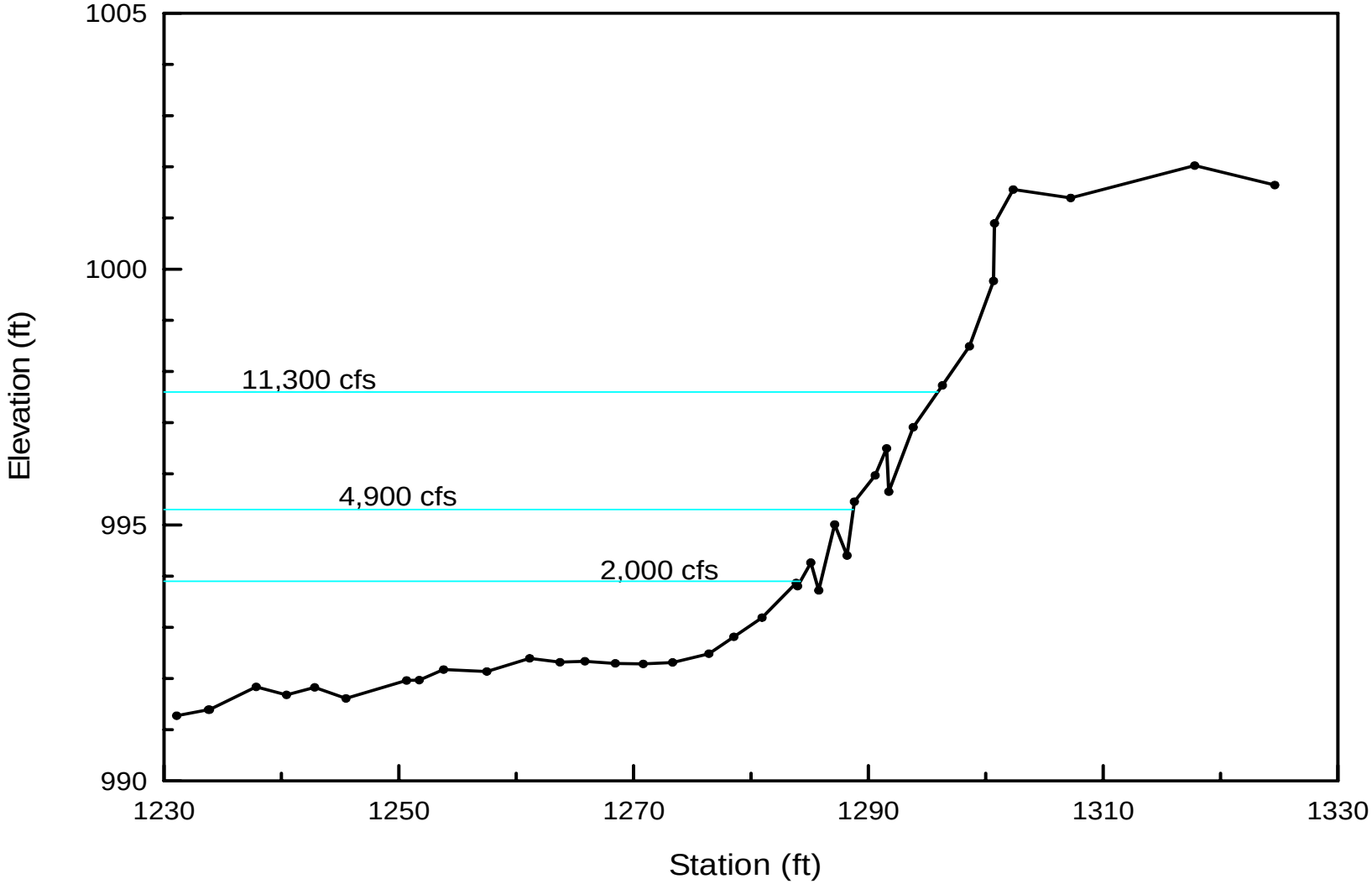
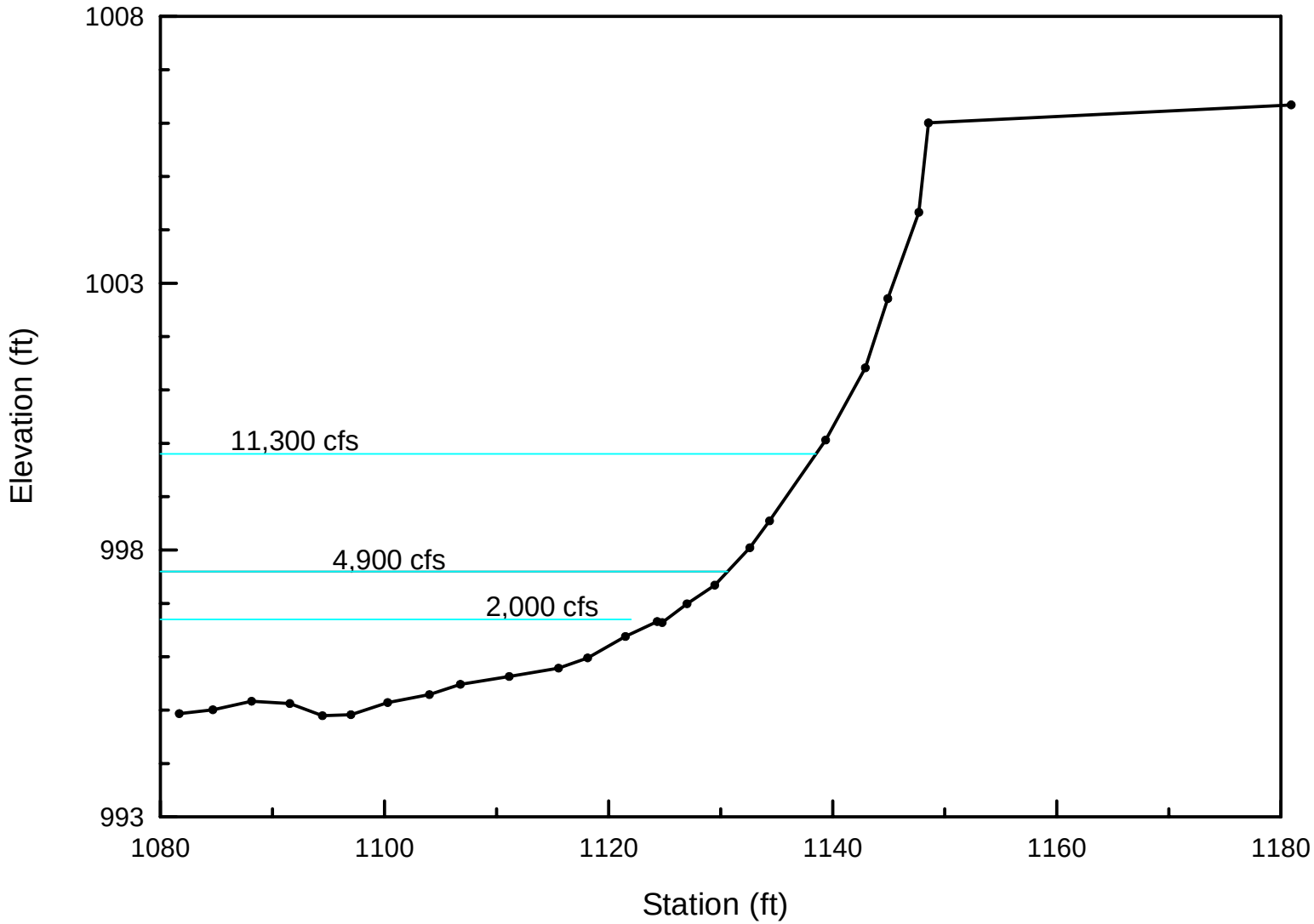
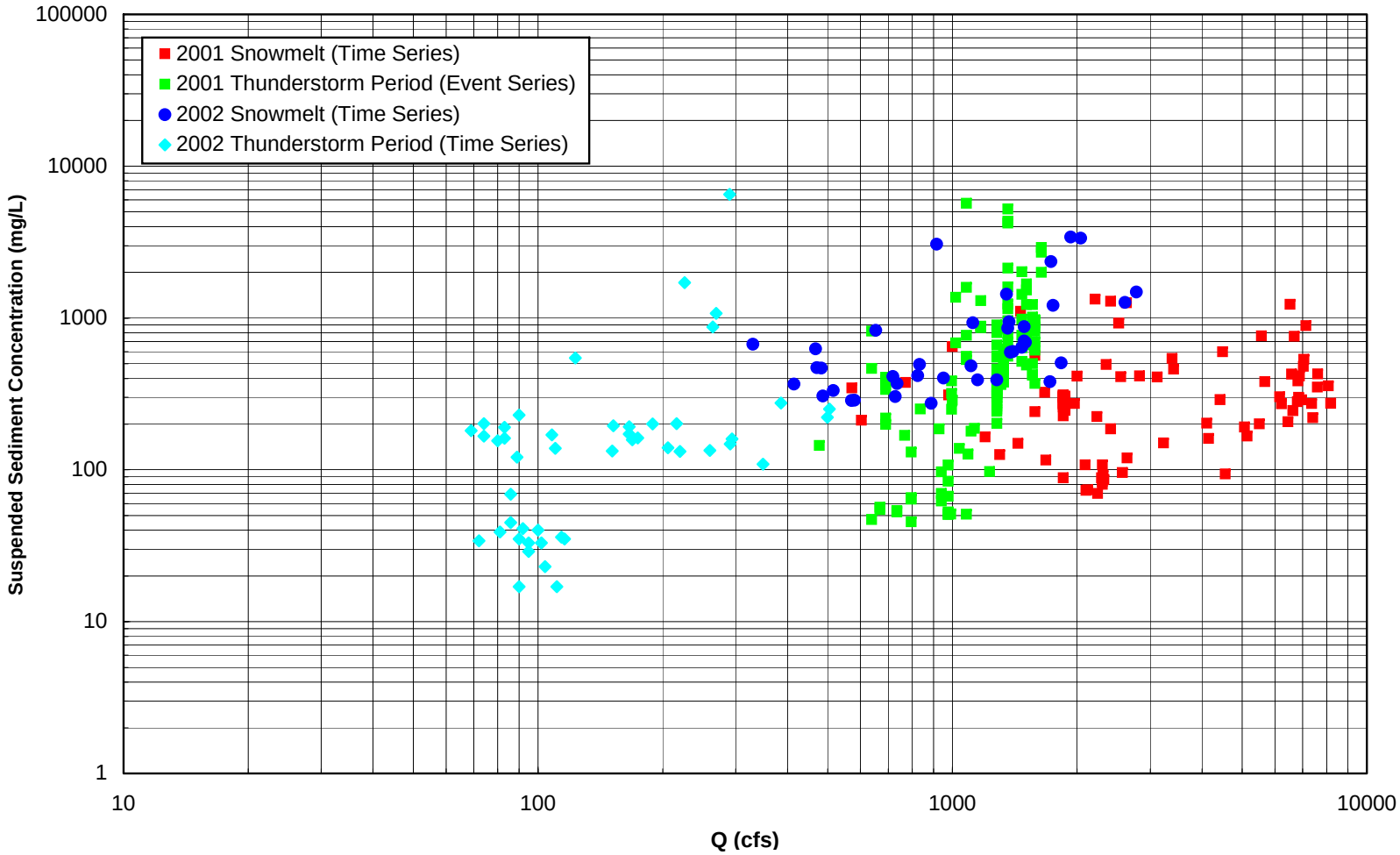
Appendix A
Physical Process Figures



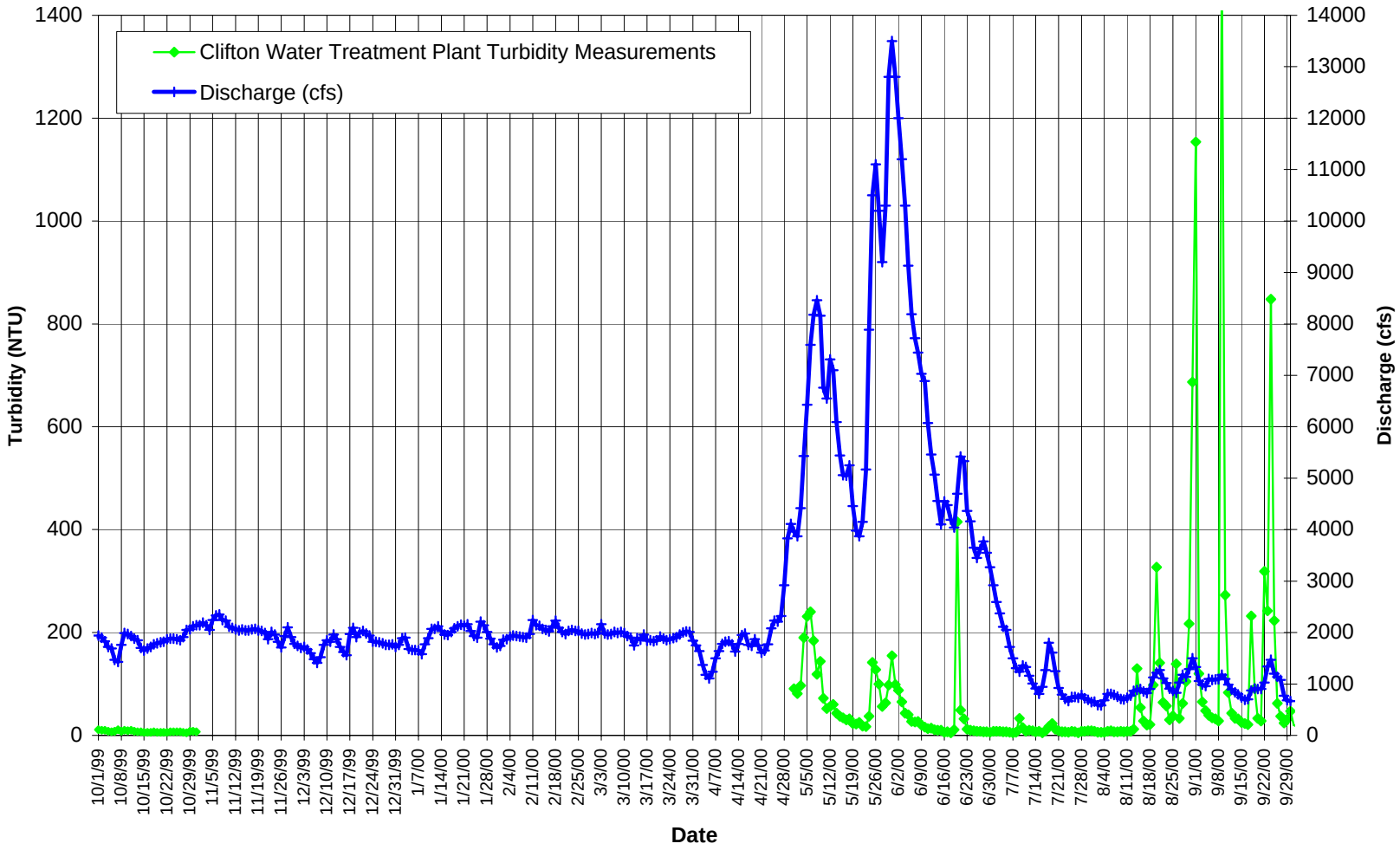
Appendix A, Figure 1. Plot of right end of Cross Section 2 (Run Habitat) showing the measured water-surface elevations for discharges of 2,000, 4,900 and 11,300 cfs.



