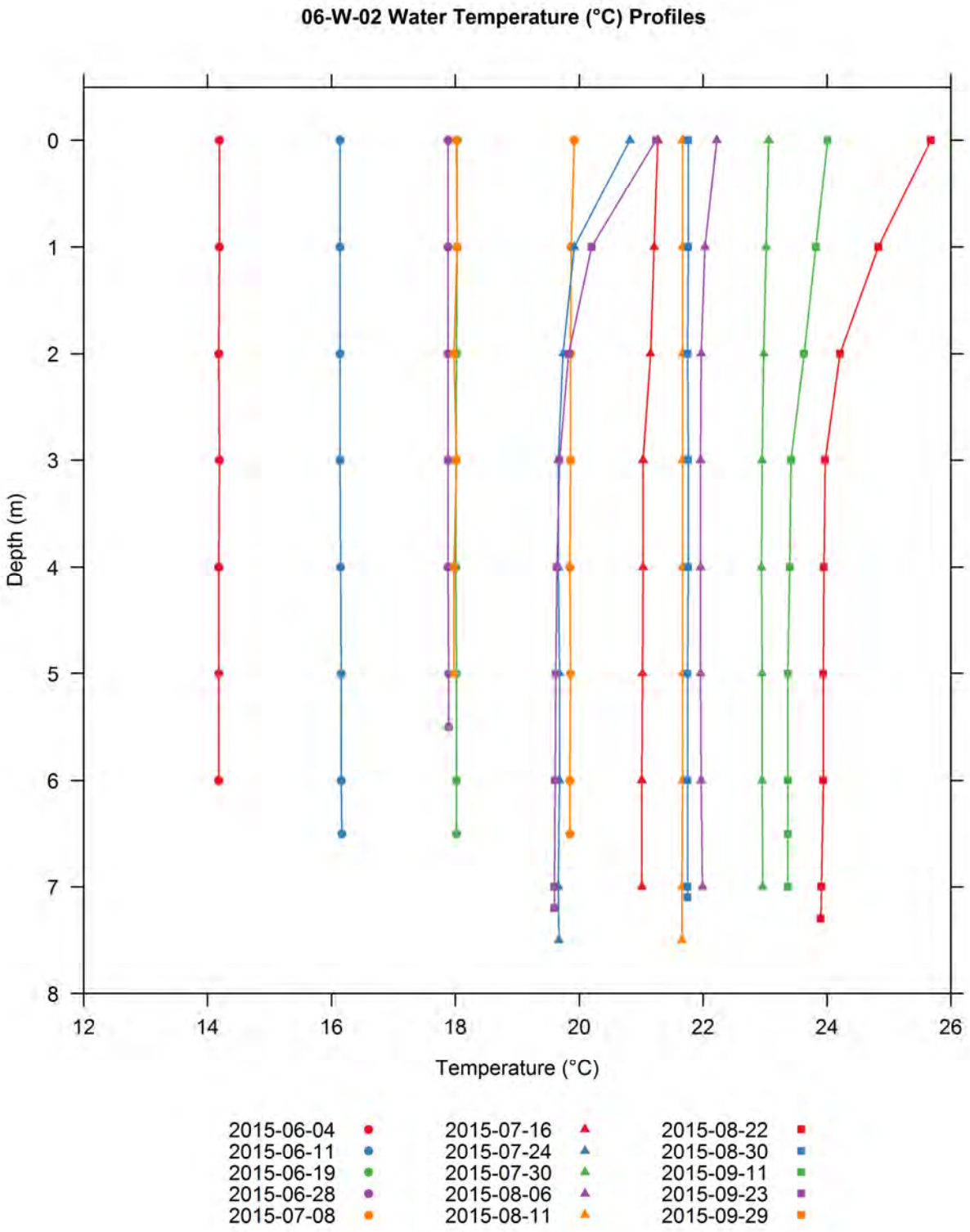

Figure H-13. Vertical profiles of temperature (°C) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

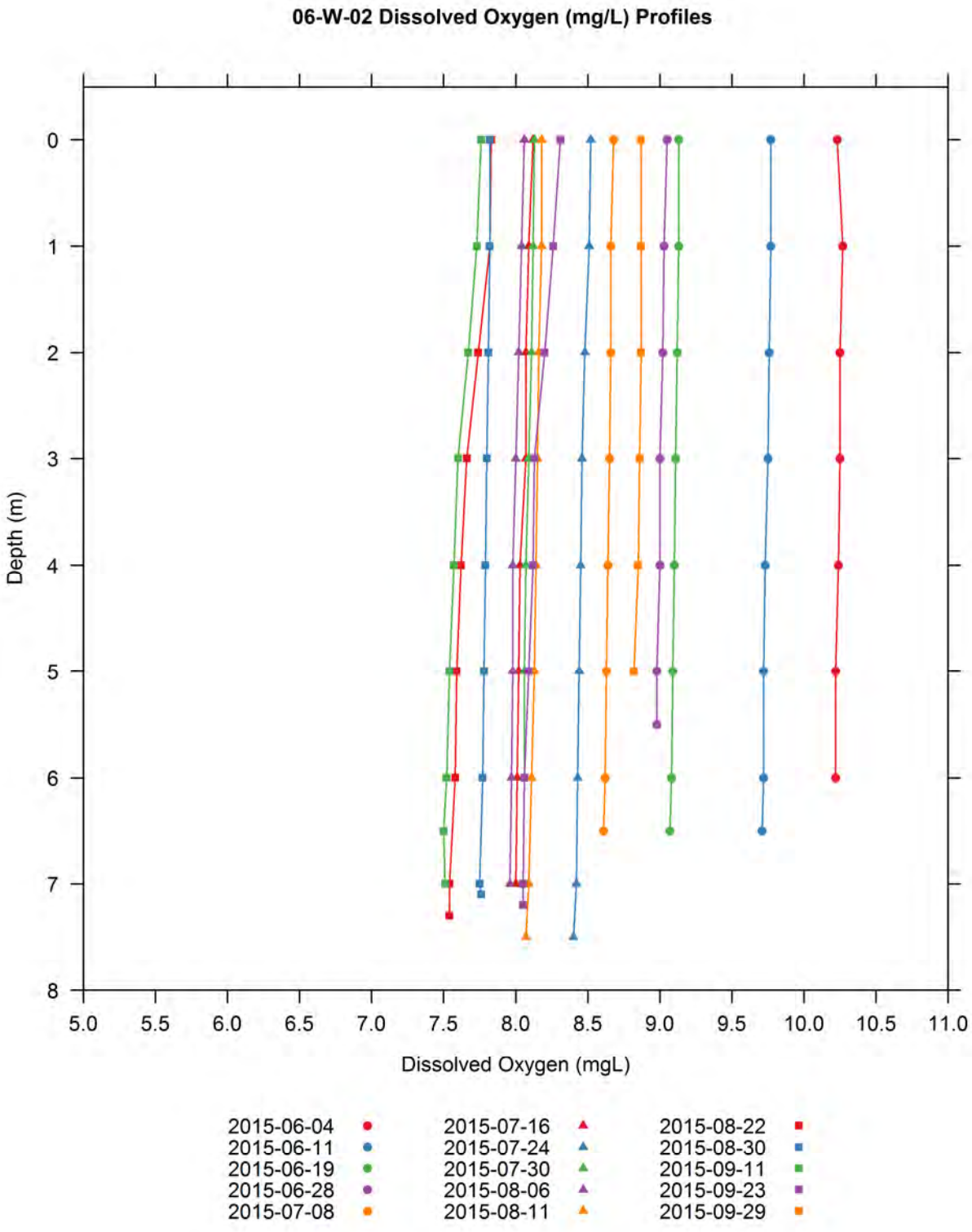

Figure H-14. Vertical profiles of dissolved oxygen (mg/L) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

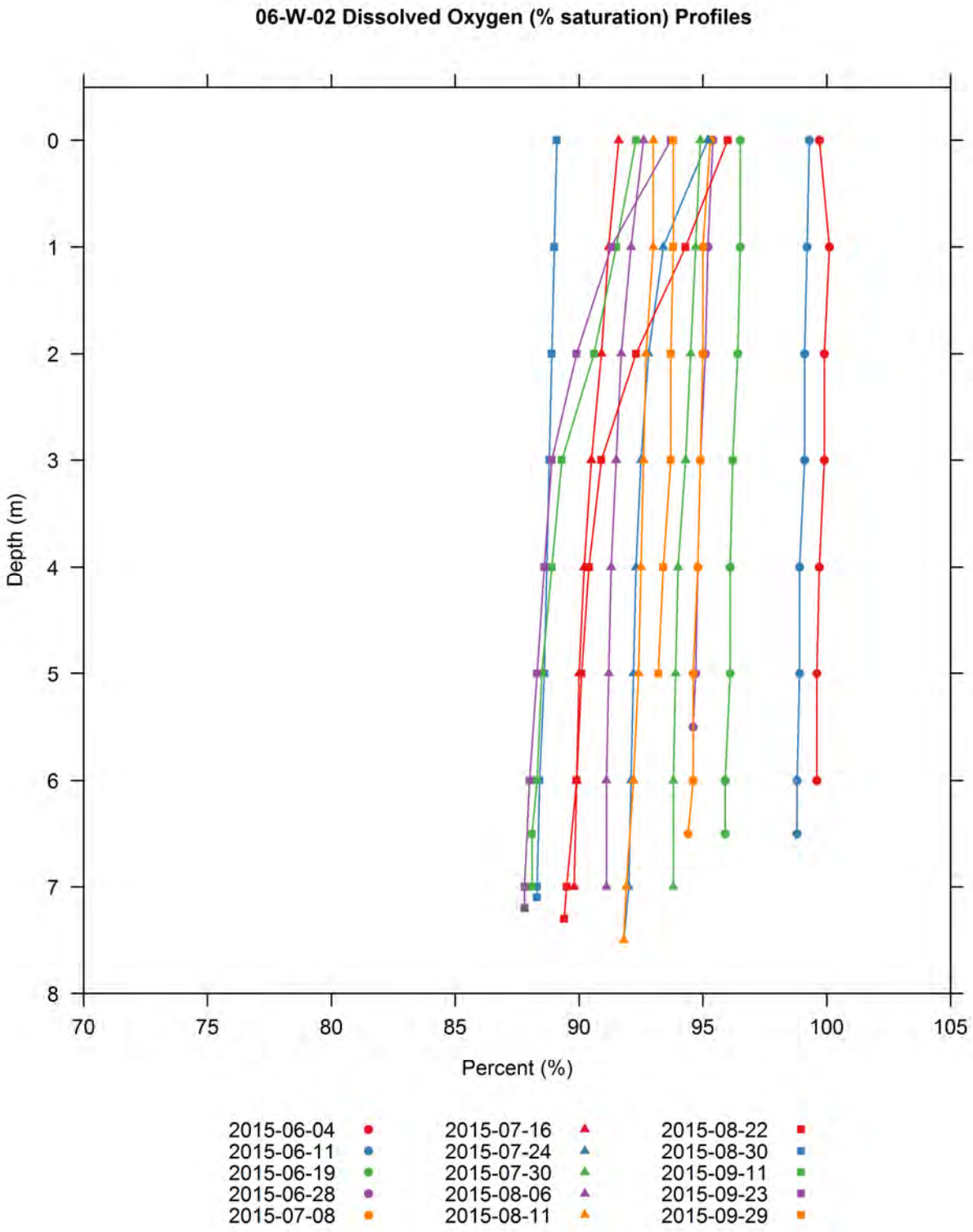

Figure H-15. Vertical profiles of dissolved oxygen (percent saturation) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

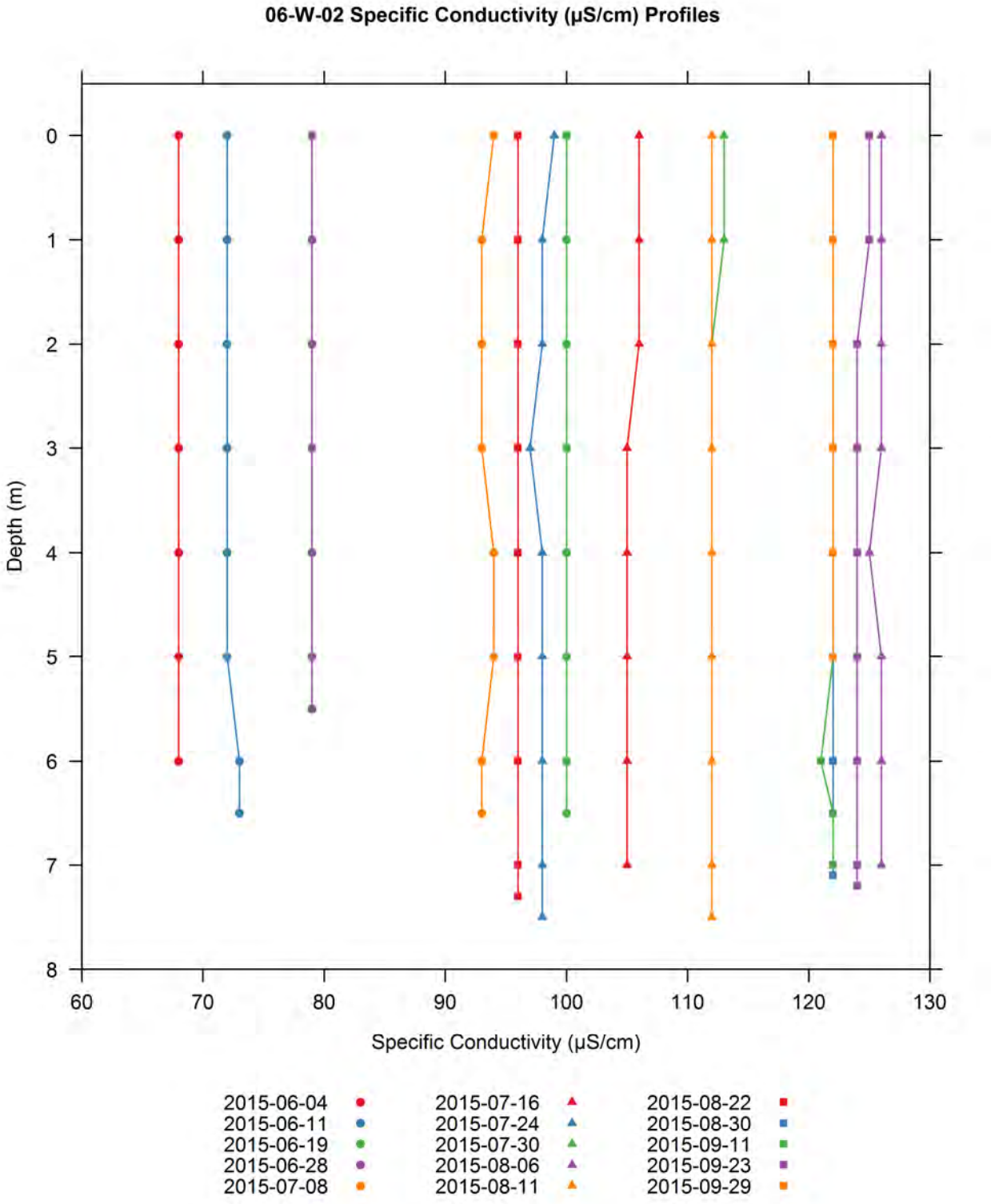

Figure H-16. Vertical profiles of specific conductivity (µS/cm) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

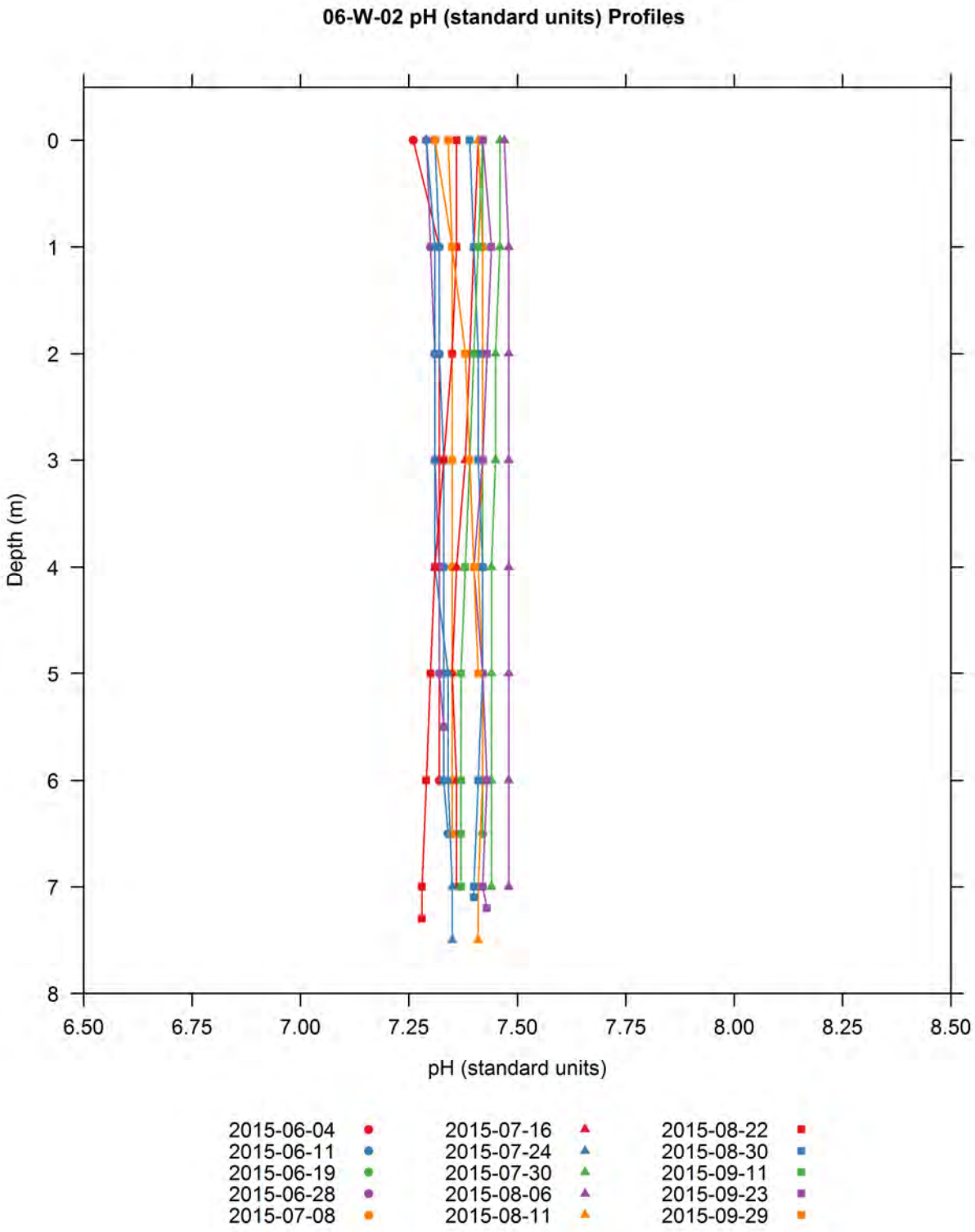

Figure H-17. Vertical profiles of pH (standard units) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

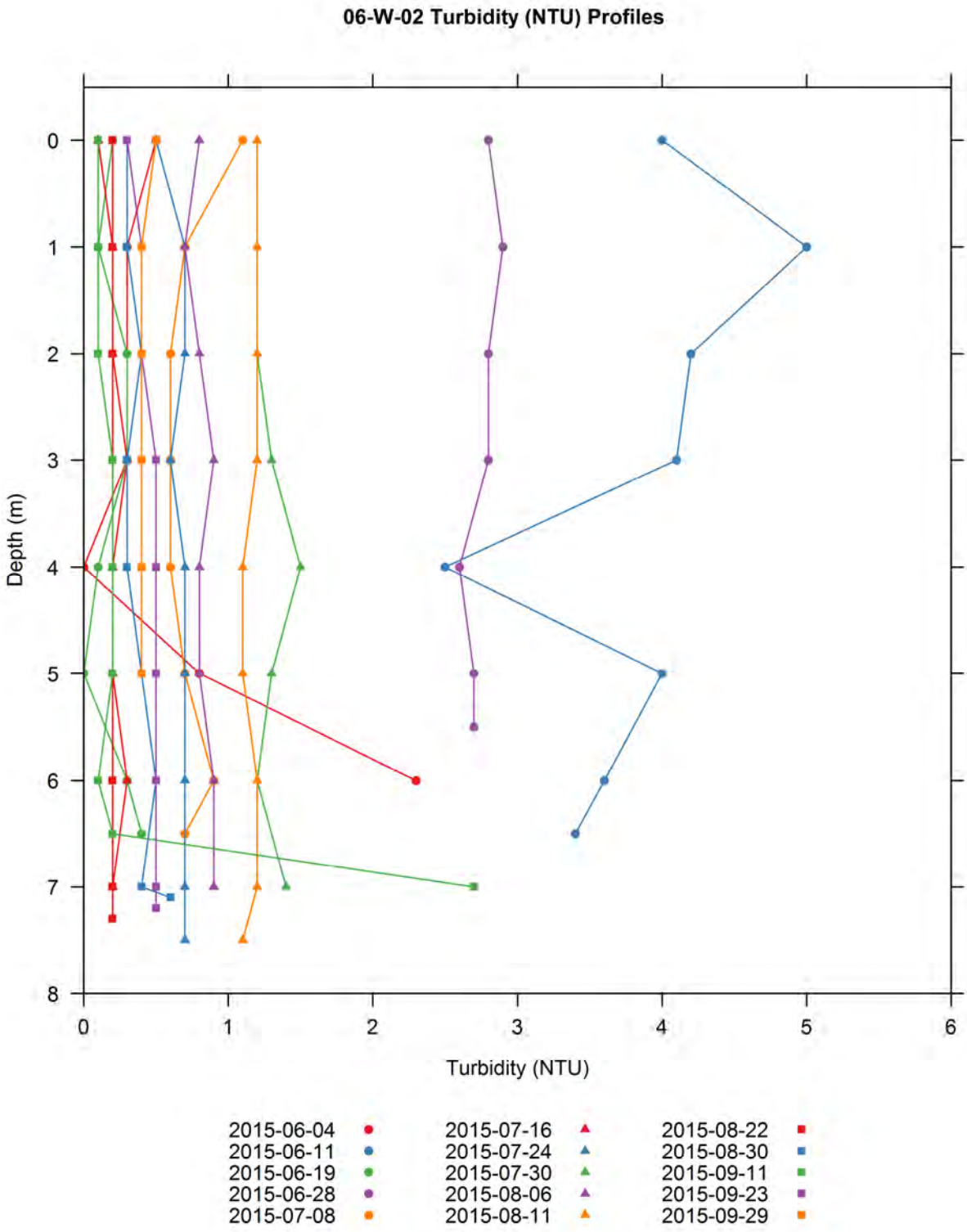

Figure H-18. Vertical profiles of turbidity (NTU) collected at the Wilder middle impoundment 06-W-02 water quality monitoring station.

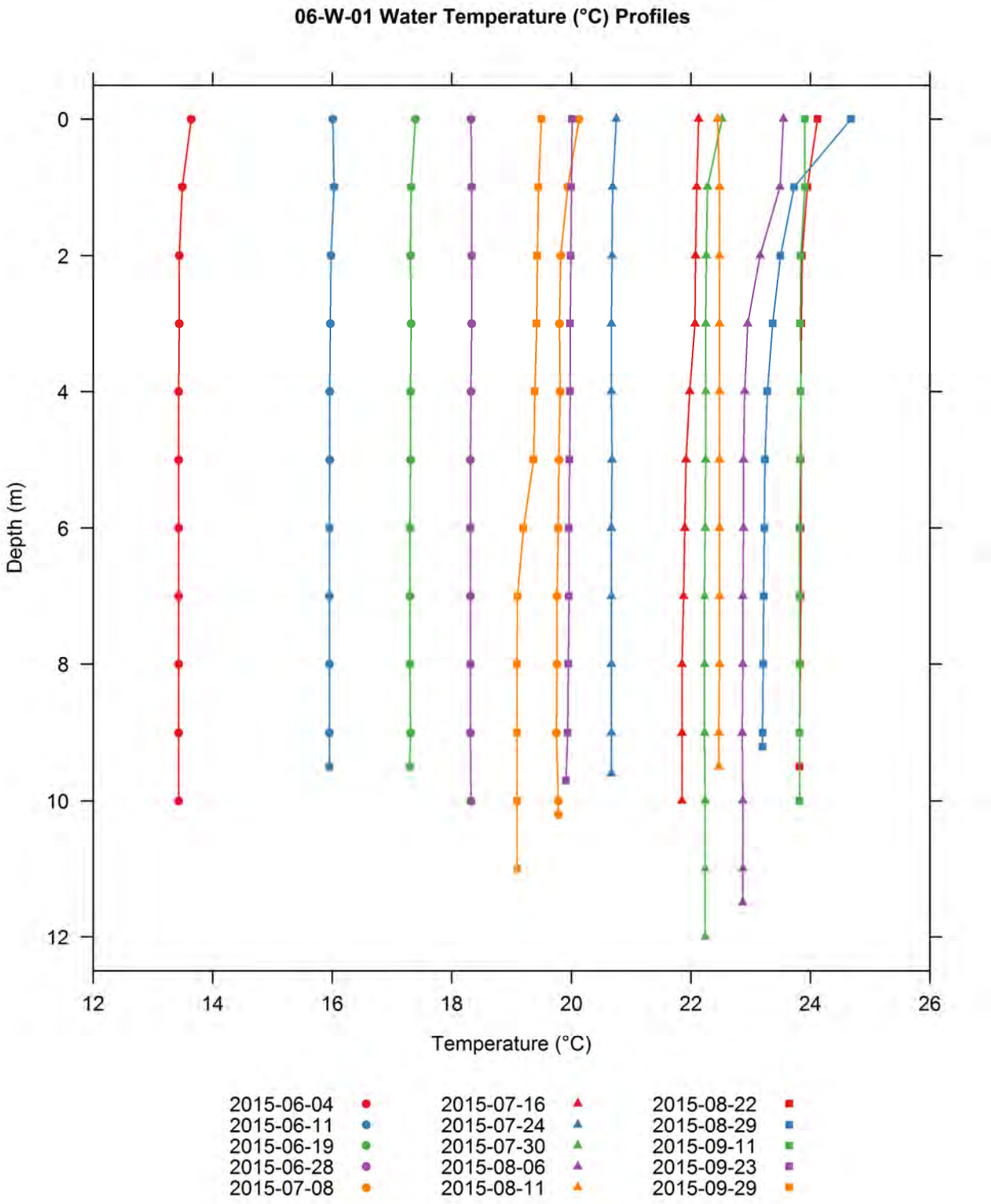

Figure H-19. Vertical profiles of water temperature (°C) collected at the Wilder forebay 06-W-01 water quality monitoring station.

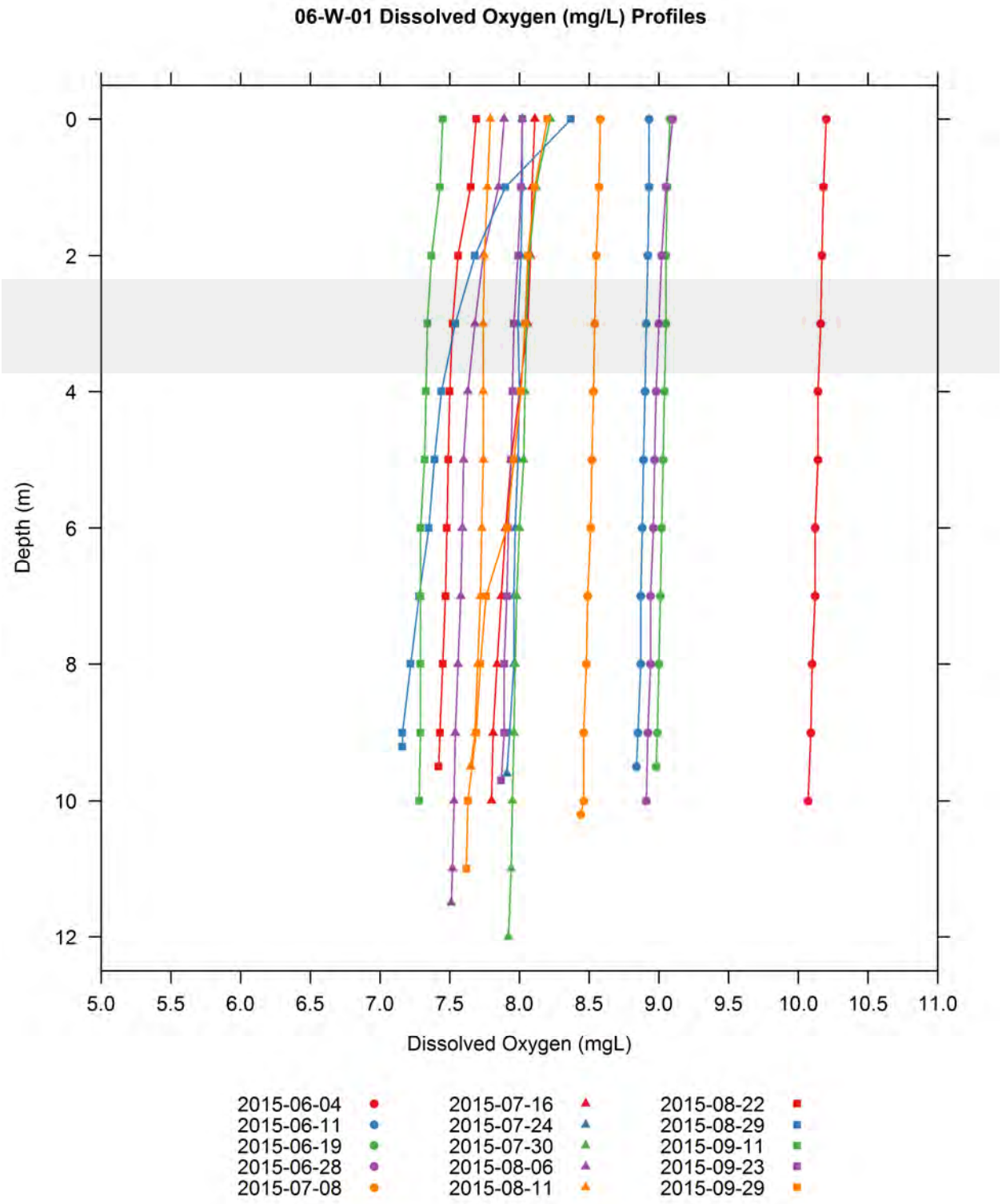

Figure H-20. Vertical profiles of dissolved oxygen (mg/L) collected at the Wilder forebay 06-W-01 water quality monitoring station.

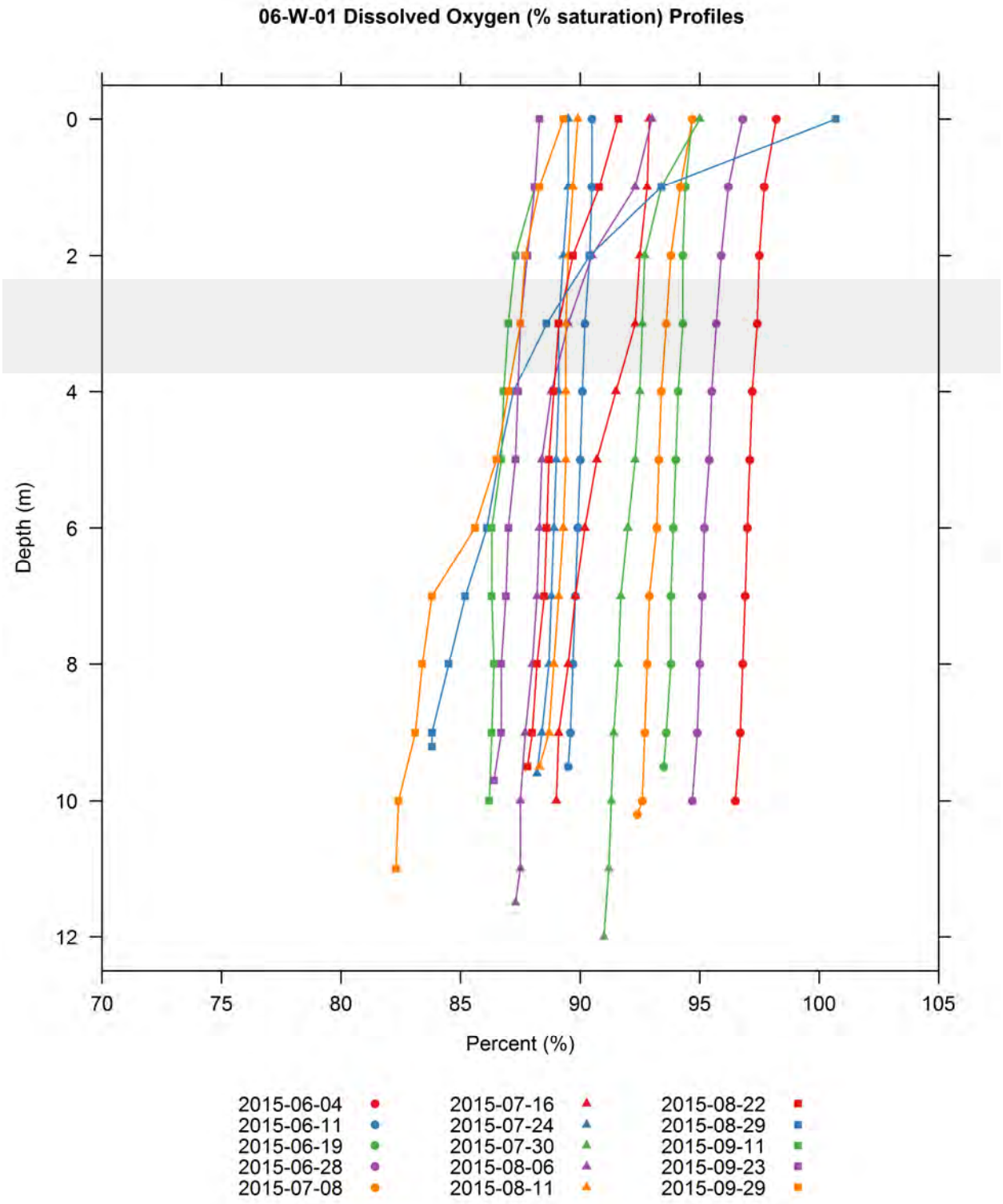

Figure H-21. Vertical profiles of dissolved oxygen (percent saturation) collected at the Wilder forebay 06-W-01 water quality monitoring station.

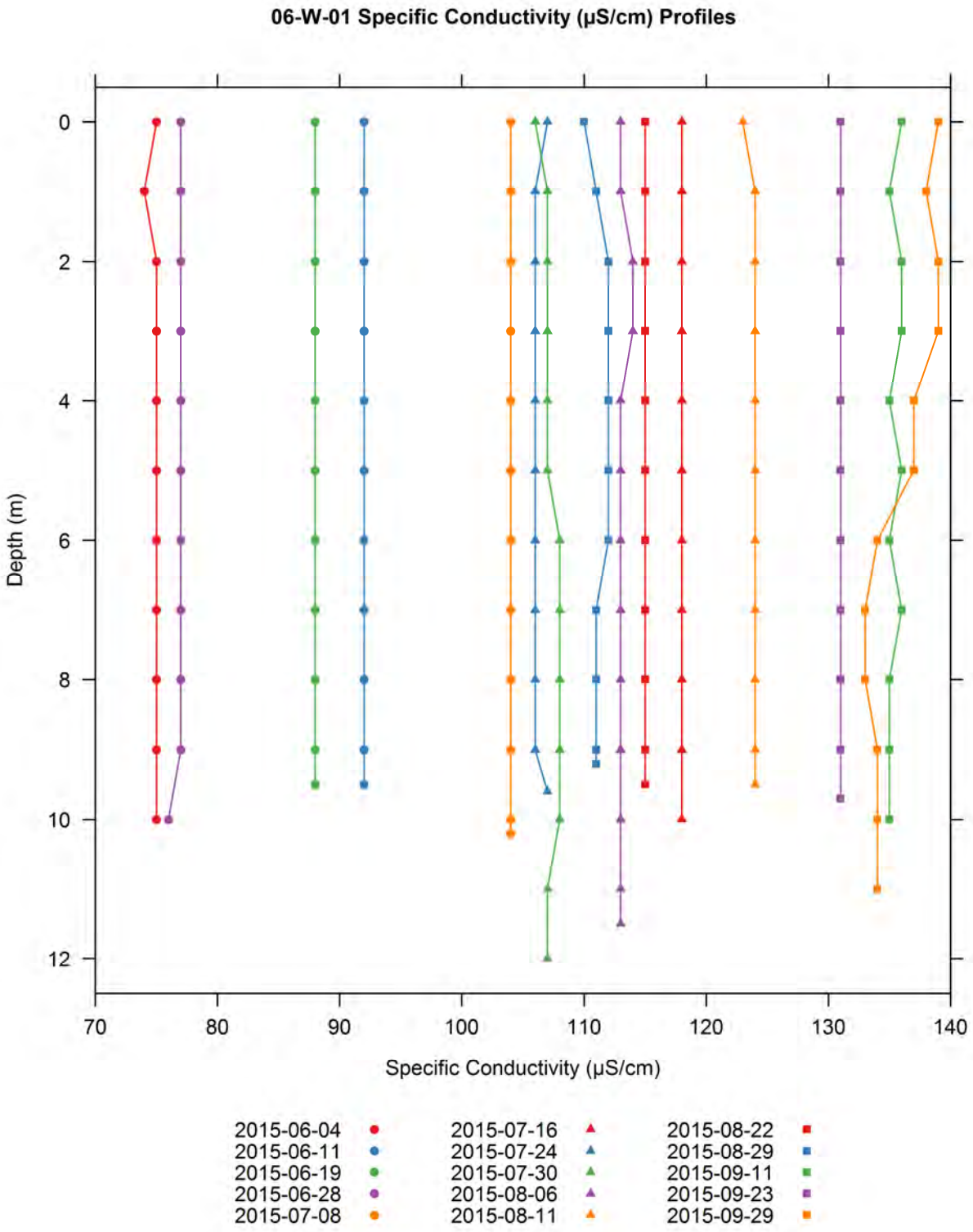

Figure H-22. Vertical profiles of specific conductivity (µS/cm) collected at the Wilder forebay 06-W-01 water quality monitoring station.

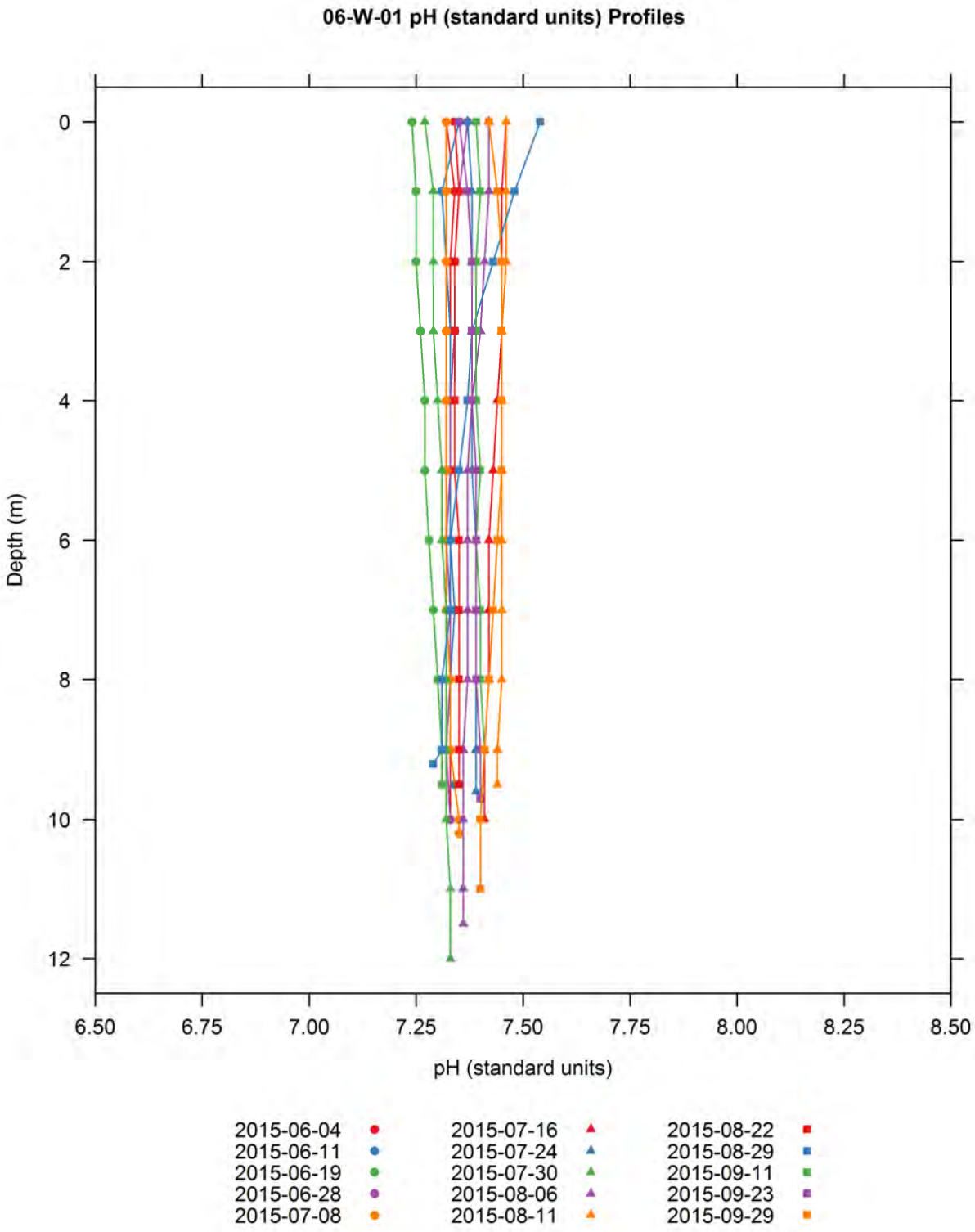

Figure H-23. Vertical profiles of pH (standard units) collected at the Wilder forebay 06-W-01 water quality monitoring station.

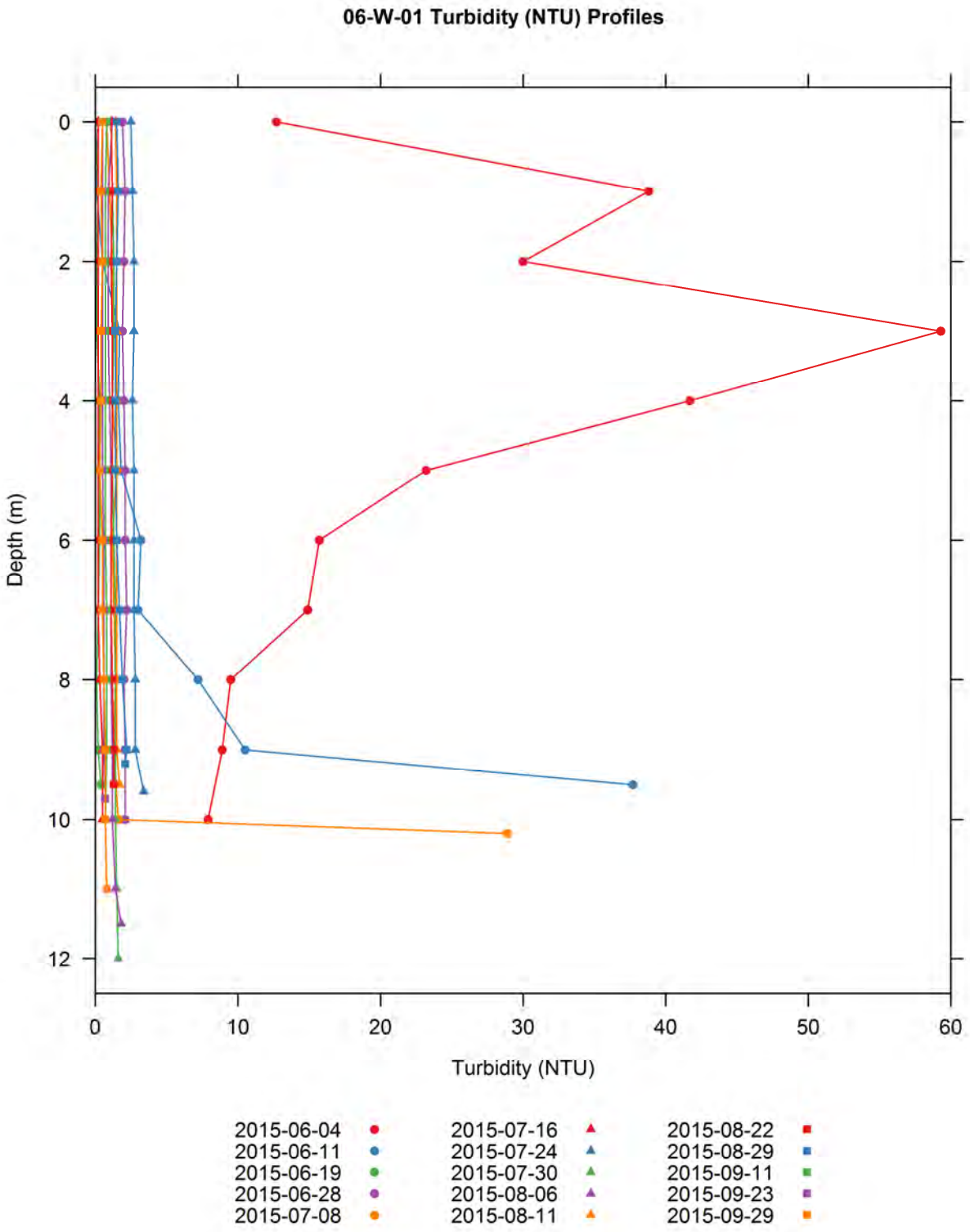

Figure H-24. Vertical profiles of turbidity (NTU) collected at the Wilder forebay 06-W-01 water quality monitoring station.