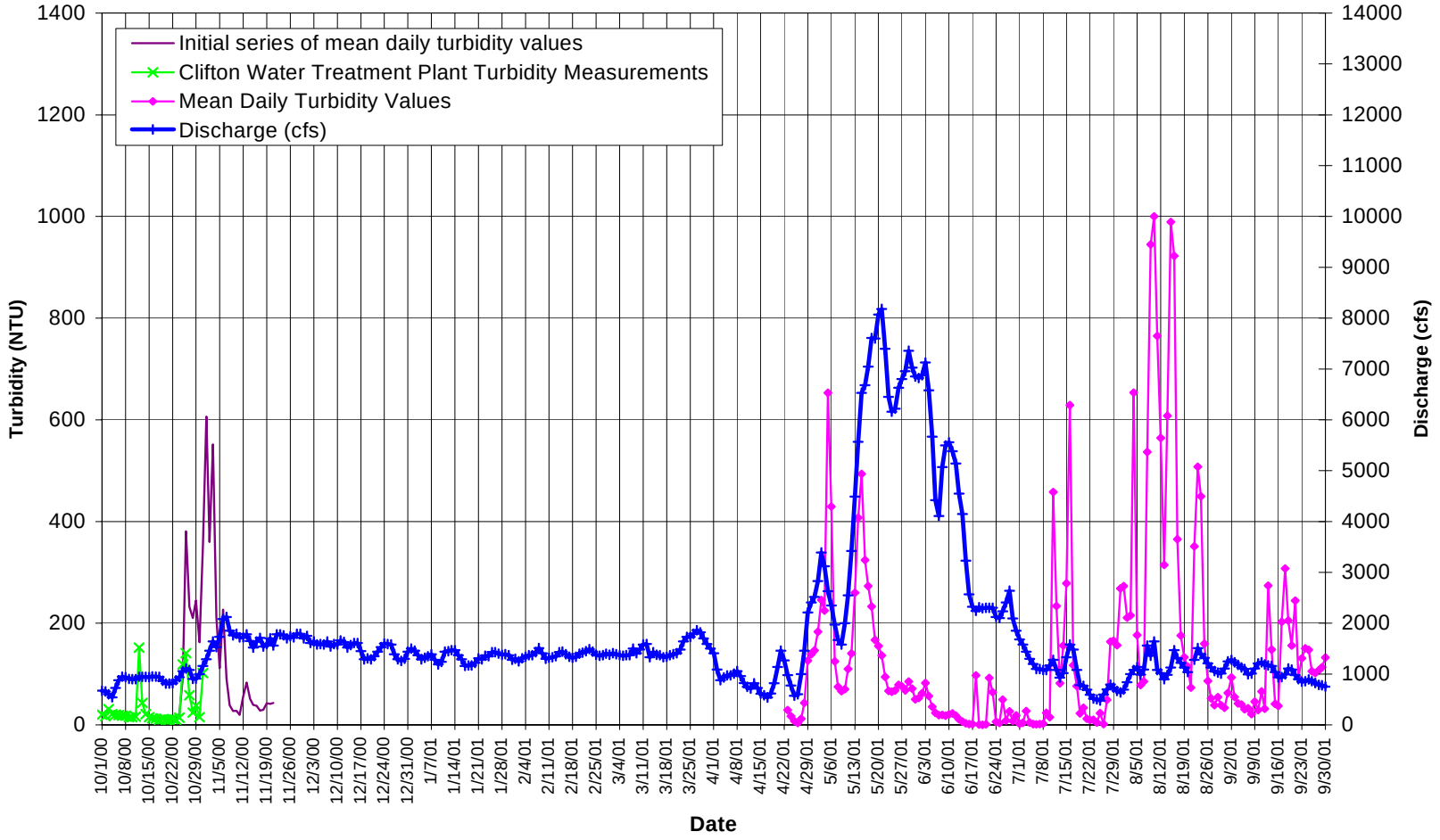
Appendix A, Figure 2. Plot of right end of Cross Section 5 (Riffle Habitat) showing the measured water-surface elevations for discharges of 2,000, 4,900 and 11,300 cfs.



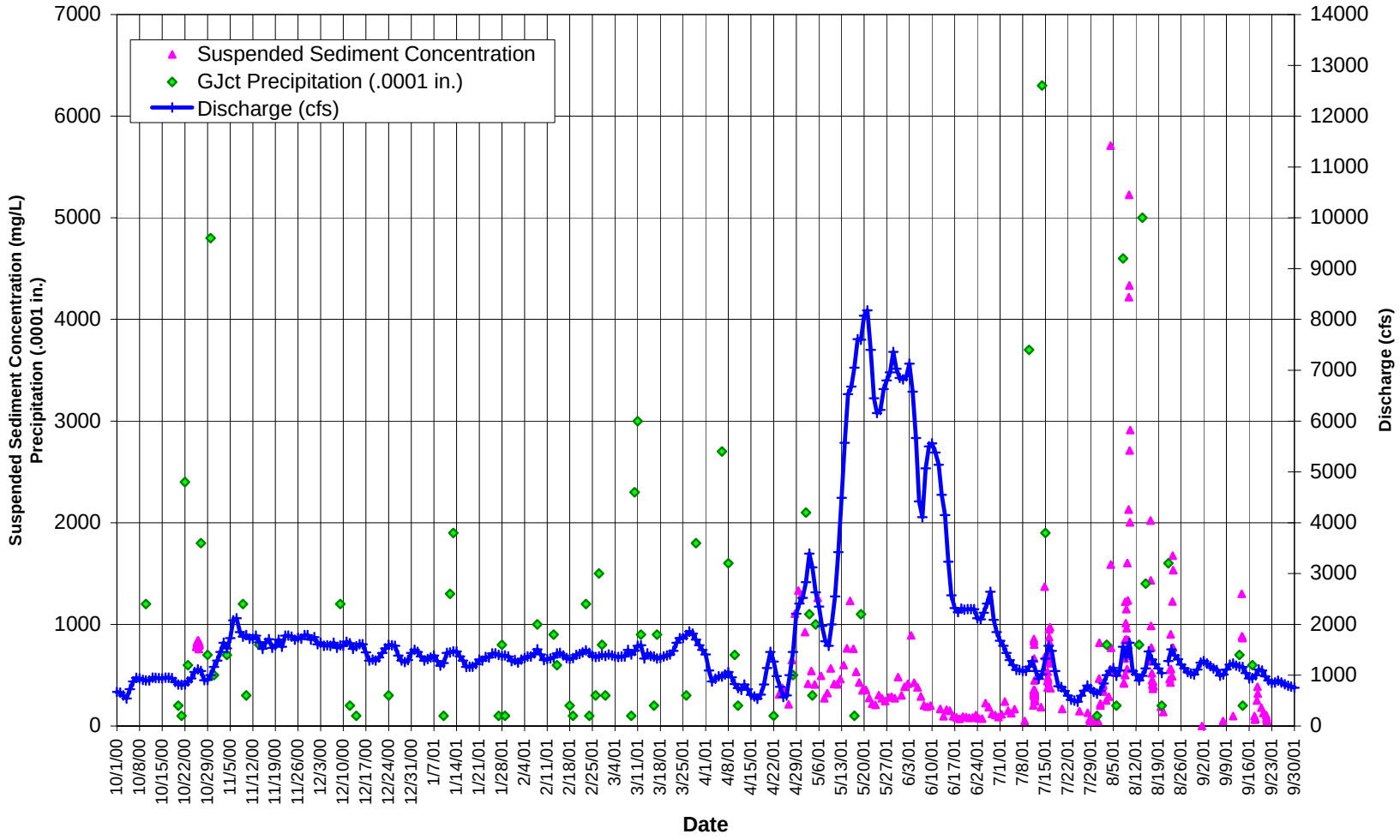
Appendix A, Figure 3. The relationship between discharge at the USGS Palisade gage and estimated suspended-sediment concentrations from the Clifton site. The suspended-sediment data are segregated by year (2001 and 2002) and season (during the runoff season, and post-runoff season).



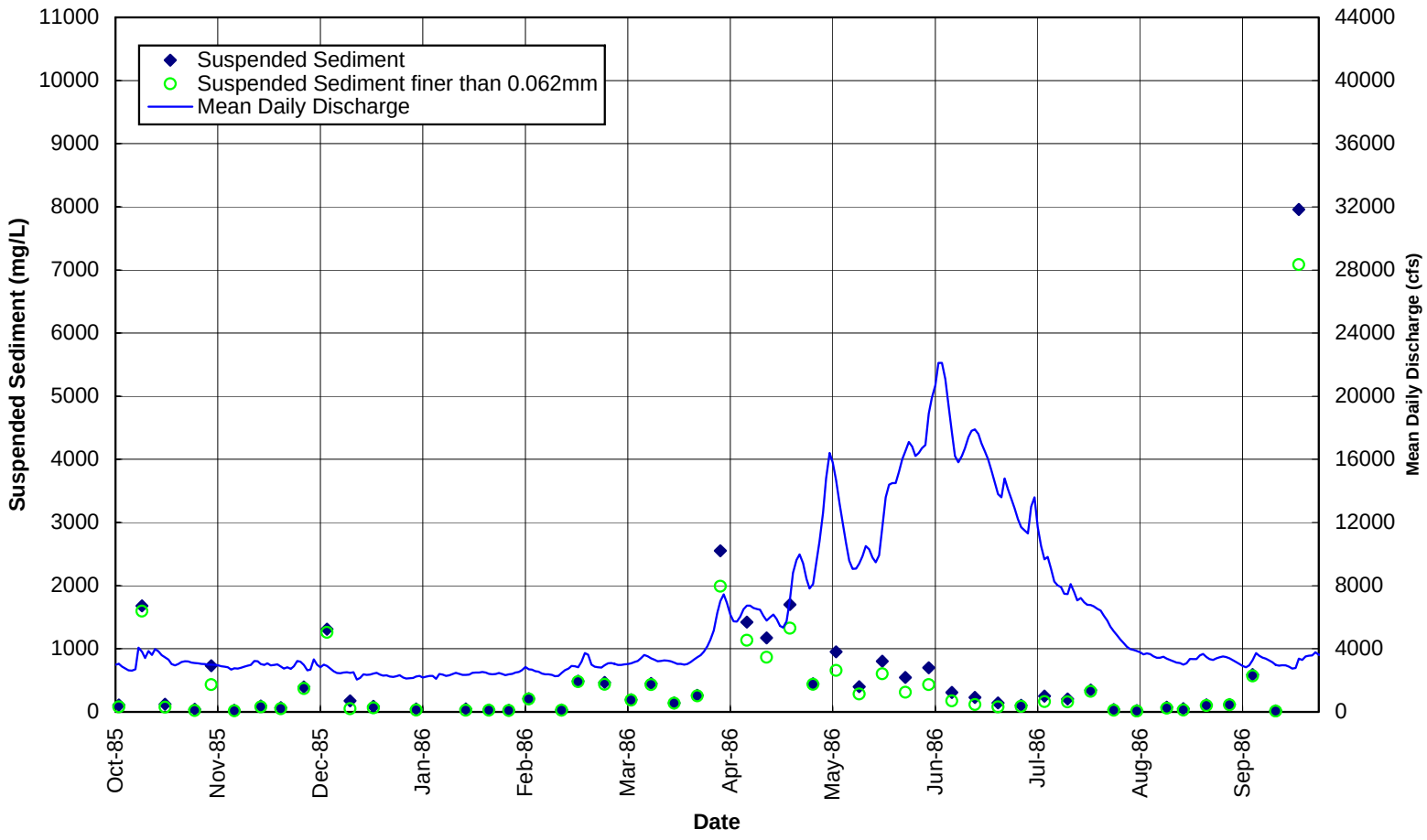
Appendix A, Figure 4. Summary of discharge and turbidity data for the Clifton site for WY 2000.