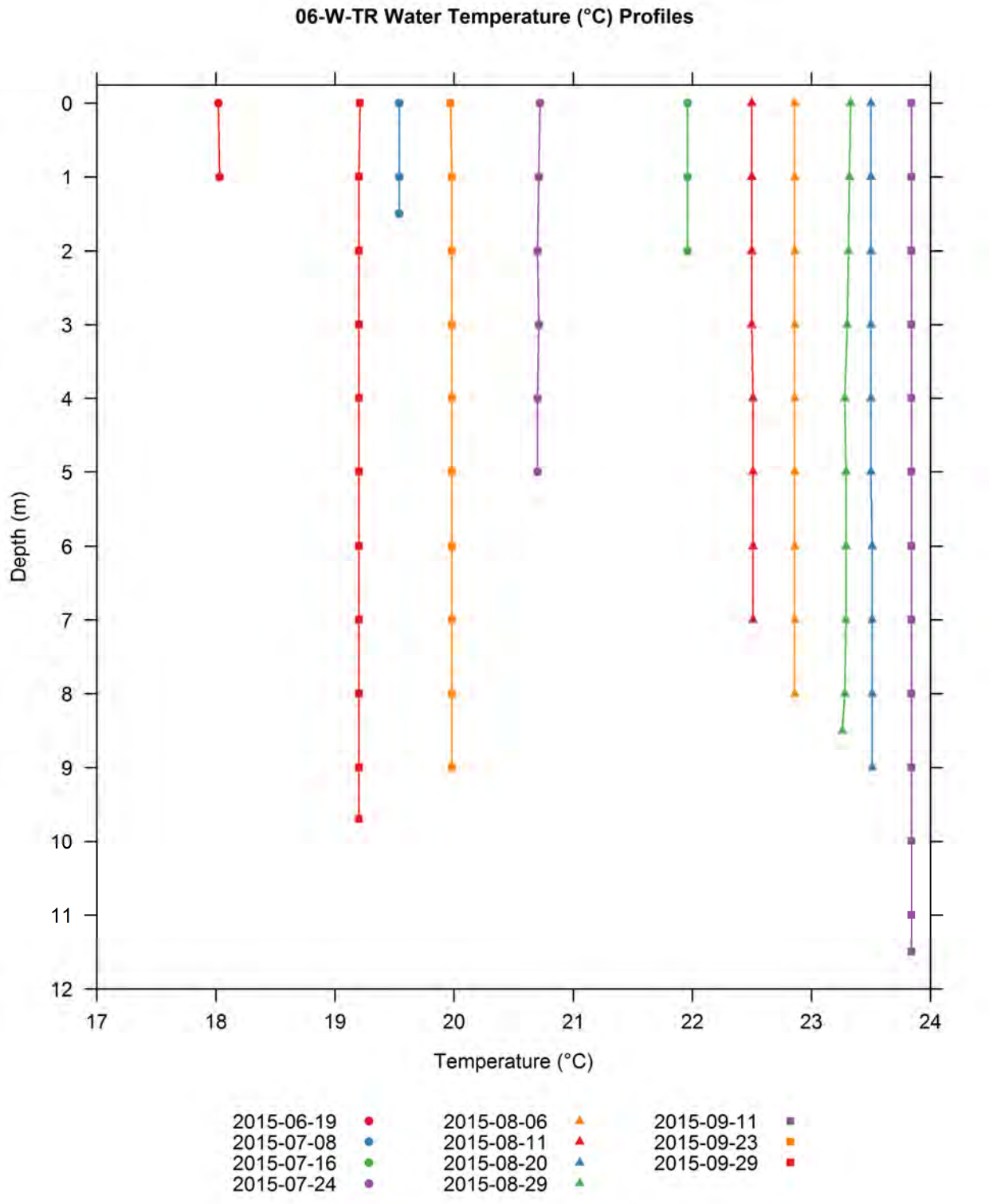

Figure H-25. Vertical profiles of water temperature (°C) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

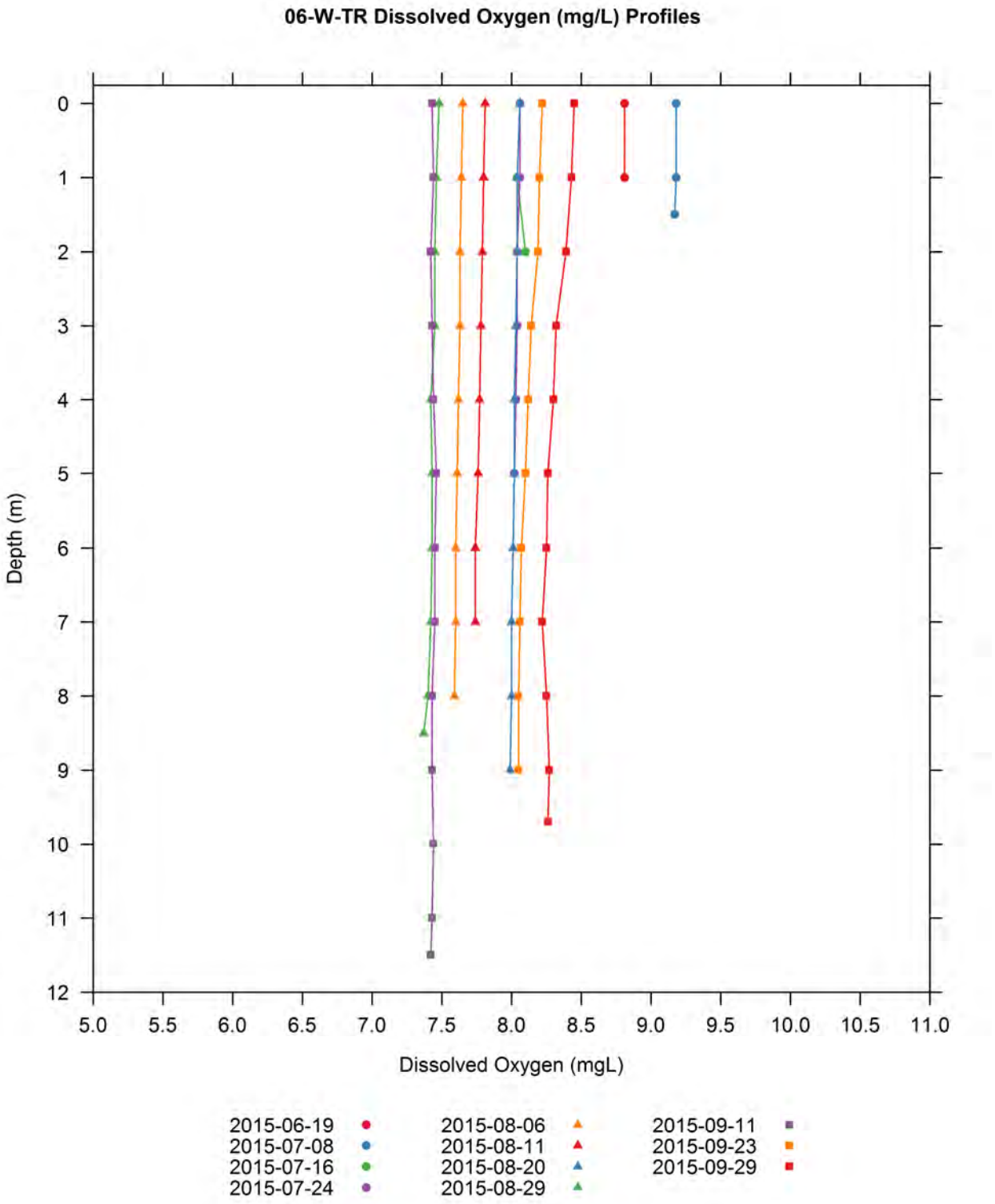

Figure H-26. Vertical profiles of dissolved oxygen (mg/L) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

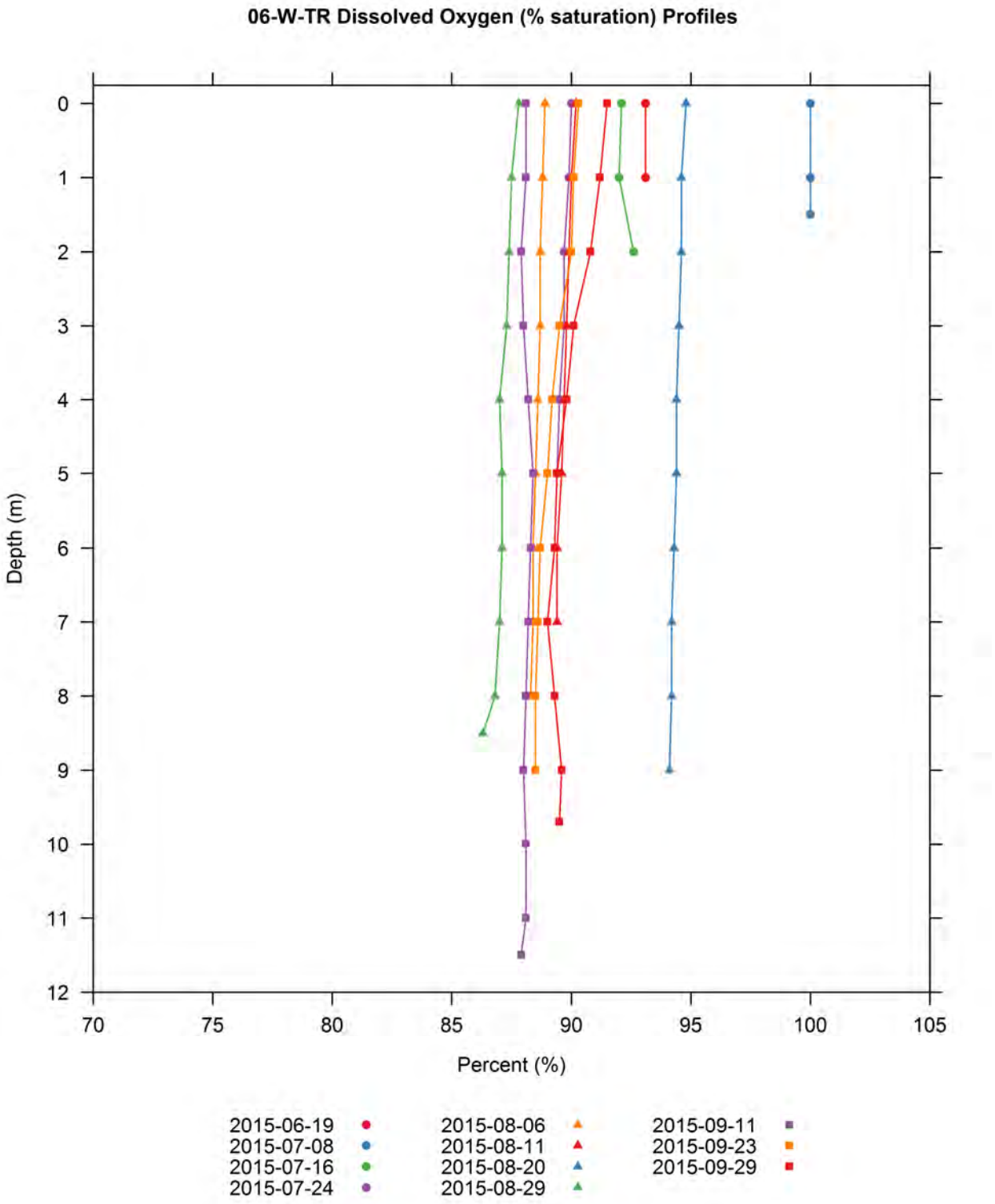

Figure H-27. Vertical profiles of dissolved oxygen (percent saturation) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

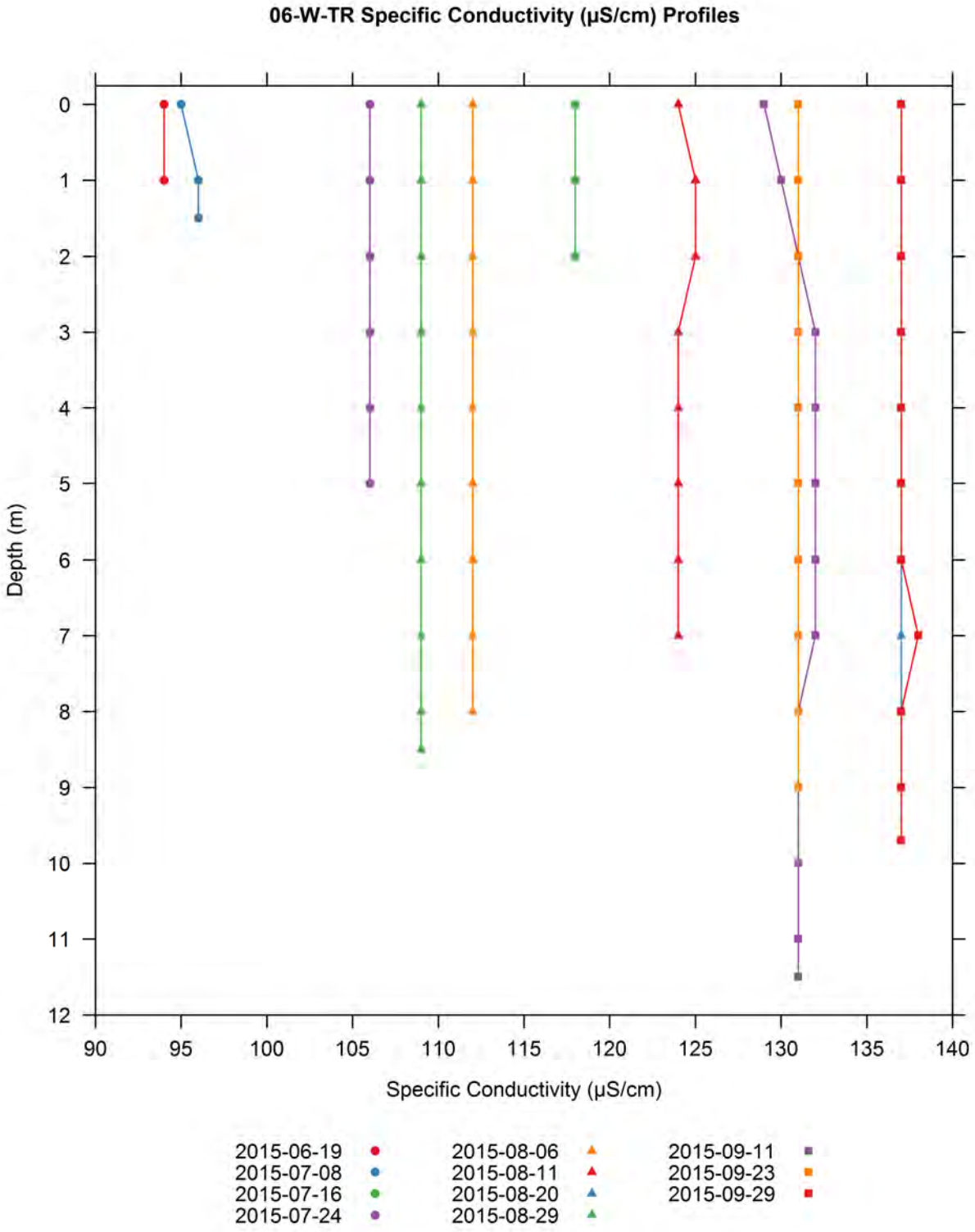

Figure H-28. Vertical profiles of specific conductivity (µS/cm) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

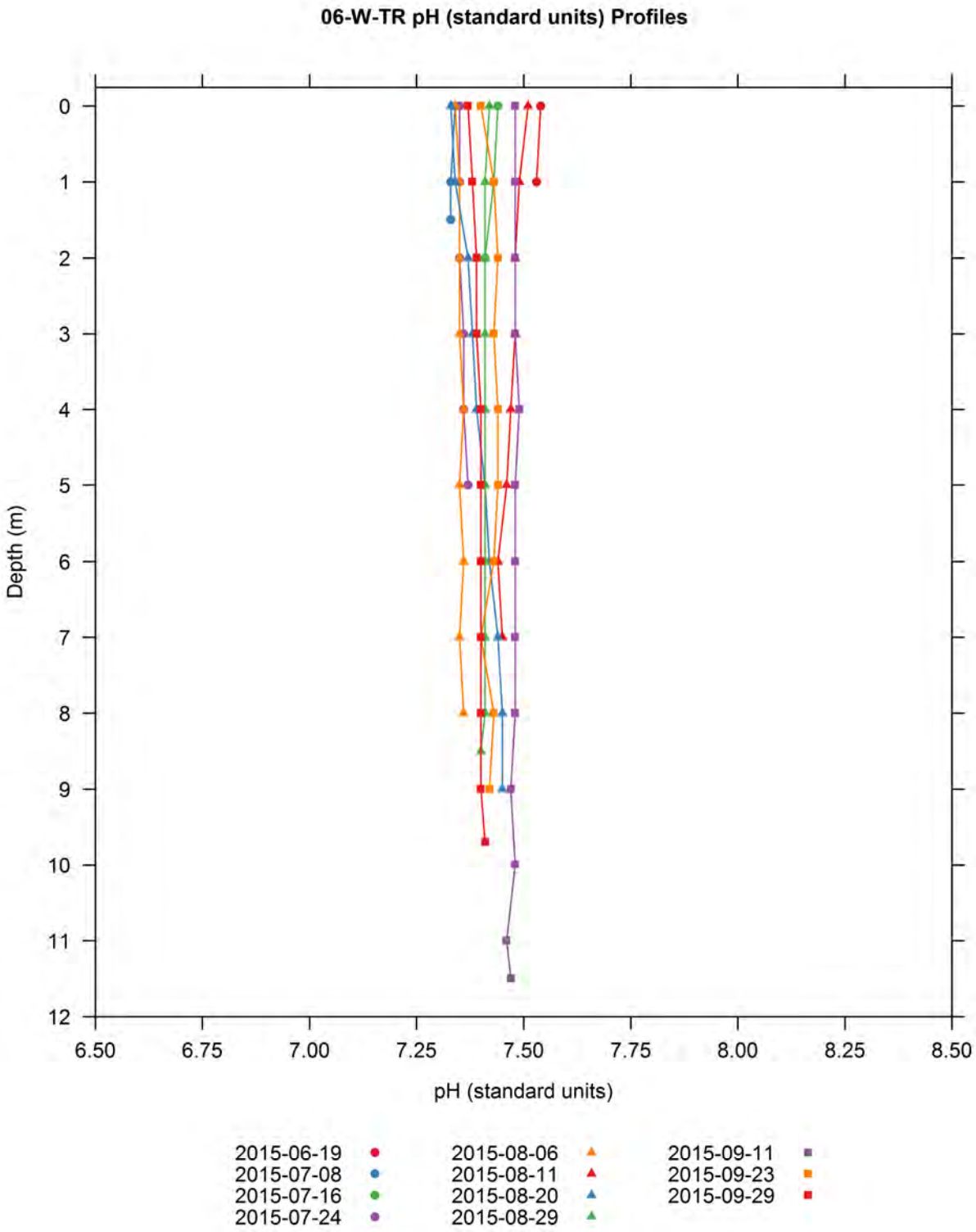

Figure H-29. Vertical profiles of pH (standard units) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

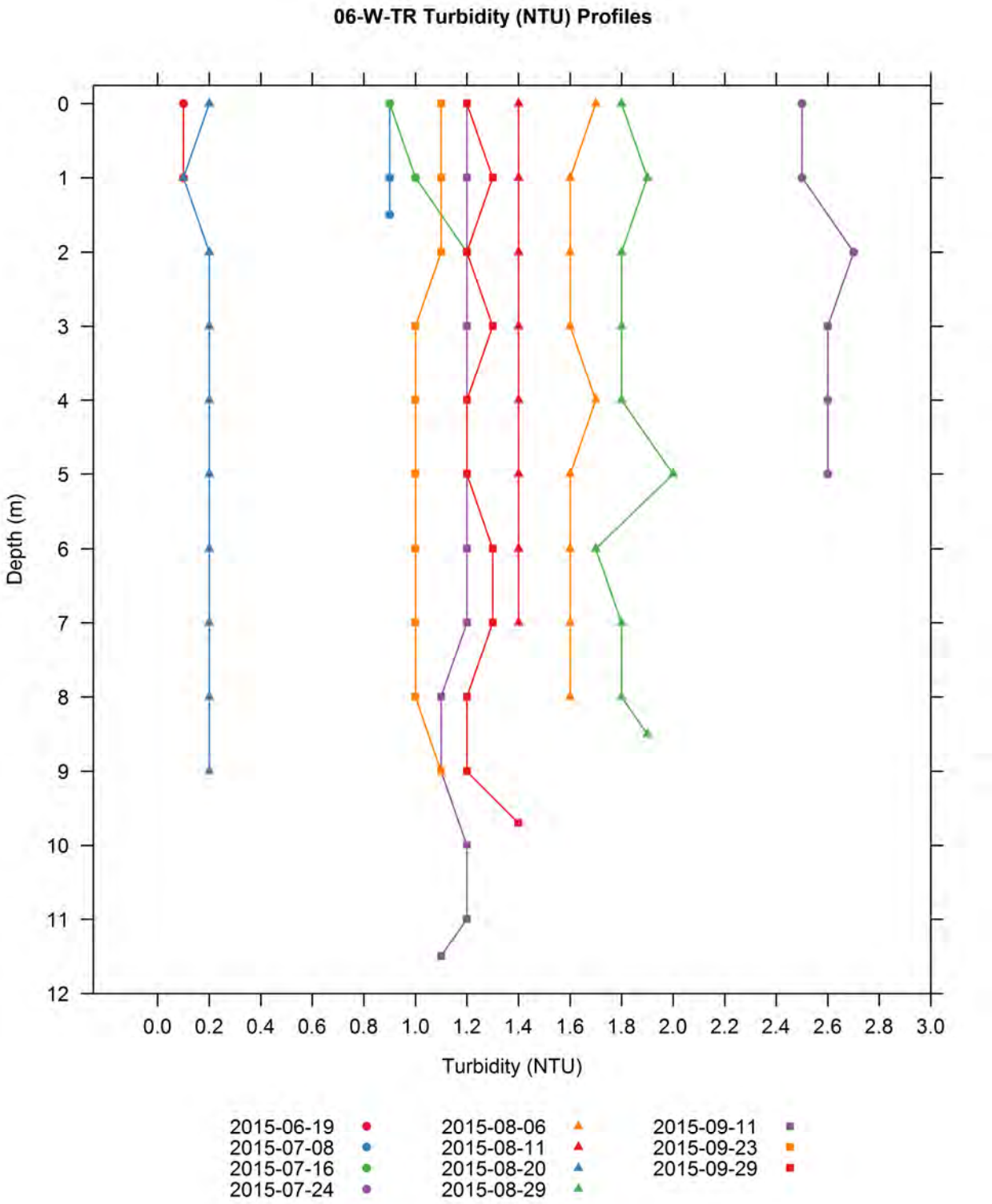

Figure H-30. Vertical profiles of NTU (NTU) collected at the Wilder tailrace 06-W-TR water quality monitoring station.

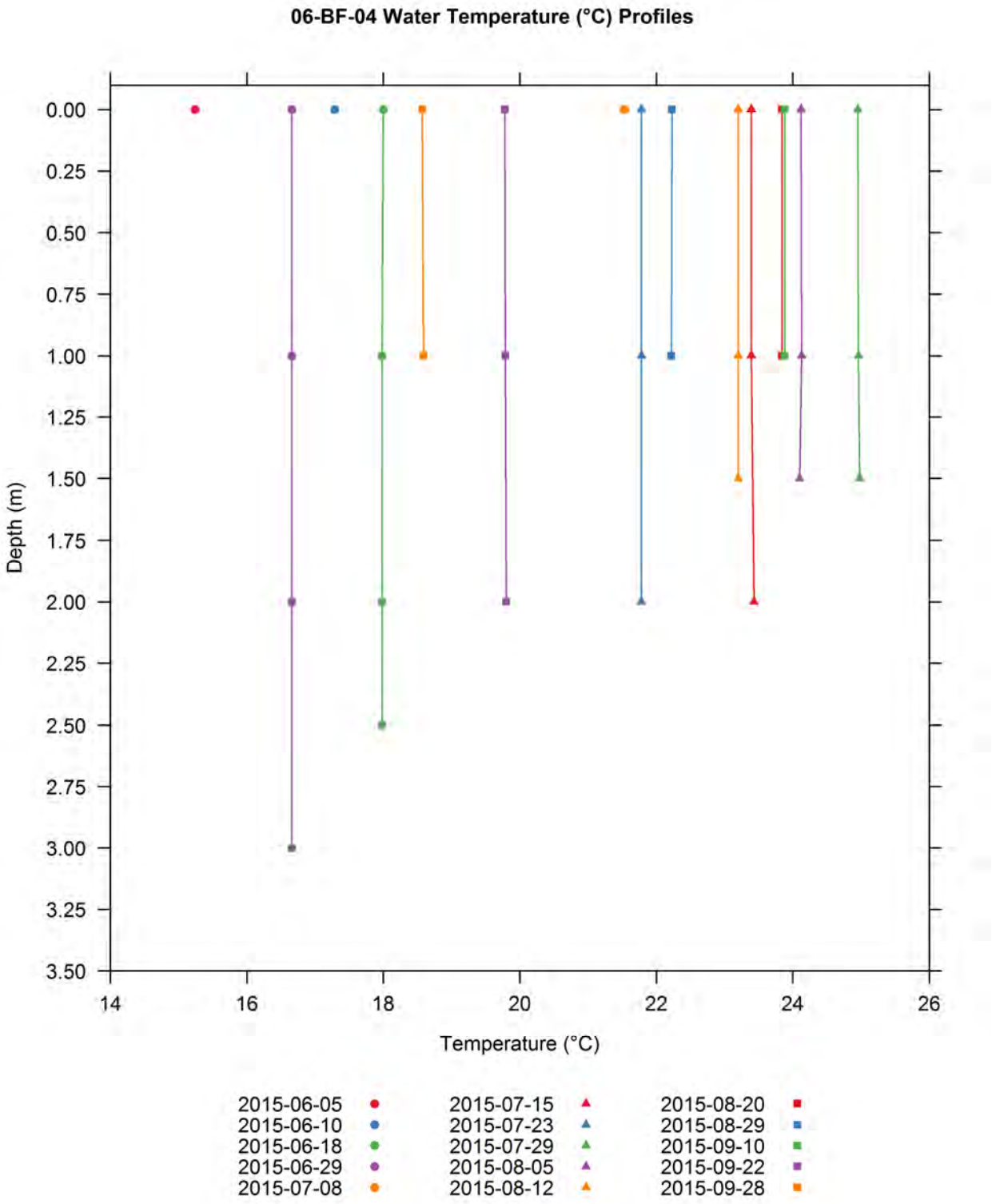

Figure H-31. Vertical profiles of water temperature (°C) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

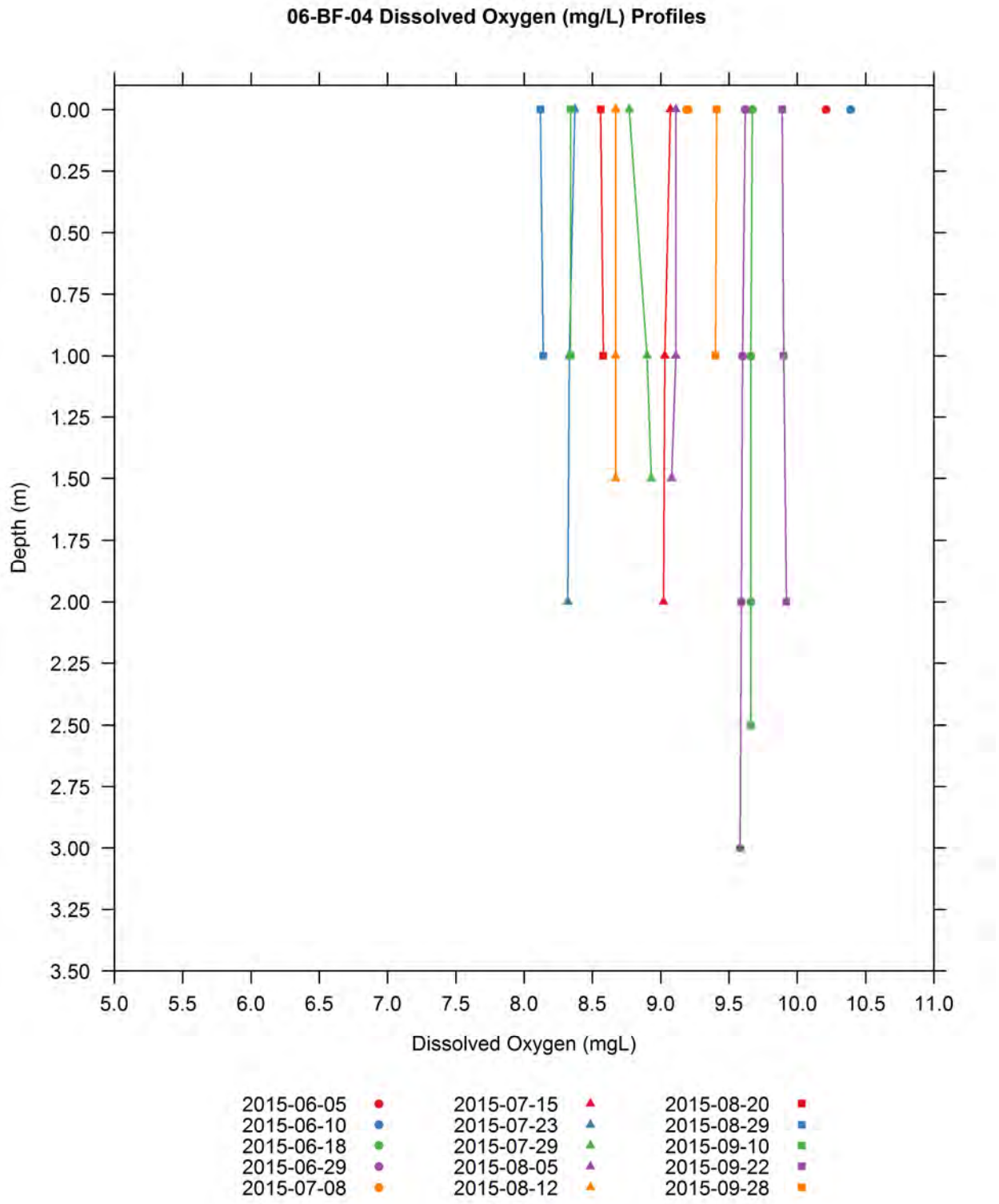

Figure H-32. Vertical profiles of dissolved oxygen (mg/L) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

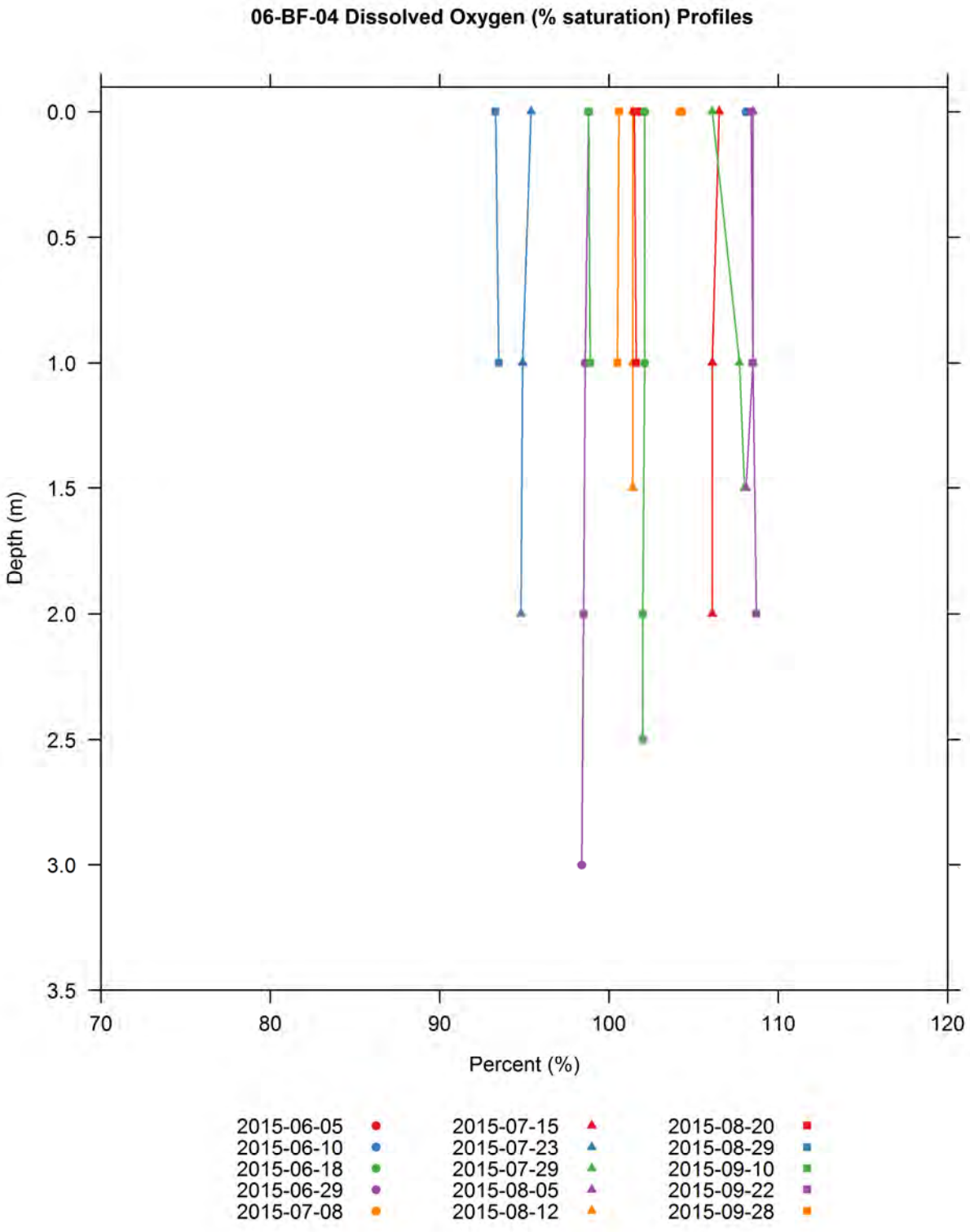

Figure H-33. Vertical profiles of dissolved oxygen (percent saturation) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

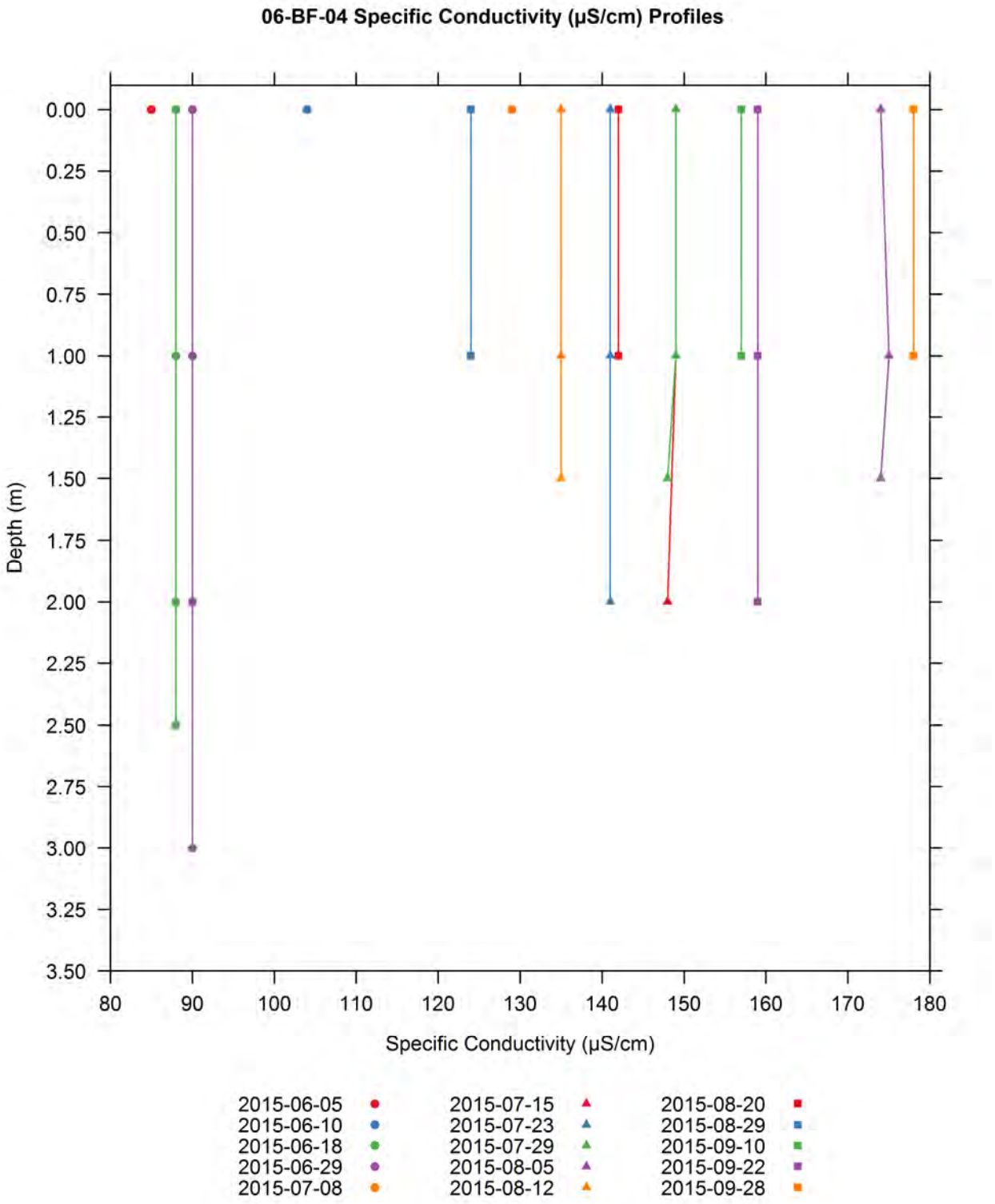

Figure H-34. Vertical profiles of specific conductivity (µS/cm) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

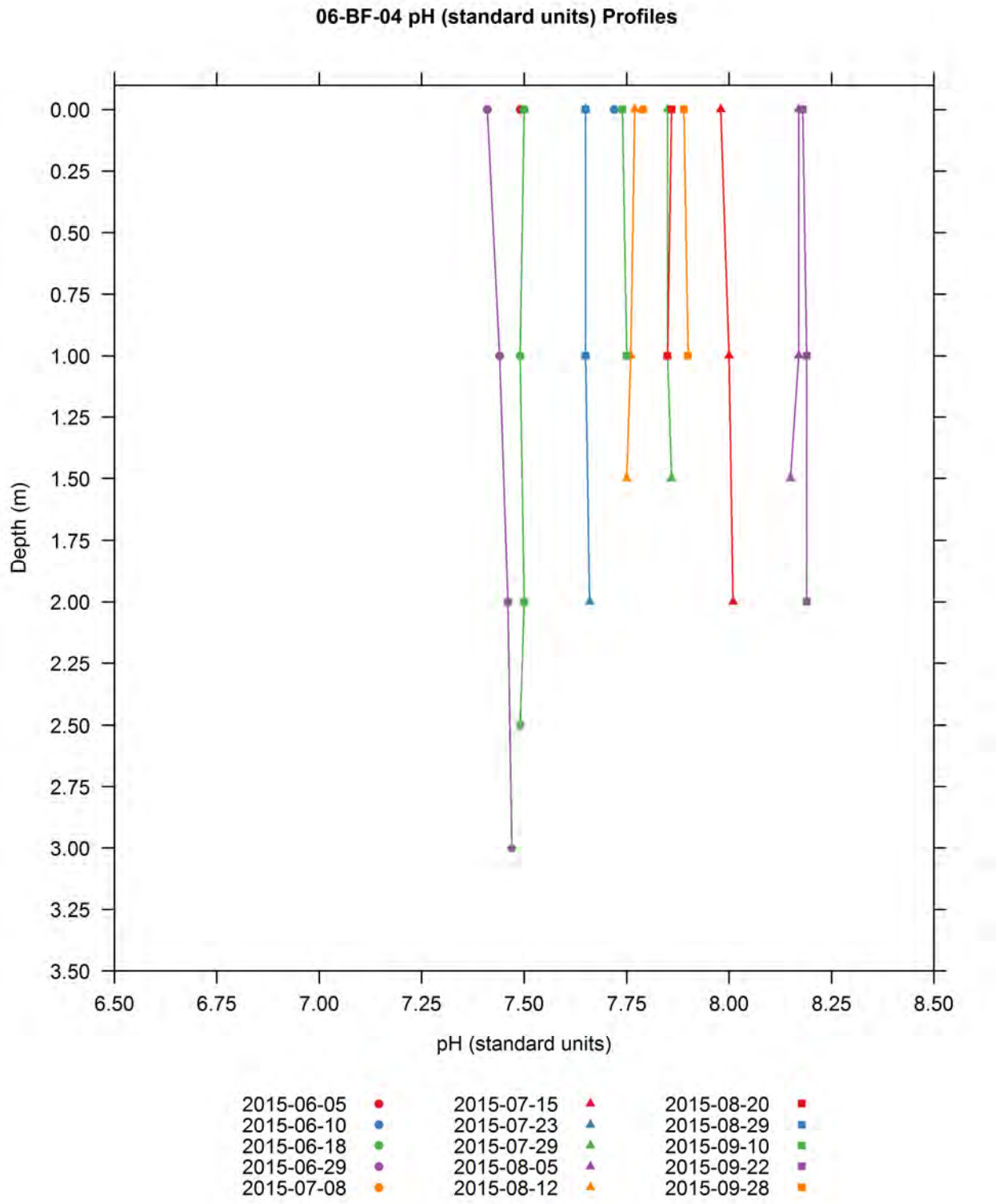

Figure H-35. Vertical profiles of pH (standard units) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

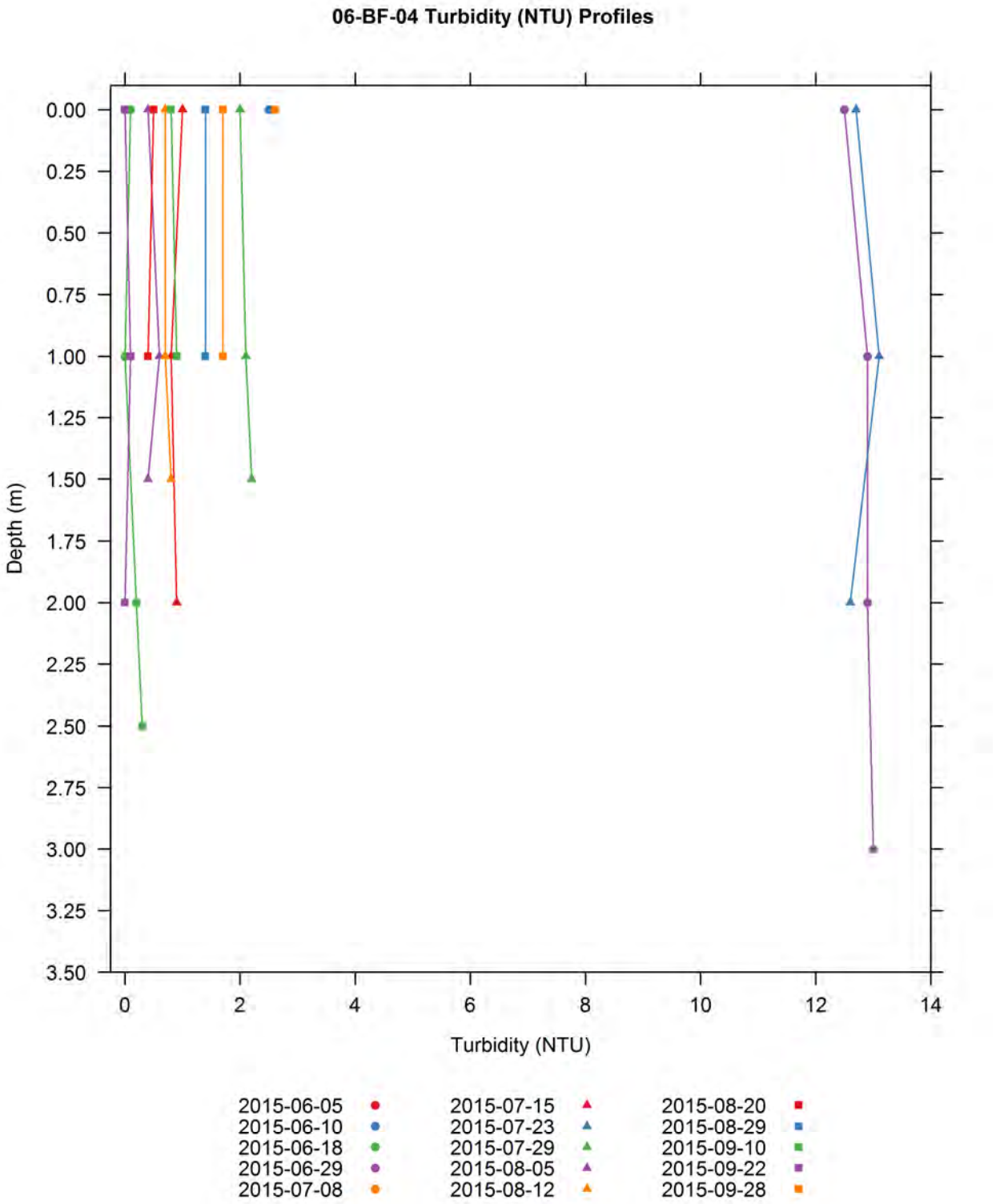

Figure H-36. Vertical profiles of NTU (NTU) collected at the Bellows Falls upstream 06-BF-04 water quality monitoring station.

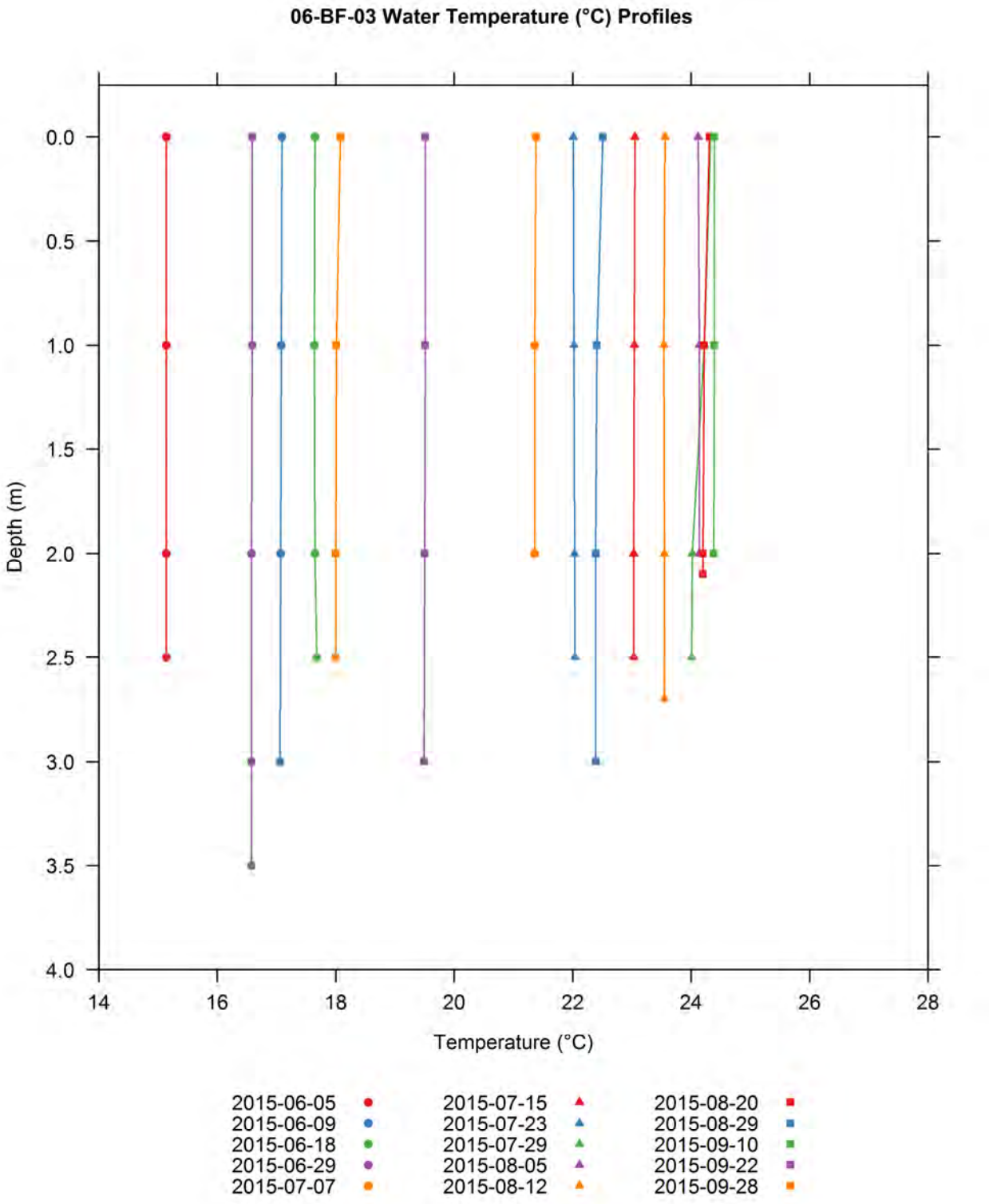

Figure H-37. Vertical profiles of water temperature (°C) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

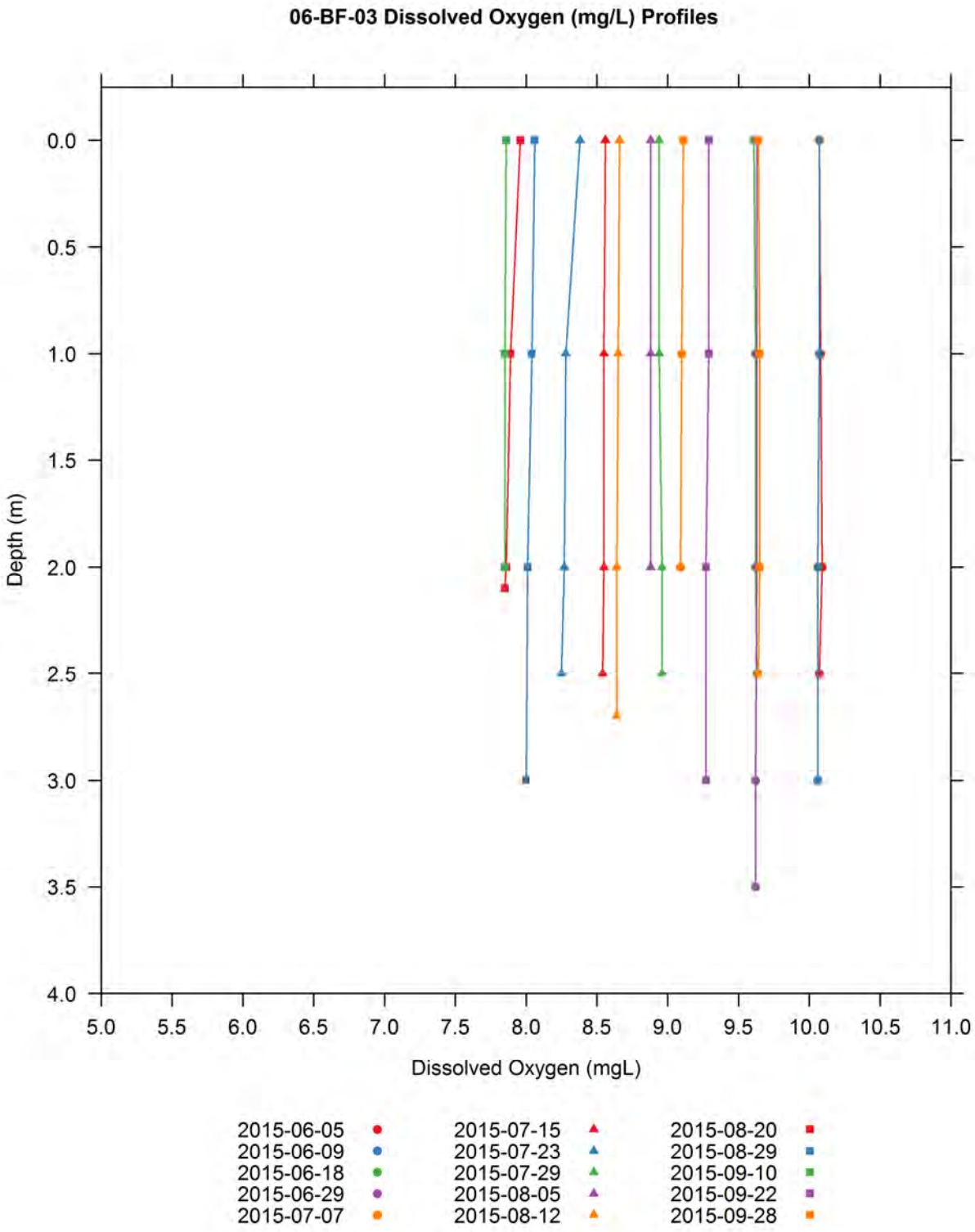

Figure H-38. Vertical profiles of dissolved oxygen (mg/L) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

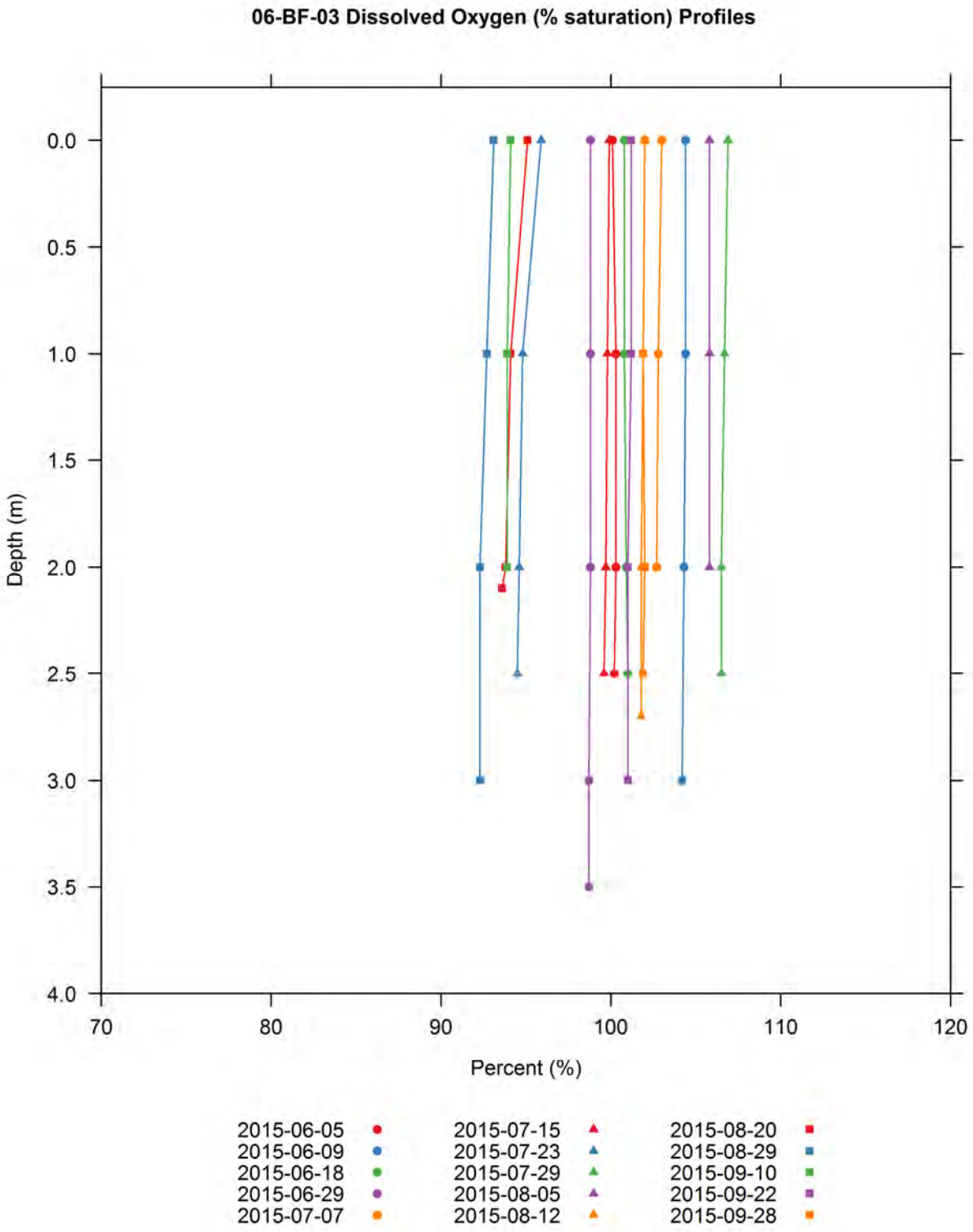

Figure H-39. Vertical profiles of dissolved oxygen (percent saturation) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

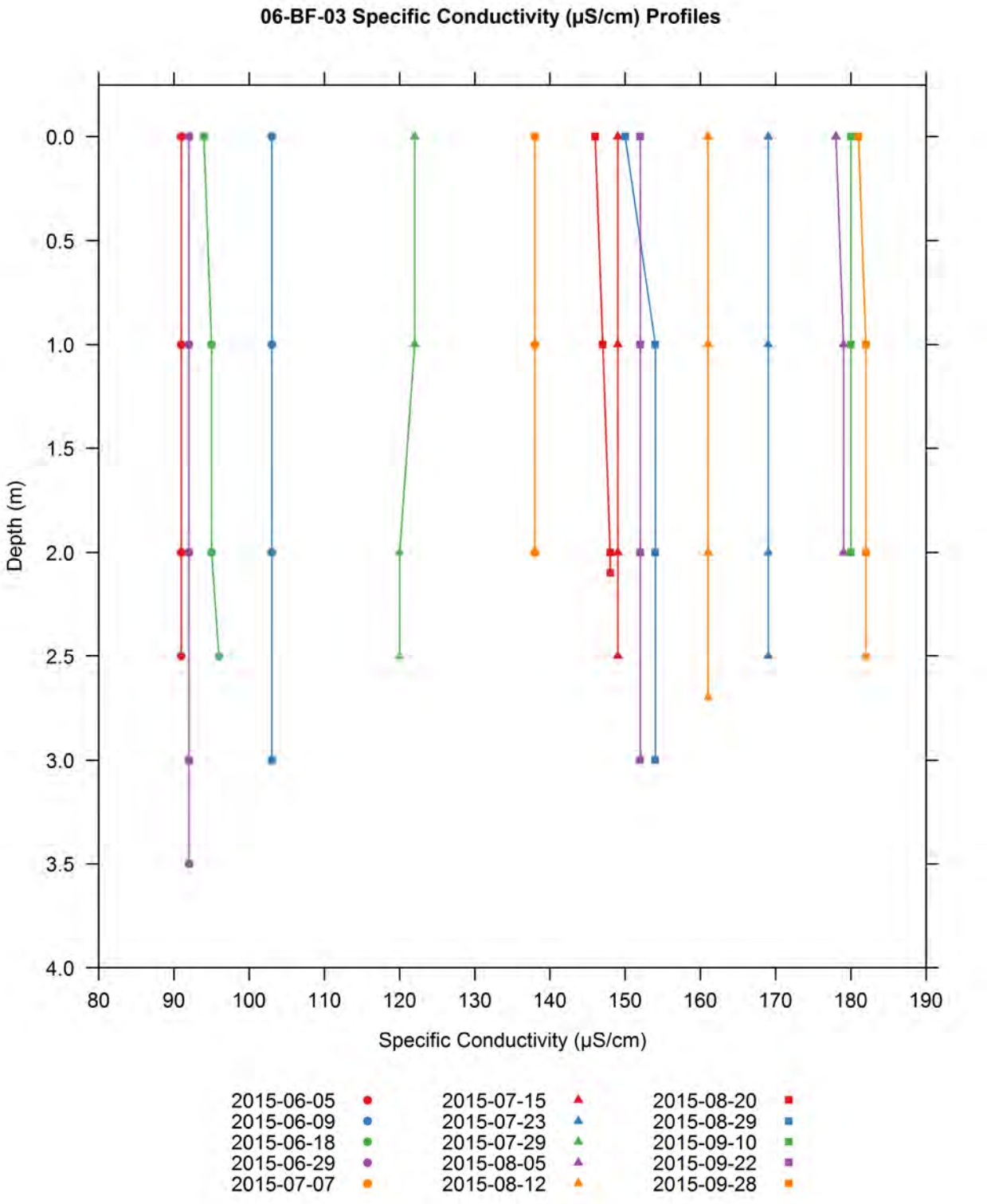

Figure H-40. Vertical profiles of specific conductivity (µS/cm) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

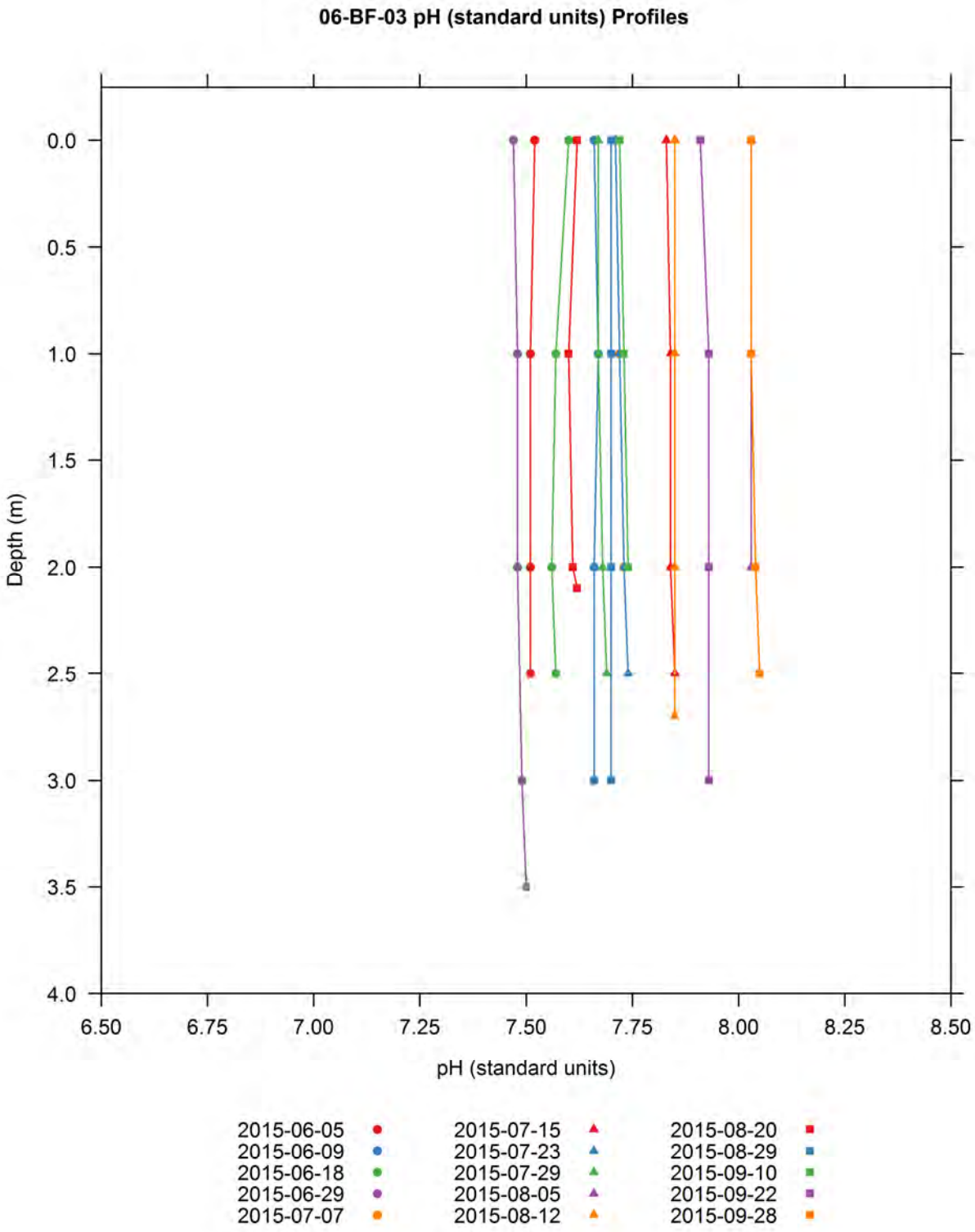

Figure H-41. Vertical profiles of pH (standard units) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

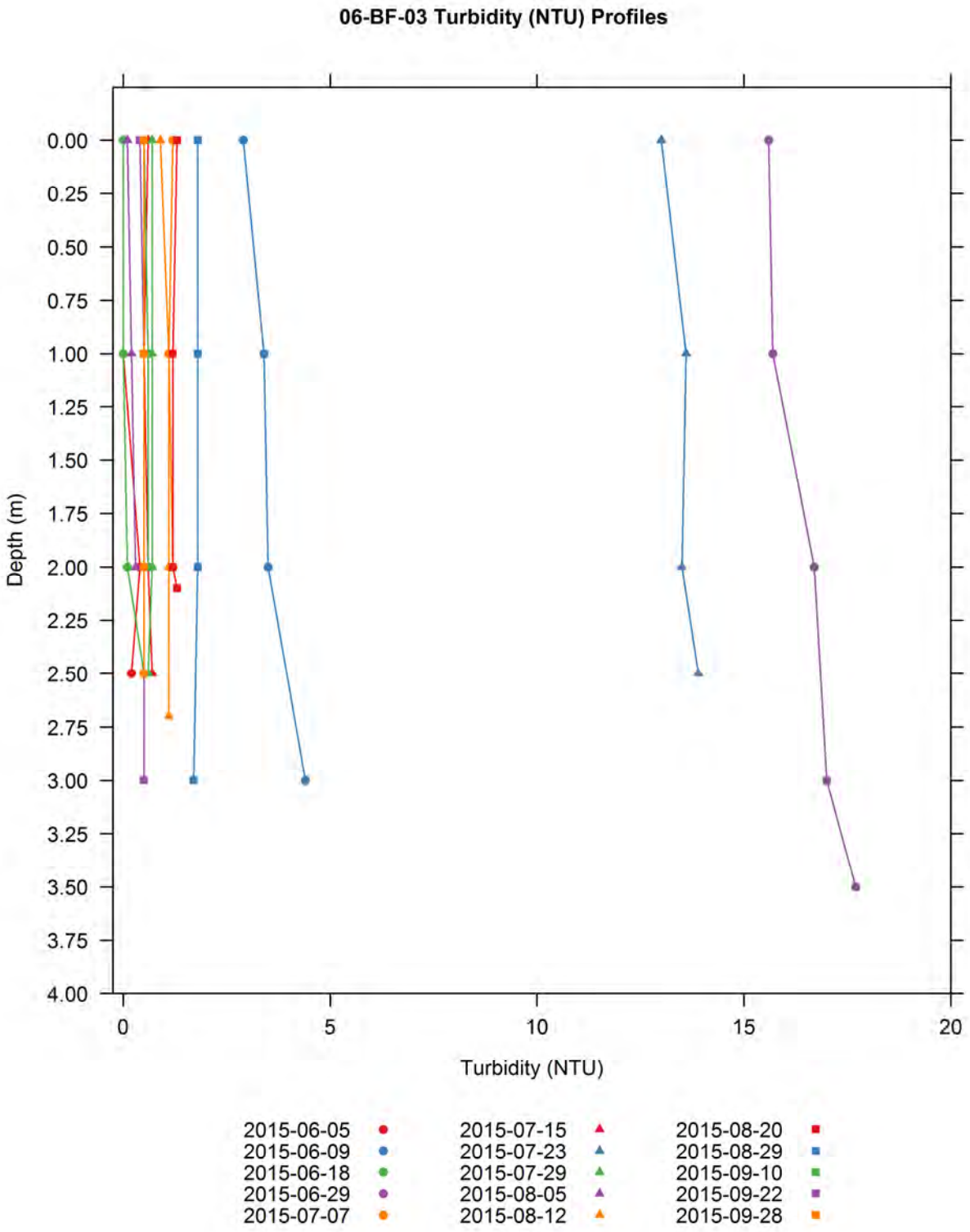

Figure H-42. Vertical profiles of NTU (NTU) collected at the Bellows Falls upper impoundment 06-BF-03 water quality monitoring station.

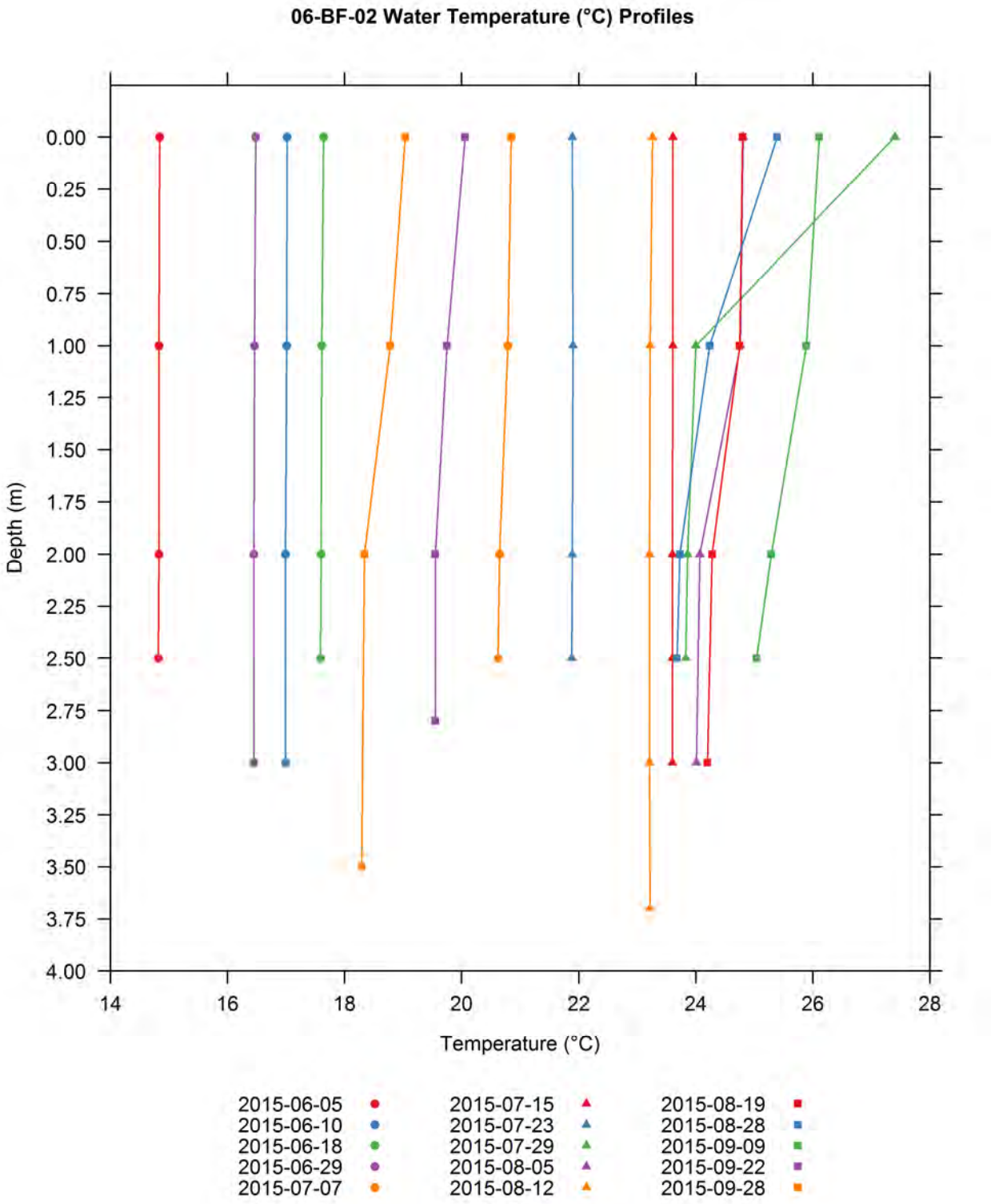

Figure H-43. Vertical profiles of water temperature (°C) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

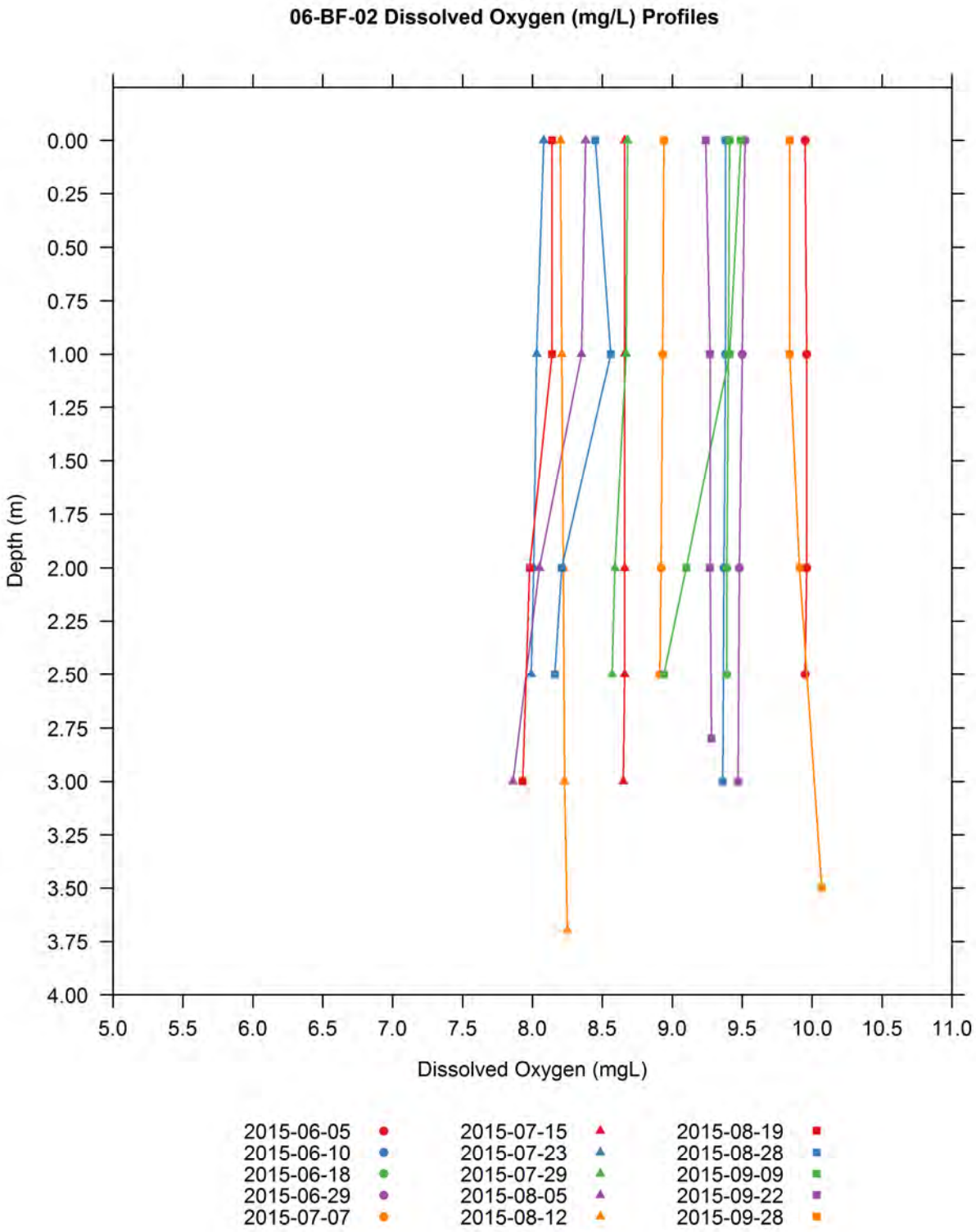

Figure H-44. Vertical profiles of dissolved oxygen (mg/L) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

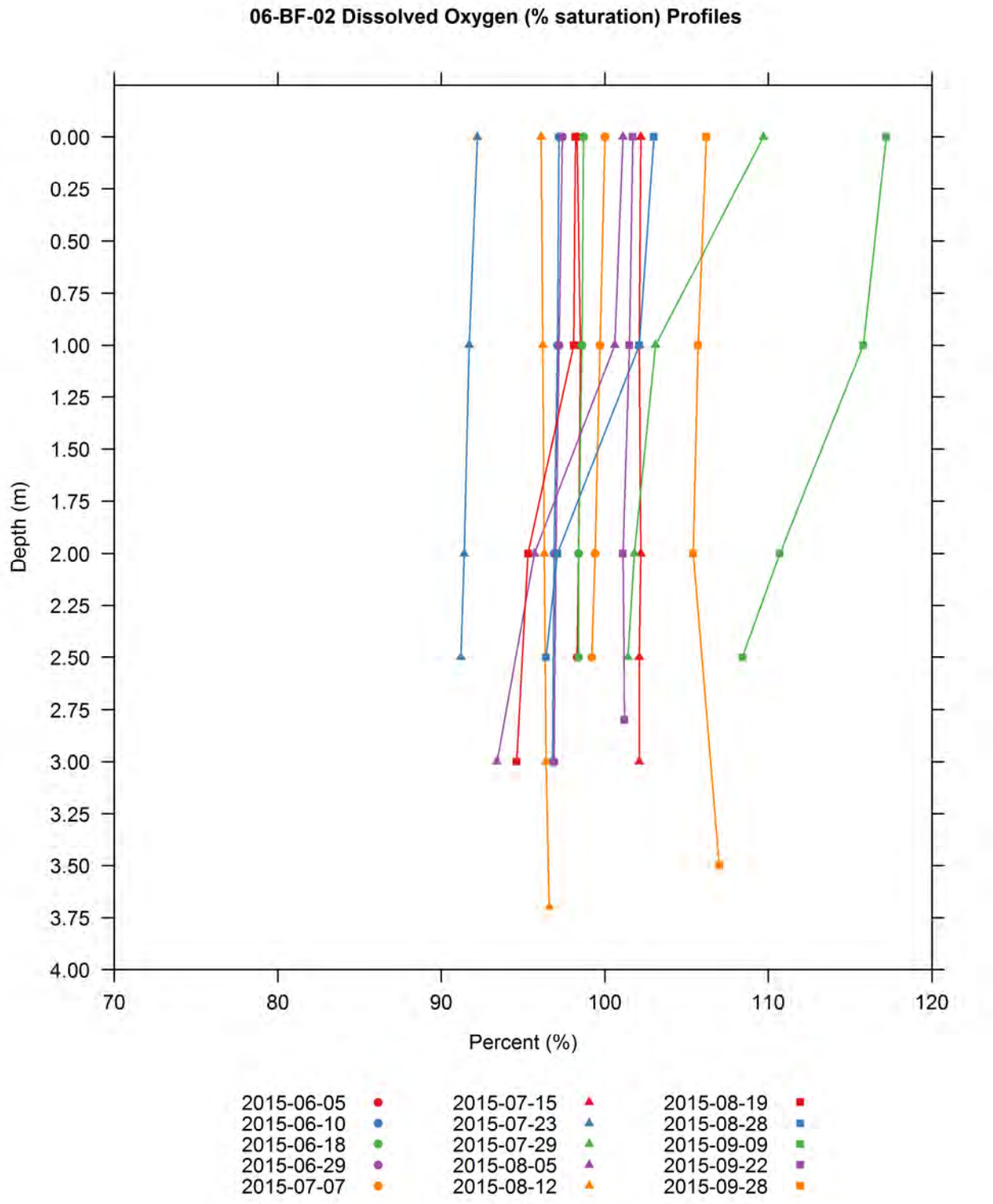

Figure H-45. Vertical profiles of dissolved oxygen (percent saturation) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

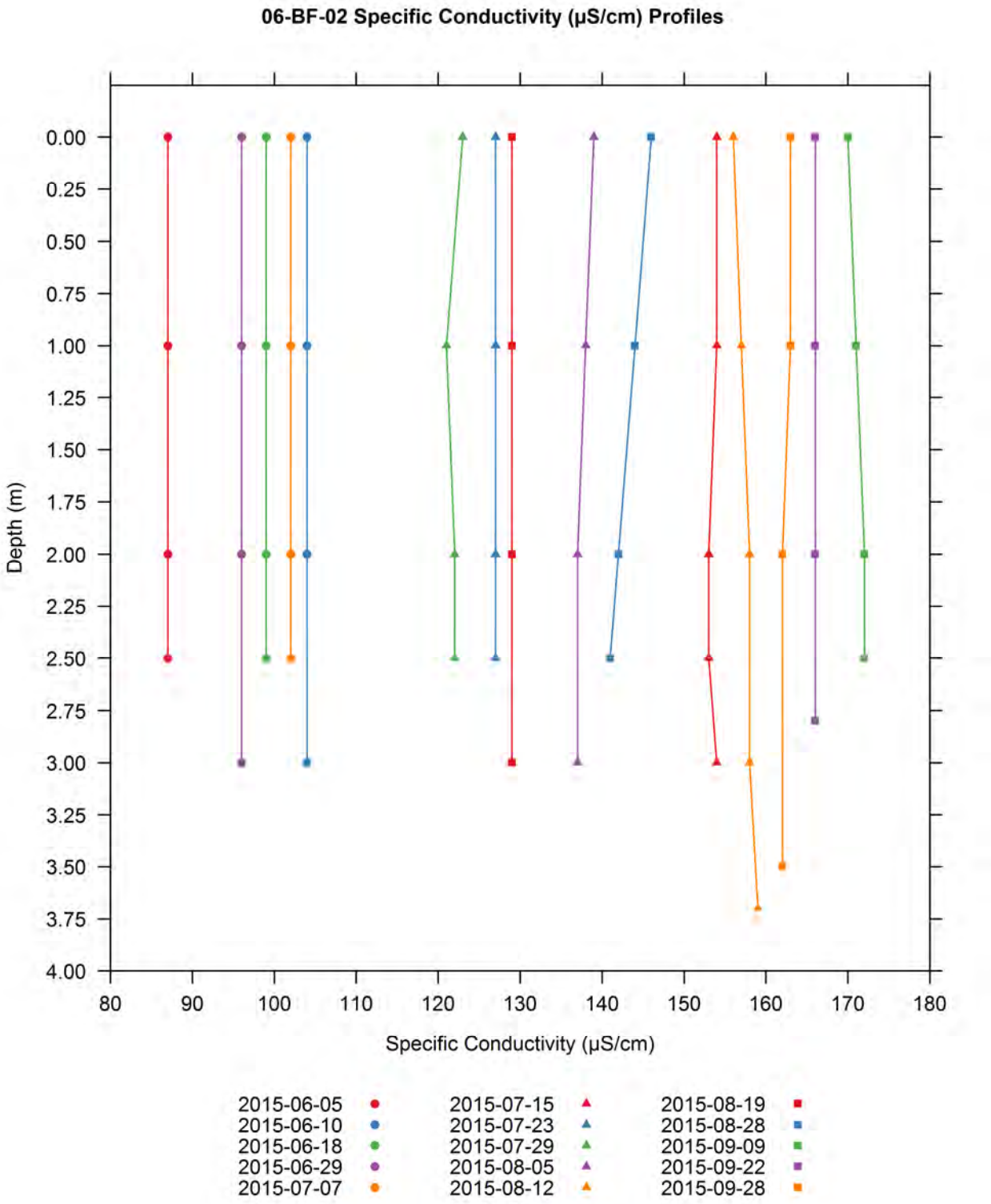

Figure H-46. Vertical profiles of specific conductivity (µS/cm) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

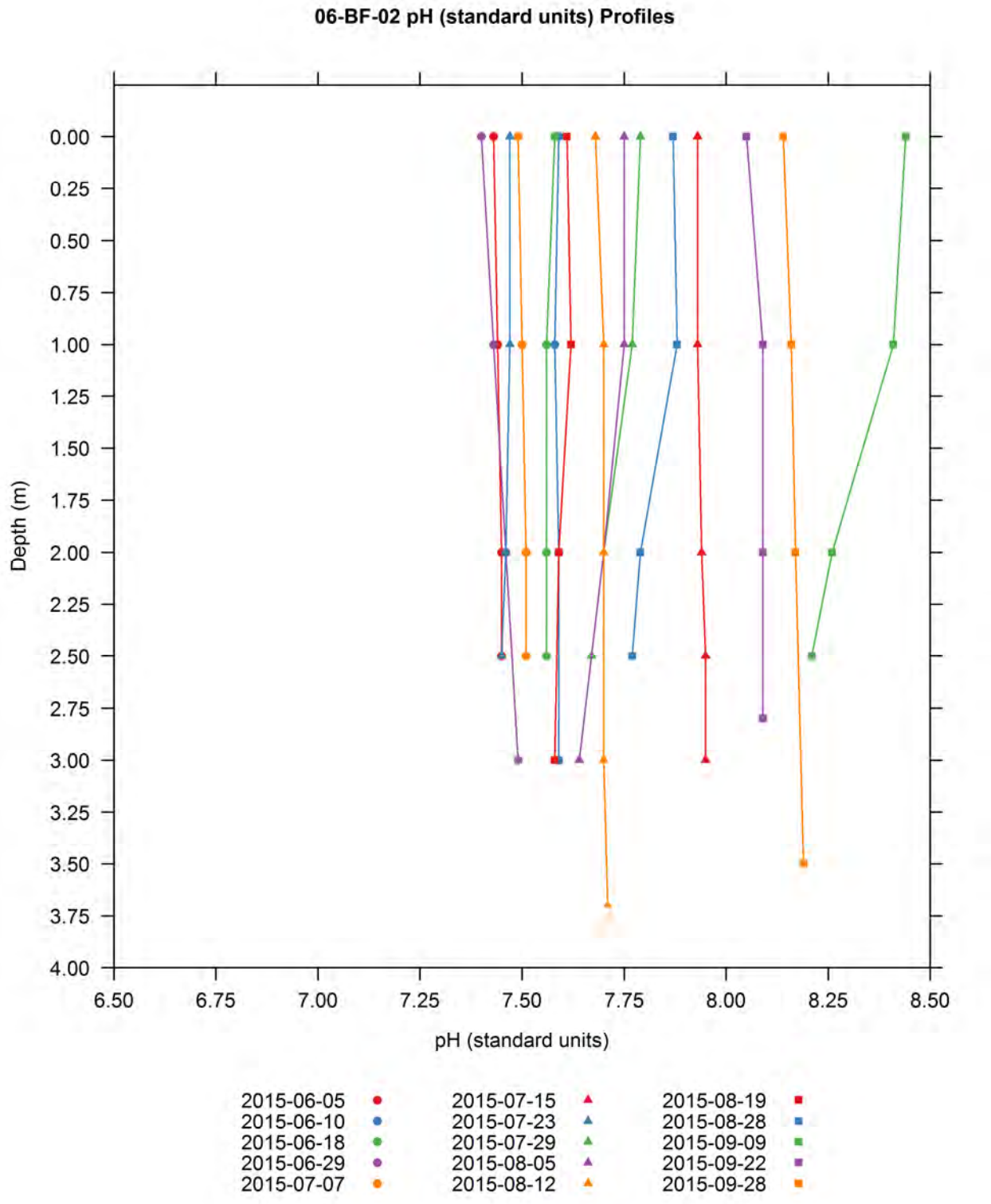

Figure H-47. Vertical profiles of pH (standard units) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

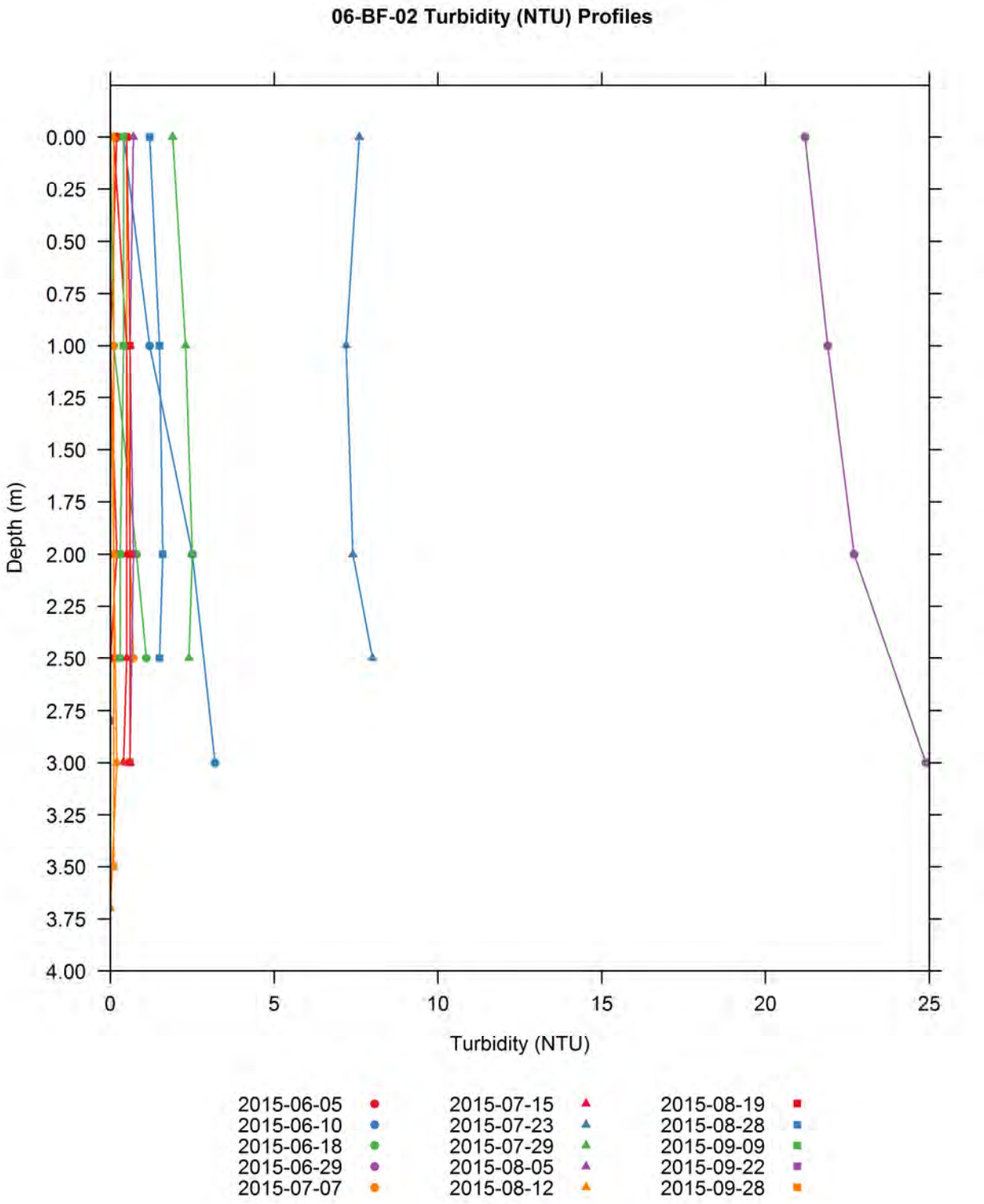

Figure H-48. Vertical profiles of NTU (NTU) collected at the Bellows Falls middle impoundment 06-BF-02 water quality monitoring station.

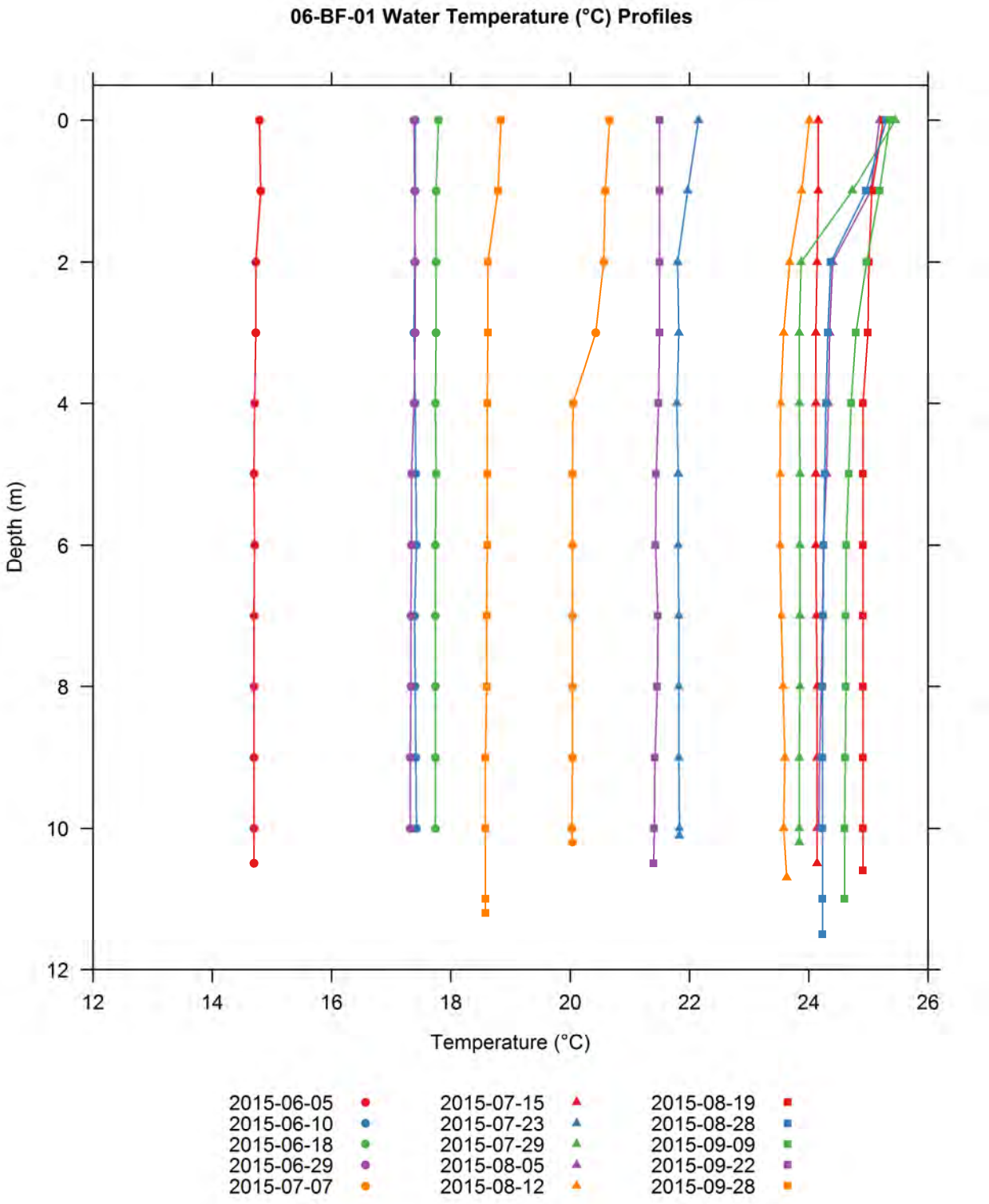

Figure H-49. Vertical profiles of water temperature (°C) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

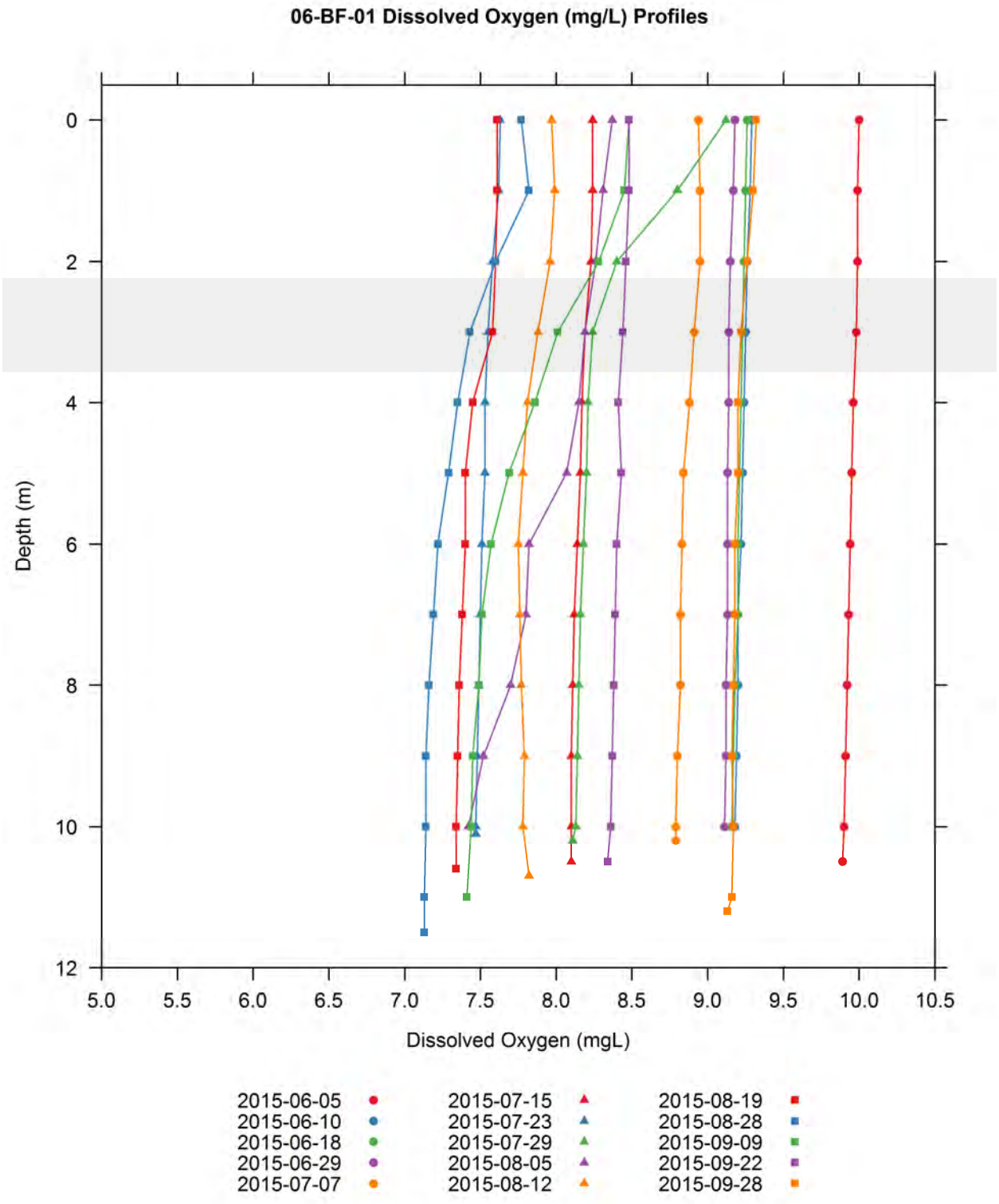

Figure H-50. Vertical profiles of dissolved oxygen (mg/L) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