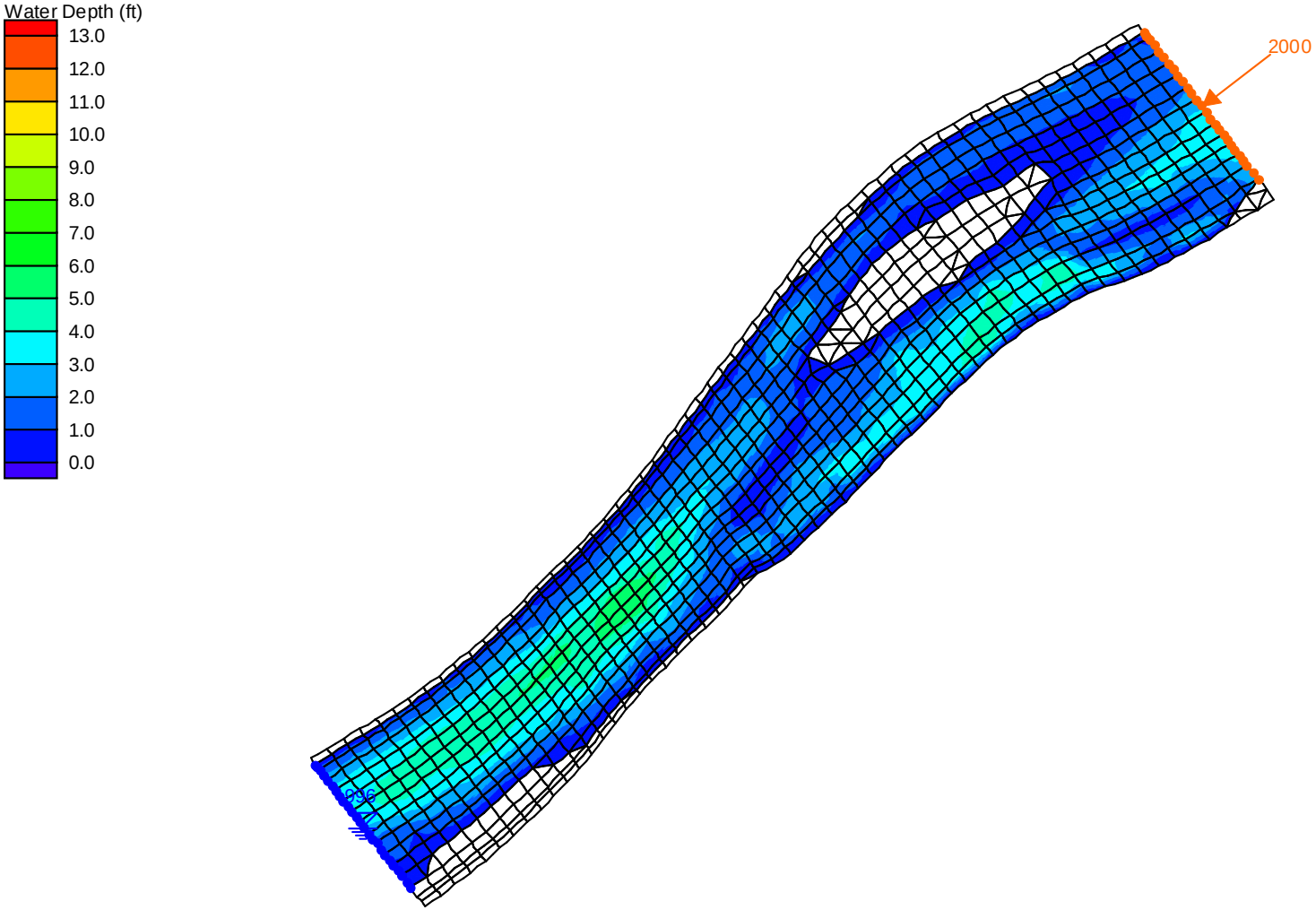
Appendix A, Figure 5. Summary of discharge and turbidity data for the Clifton site for WY 2001.



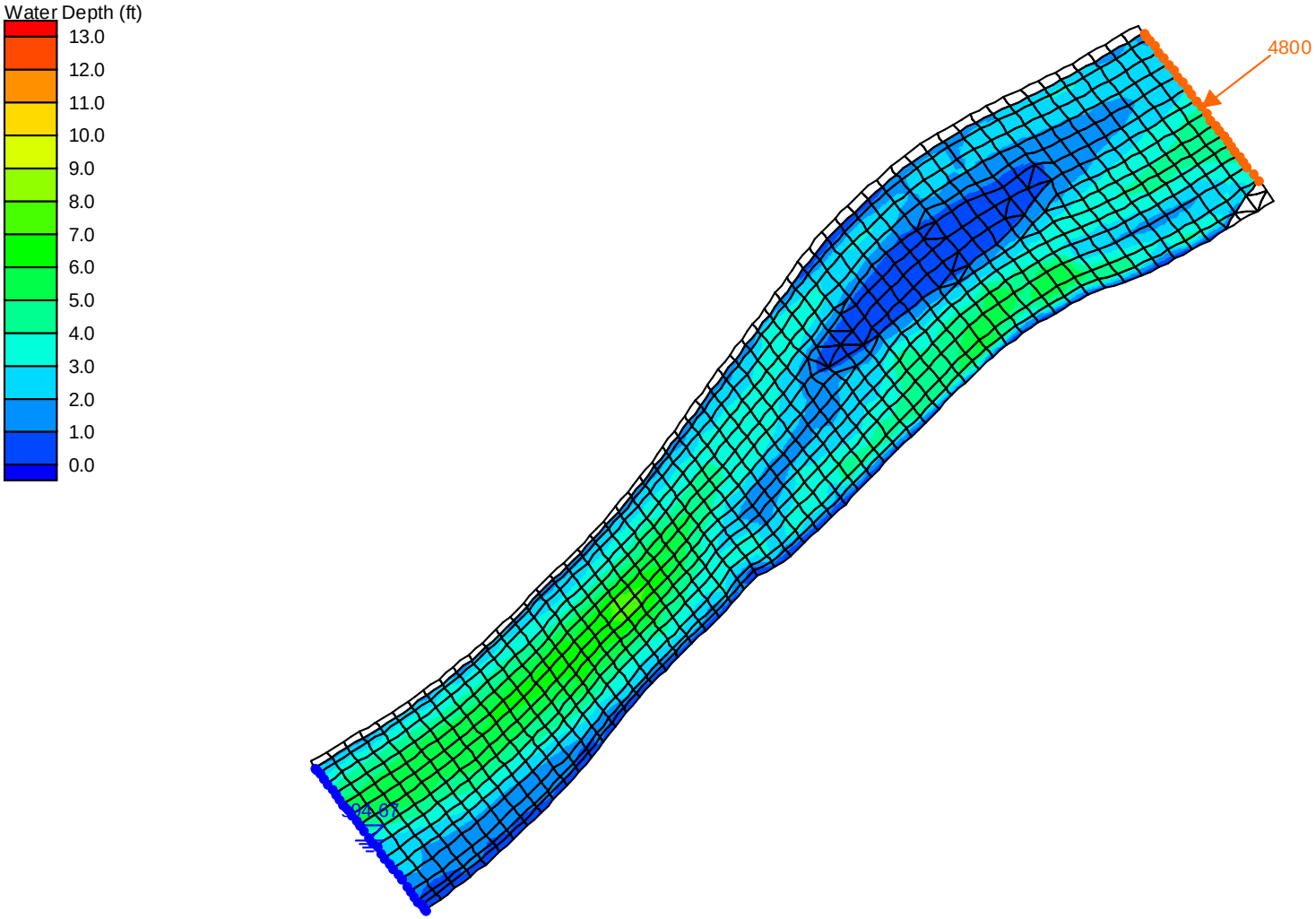
Appendix A, Figure 6. Summary of discharge, and suspended-sediment concentration data for the Clifton site for WY 2001, and Grand Junction precipitation data for the same time period.