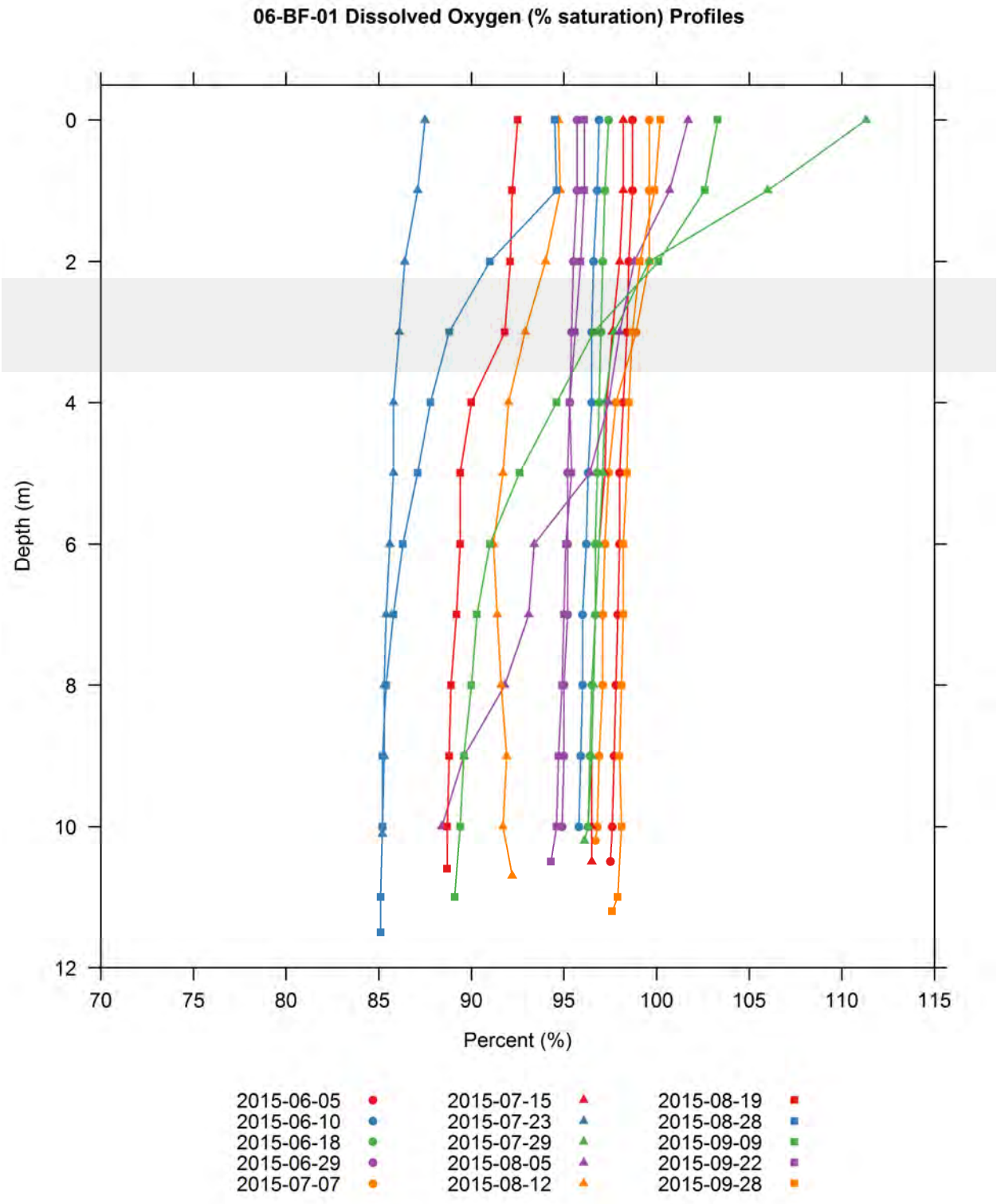

Figure H-51. Vertical profiles of dissolved oxygen (percent saturation) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

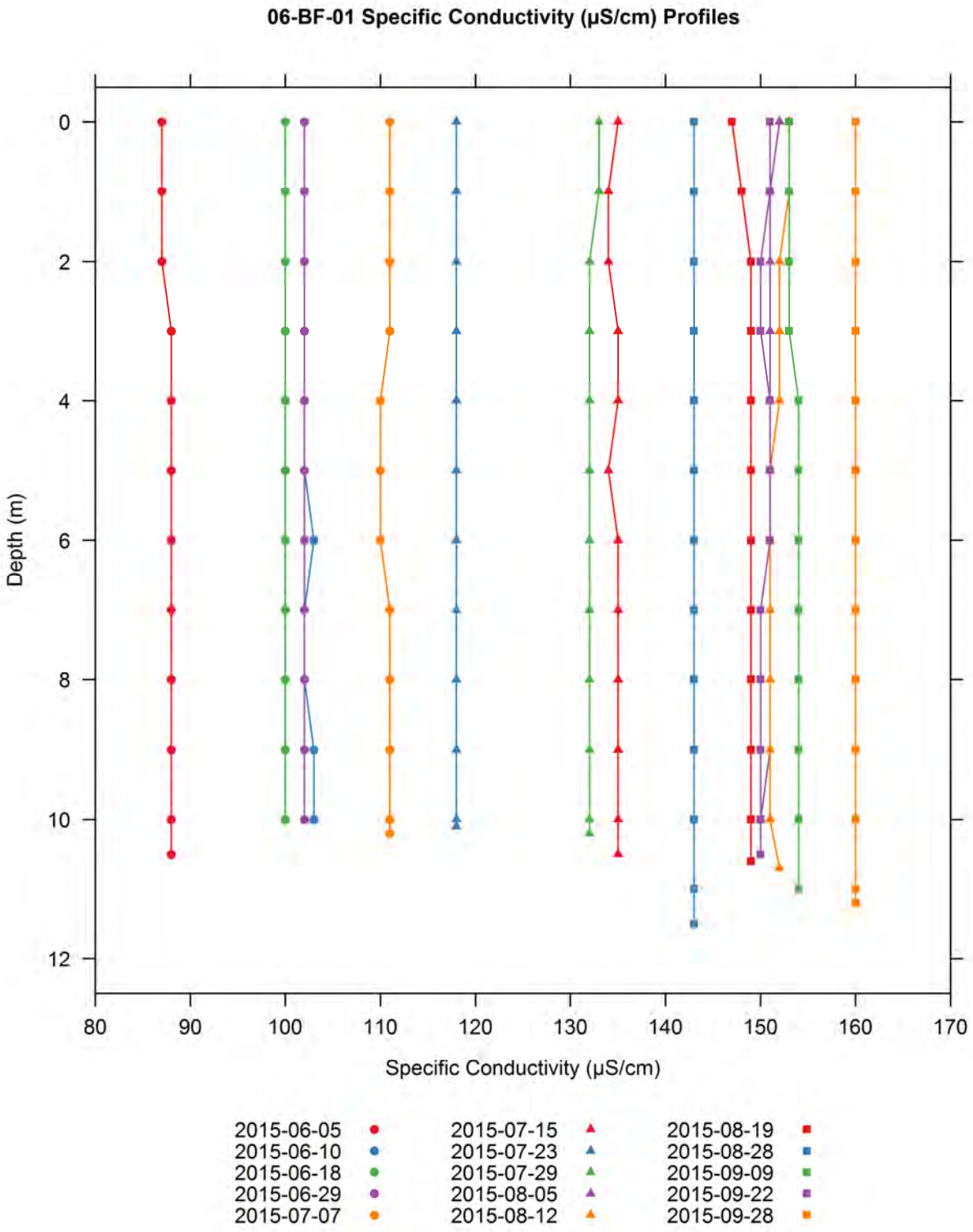

Figure H-52. Vertical profiles of specific conductivity (µS/cm) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

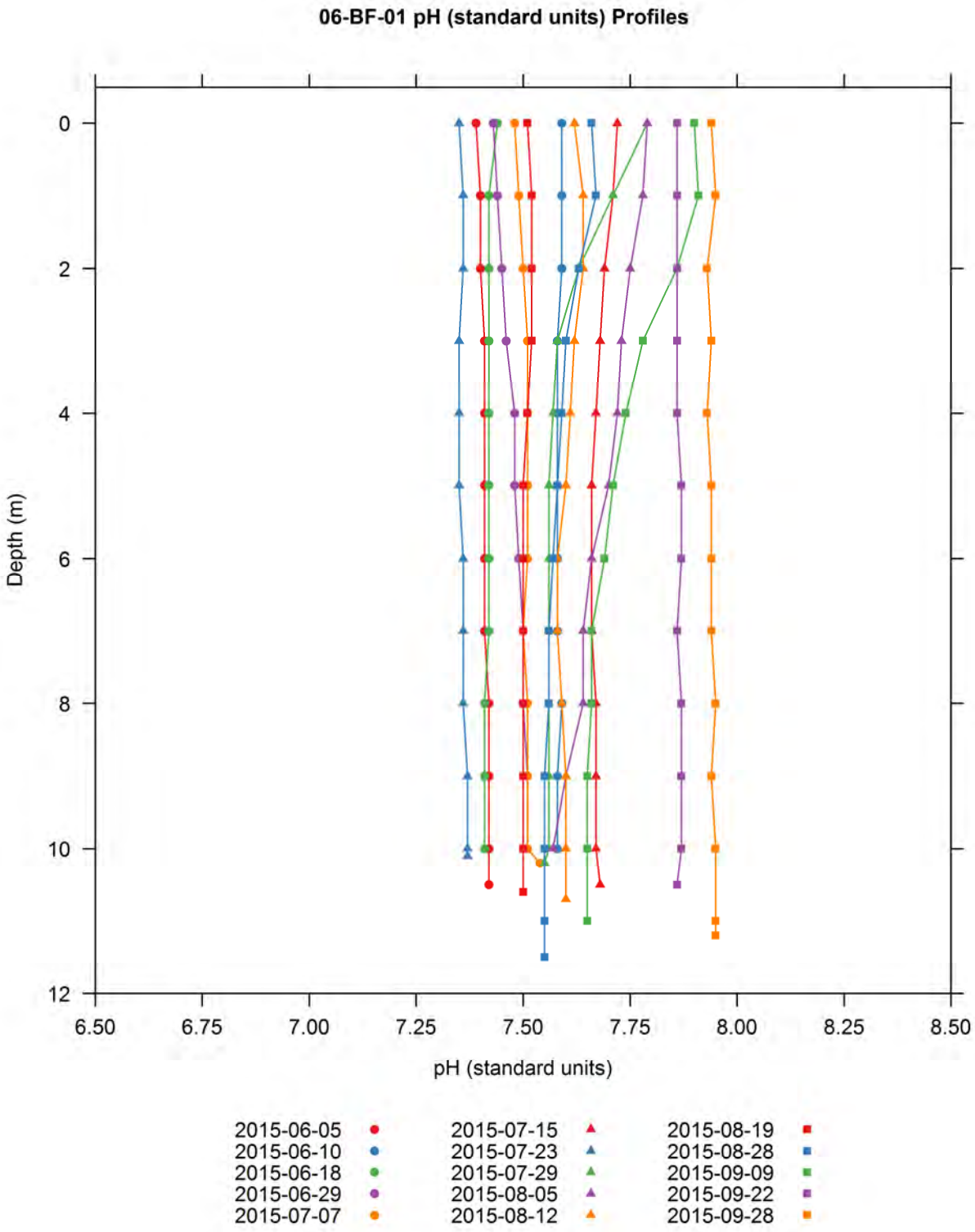

Figure H-53. Vertical profiles of pH (standard units) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

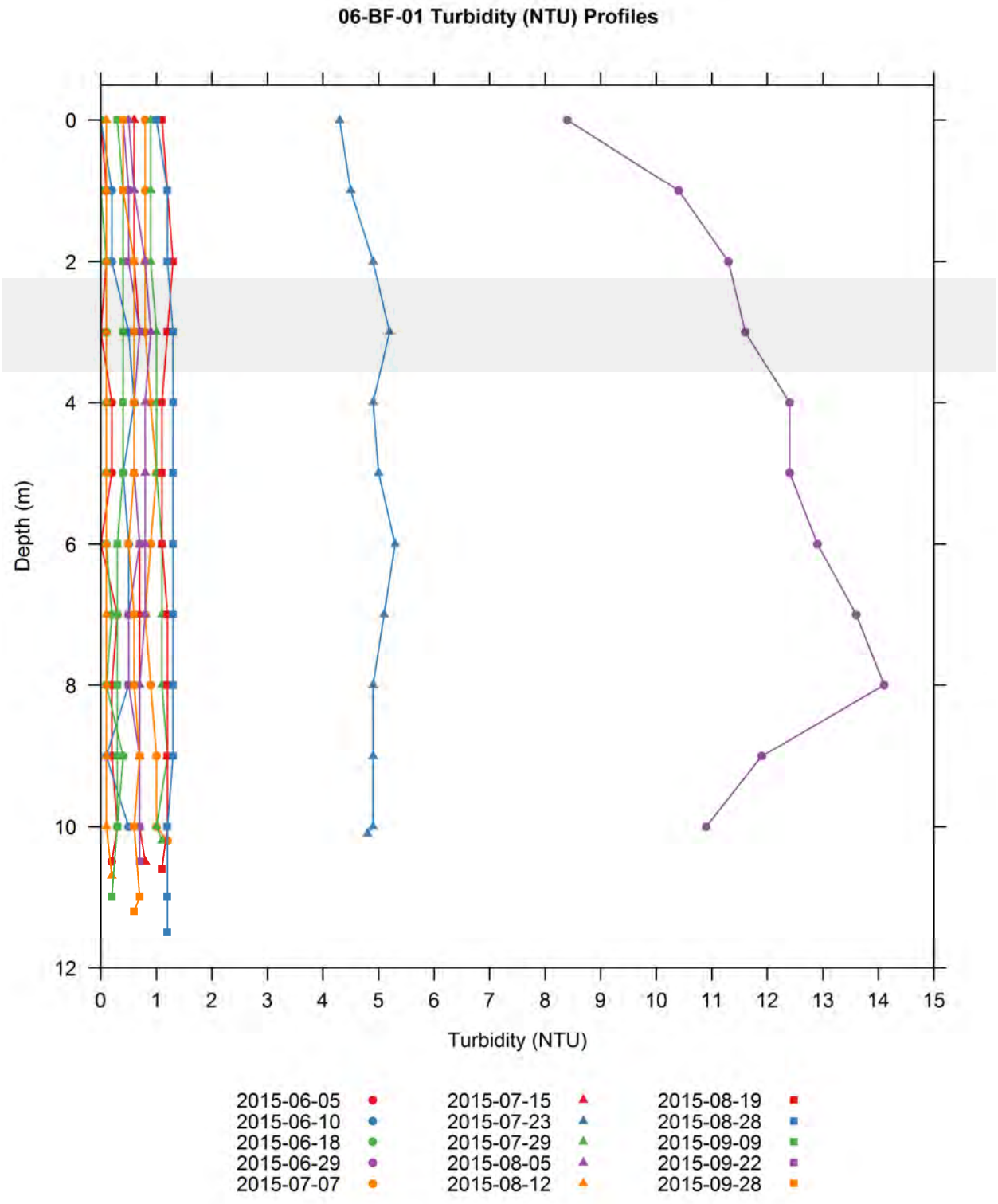

Figure H-54. Vertical profiles of NTU (NTU) collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station.

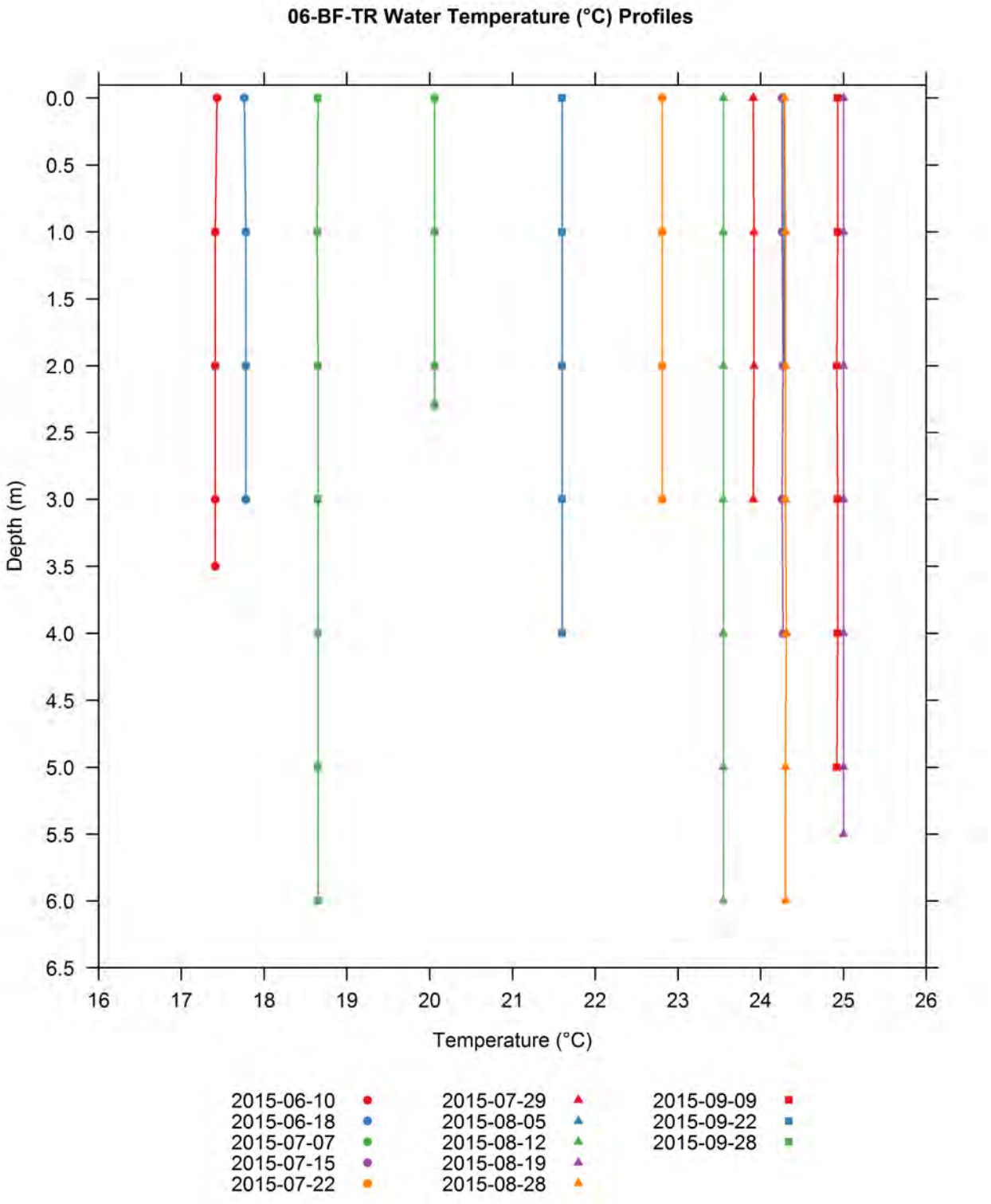

Figure H-55. Vertical profiles of water temperature (°C) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

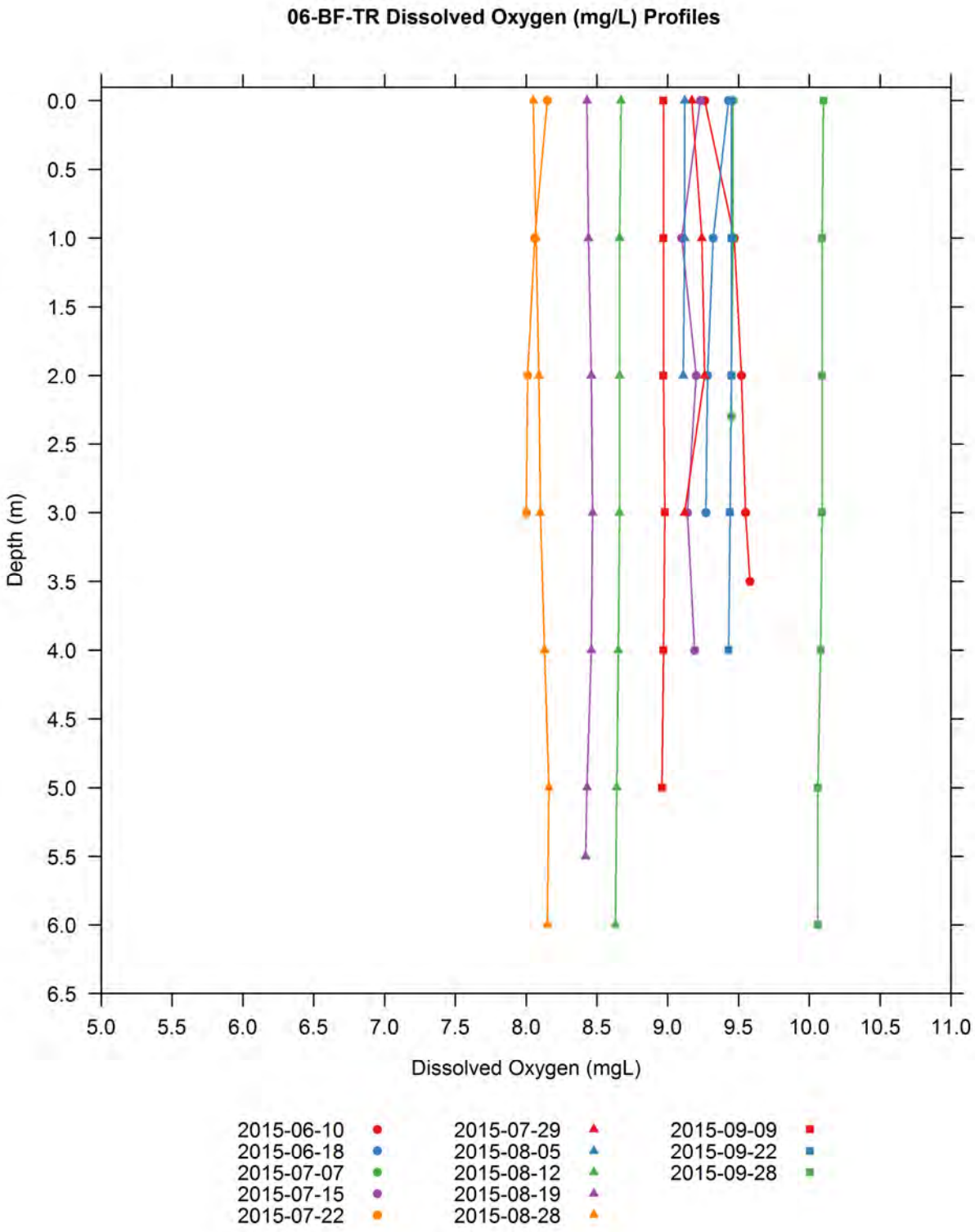

Figure H-56. Vertical profiles of dissolved oxygen (mg/L) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

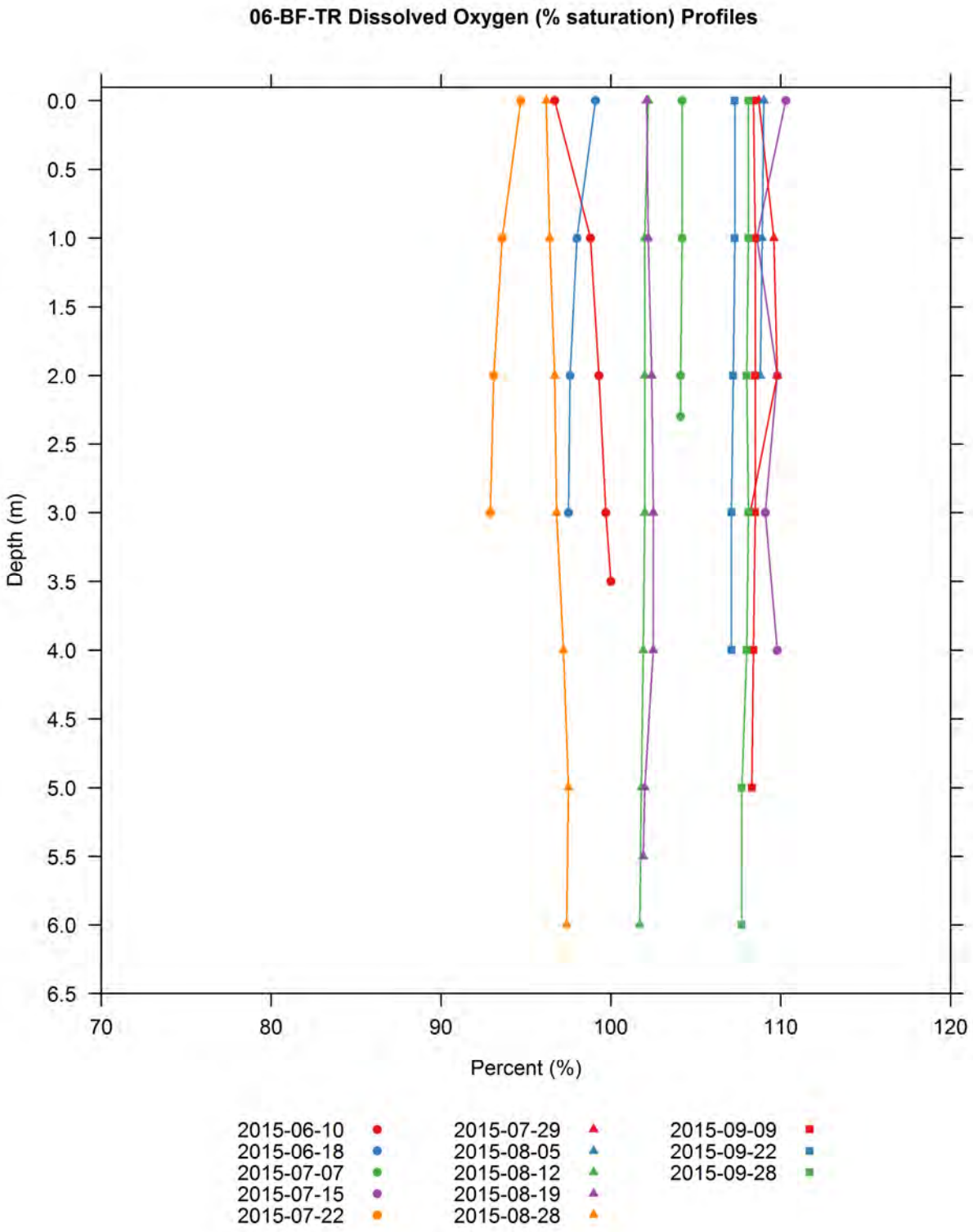

Figure H-57. Vertical profiles of dissolved oxygen (percent saturation) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

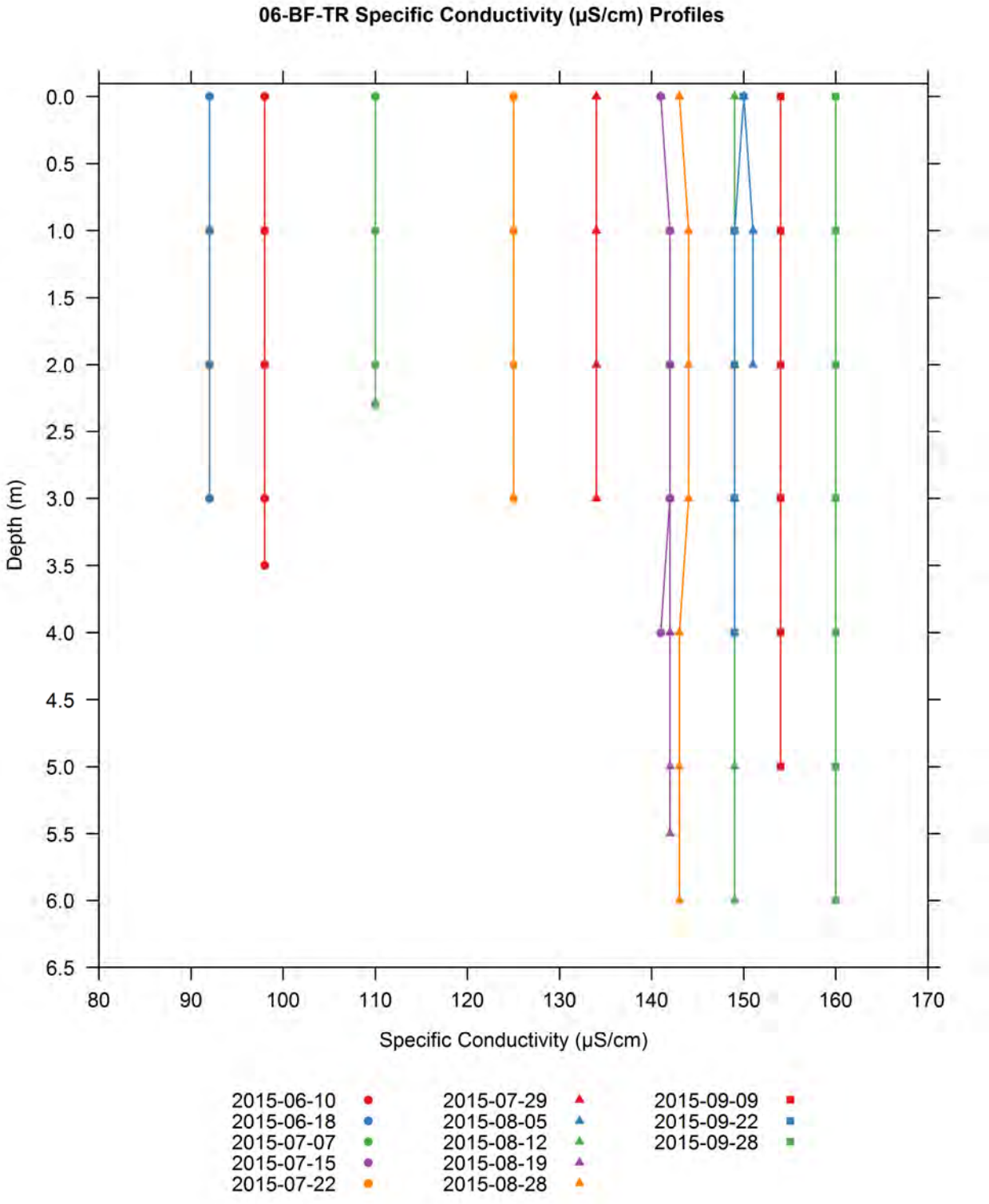

Figure H-58. Vertical profiles of specific conductivity (µS/cm) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

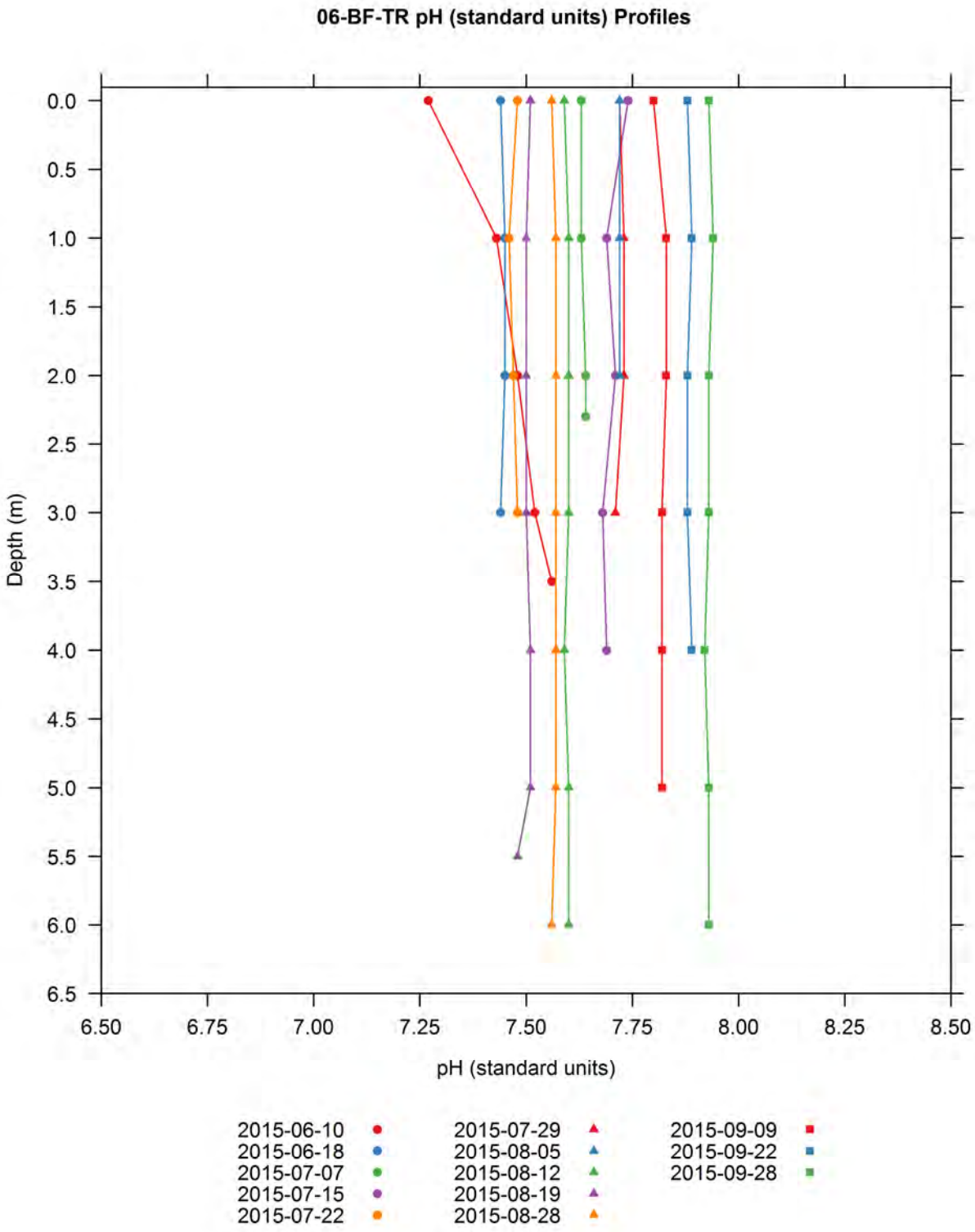

Figure H-59. Vertical profiles of pH (standard units) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

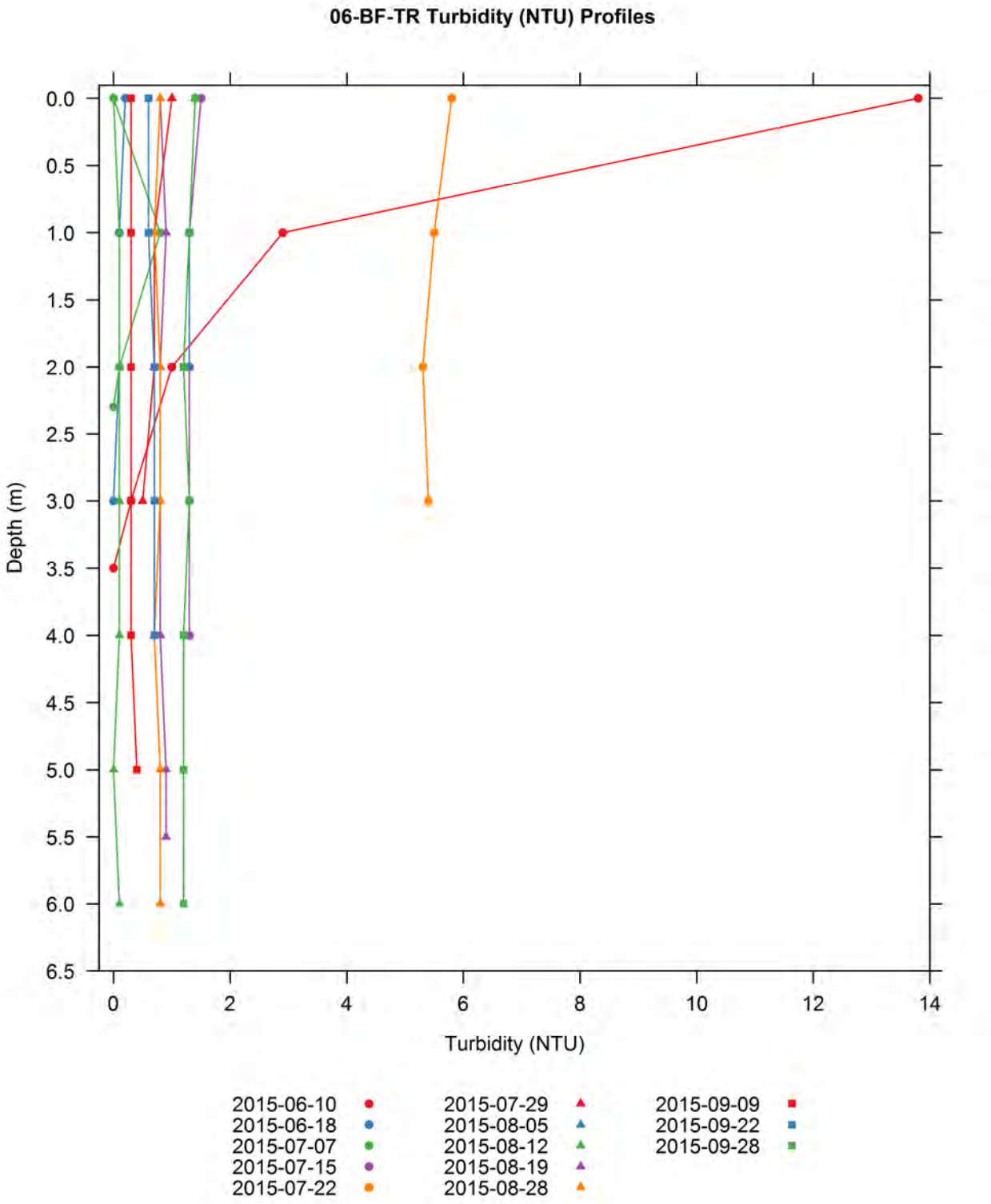

Figure H-60. Vertical profiles of turbidity (NTU) collected at the Bellows Falls tailrace 06-BF-TR water quality monitoring station.

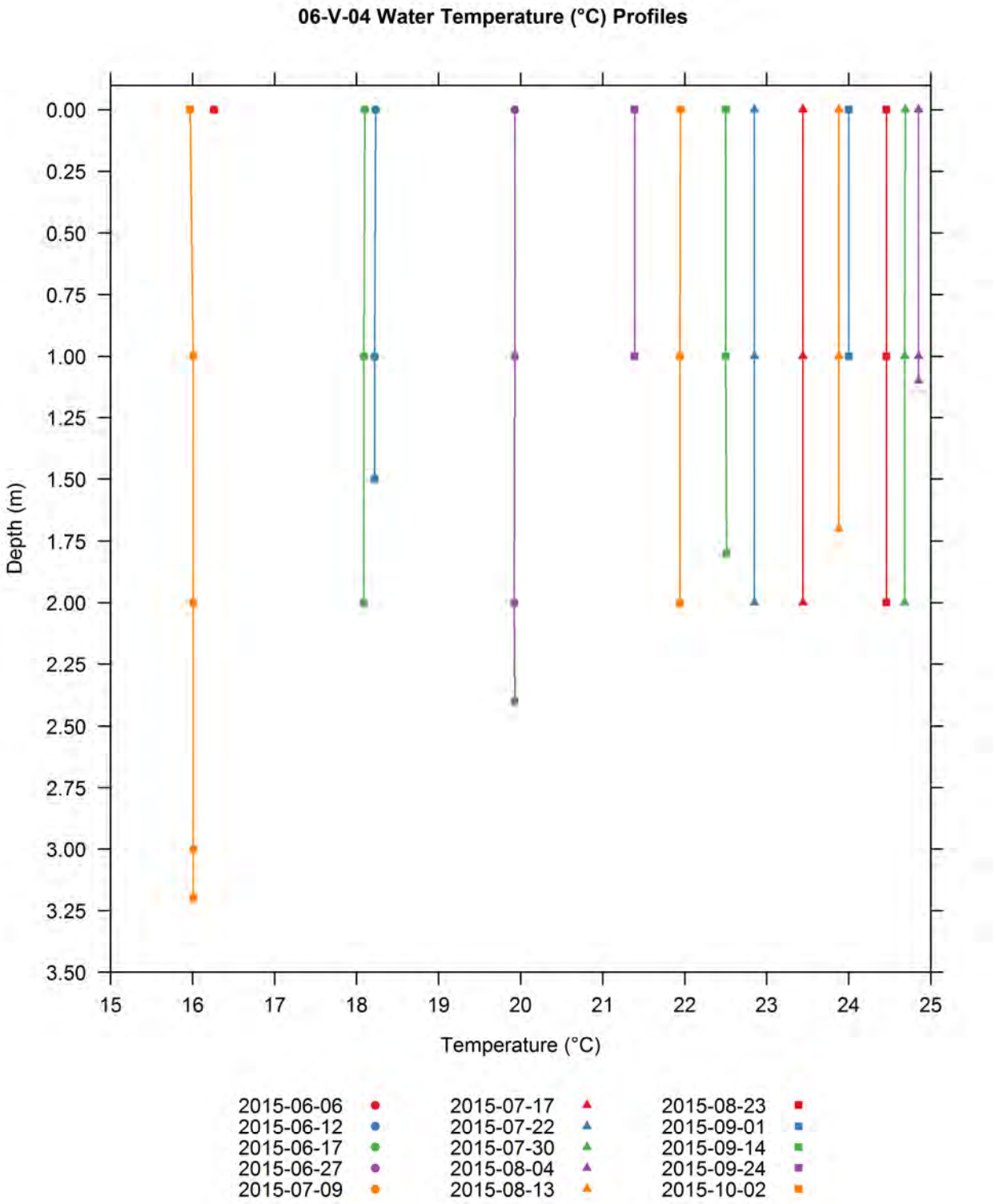

Figure H-61. Vertical profiles of water temperature (°C) collected at the Vernon upstream 06-V-04 water quality monitoring station.

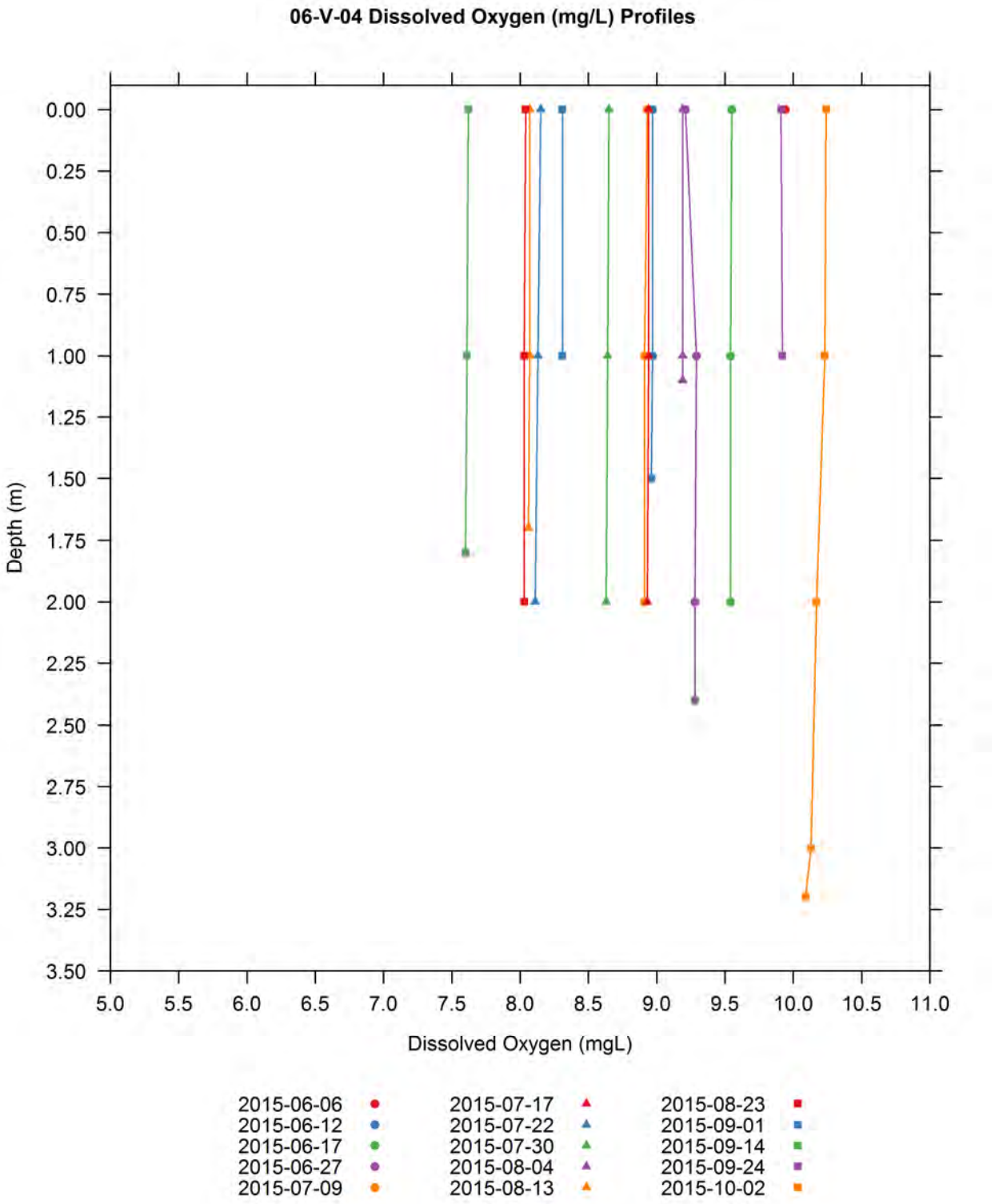

Figure H-62. Vertical profiles of dissolved oxygen (mg/L) collected at the Vernon upstream 06-V-04 water quality monitoring station.

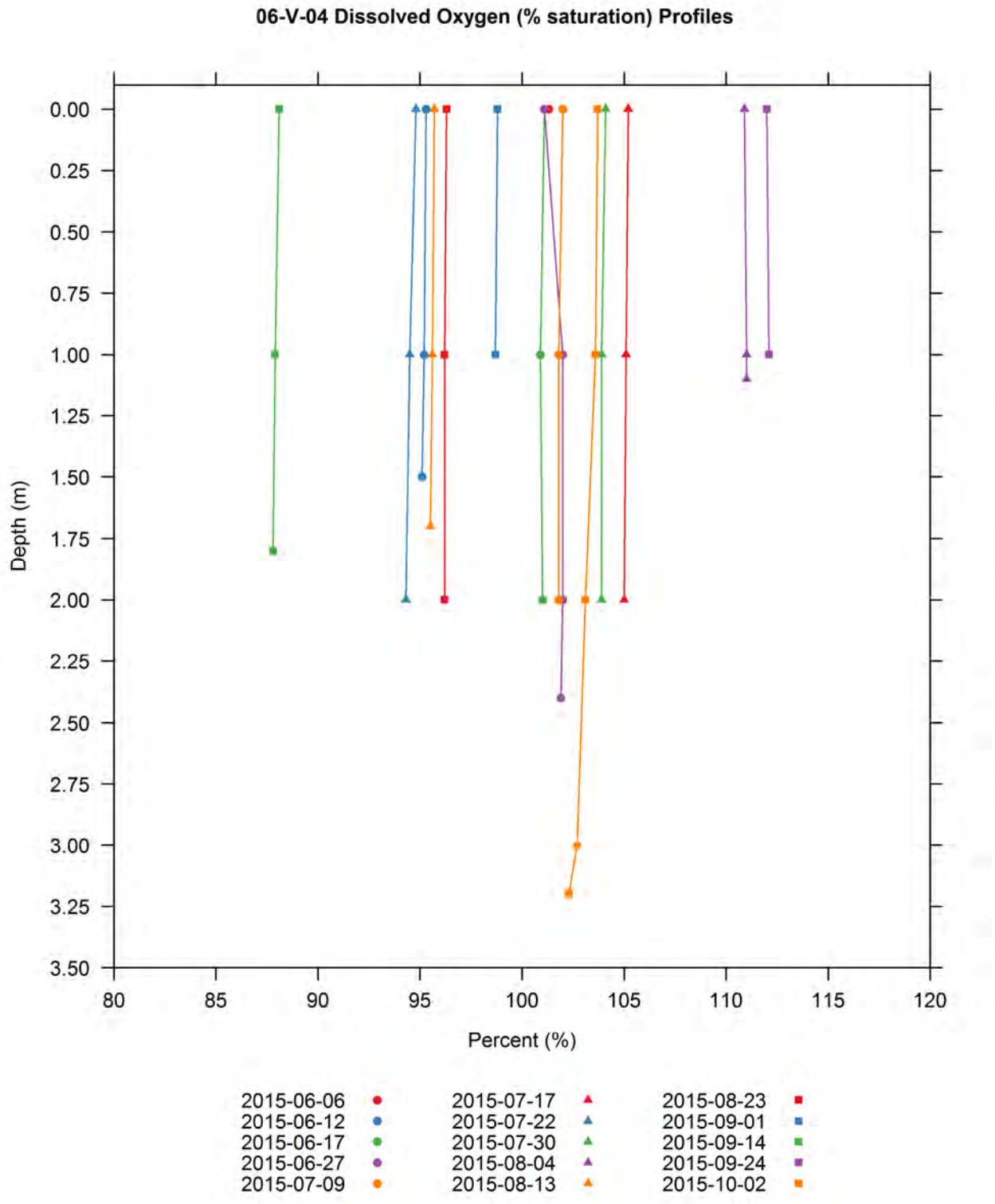

Figure H-63. Vertical profiles of dissolved oxygen (percent saturation) collected at the Vernon upstream 06-V-04 water quality monitoring station.

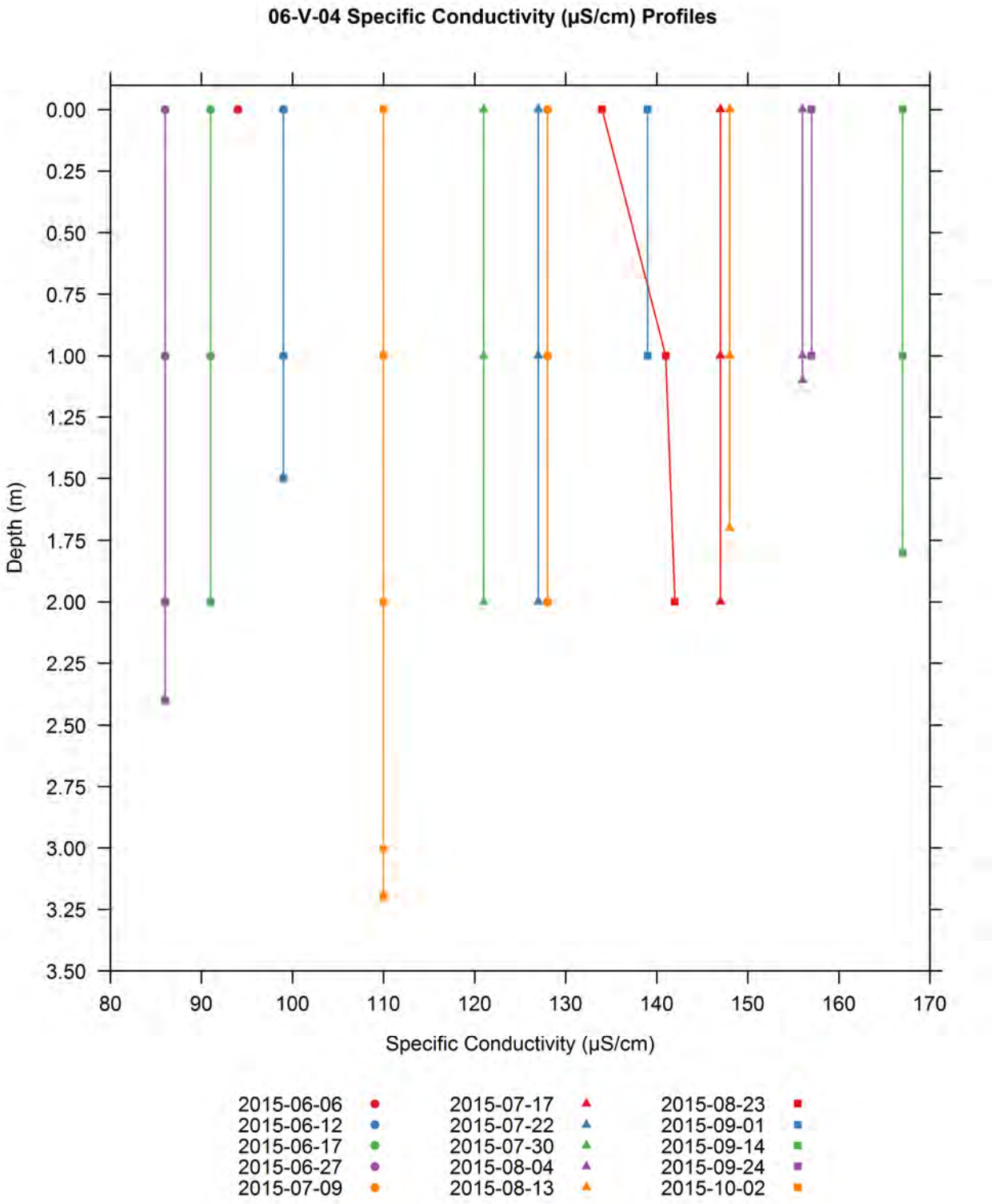

Figure H-64. Vertical profiles of specific conductivity (µS/cm) collected at the Vernon upstream 06-V-04 water quality monitoring station.

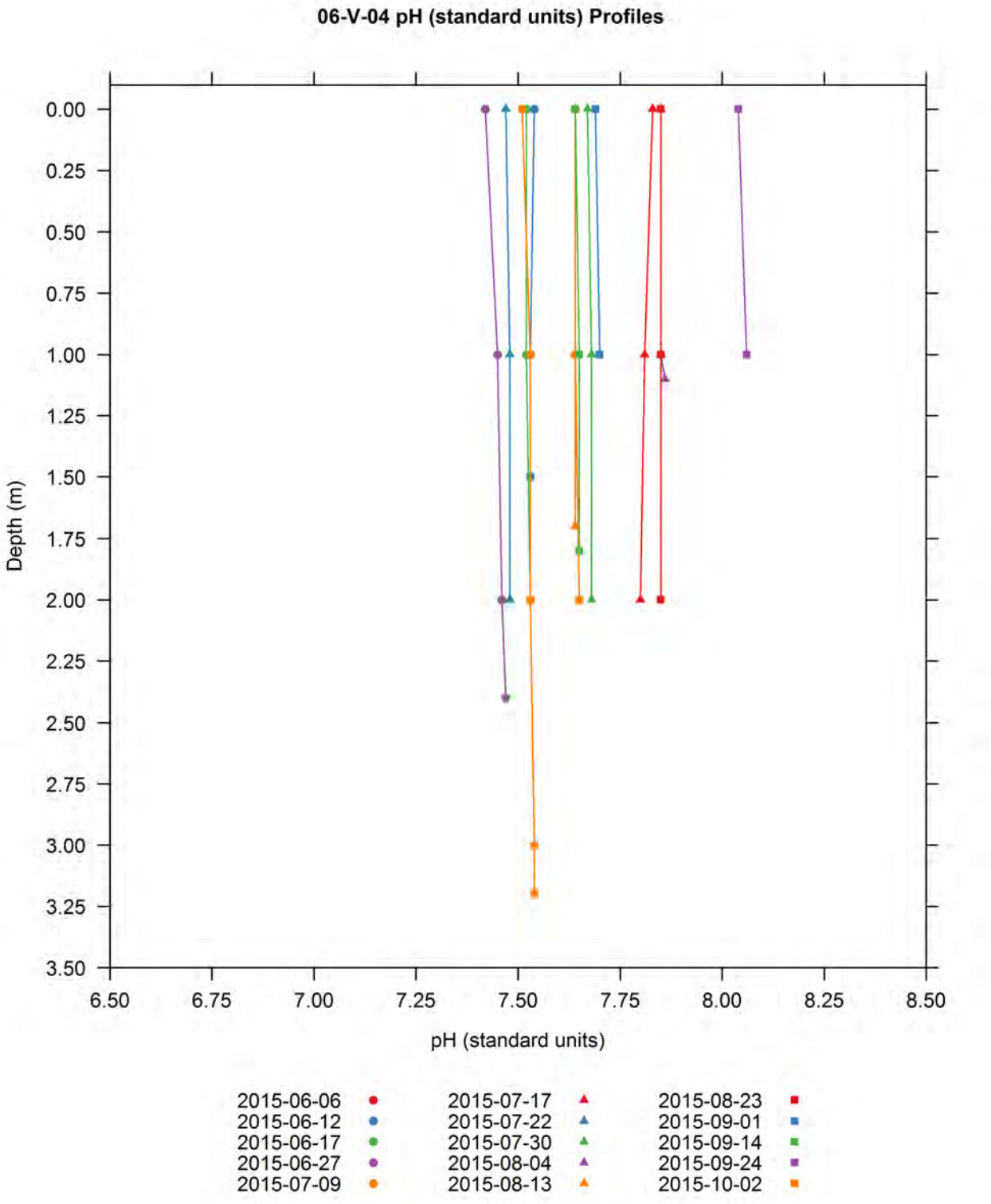

Figure H-65. Vertical profiles of pH (standard units) collected at the Vernon upstream 06-V-04 water quality monitoring station.

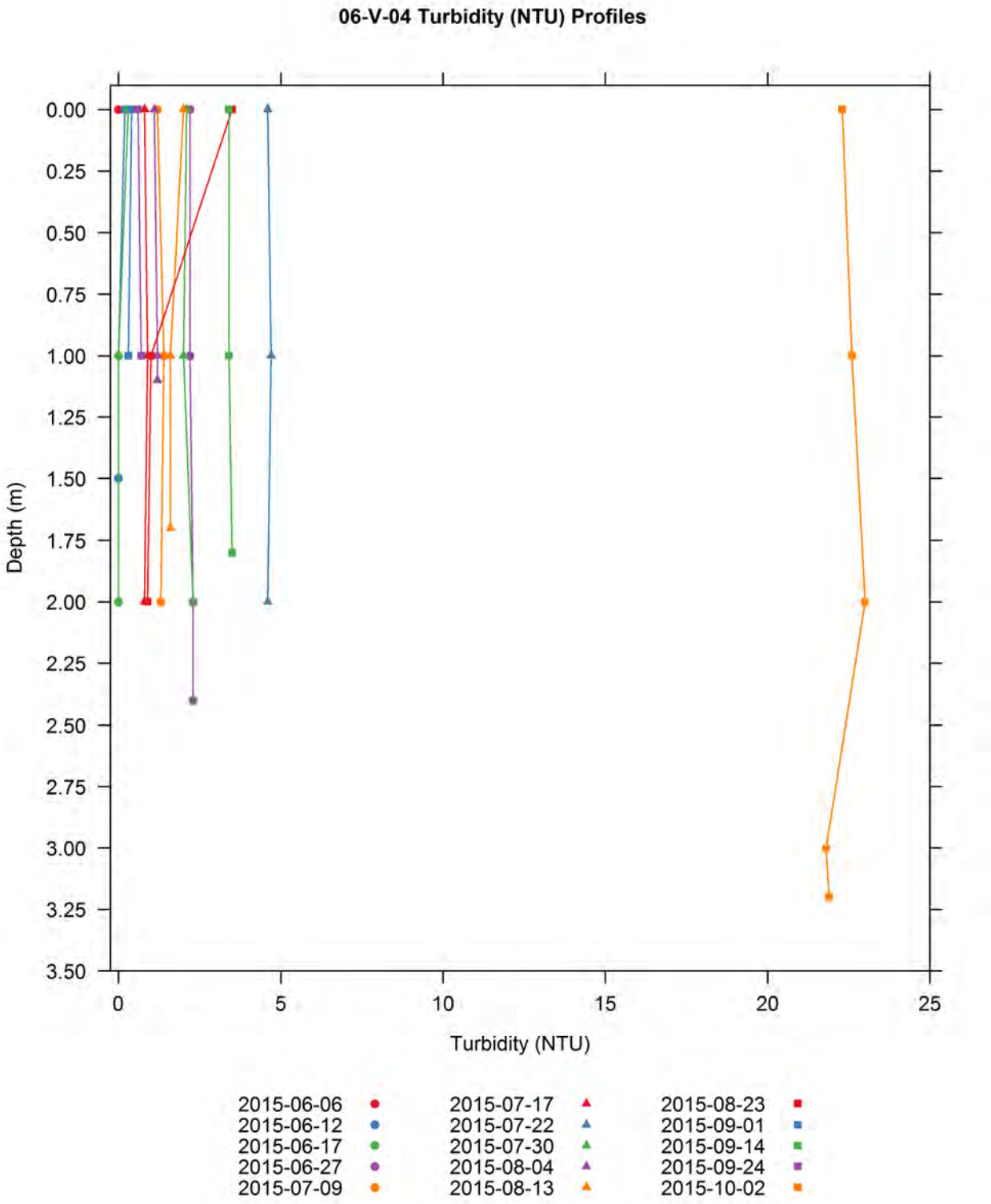

Figure H-66. Vertical profiles of turbidity (NTU) collected at the Vernon upstream 06-V-04 water quality monitoring station.

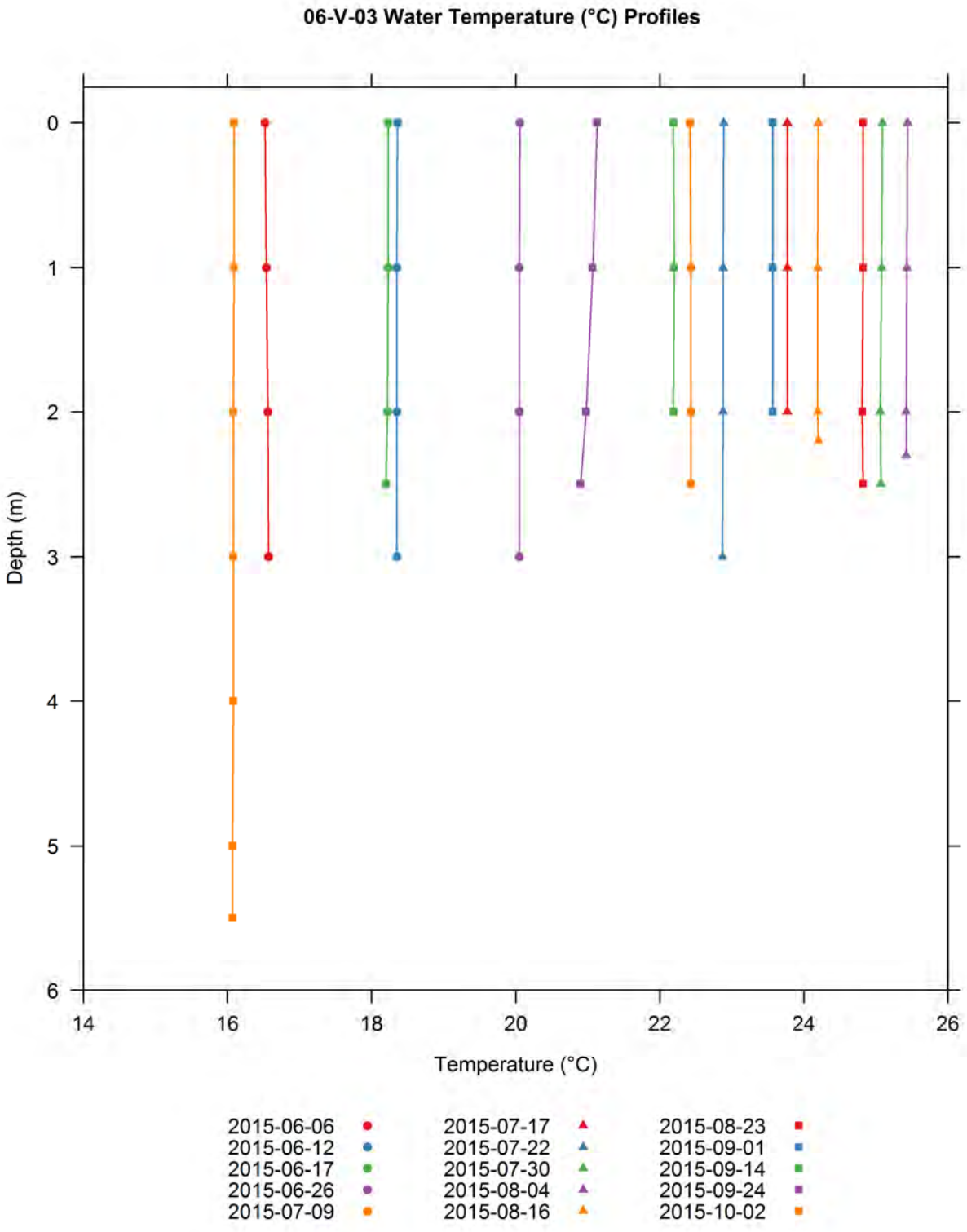

Figure H-67. Vertical profiles of water temperature (°C) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

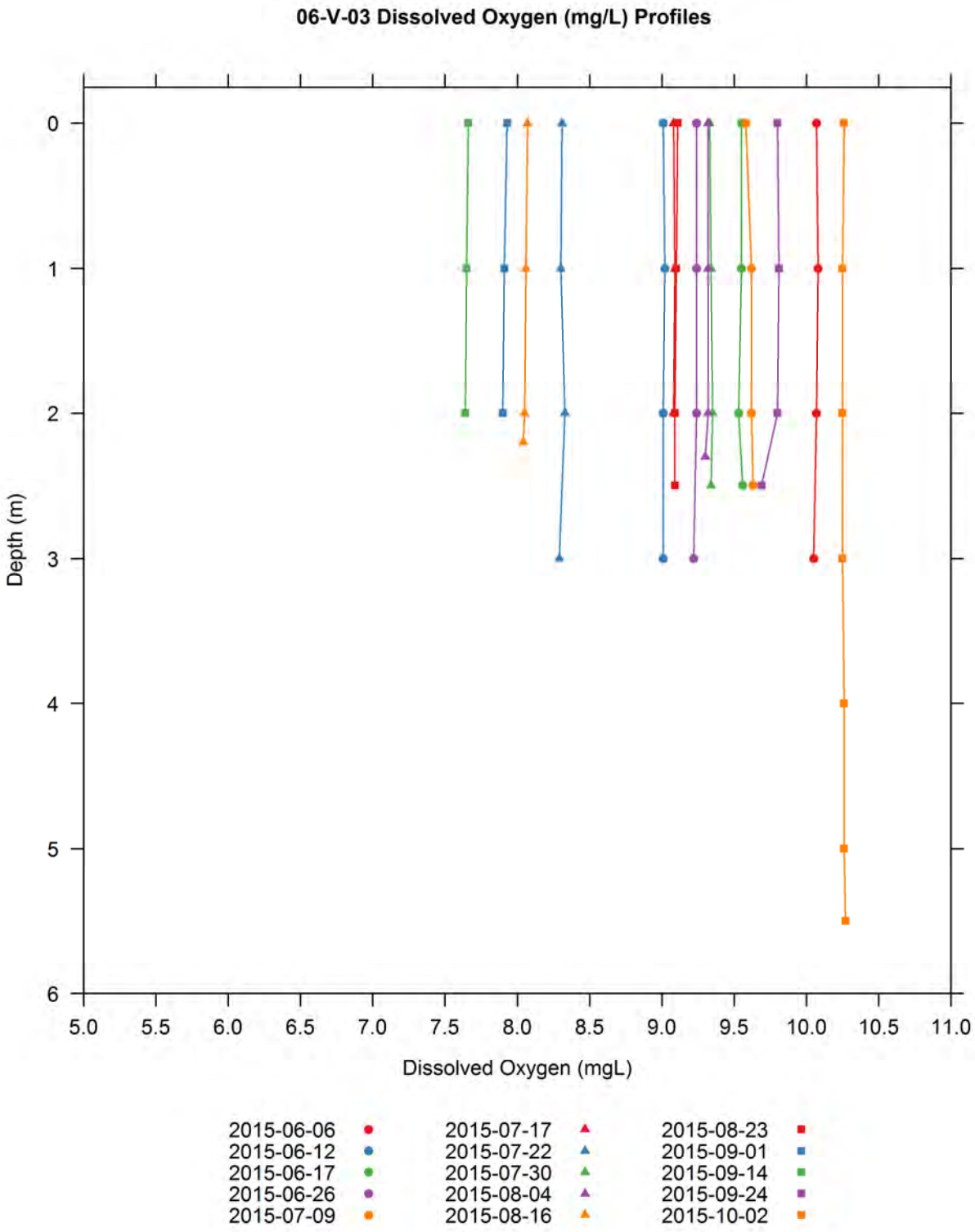

Figure H-68. Vertical profiles of dissolved oxygen (mg/L) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

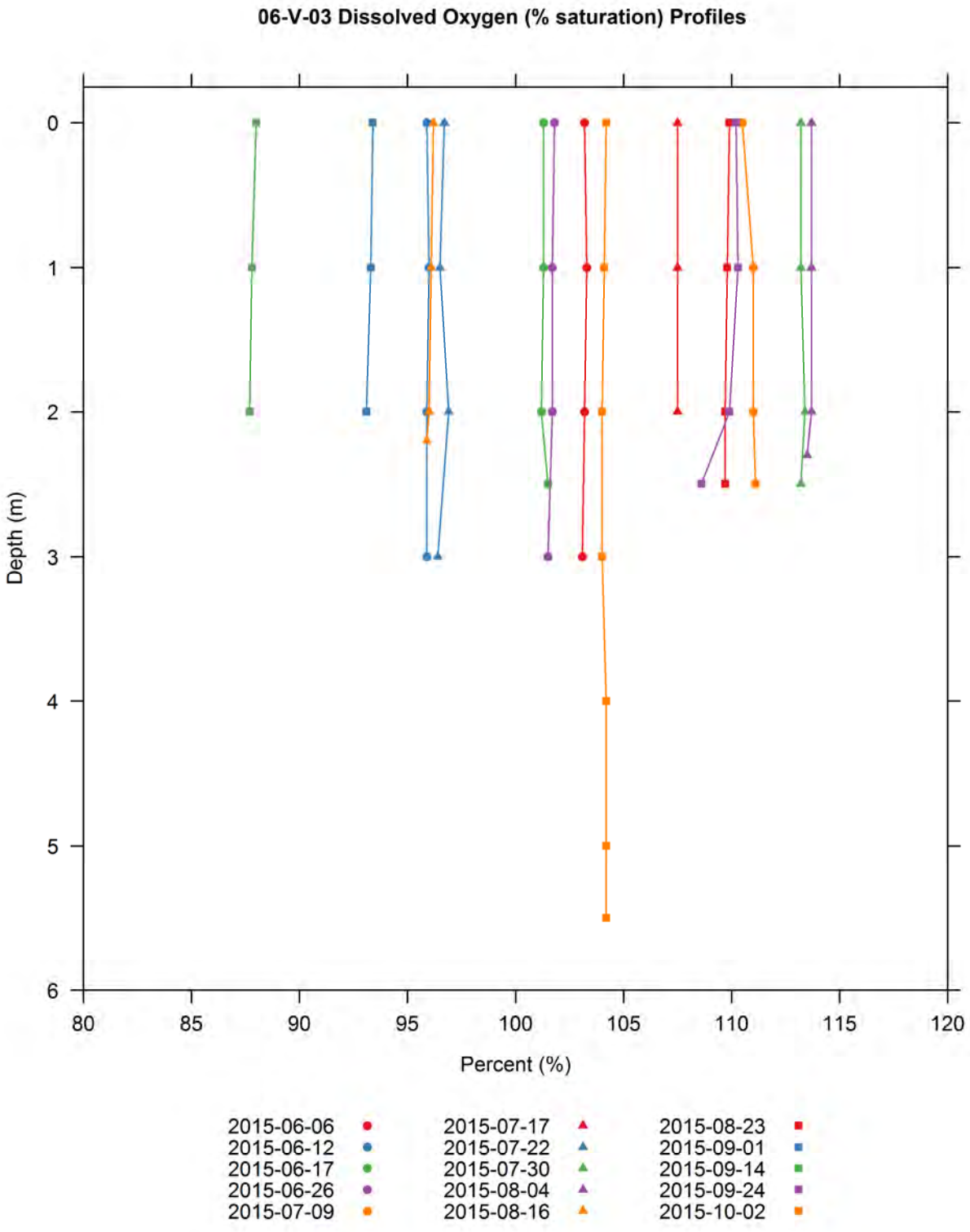

Figure H-69. Vertical profiles of dissolved oxygen (percent saturation) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

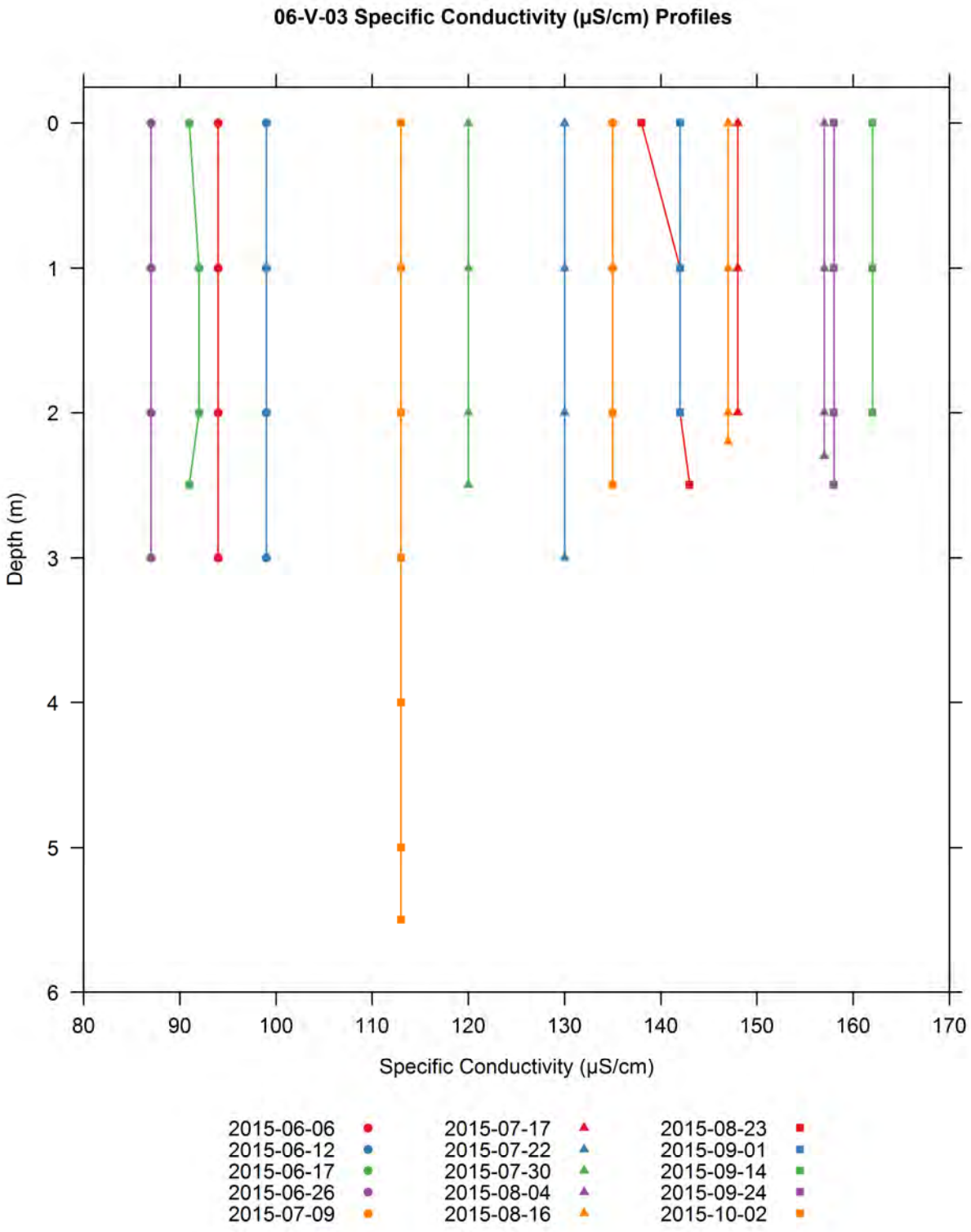

Figure H-70. Vertical profiles of specific conductivity (µS/cm) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

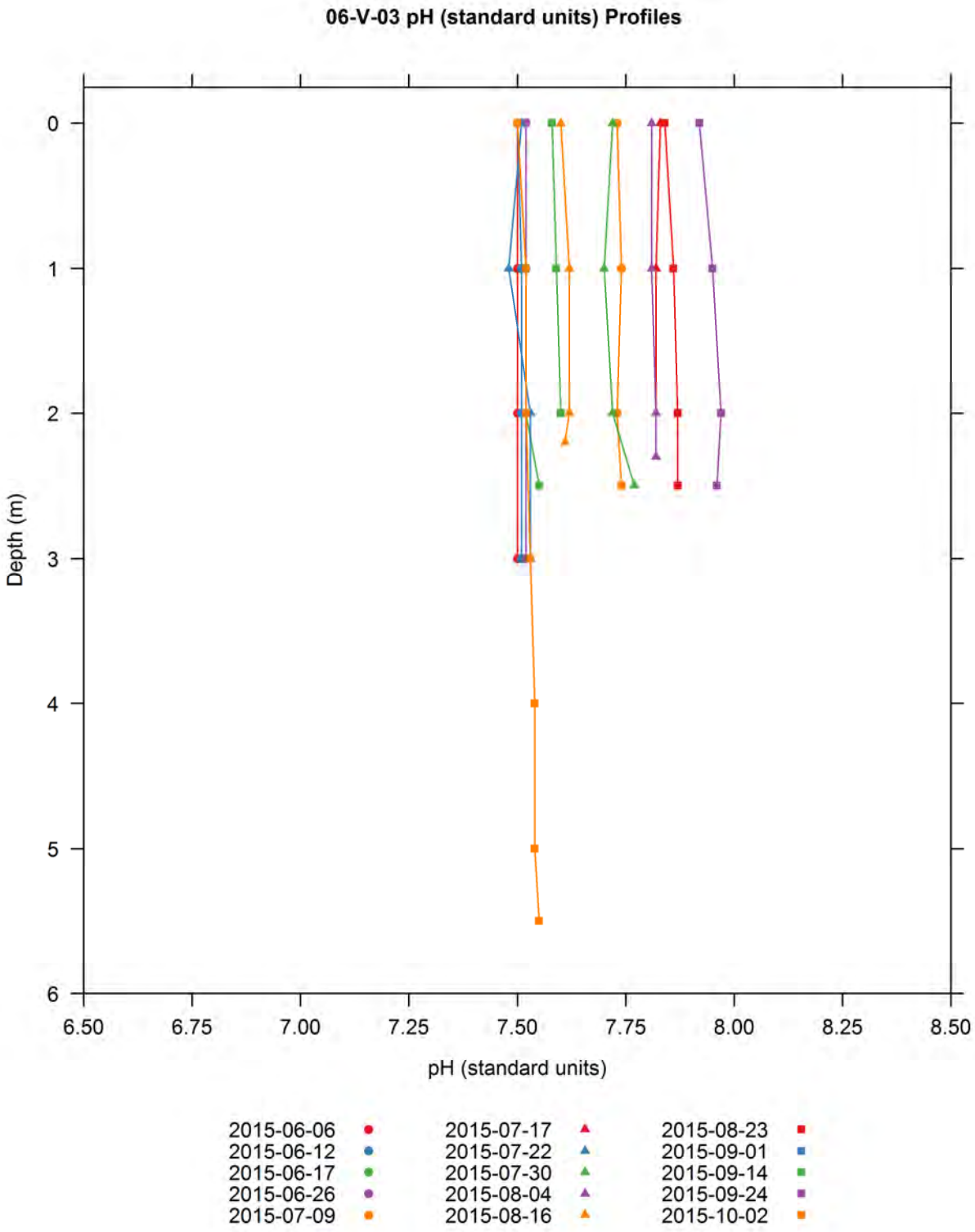

Figure H-71. Vertical profiles of pH (standard units) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

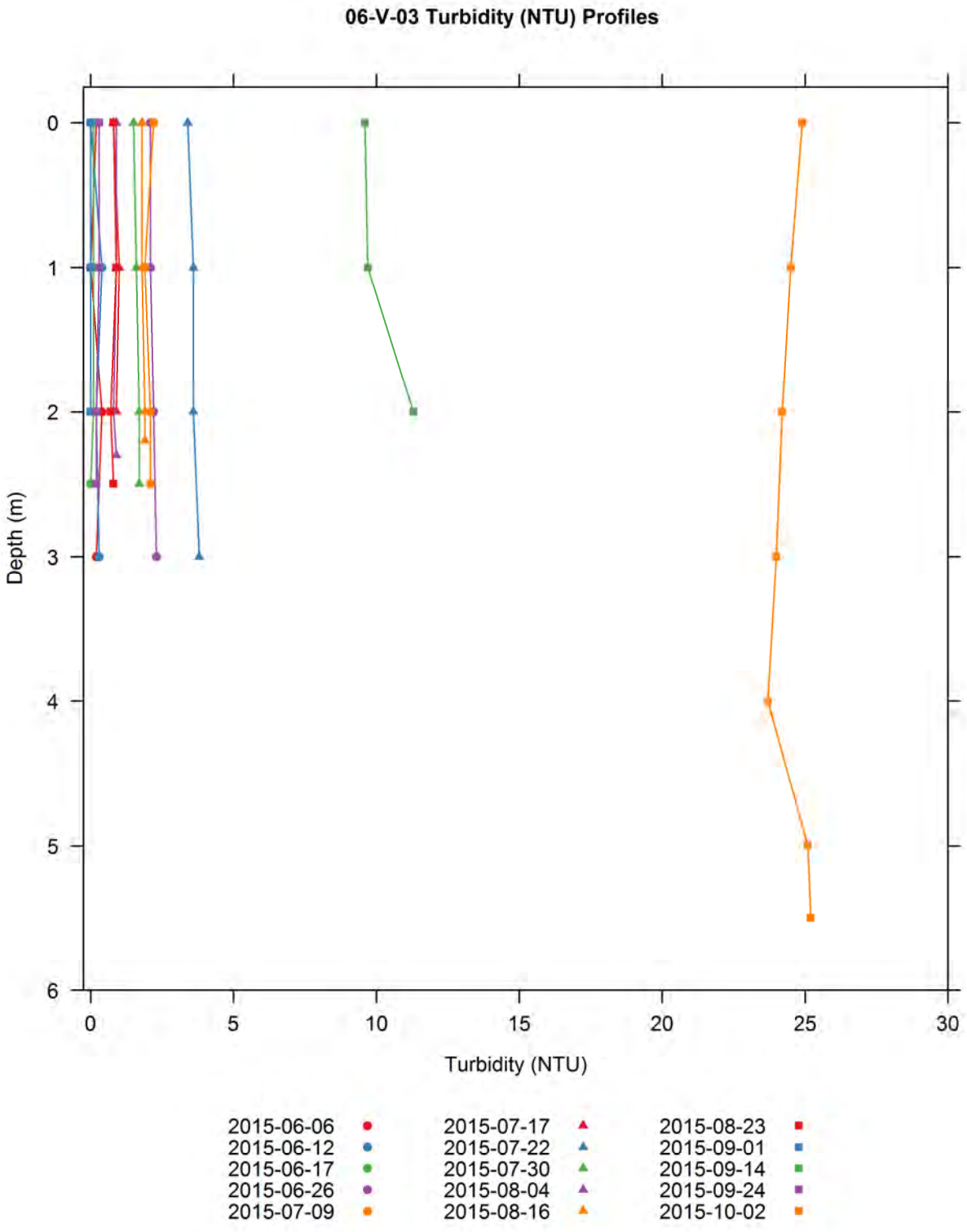

Figure H-72. Vertical profiles of turbidity (NTU) collected at the Vernon upper impoundment 06-V-03 water quality monitoring station.

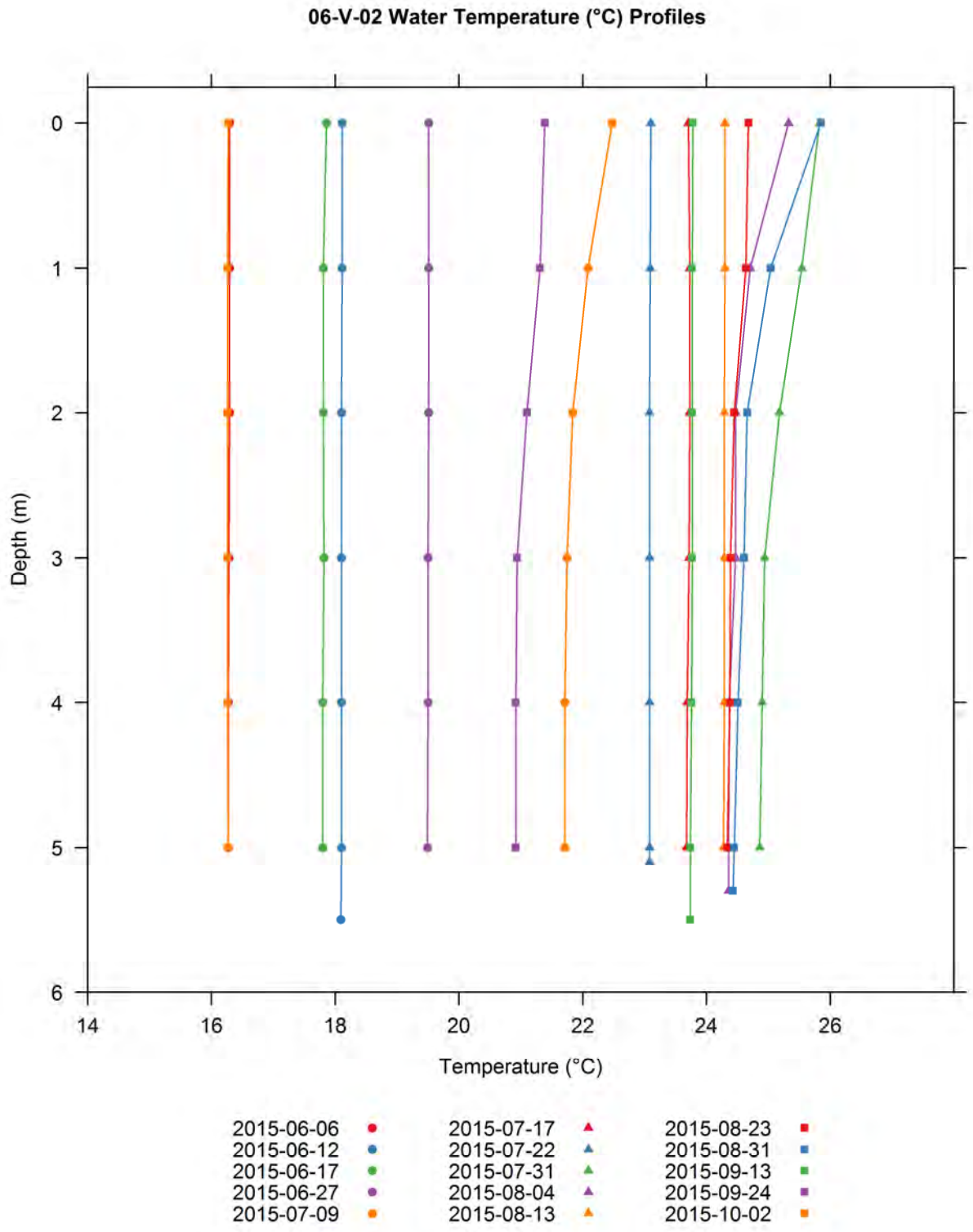

Figure H-73. Vertical profiles of water temperature (°C) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

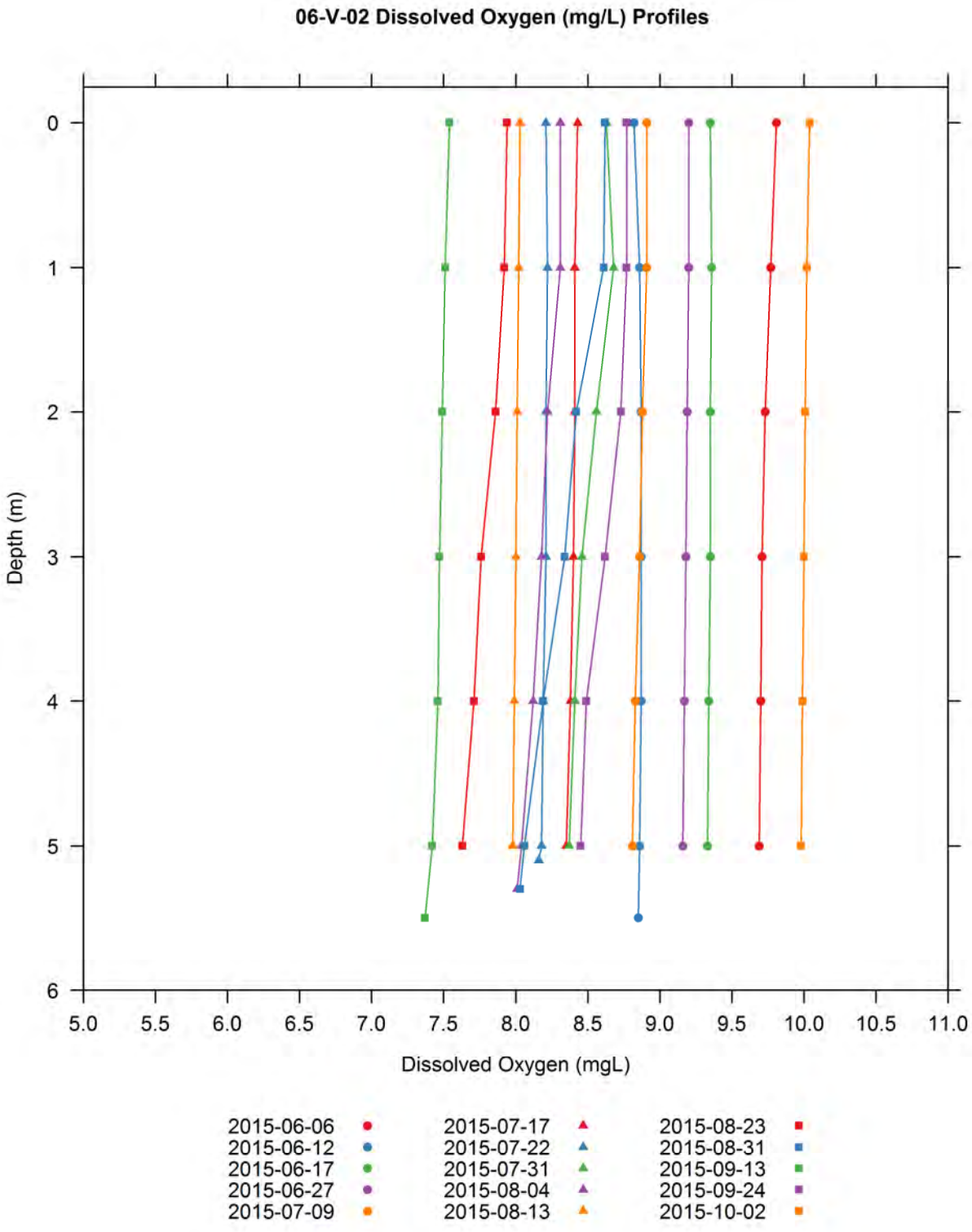

Figure H-74. Vertical profiles of dissolved oxygen (mg/L) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

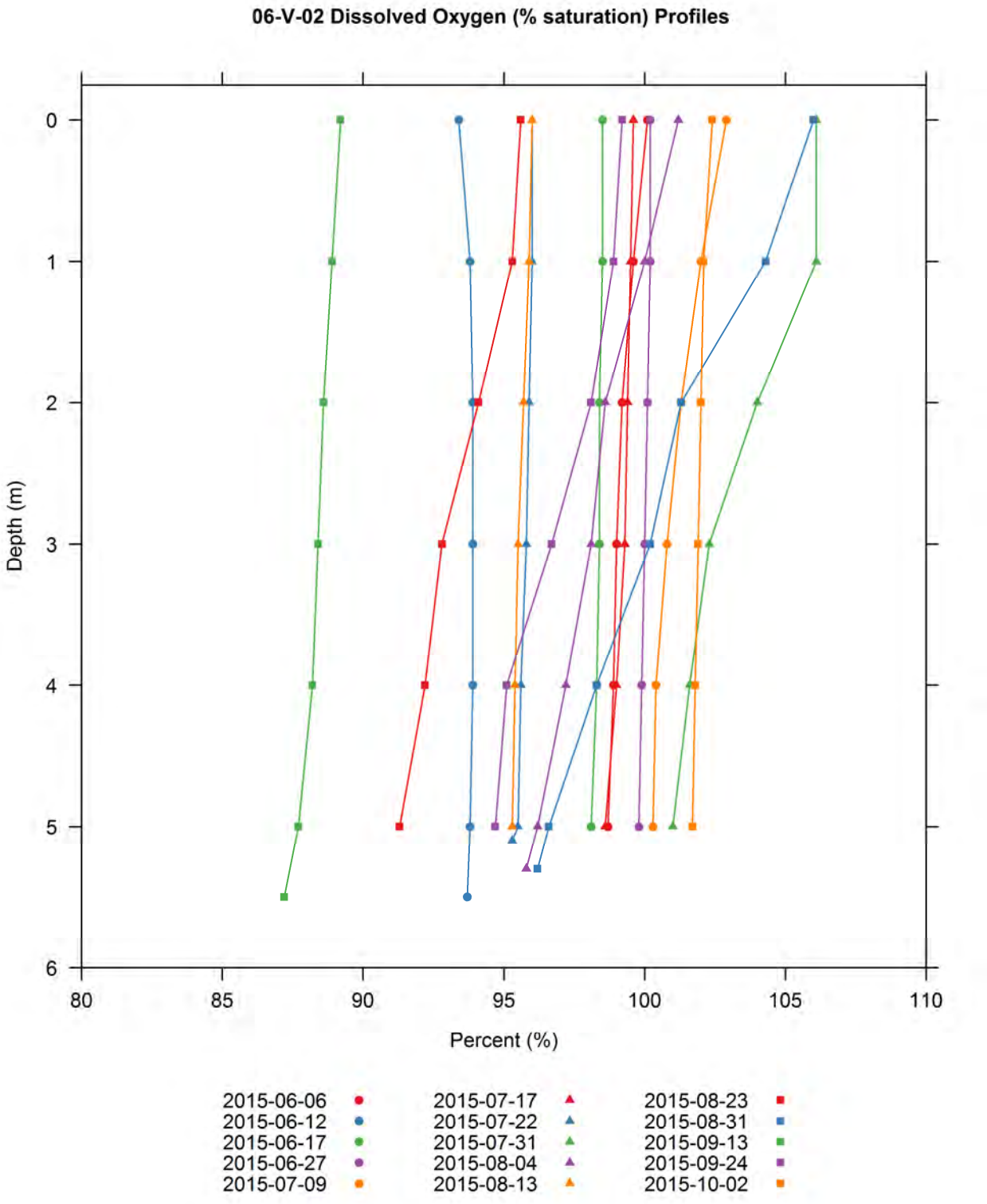

Figure H-75. Vertical profiles of dissolved oxygen (percent saturation) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

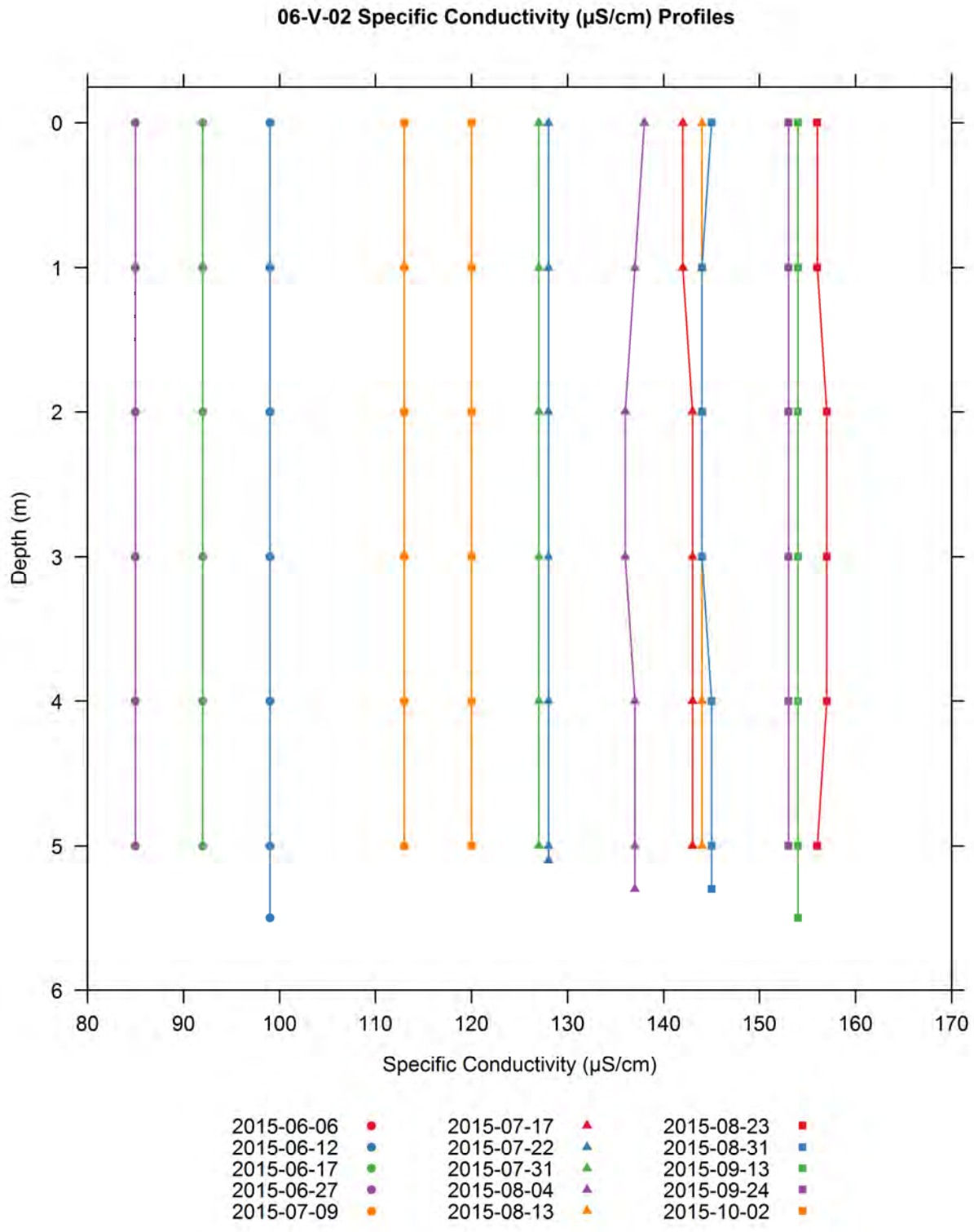

Figure H-76. Vertical profiles of specific conductivity (µS/cm) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