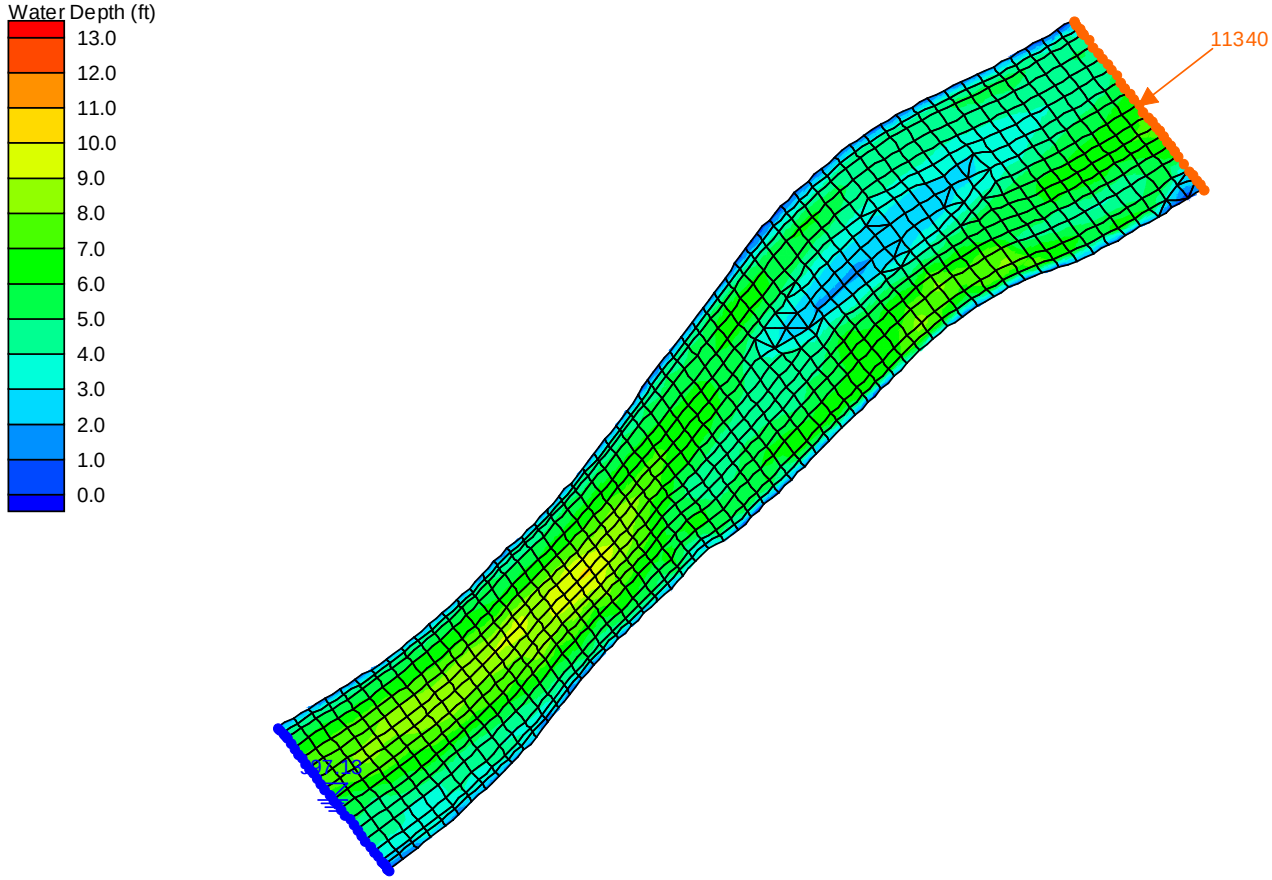
Appendix A, Figure 7. Annual hydrograph for WY 1986 at the Cameo gage showing the frequency of suspended-sediment measurements and the resulting suspended-sediment concentrations.



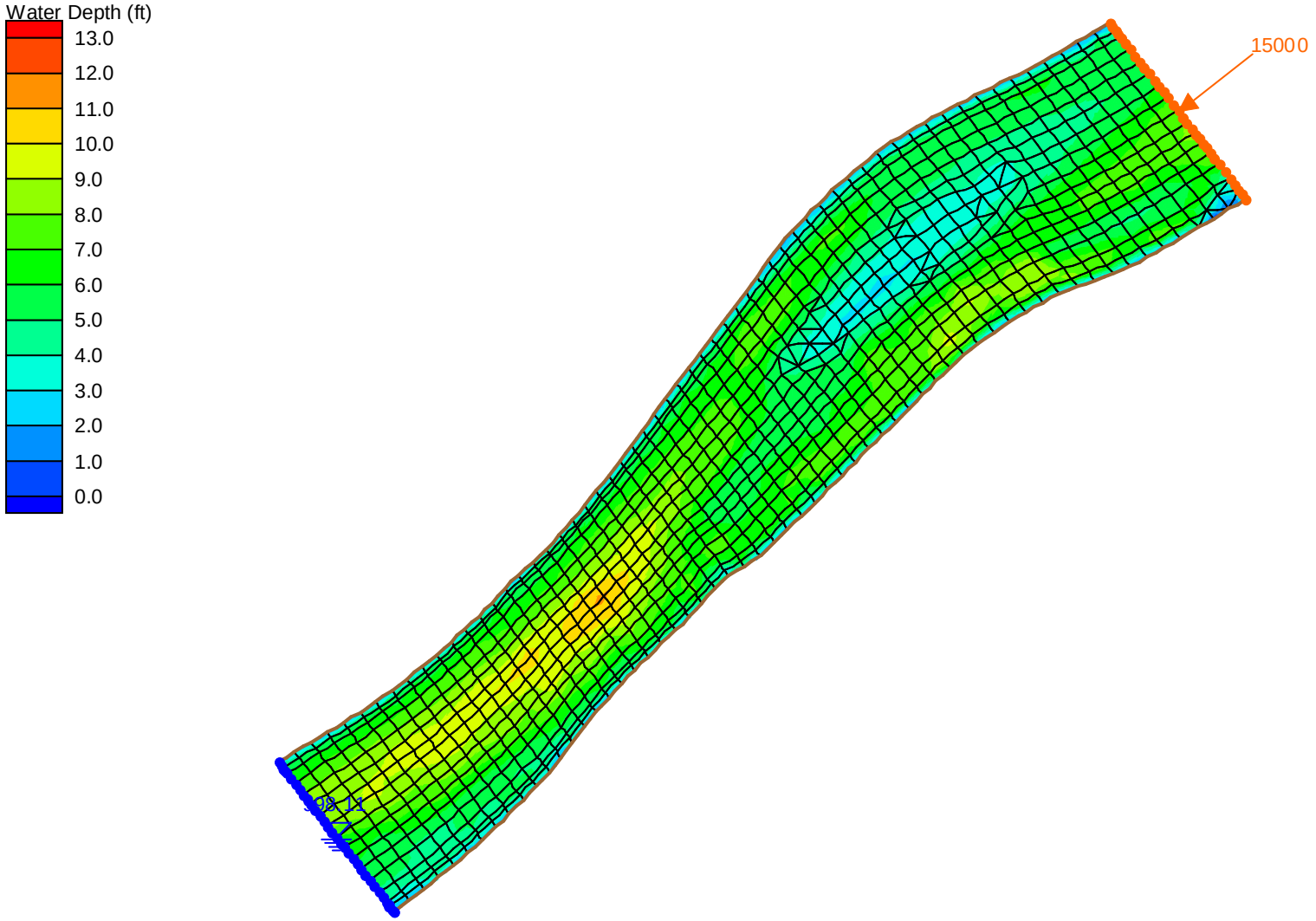
Appendix A, Figure 8. Color-gradient plot of predicted water depth from 2-D model of Clifton site at a discharge of 2,000 cfs.