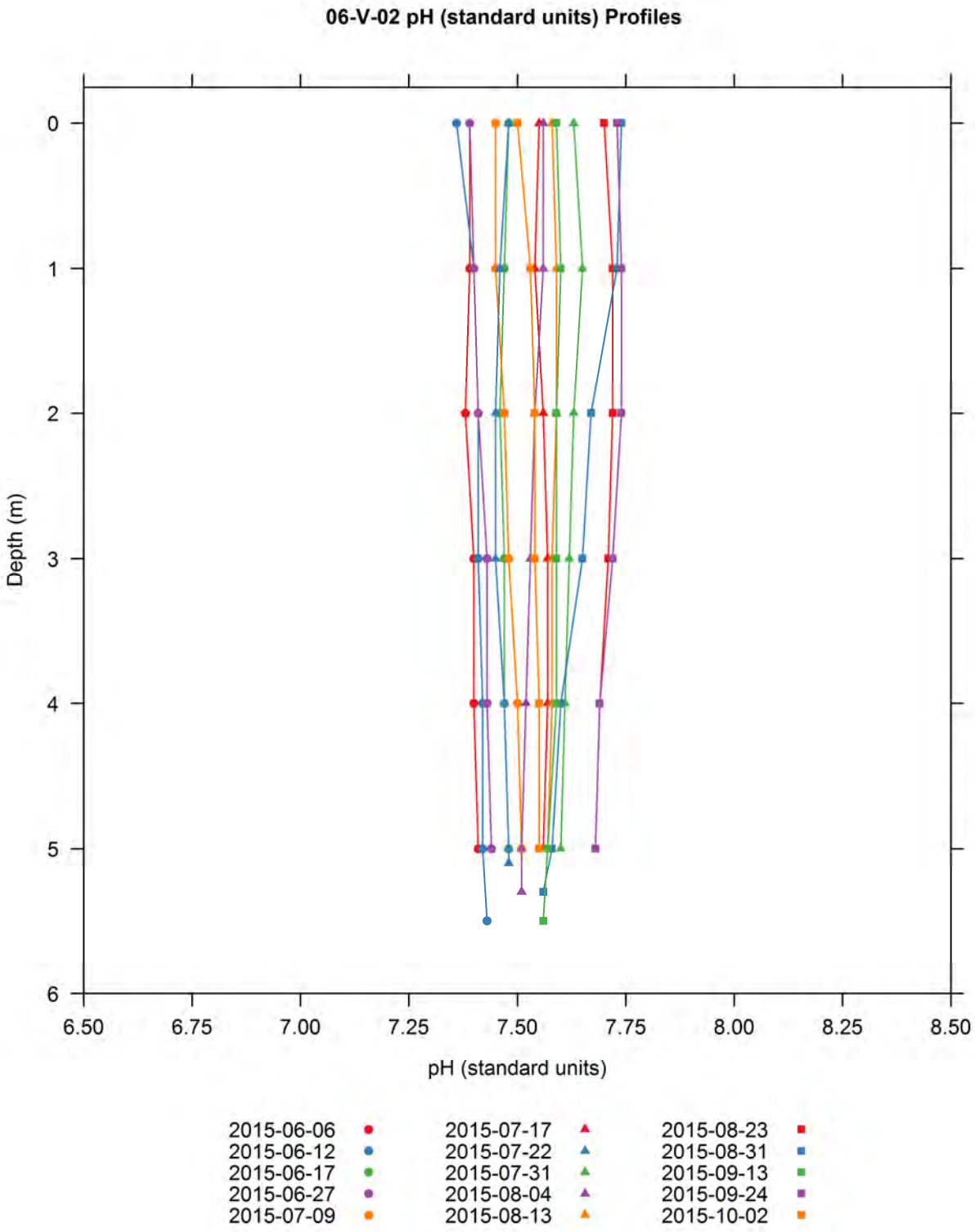

Figure H-77. Vertical profiles of pH (standard units) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

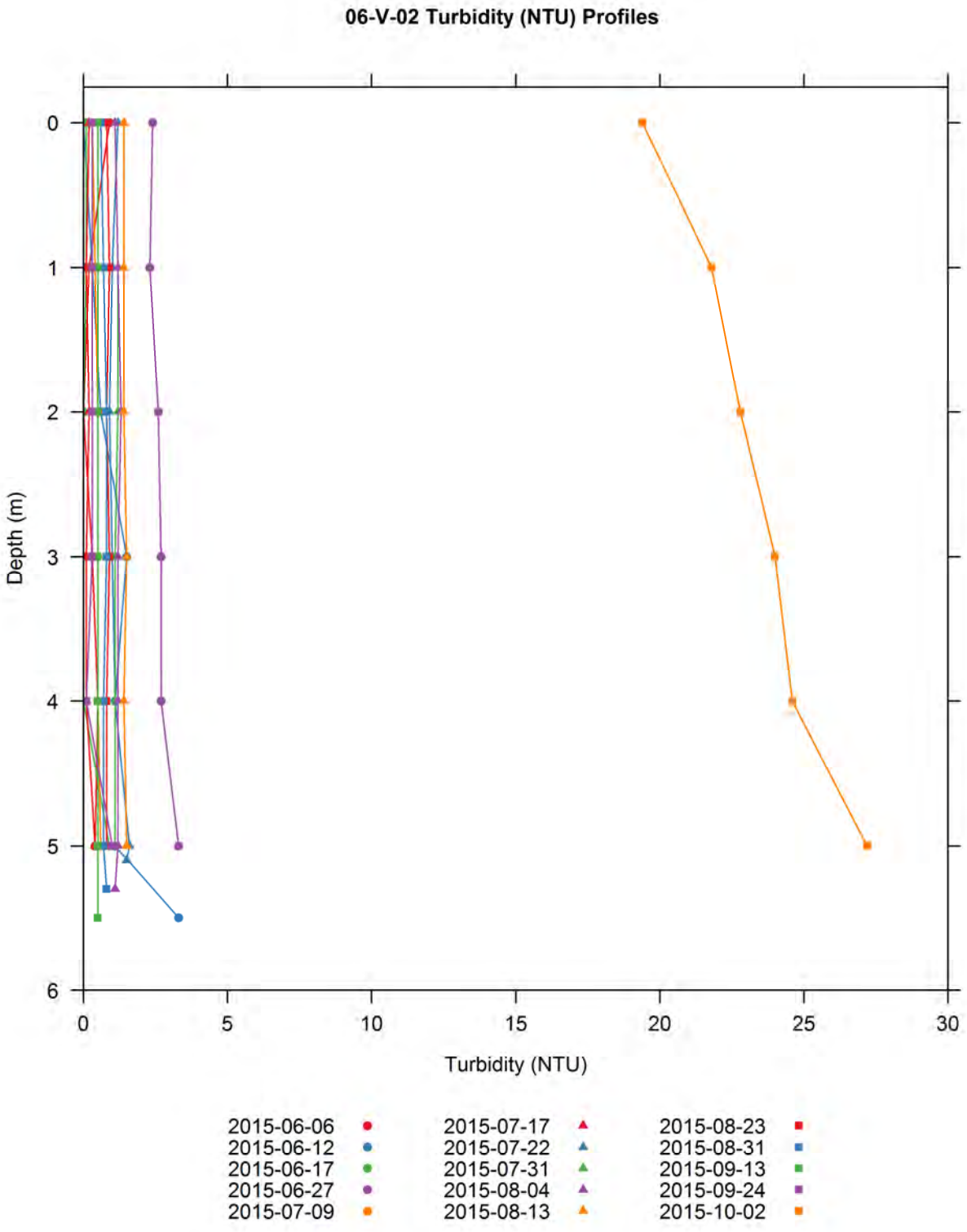

Figure H-78. Vertical profiles of turbidity (NTU) collected at the Vernon middle impoundment 06-V-02 water quality monitoring station.

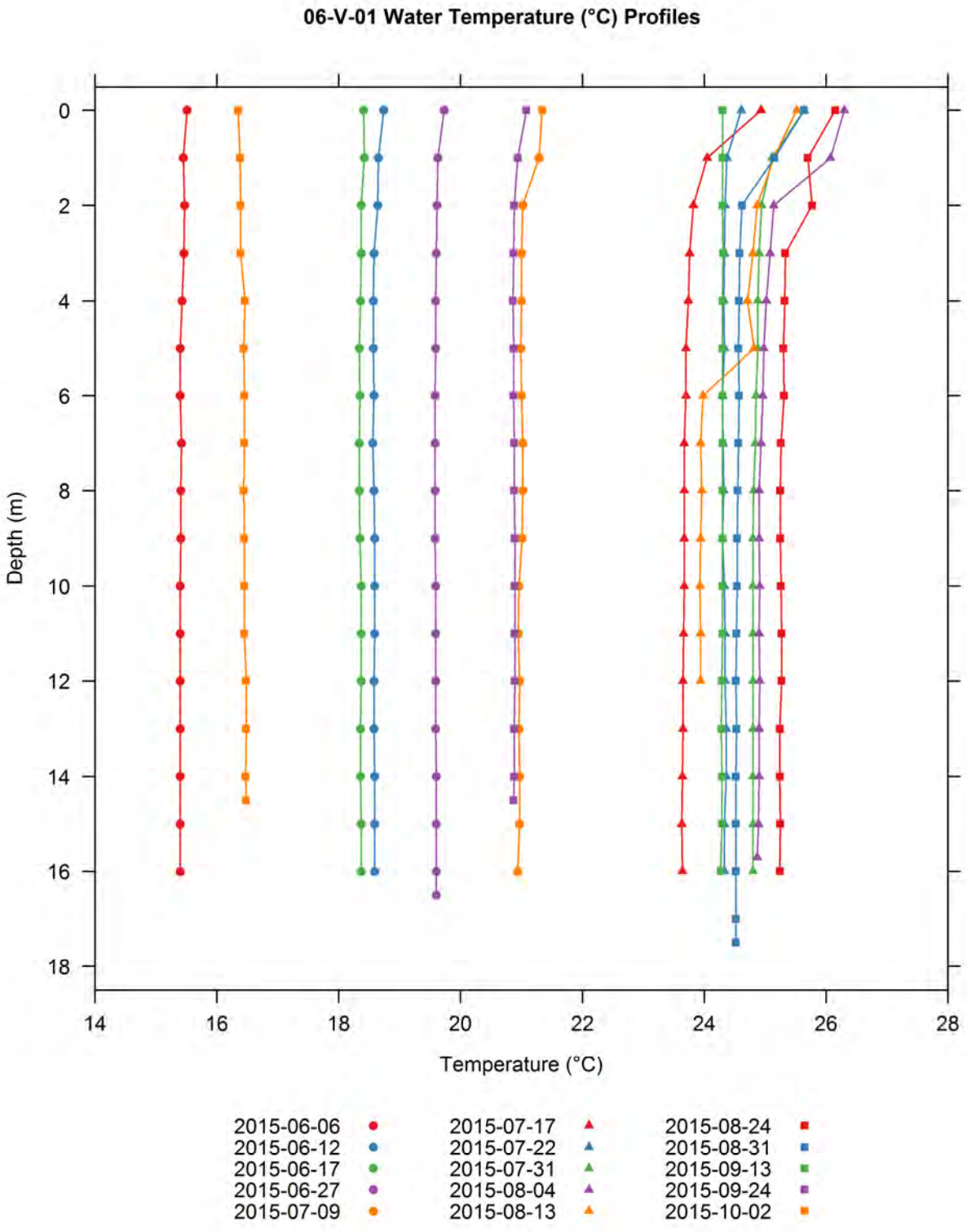

Figure H-79. Vertical profiles of water temperature (°C) collected at the Vernon forebay 06-V-01 water quality monitoring station.

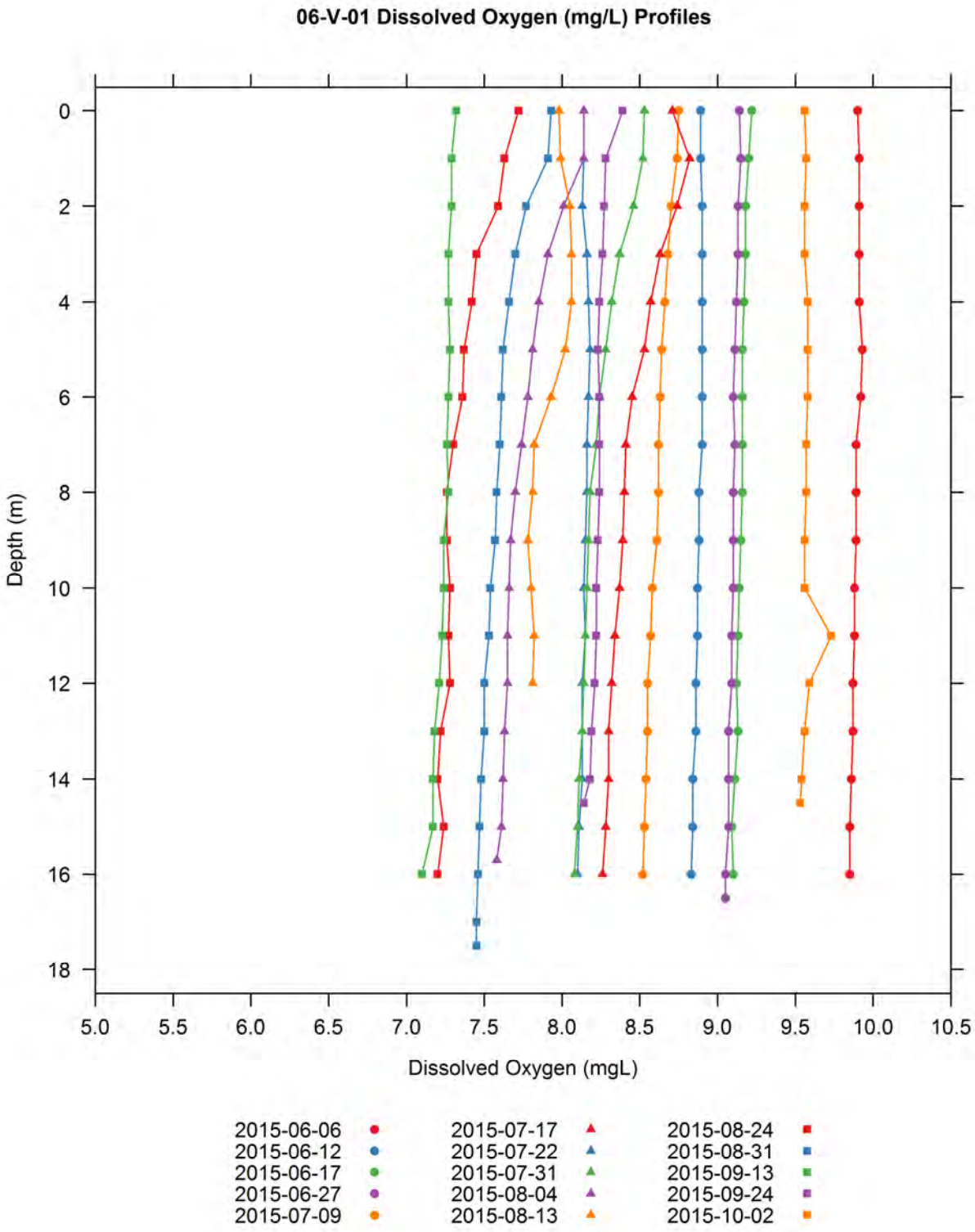

Figure H-80. Vertical profiles of dissolved oxygen (mg/L) collected at the Vernon forebay 06-V-01 water quality monitoring station.

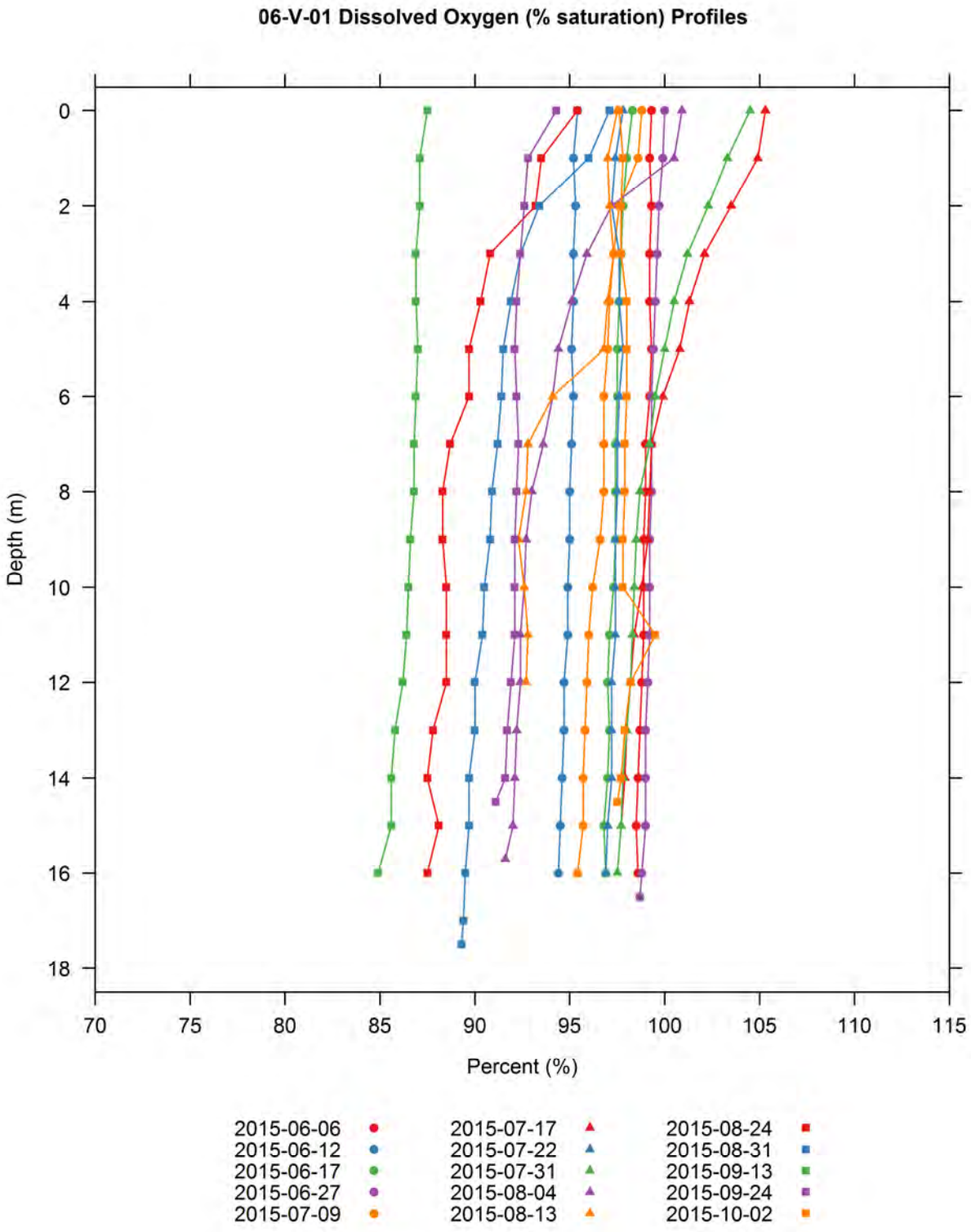

Figure H-81. Vertical profiles of dissolved oxygen (percent saturation) collected at the Vernon forebay 06-V-01 water quality monitoring station.

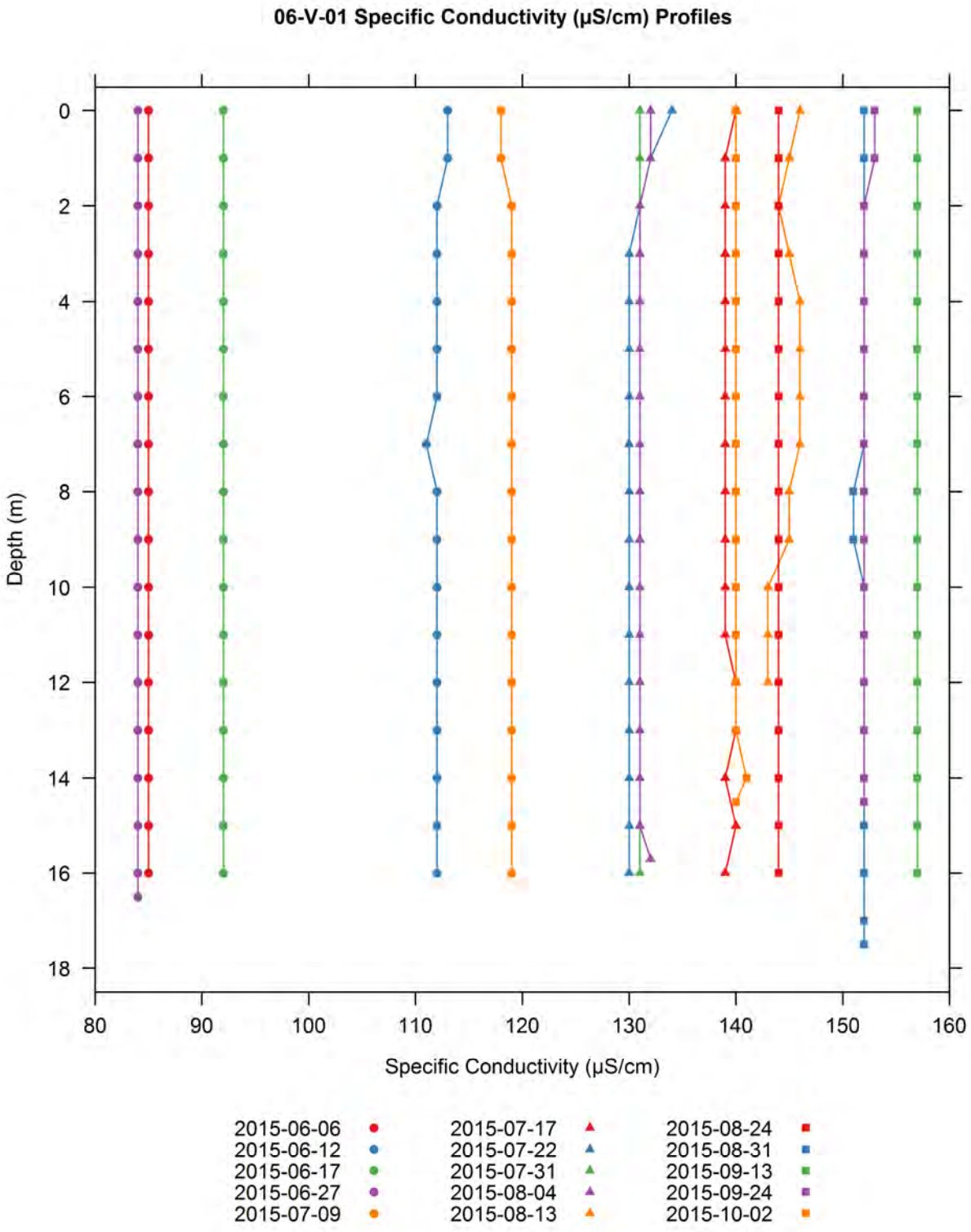

Figure H-82. Vertical profiles of specific conductivity (µS/cm) collected at the Vernon forebay 06-V-01 water quality monitoring station.

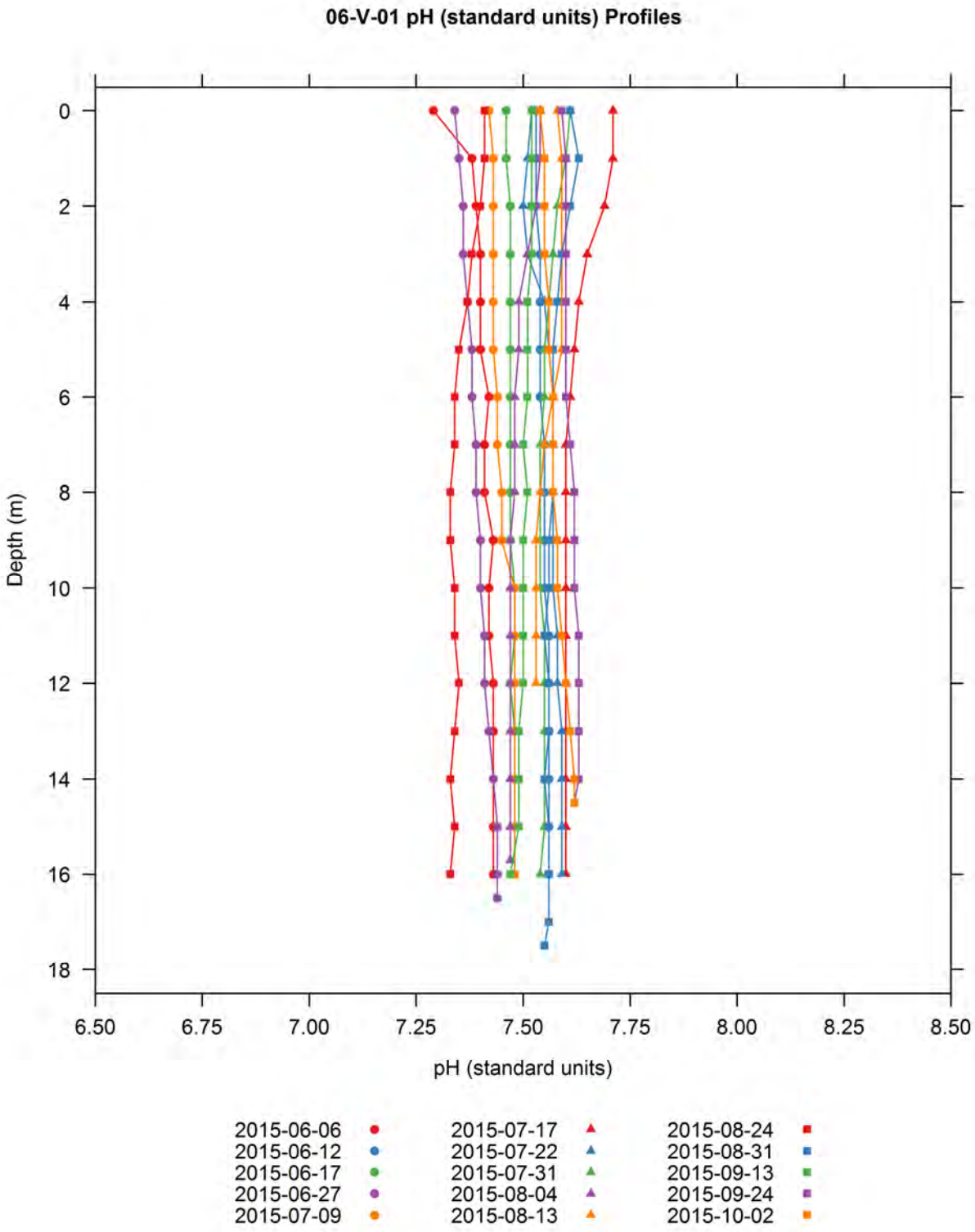

Figure H-83. Vertical profiles of pH (standard units) collected at the Vernon forebay 06-V-01 water quality monitoring station.

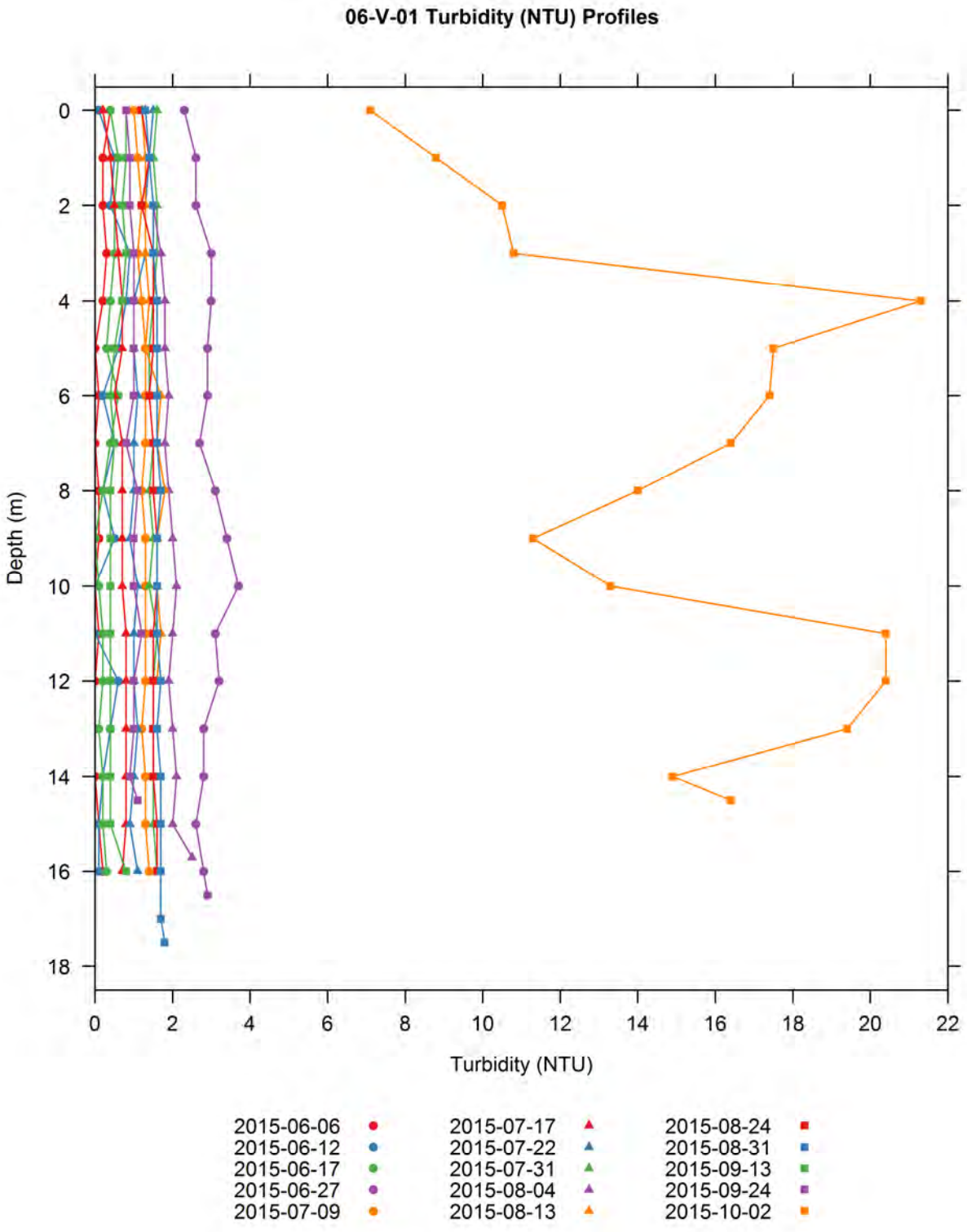

Figure H-84. Vertical profiles of turbidity (NTU) collected at the Vernon forebay 06-V-01 water quality monitoring station.

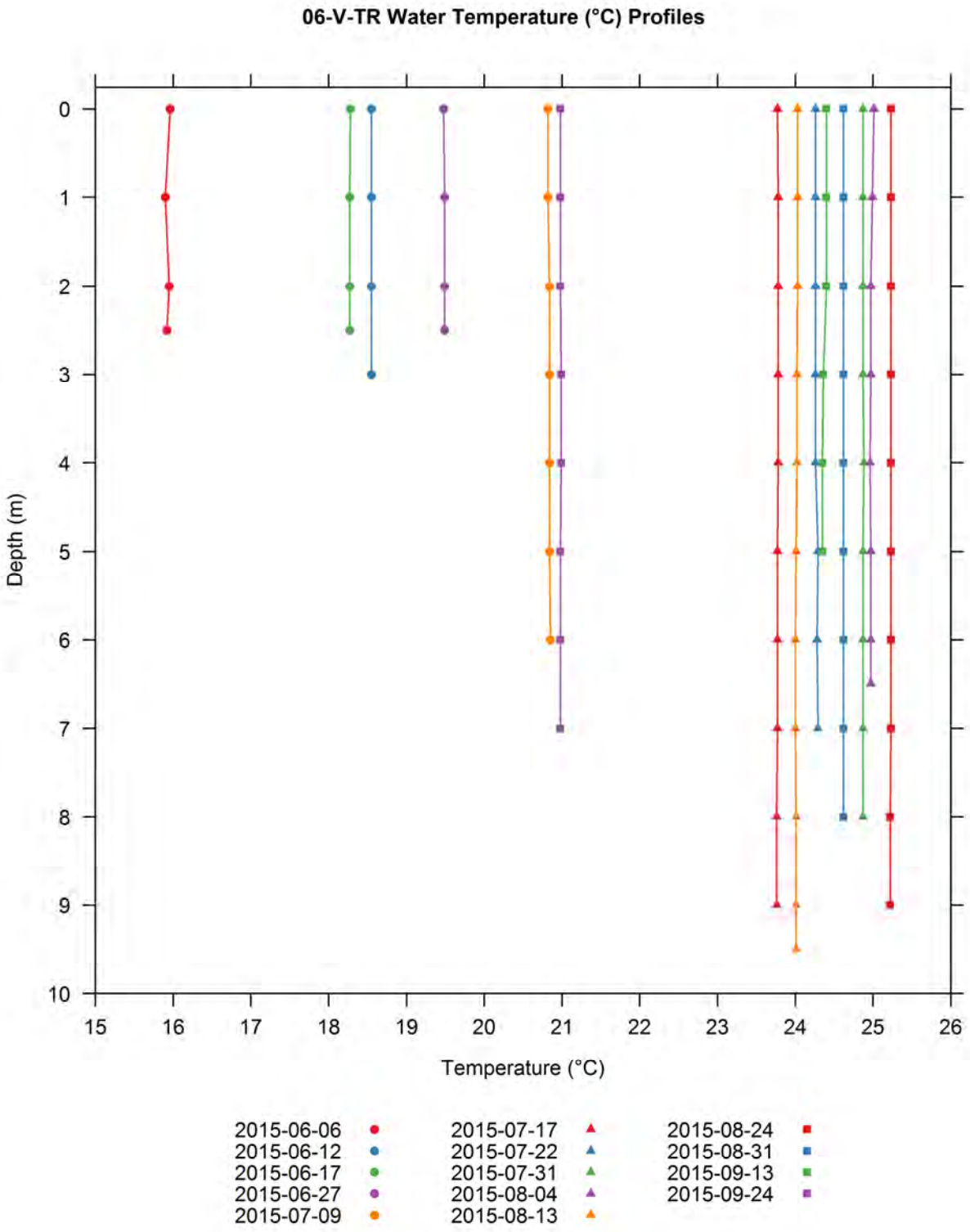

Figure H-85. Vertical profiles of water temperature (°C) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

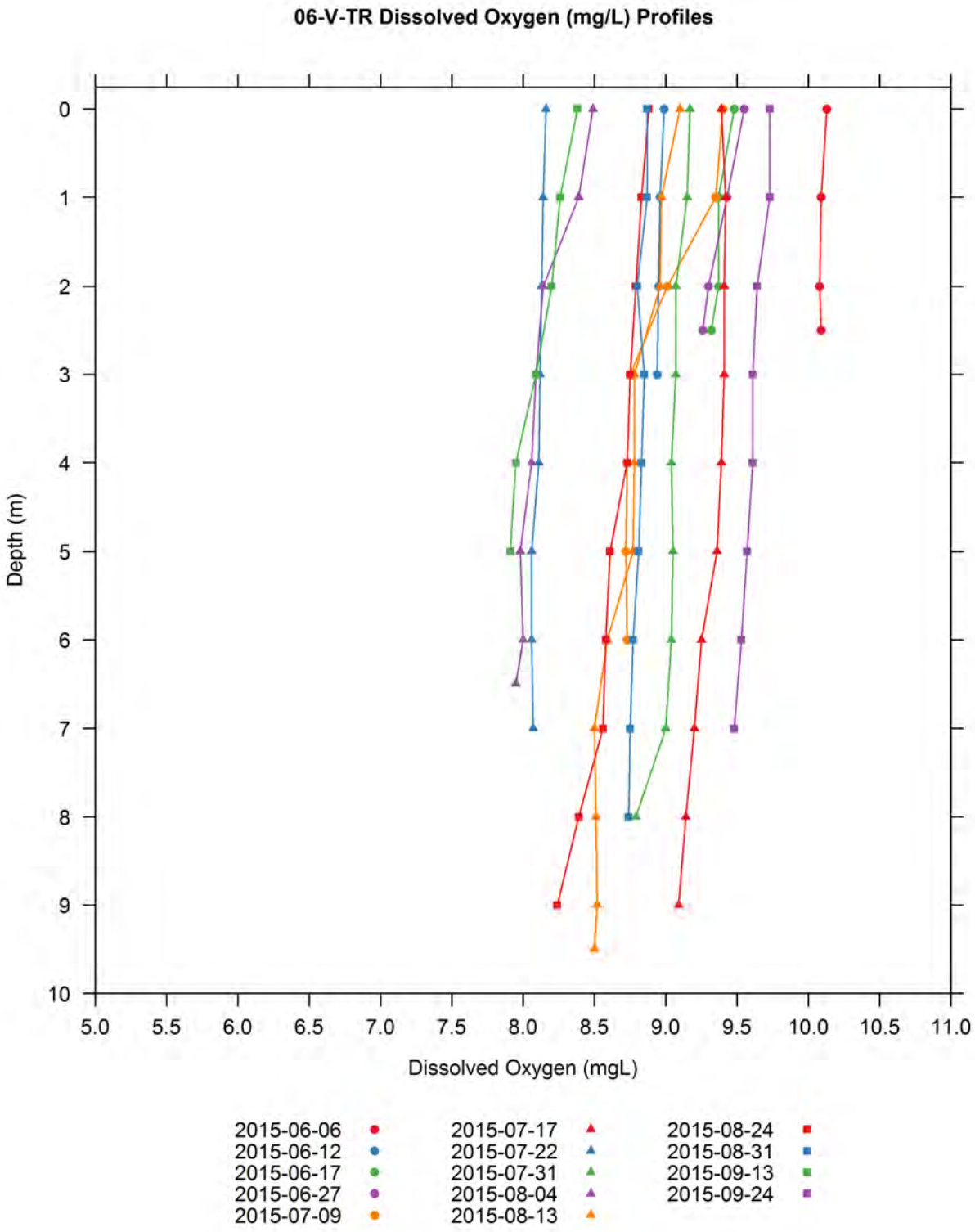

Figure H-86. Vertical profiles of dissolved oxygen (mg/L) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

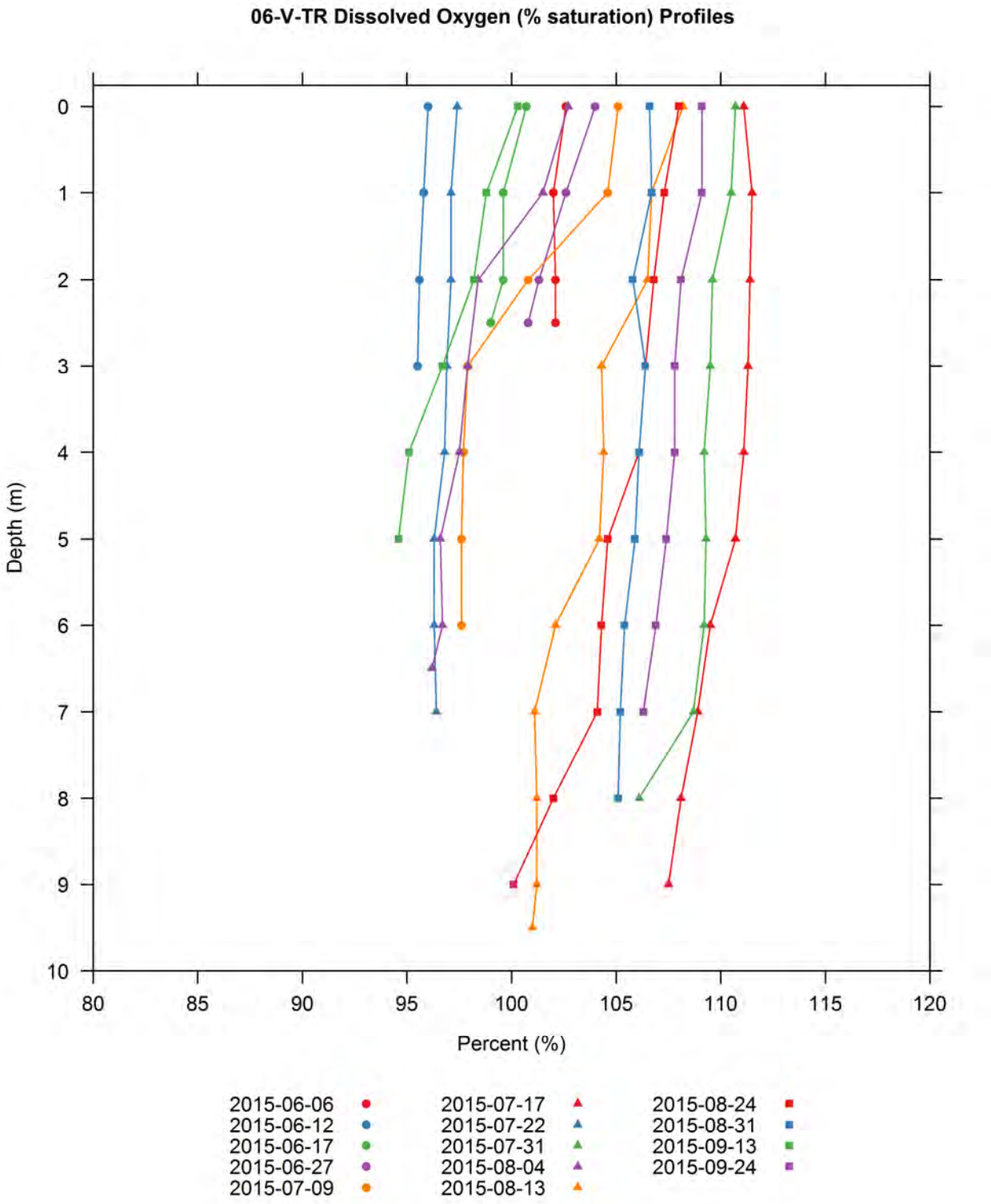

Figure H-87. Vertical profiles of dissolved oxygen (percent saturation) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

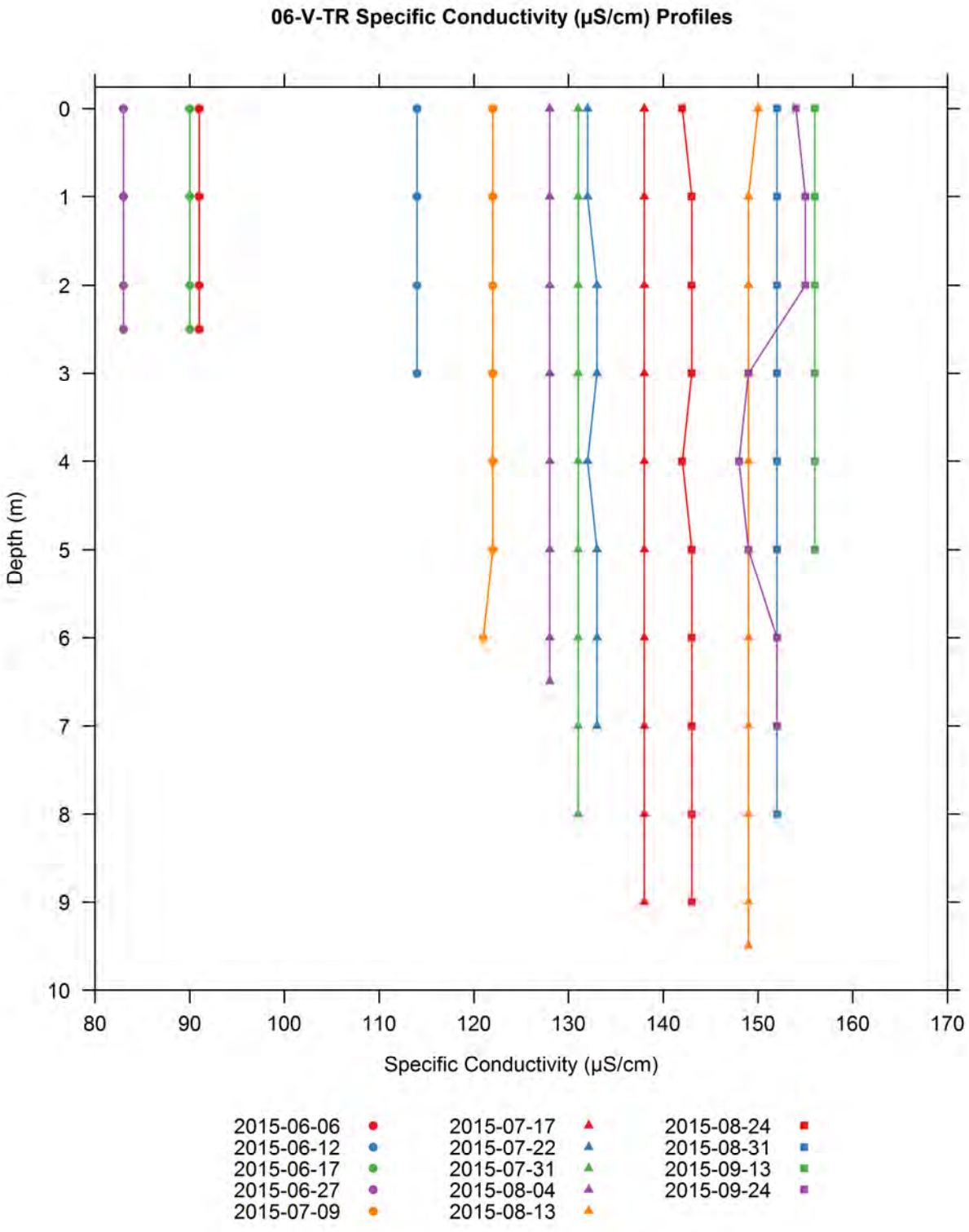

Figure H-88. Vertical profiles of specific conductivity (µS/cm) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

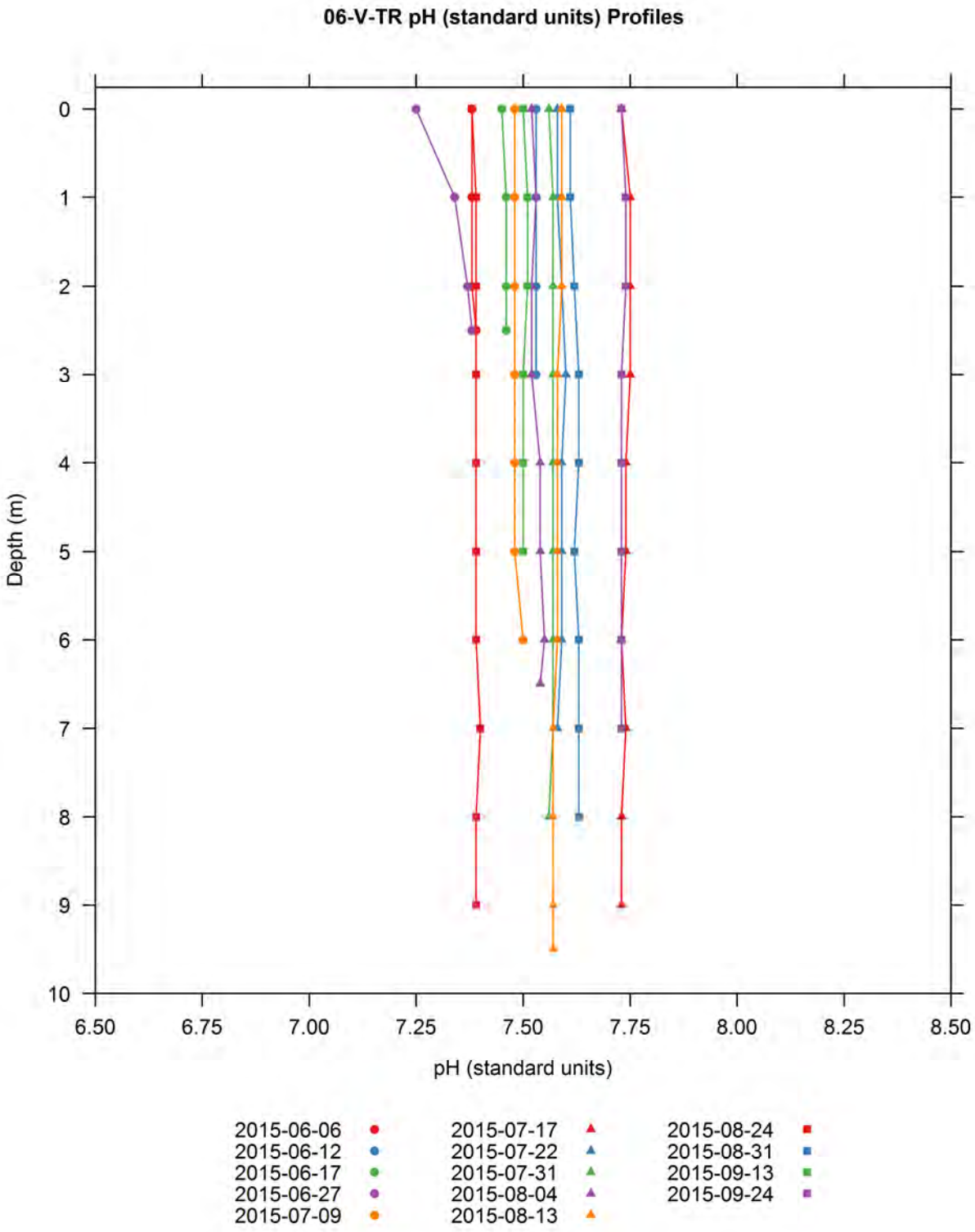

Figure H-89. Vertical profiles of pH (standard units) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

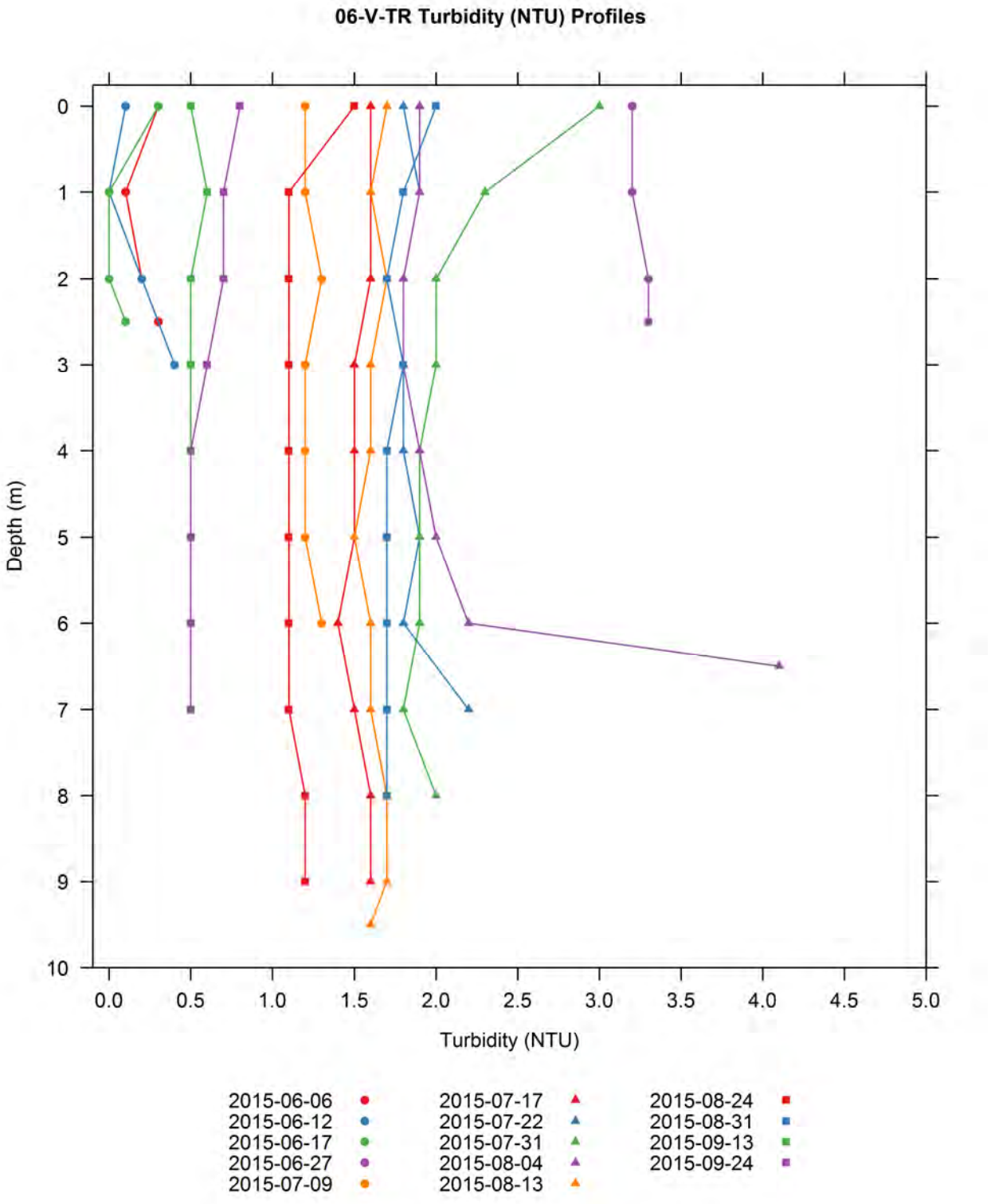

Figure H-90. Vertical profiles of turbidity (NTU) collected at the Vernon tailrace 06-V-TR water quality monitoring station.

APPENDIX I

2015 High Temperature Low-Flow Monitoring Period Temperature Time-Series Figures

[This page intentionally left blank.]

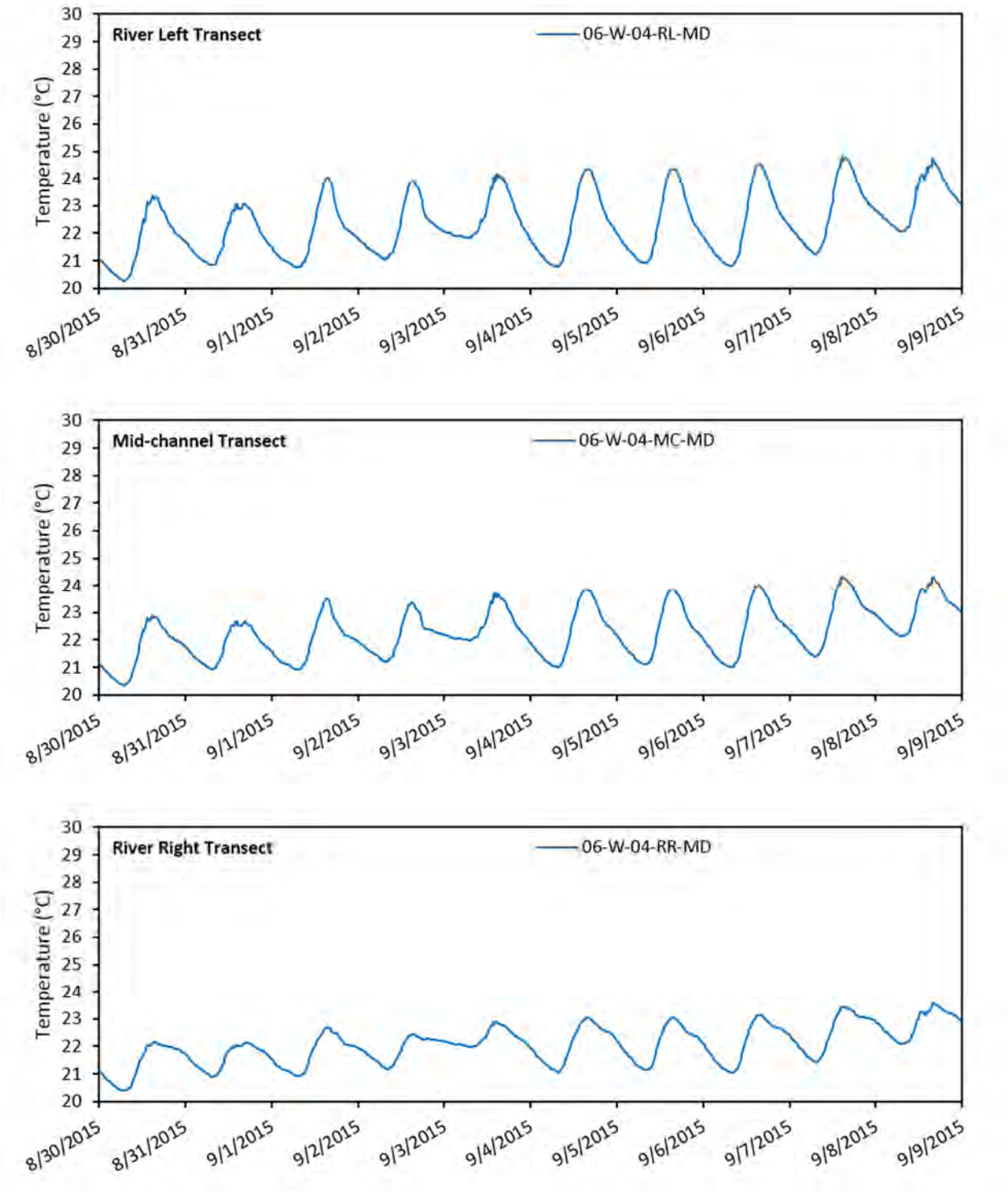

Figure I-1. Continuous water temperature collected at the Wilder 06-W-04 water quality monitoring station during the high temperature low-flow monitoring period. Instruments were deployed mid-depth (MD).

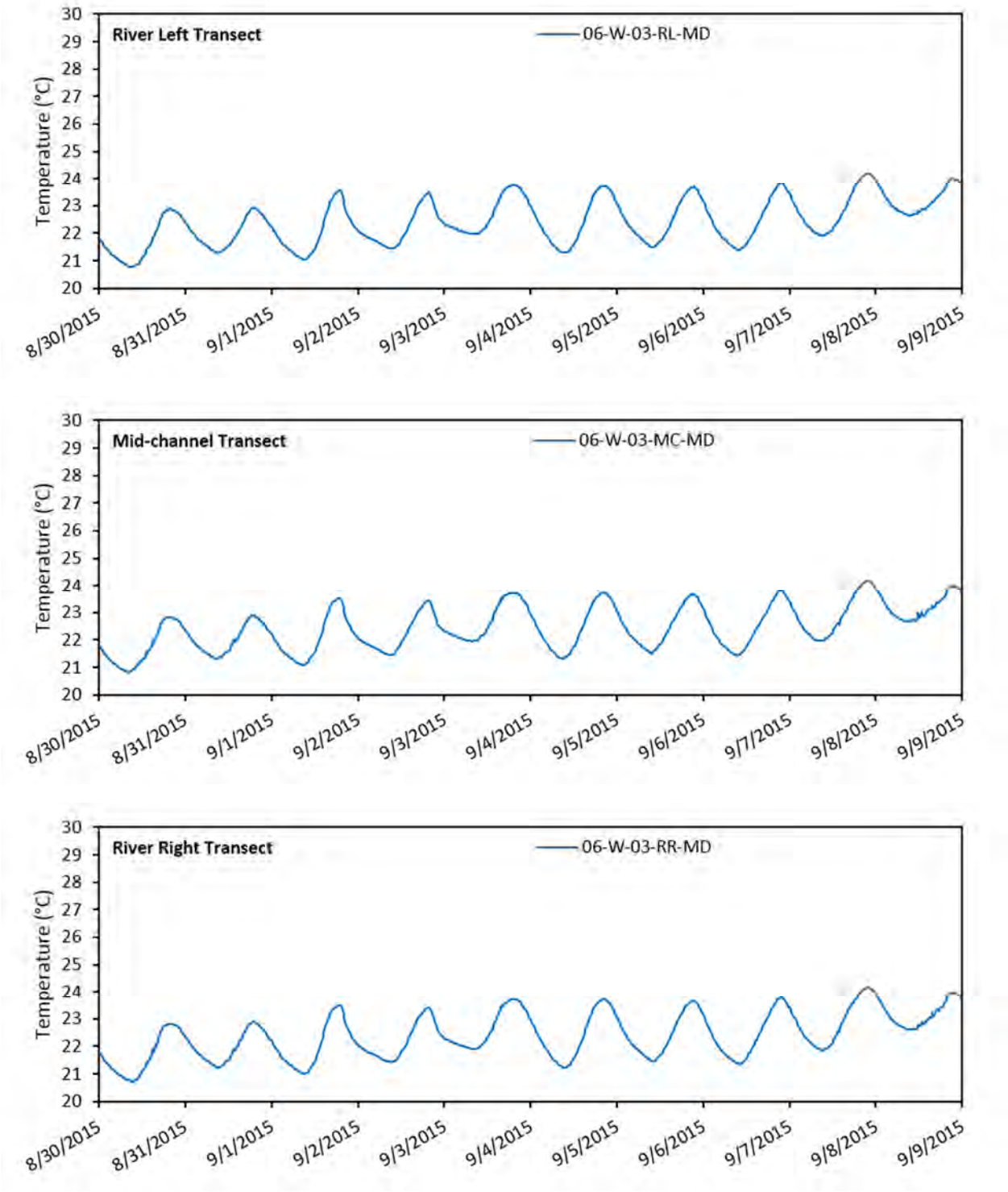

Figure I-2. Continuous water temperature collected at the Wilder 06-W-03 water quality monitoring station during the high temperature low-flow monitoring period. Instruments were deployed mid-depth (MD).

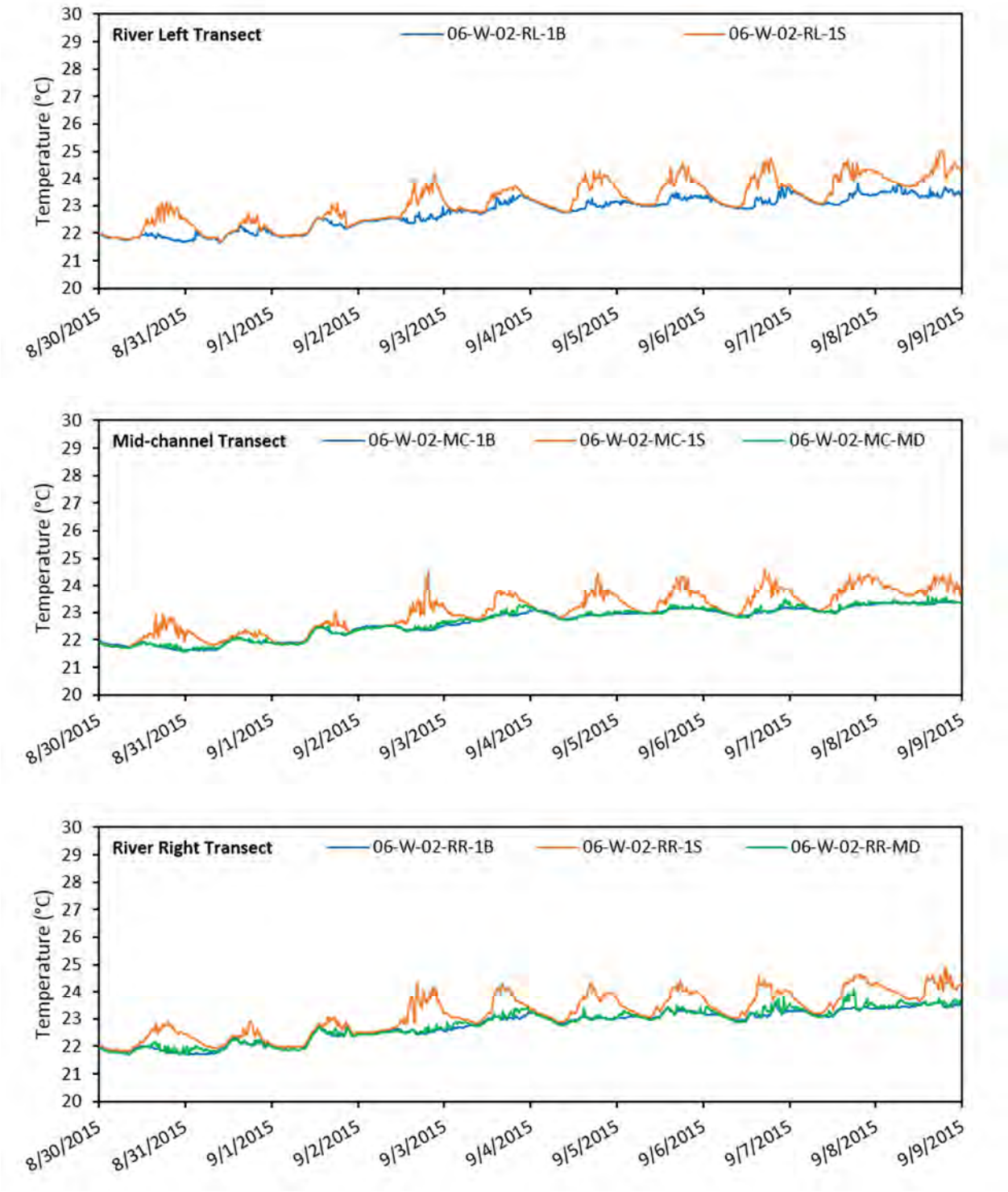

Figure I-3. Continuous water temperature collected at the Wilder 06-W-02 water quality monitoring station during the high temperature low-flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

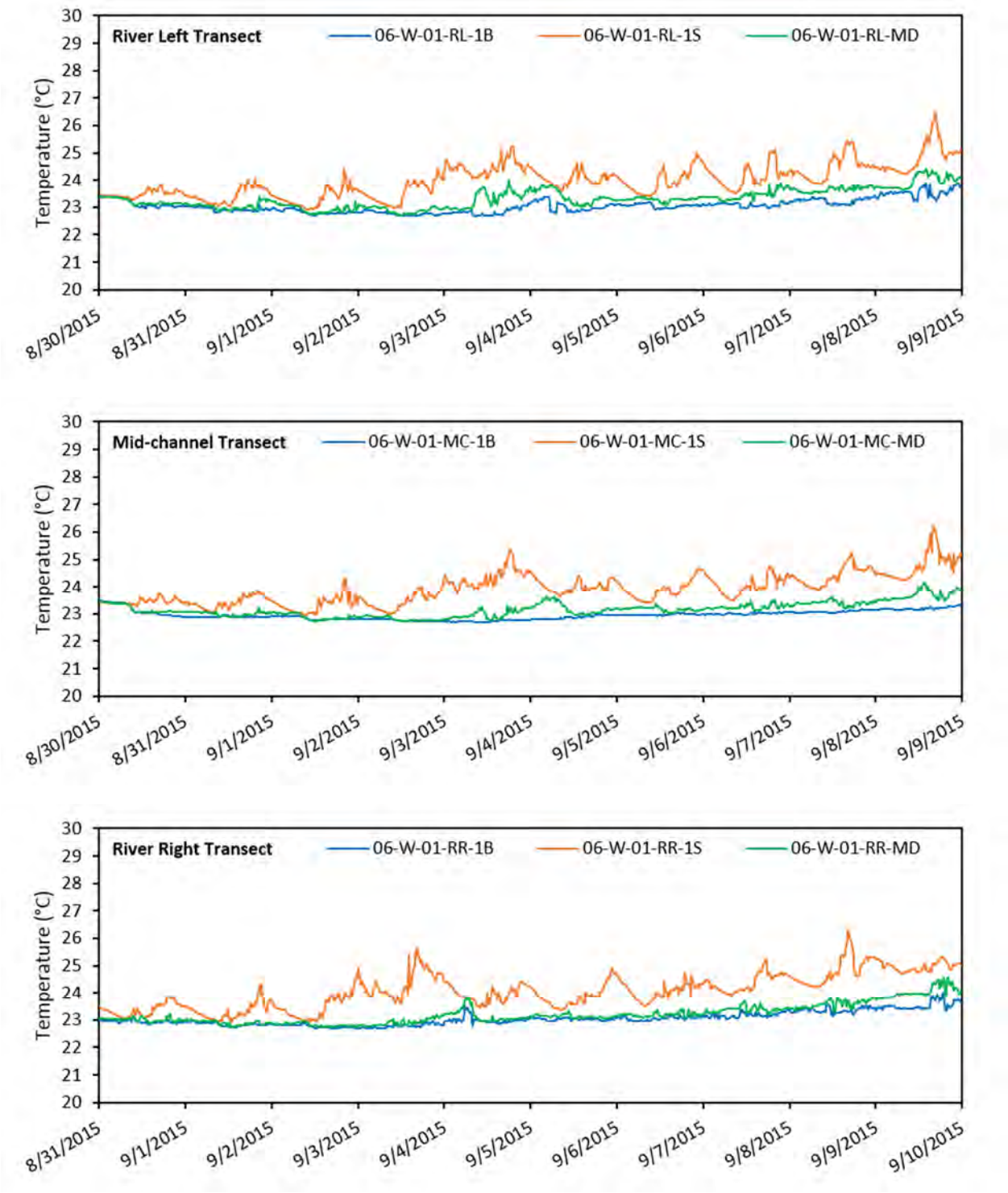

Figure I-4. Continuous water temperature collected at the Wilder forebay 06-W-01 water quality monitoring station during the high temperature low-flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

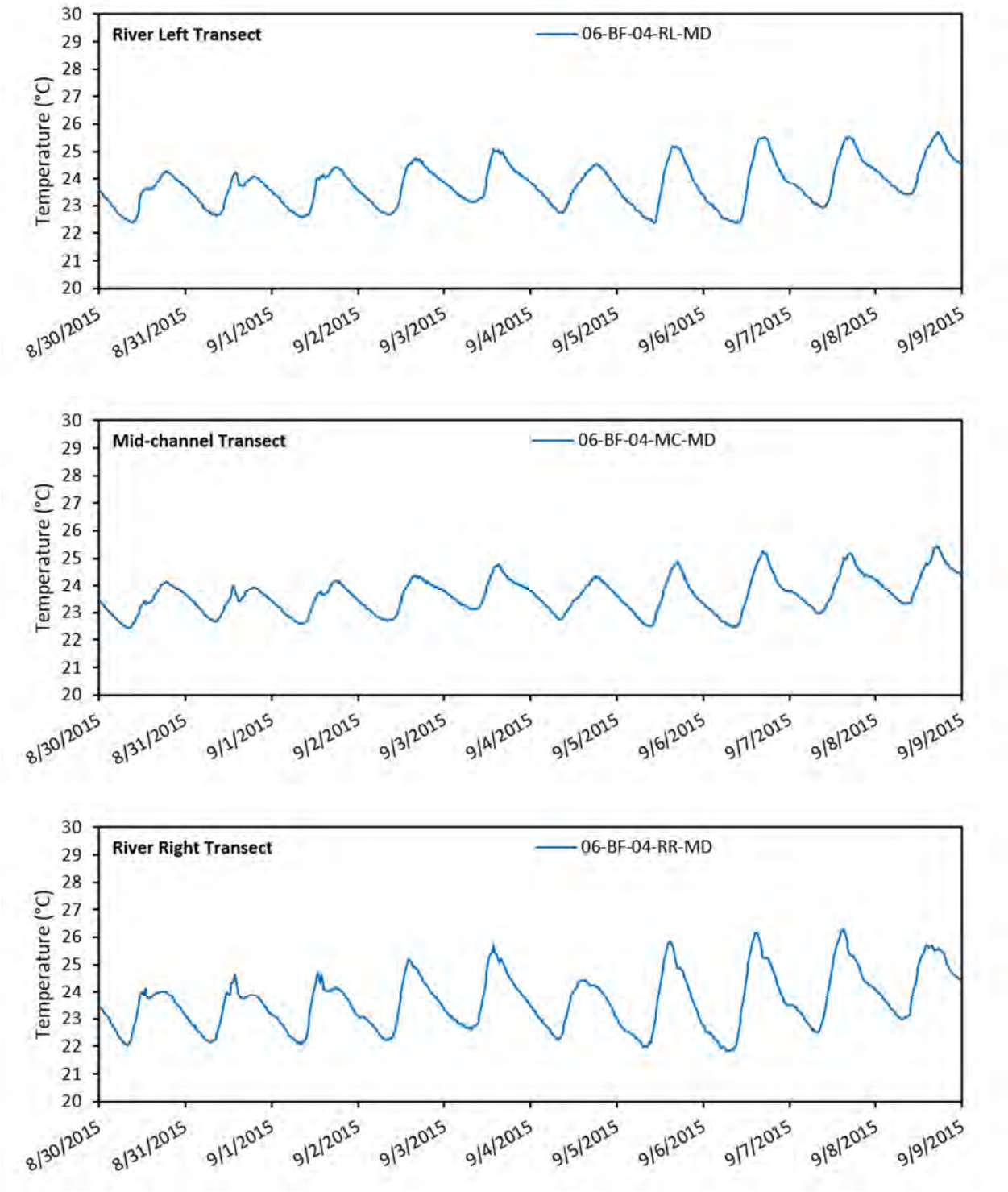

Figure I-5. Continuous water temperature collected at the Bellows Falls 06-BF-04 water quality monitoring station during the high temperature low-flow monitoring period. Instruments were deployed mid-depth (MD).

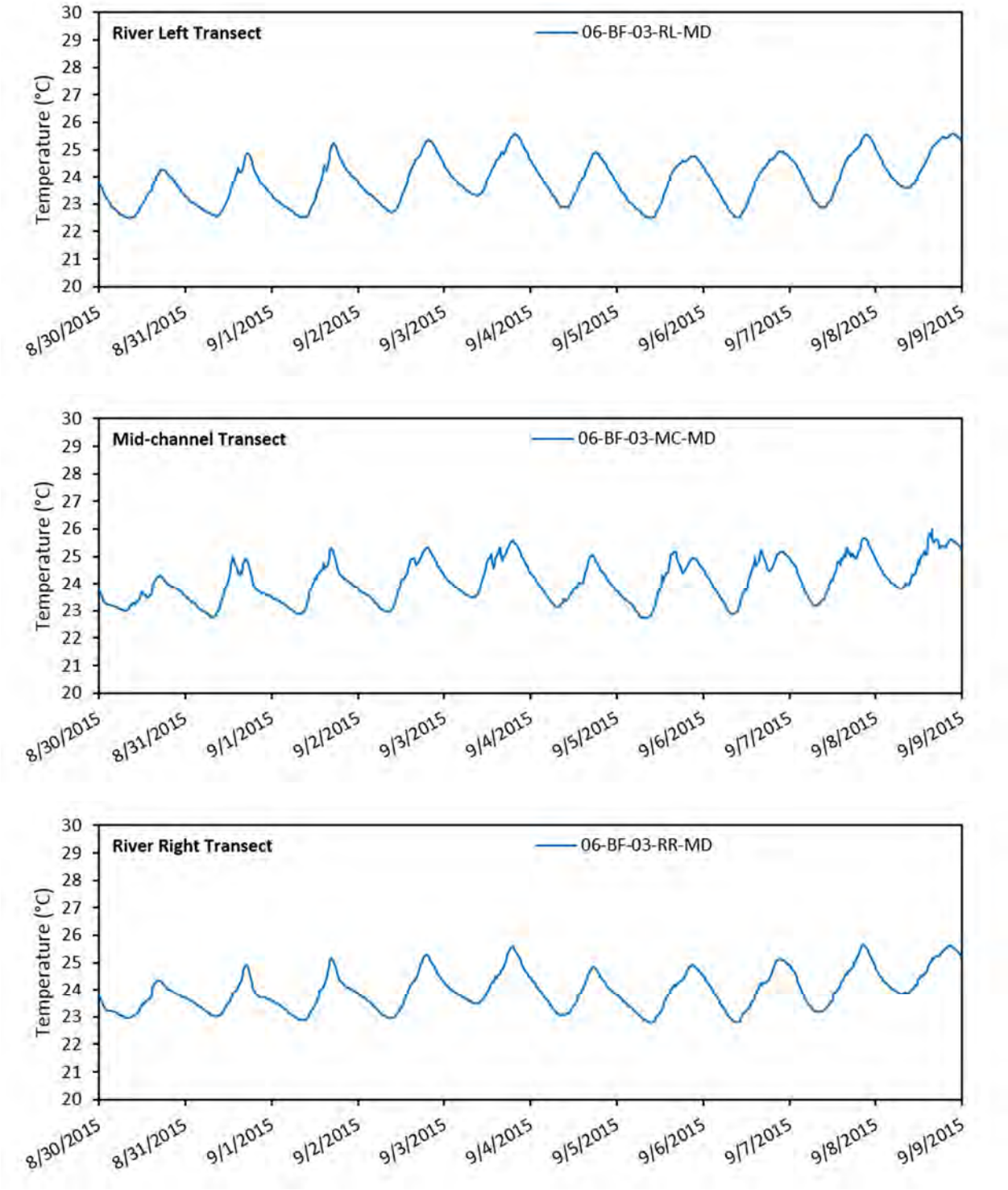

Figure I-6. Continuous water temperature collected at the Bellows Falls 06-BF-03 water quality monitoring station during the high temperature low-flow monitoring period. Instruments were deployed at mid-depth (MD).

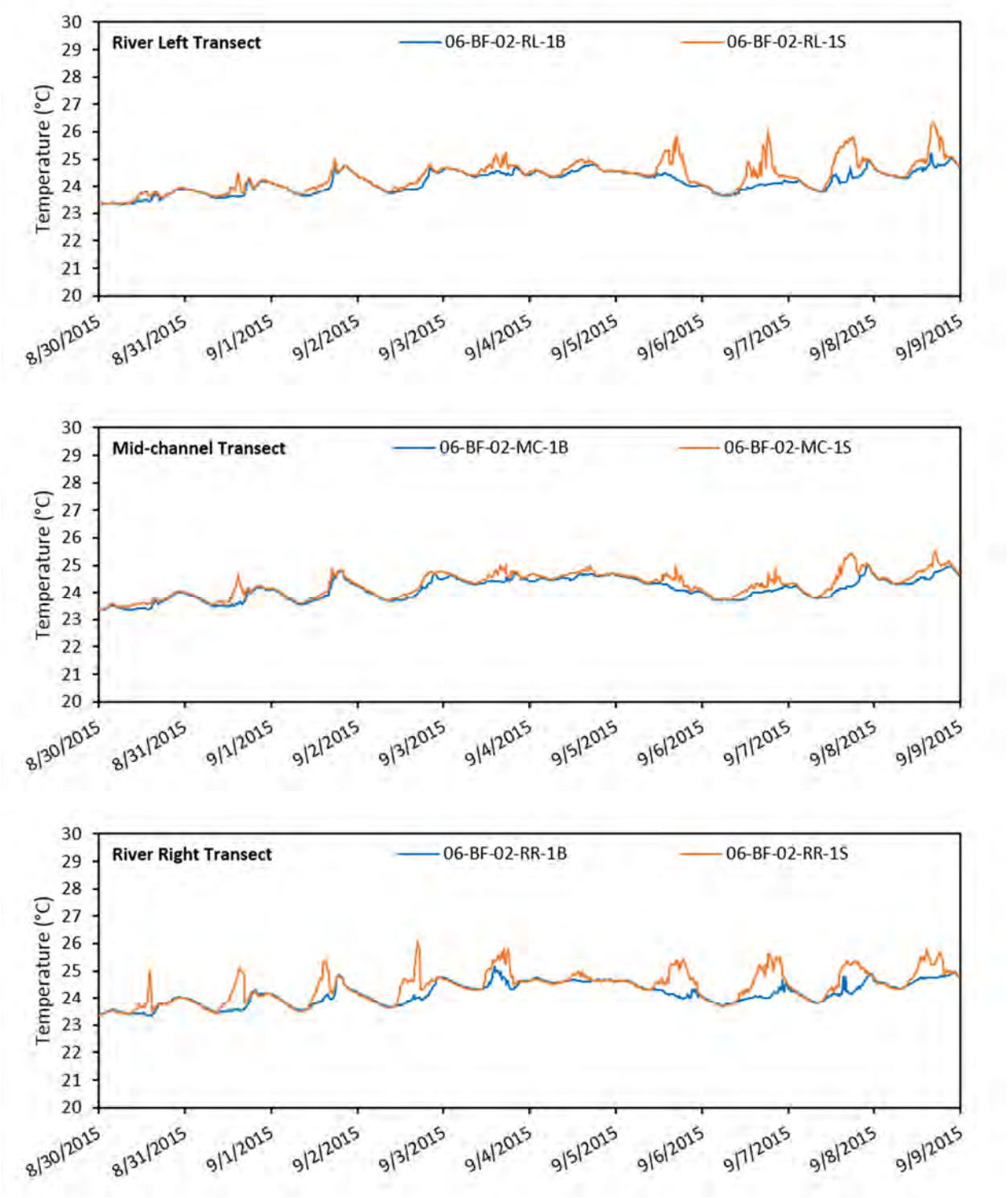

Figure I-7. Continuous water temperature collected at the Bellows Falls 06-BF-02 water quality monitoring station during the high temperature low-flow monitoring period. Loggers were deployed at one meter below the surface (1S) and one meter above the river bottom (1B).

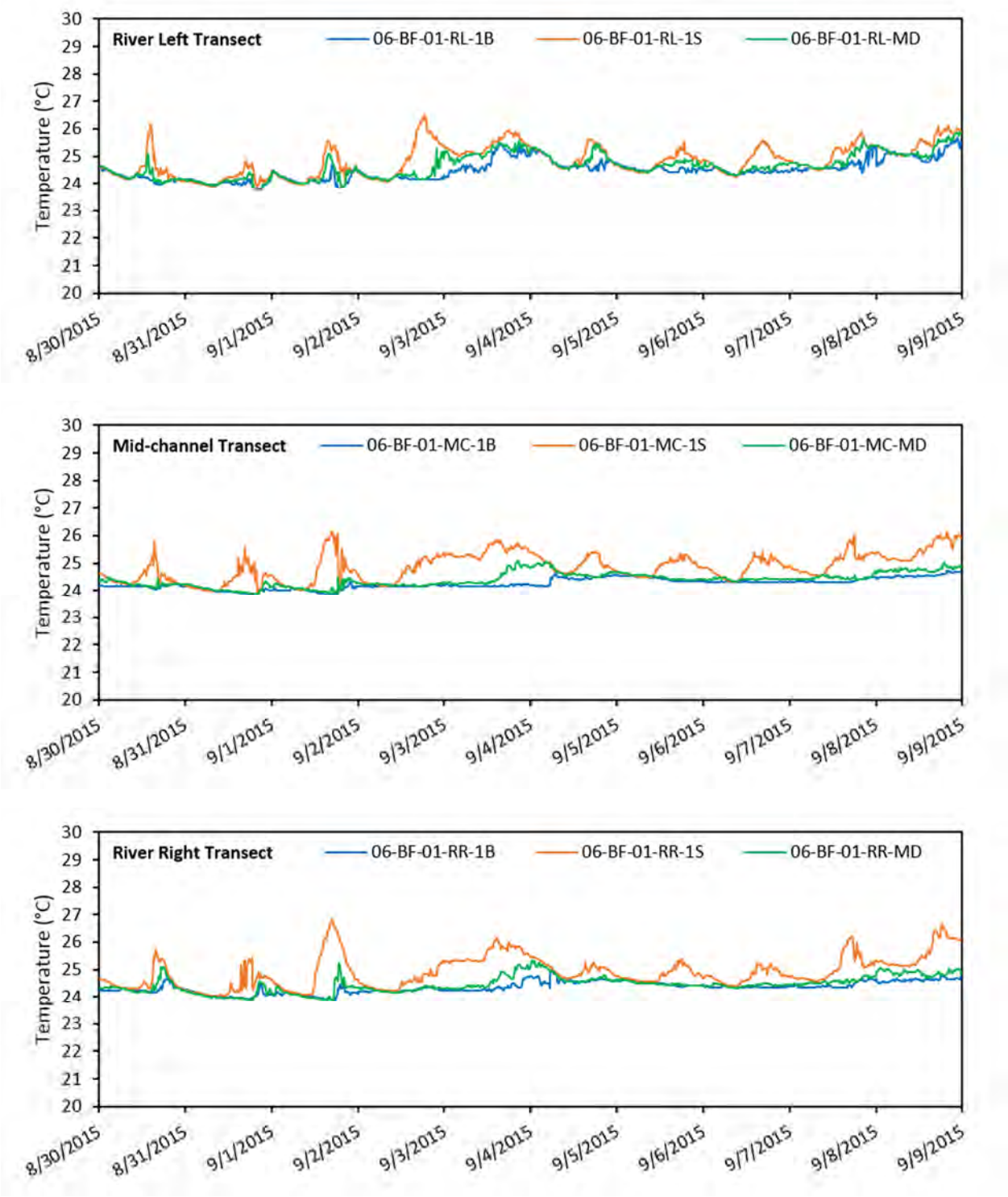

Figure I-8. Continuous water temperature collected at the Bellows Falls forebay 06-BF-01 water quality monitoring station during the high temperature low flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

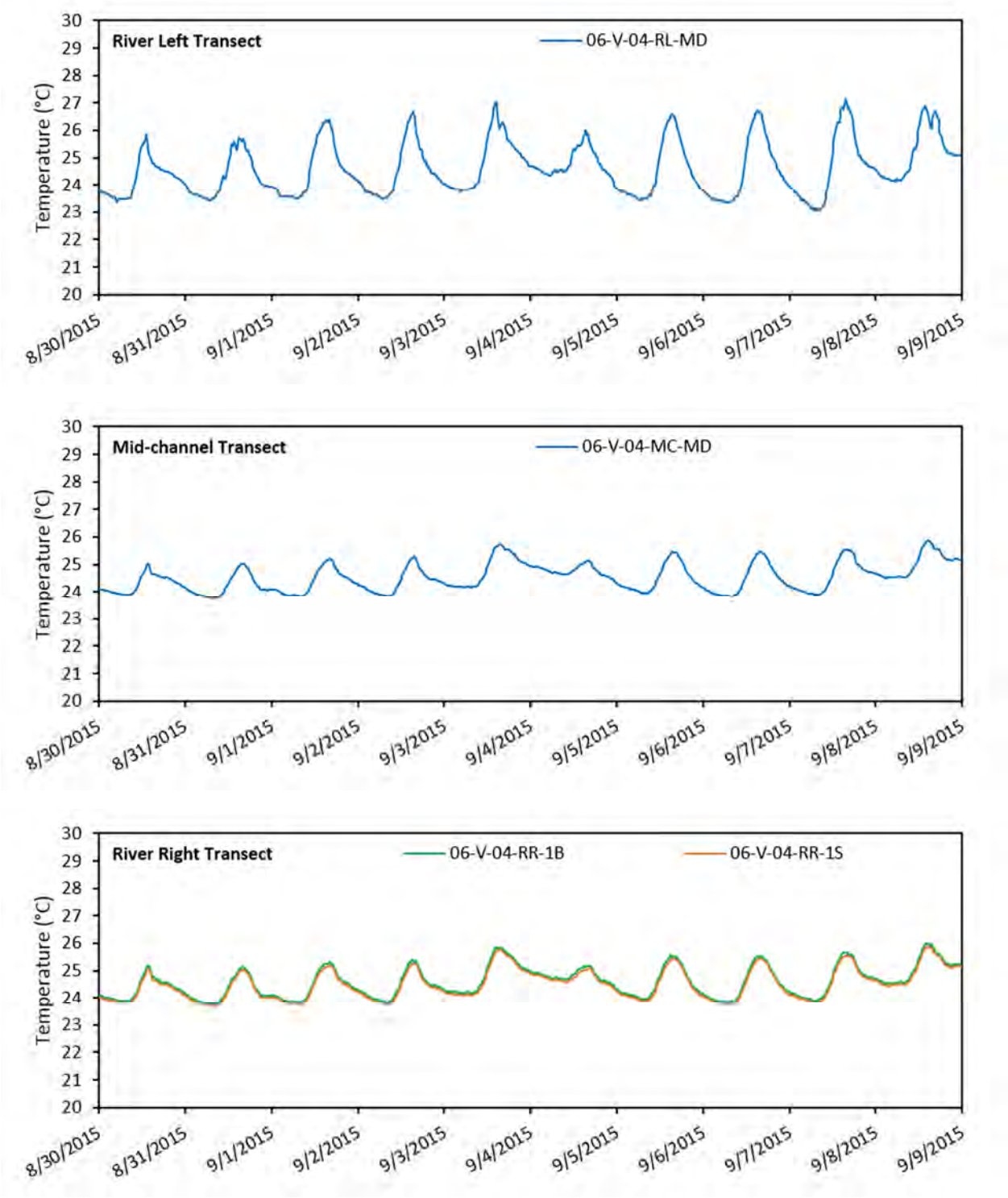

Figure I-9. Continuous water temperature collected at the Vernon 06-V-04 water quality monitoring station during the high temperature low flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

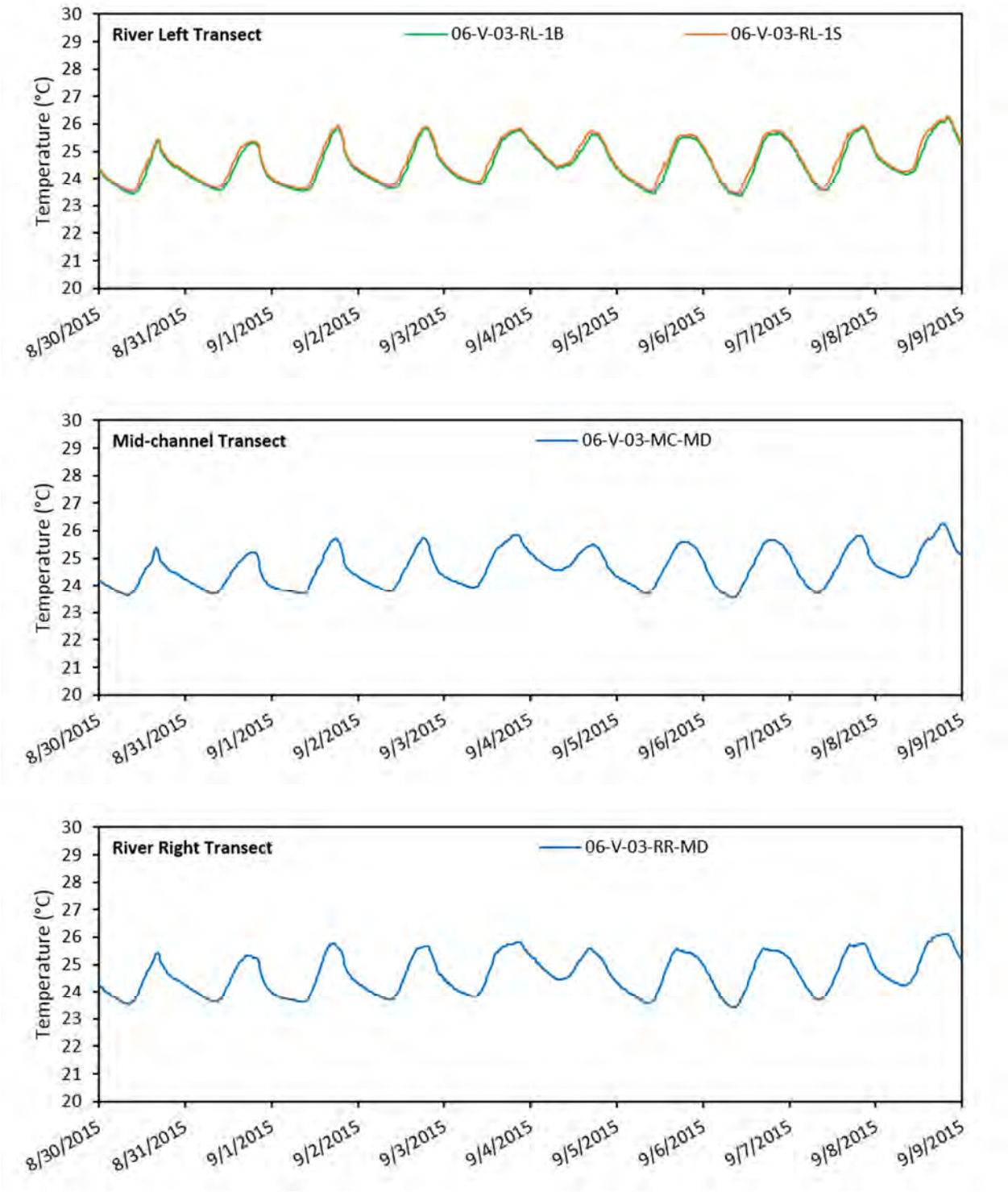

Figure I-10. Continuous water temperature collected at the Vernon 06-V-03 water quality monitoring station during the high temperature low flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

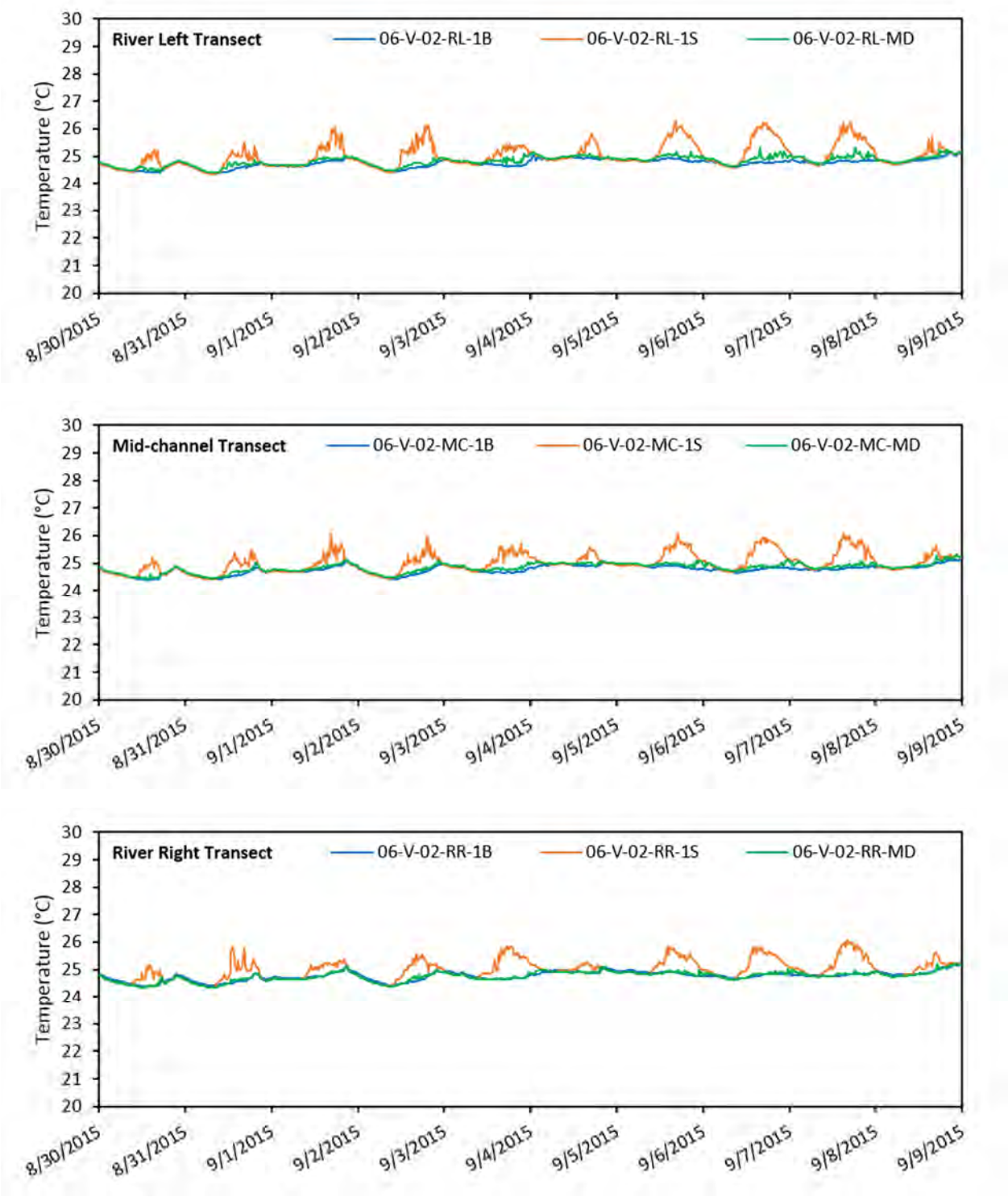

Figure I-11. Continuous water temperature collected at the Vernon 06-V-02 water quality monitoring station during the high temperature low-flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

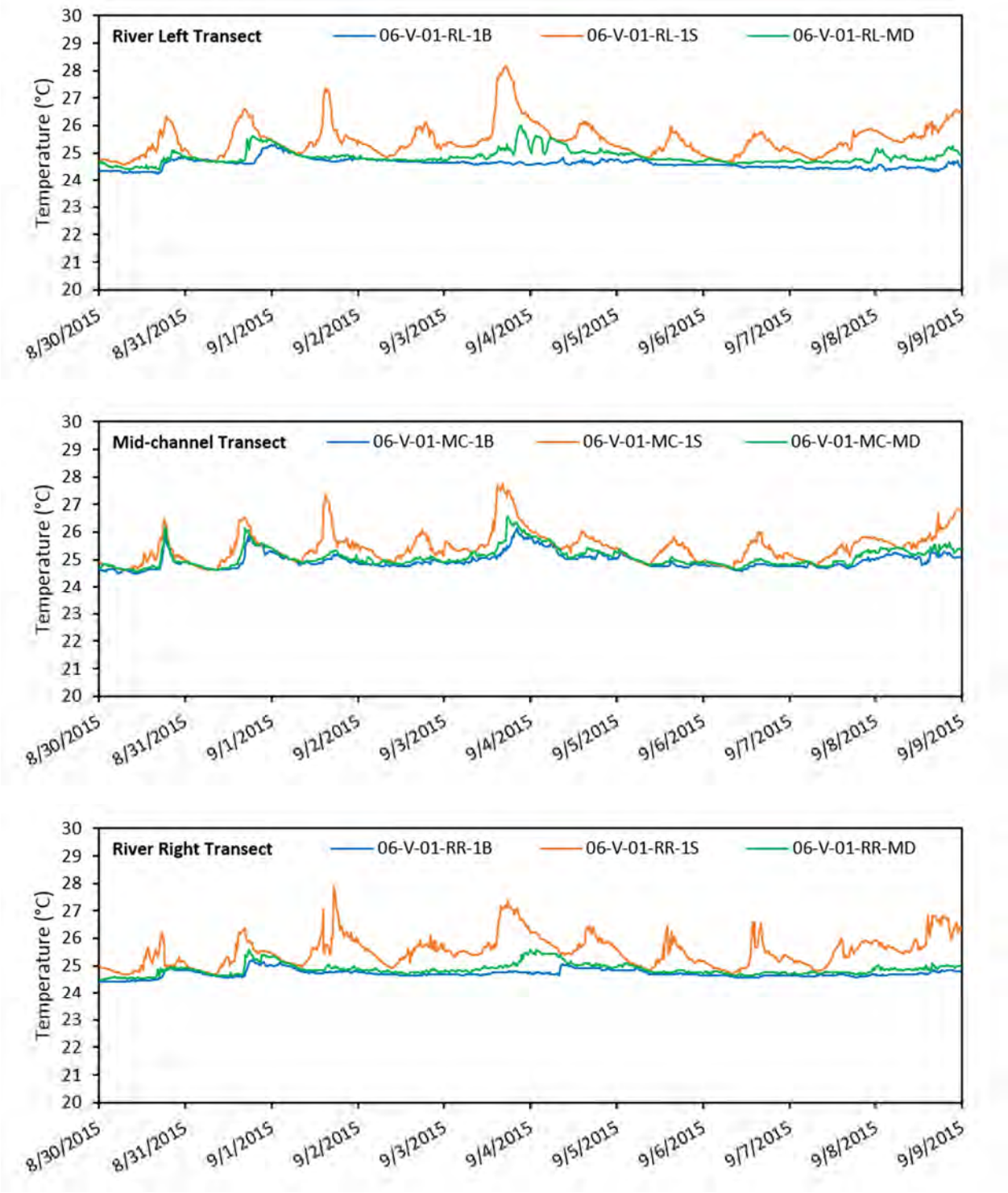

Figure I-12. Continuous water temperature collected at the Vernon forebay 06-V-01 water quality monitoring station during the high temperature low flow monitoring period. Loggers were deployed at one meter below the surface (1S), mid-depth (MD), and one meter above the river bottom (1B).