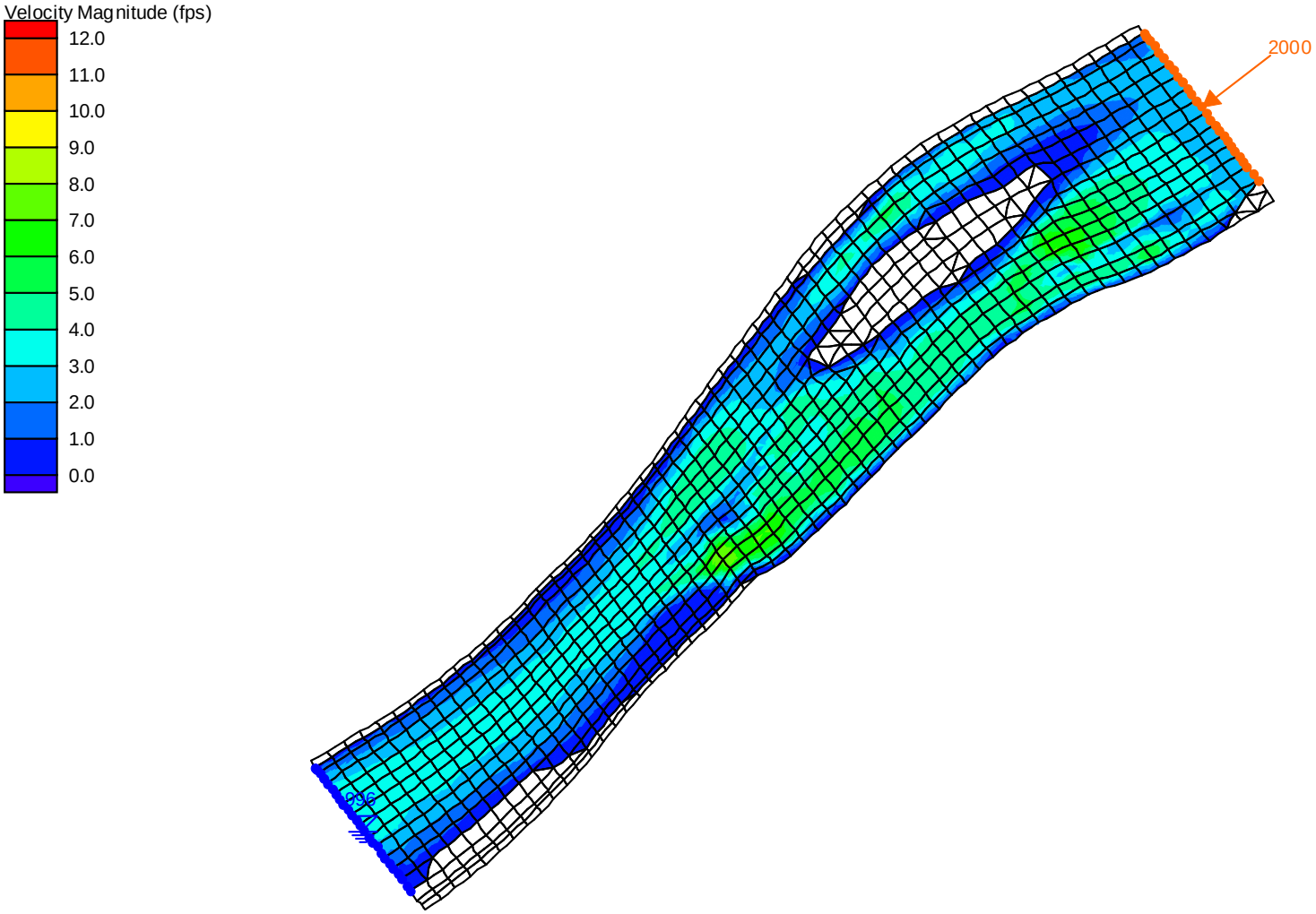
Appendix A, Figure 9. Color-gradient plot of predicted water depth from 2-D model of Clifton site at a discharge of 4,800 cfs.