APPENDIX J

2015 High Temperature Low-Flow Monitoring Period Water Quality Time-Series Figures

[This page intentionally left blank.]

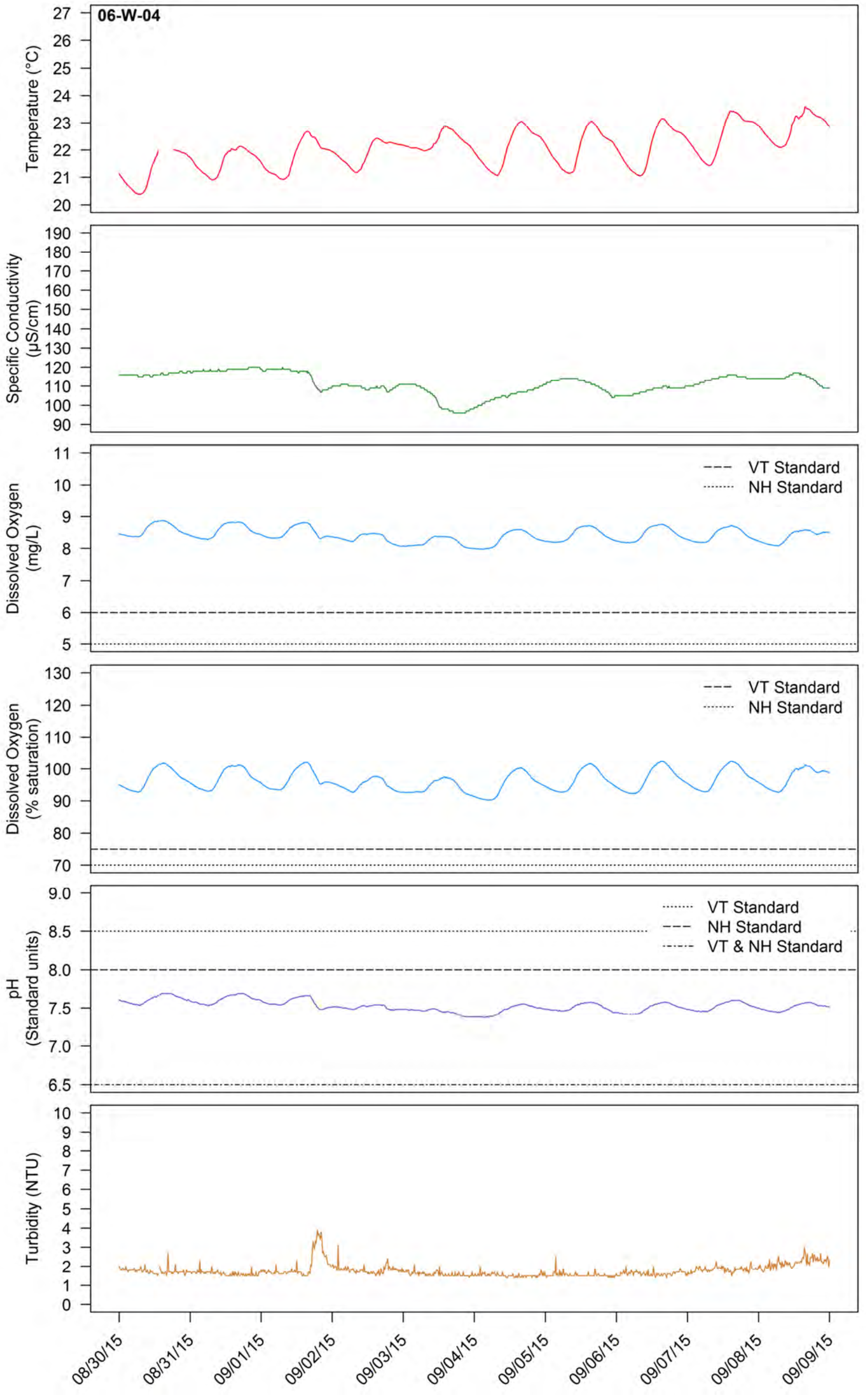

Figure J-1. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the Wilder 06-W-04 upstream water quality monitoring station during the high temperature low flow monitoring period.

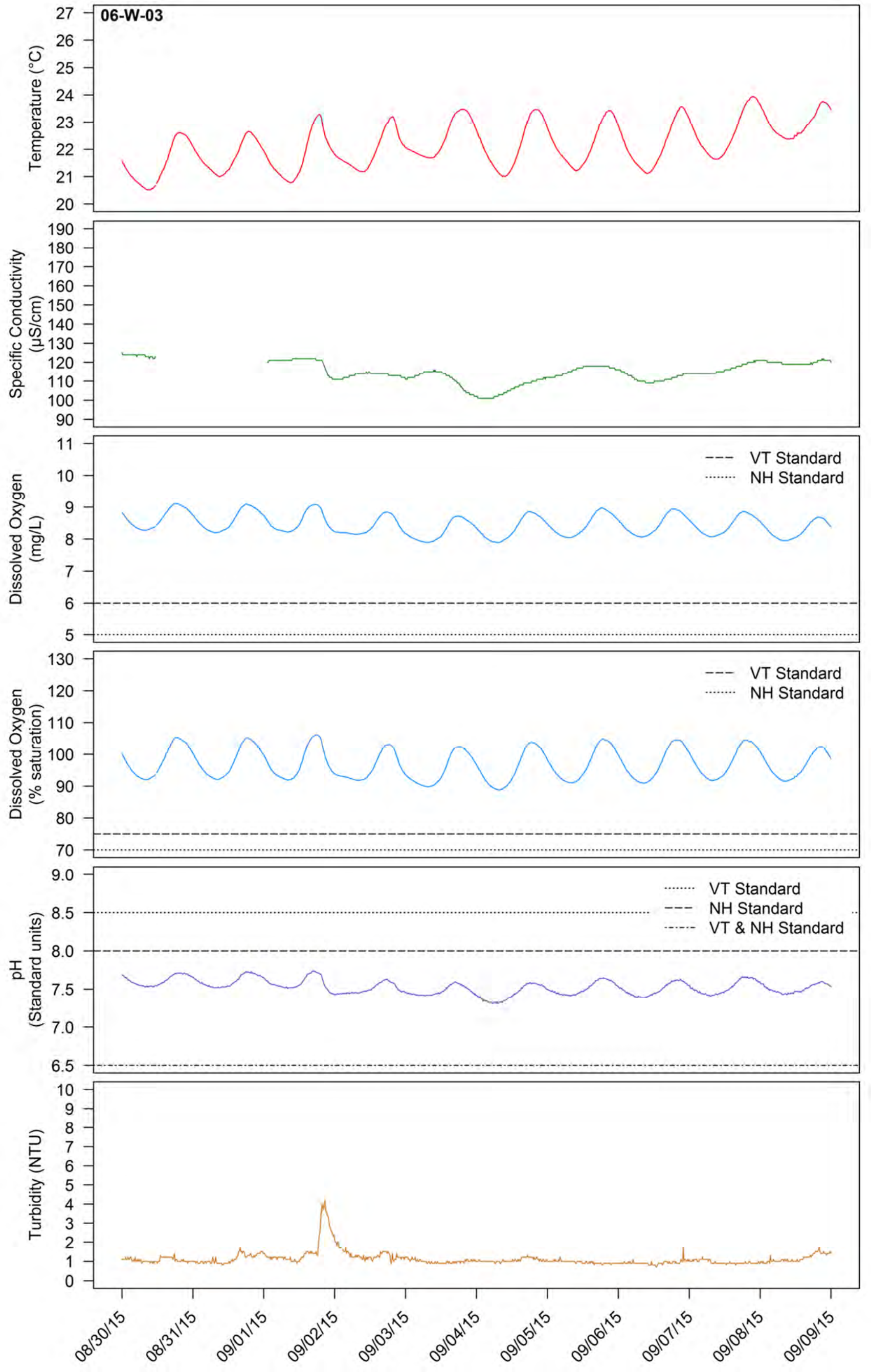

Figure J-2. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-W-03 impoundment water quality monitoring station during the high temperature low flow monitoring period.

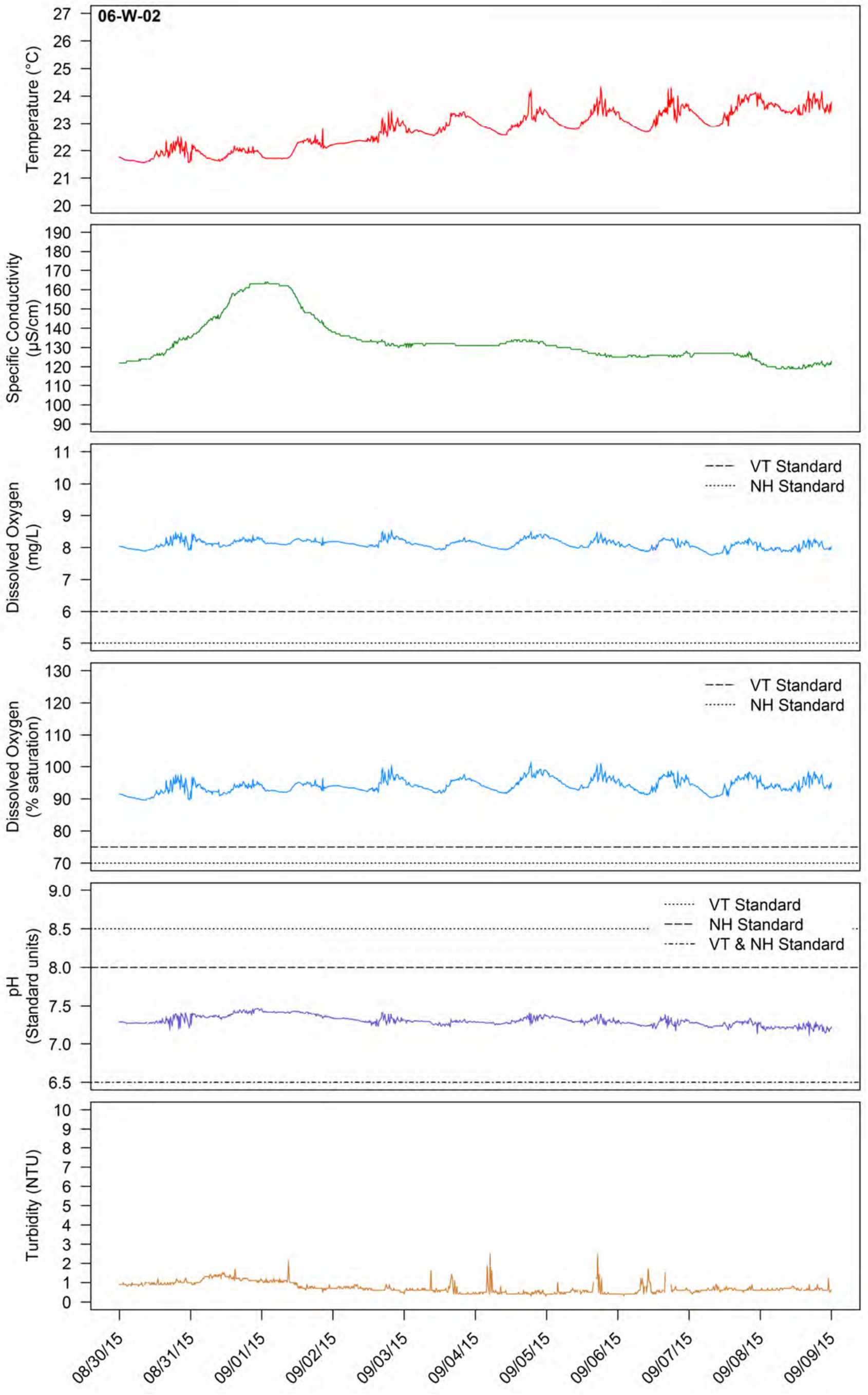

Figure J-3. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-W-02 impoundment water quality monitoring station during the high temperature low flow monitoring period.

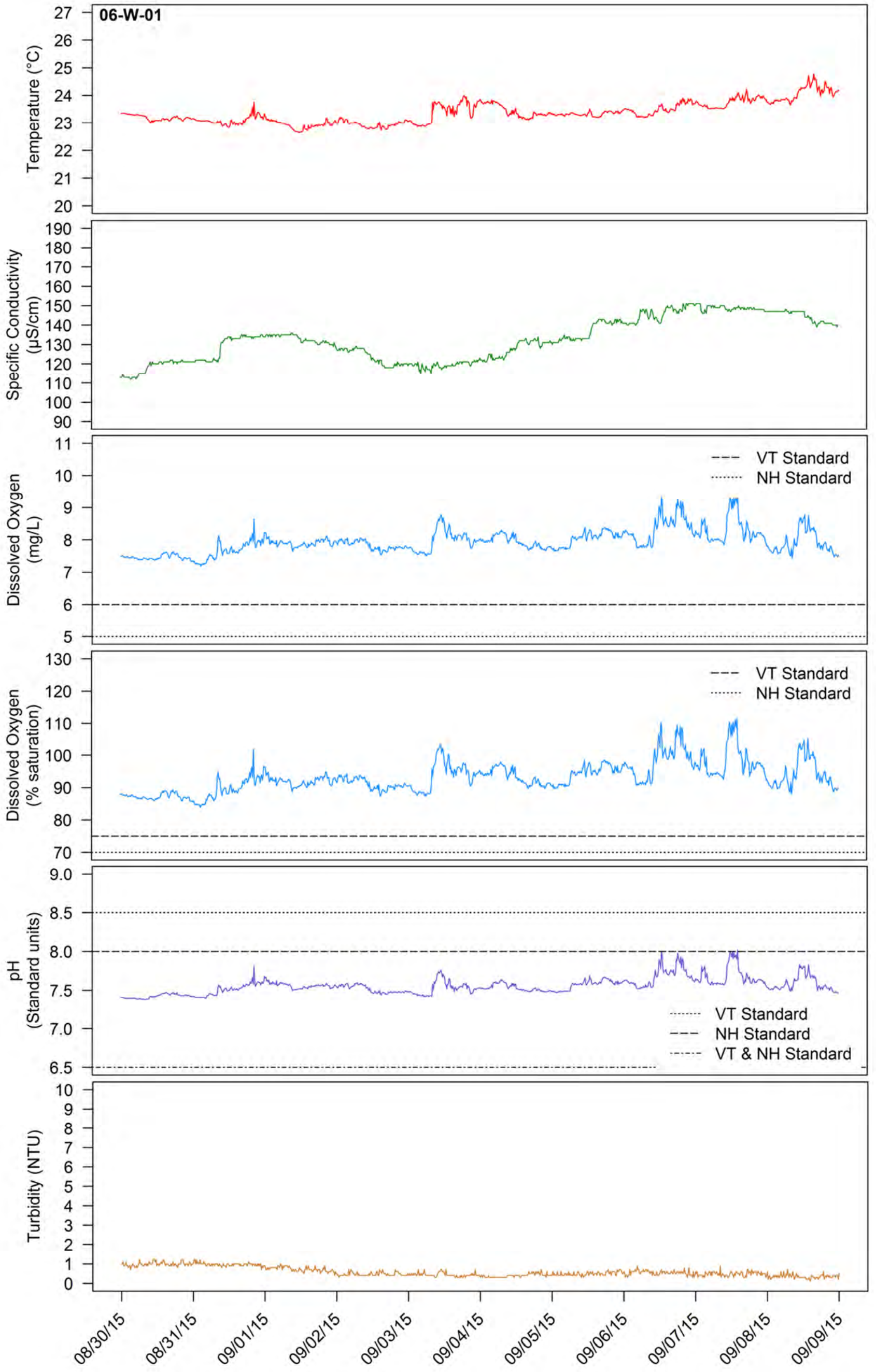

Figure J-4. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-W-01 impoundment water quality monitoring station during the high temperature low flow monitoring period.

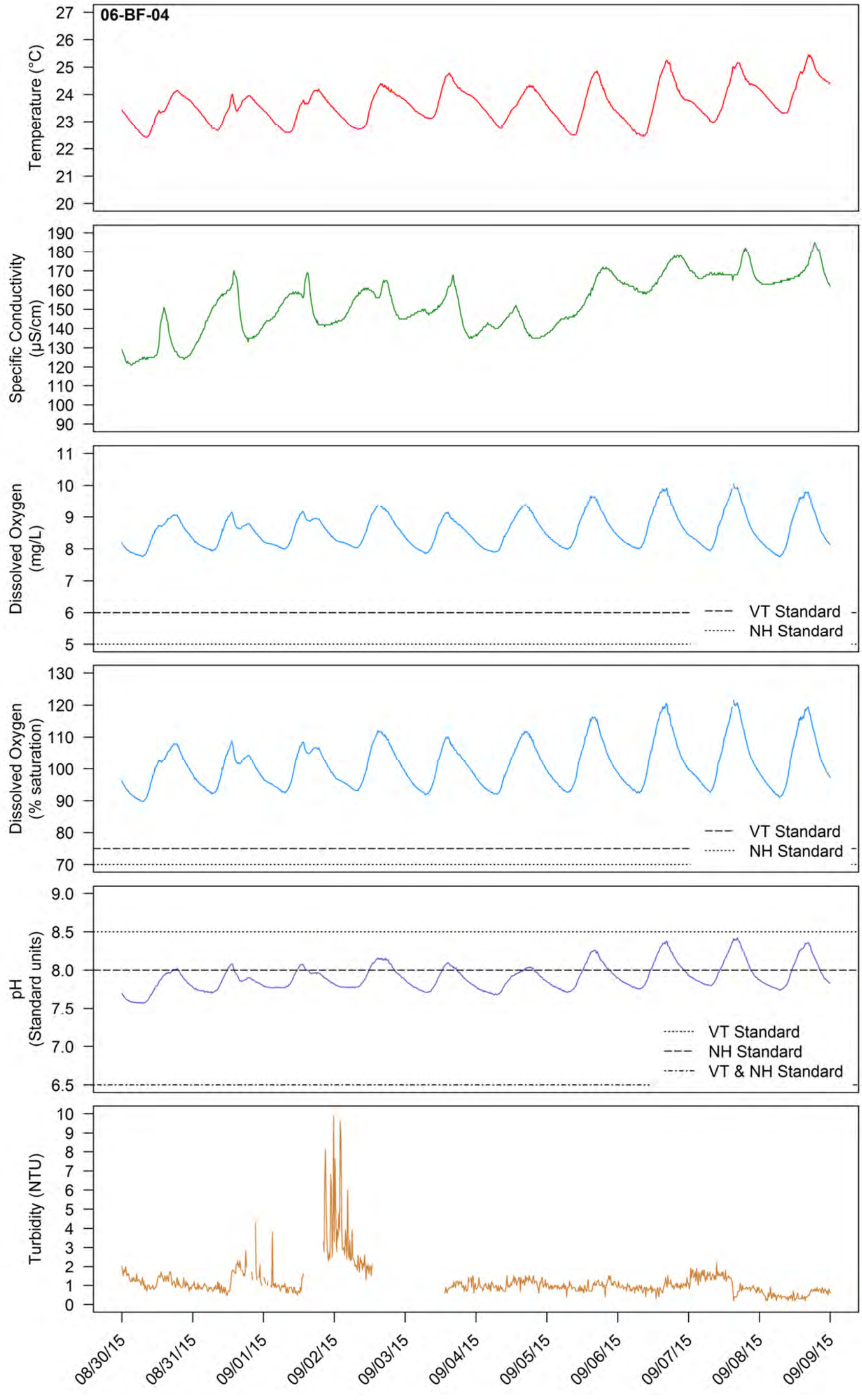

Figure J-5. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-BF-04 upstream water quality monitoring station during the high temperature low flow monitoring period.

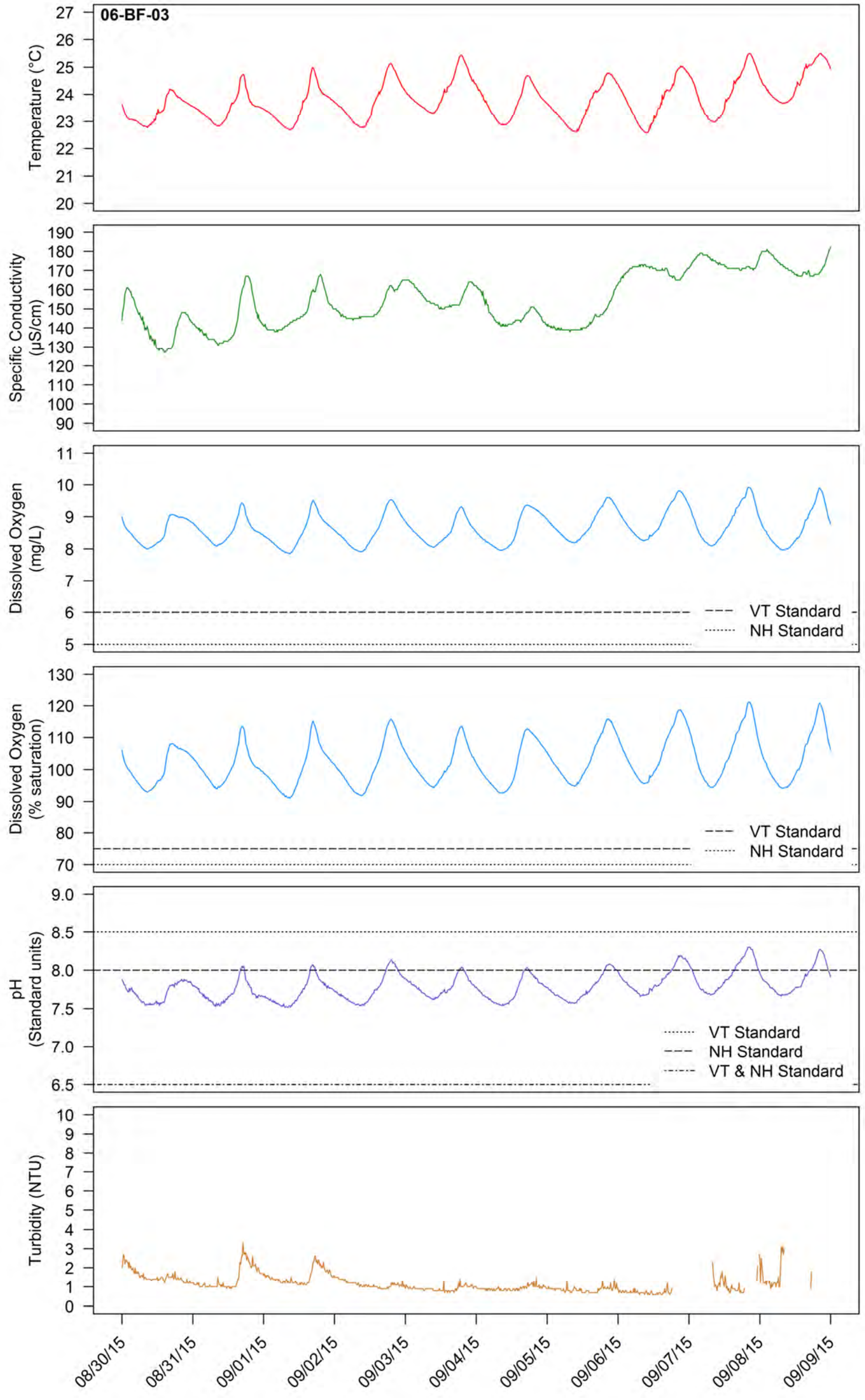

Figure J-6. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-BF-03 impoundment water quality monitoring station during the high temperature low flow monitoring period.

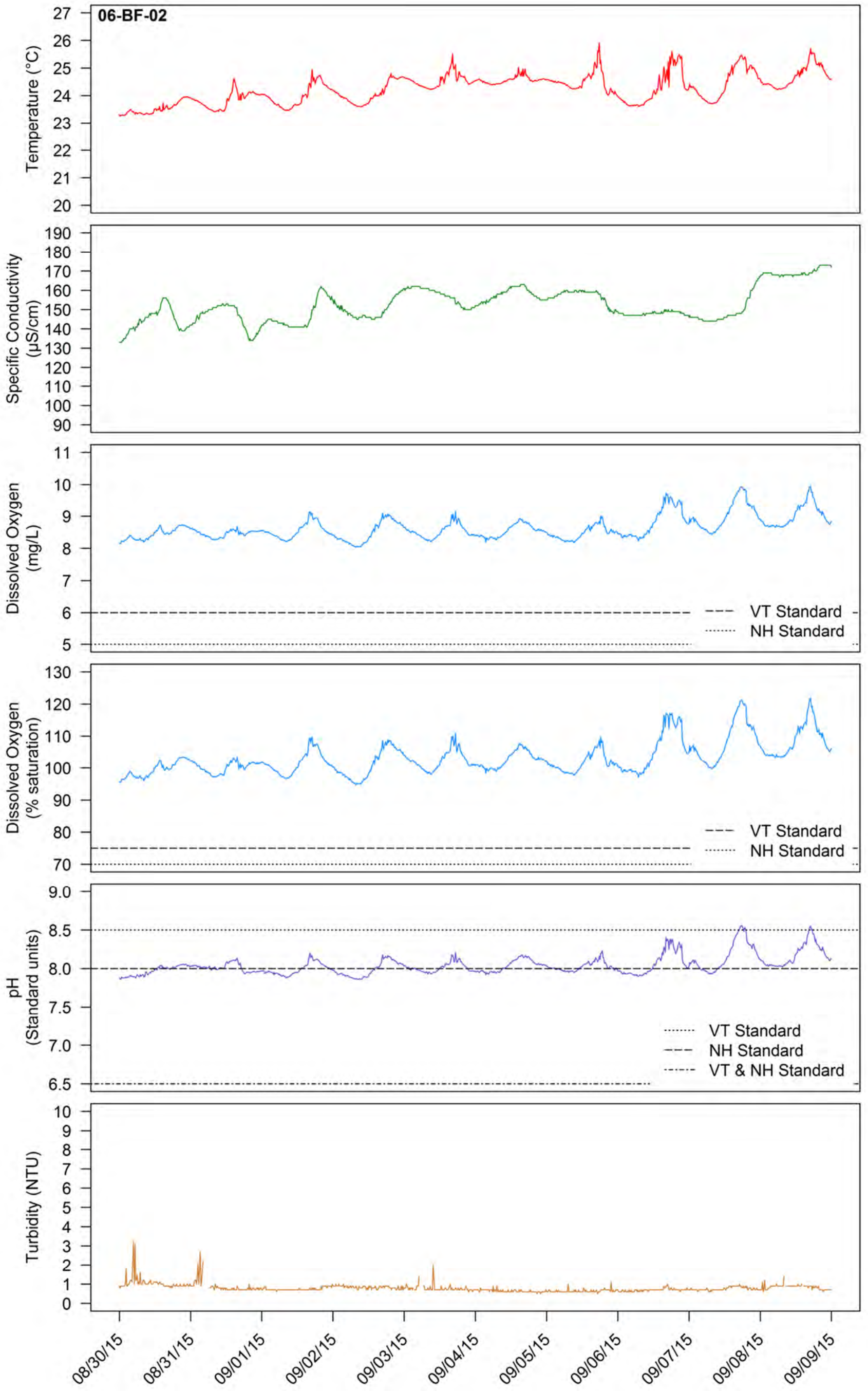

Figure J-7. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-BF-02 impoundment water quality monitoring station during the high temperature low flow monitoring period.

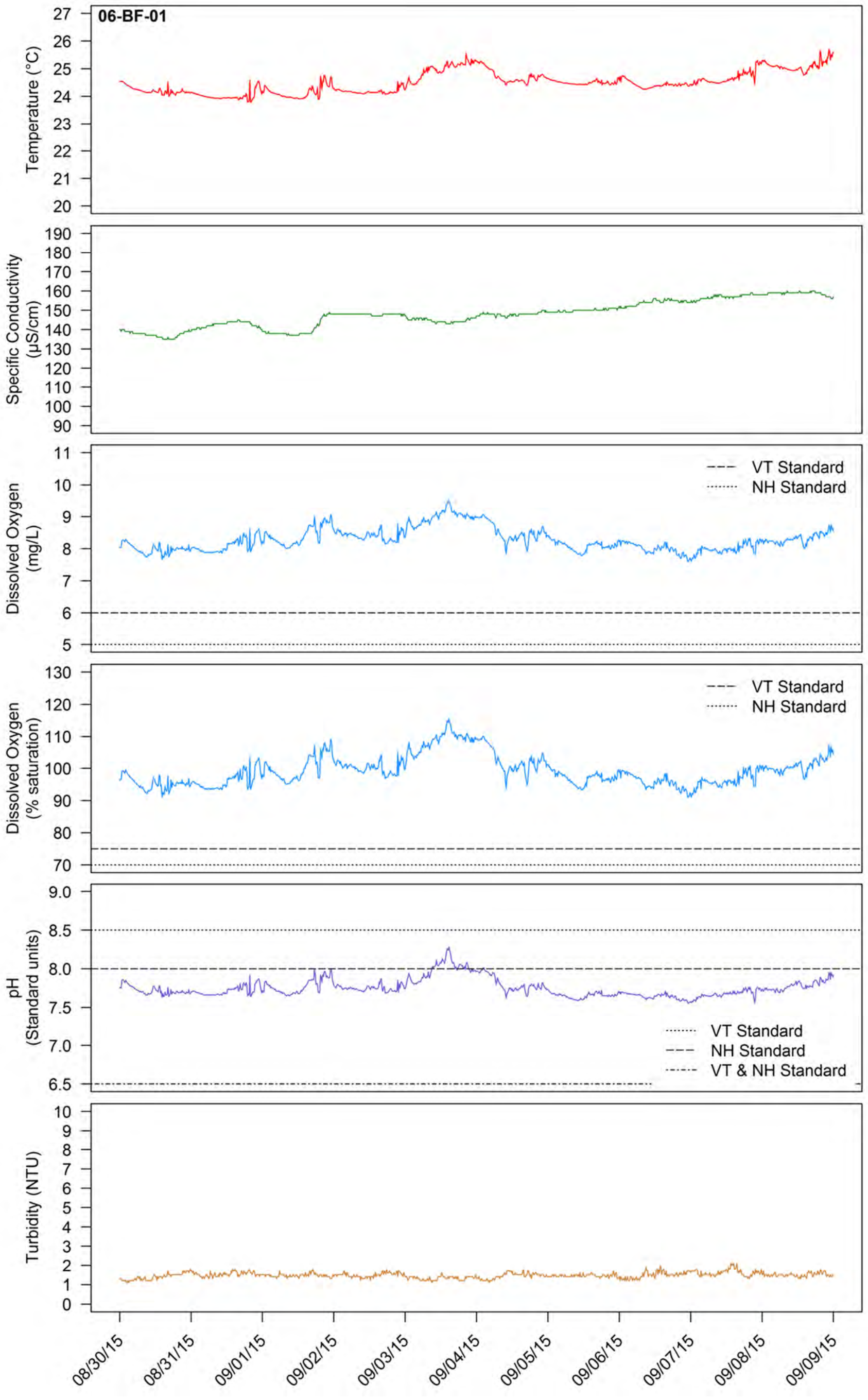

Figure J-8. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-BF-01 impoundment water quality monitoring station during the high temperature low flow monitoring period.

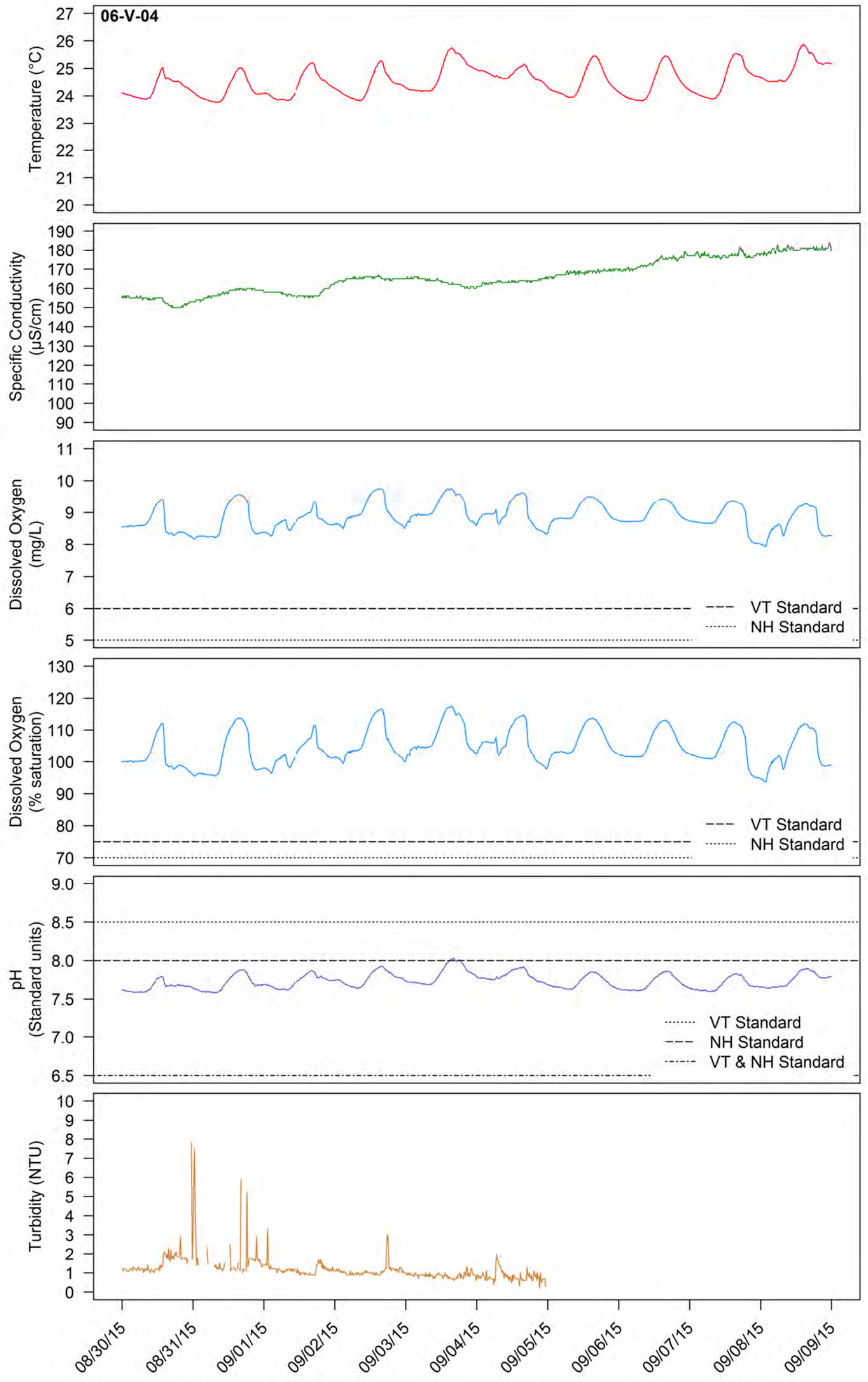

Figure J-9. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-V-04 upstream water quality monitoring station during the high temperature low flow monitoring period.

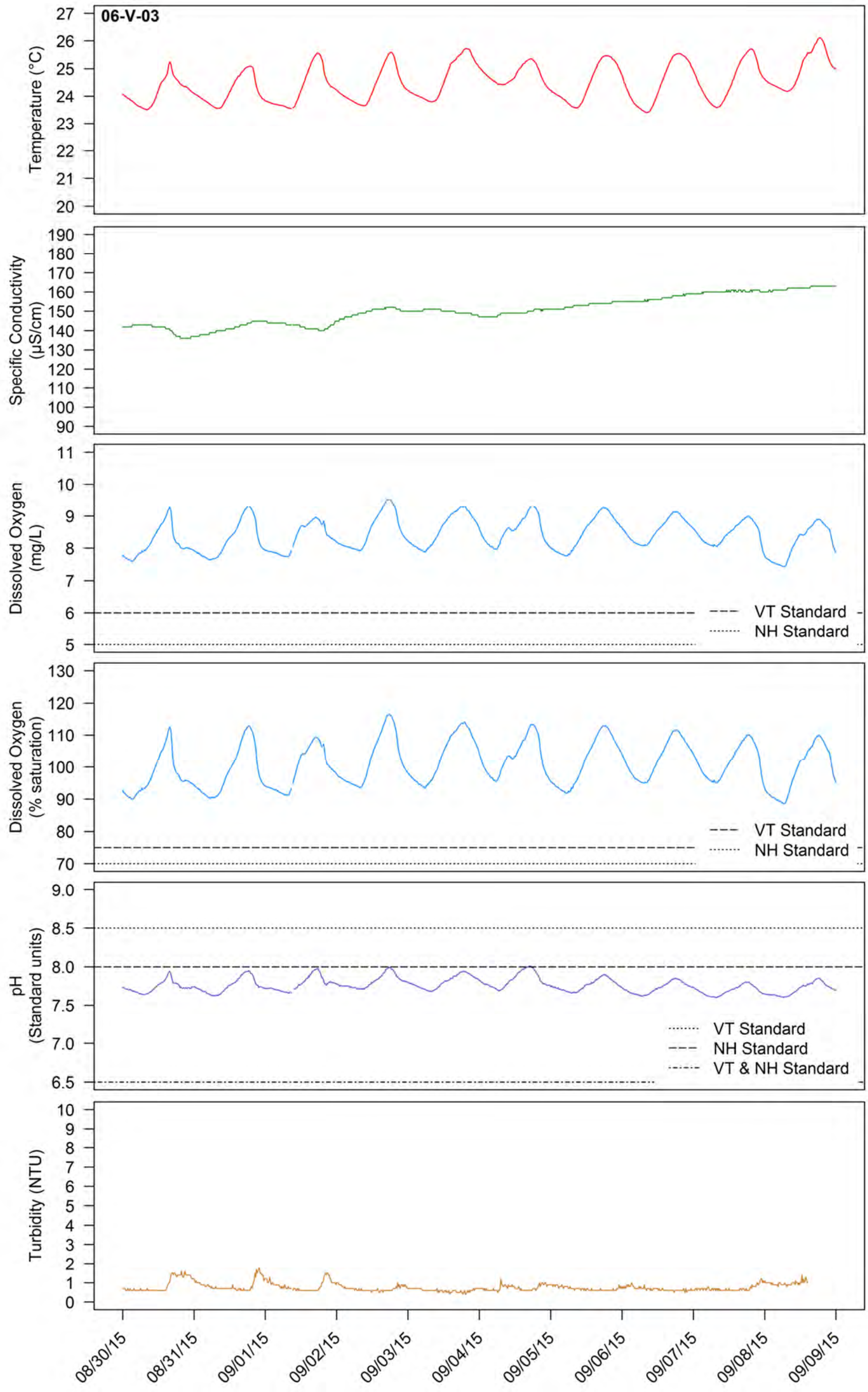

Figure J-10. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-V-03 impoundment water quality monitoring station during the high temperature low flow monitoring period.

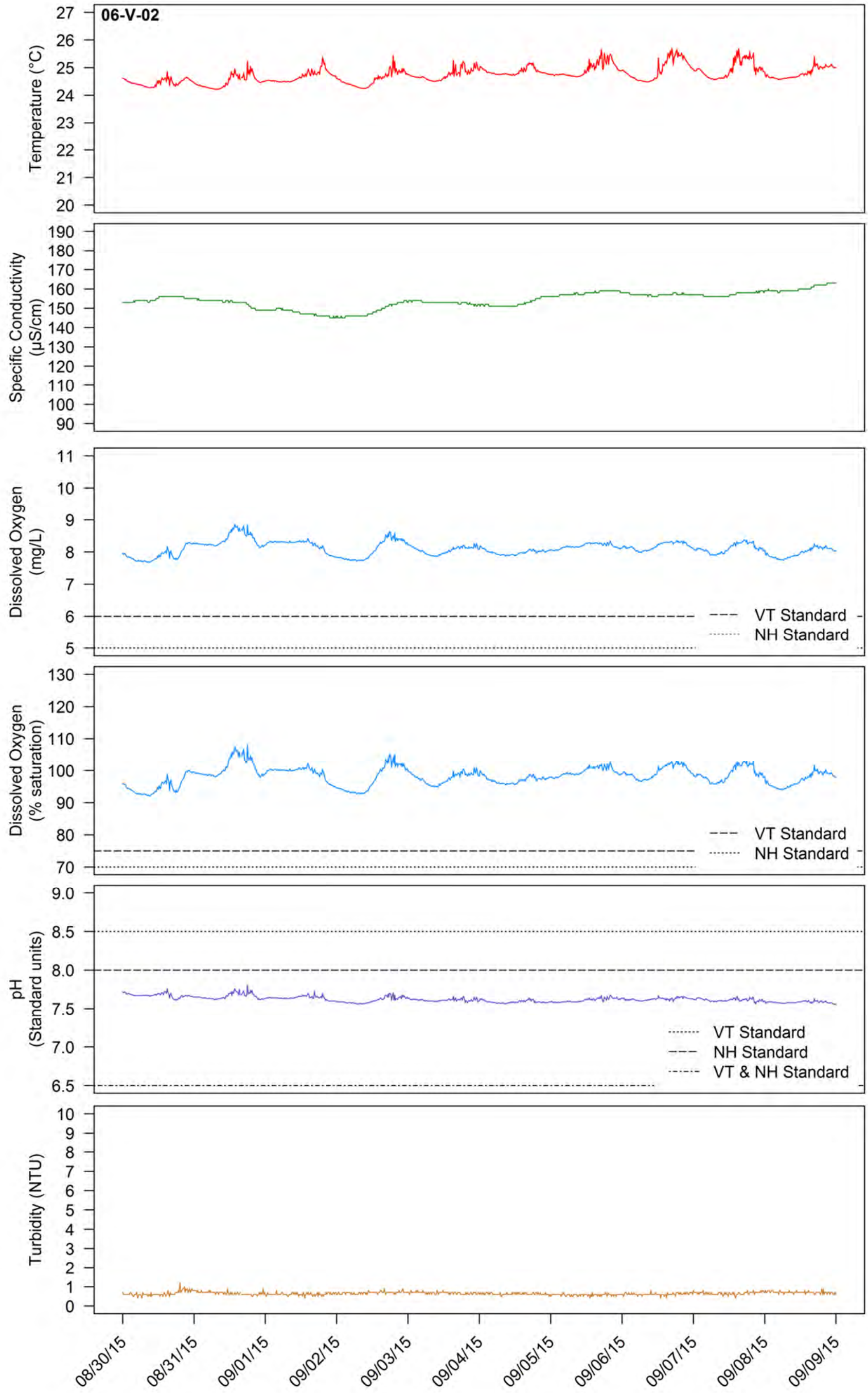

Figure J-11. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-V-02 impoundment water quality monitoring station during the high temperature low flow monitoring period.

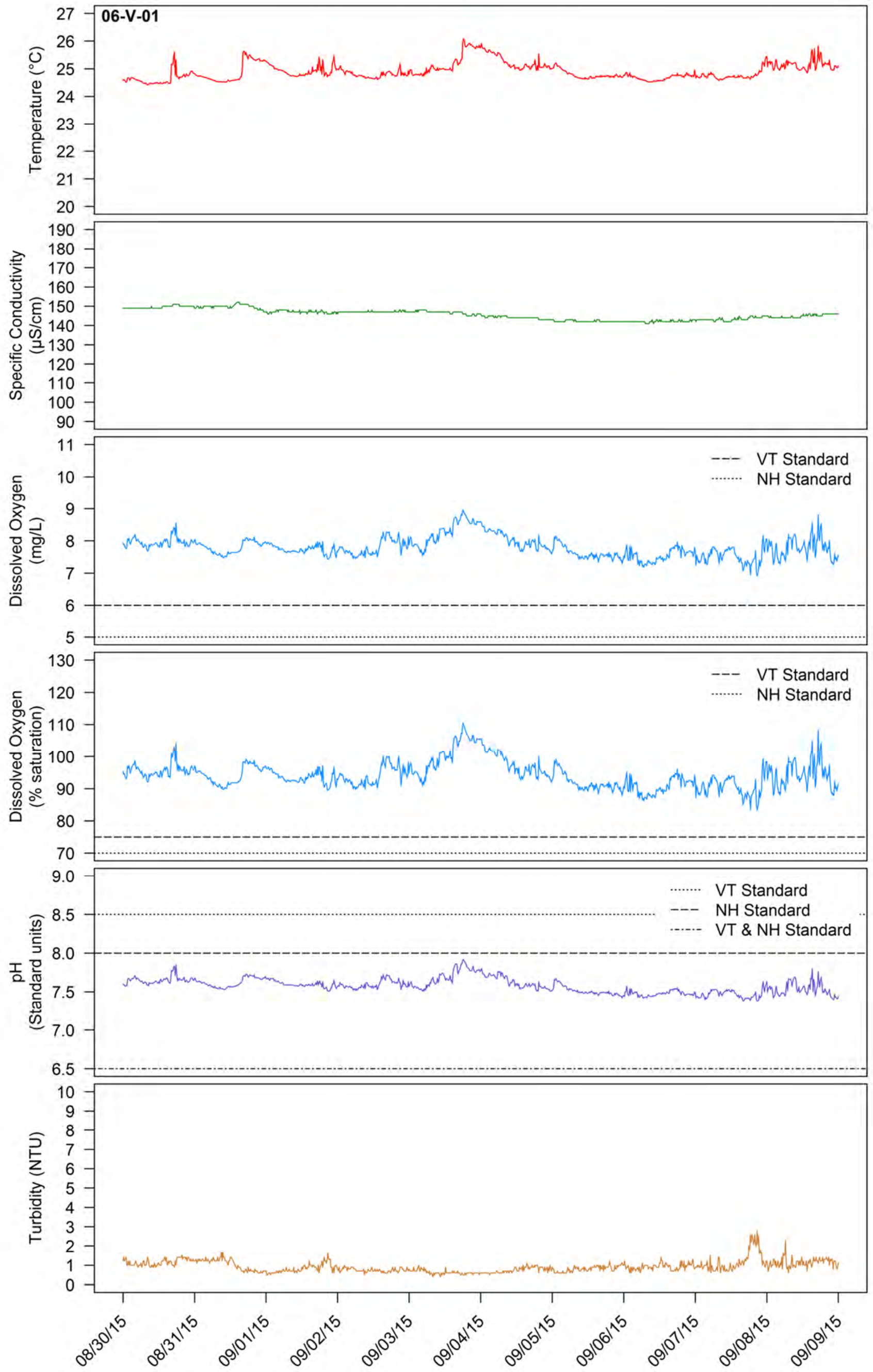

Figure J-12. Continuous temperature, specific conductivity, dissolved oxygen, pH, and turbidity collected at the 06-V-01 impoundment water quality monitoring station during the high temperature low flow monitoring period.