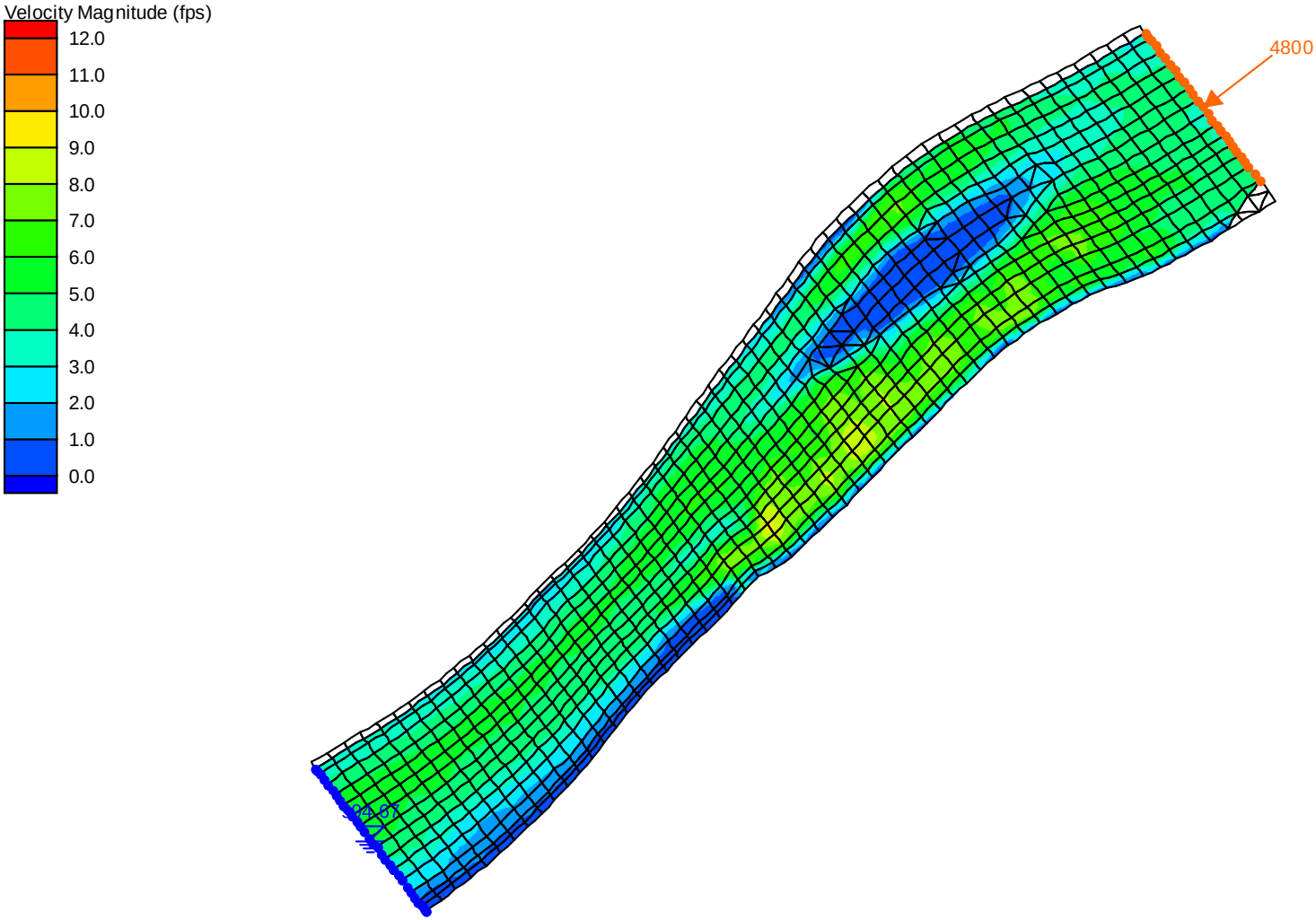
Appendix A, Figure 10. Color-gradient plot of predicted water depth from 2-D model of Clifton site at a discharge of 11,340 cfs.



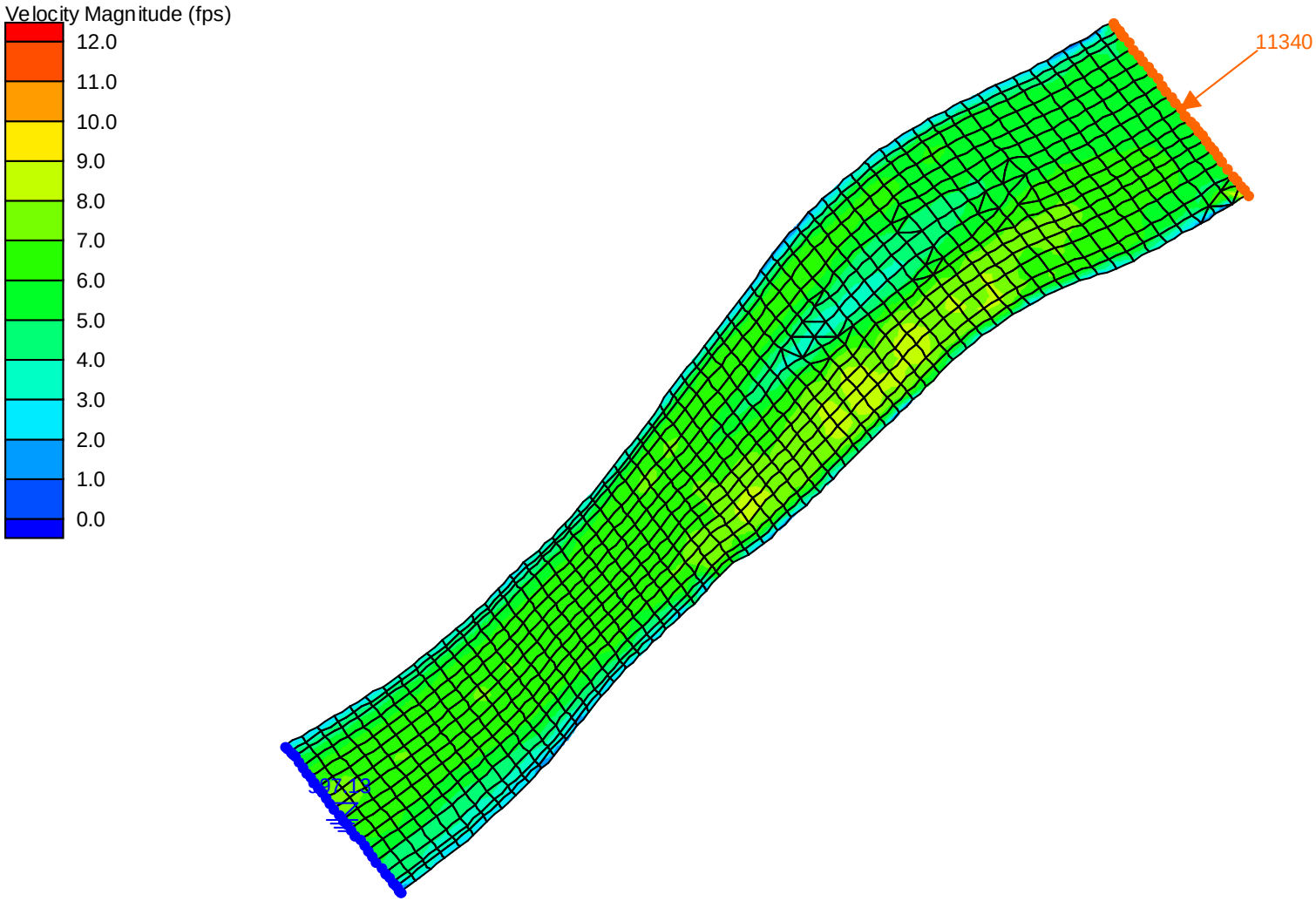
Appendix A, Figure 11. Color-gradient plot of predicted water depth from 2-D model of Clifton site at a discharge of 15,000 cfs.



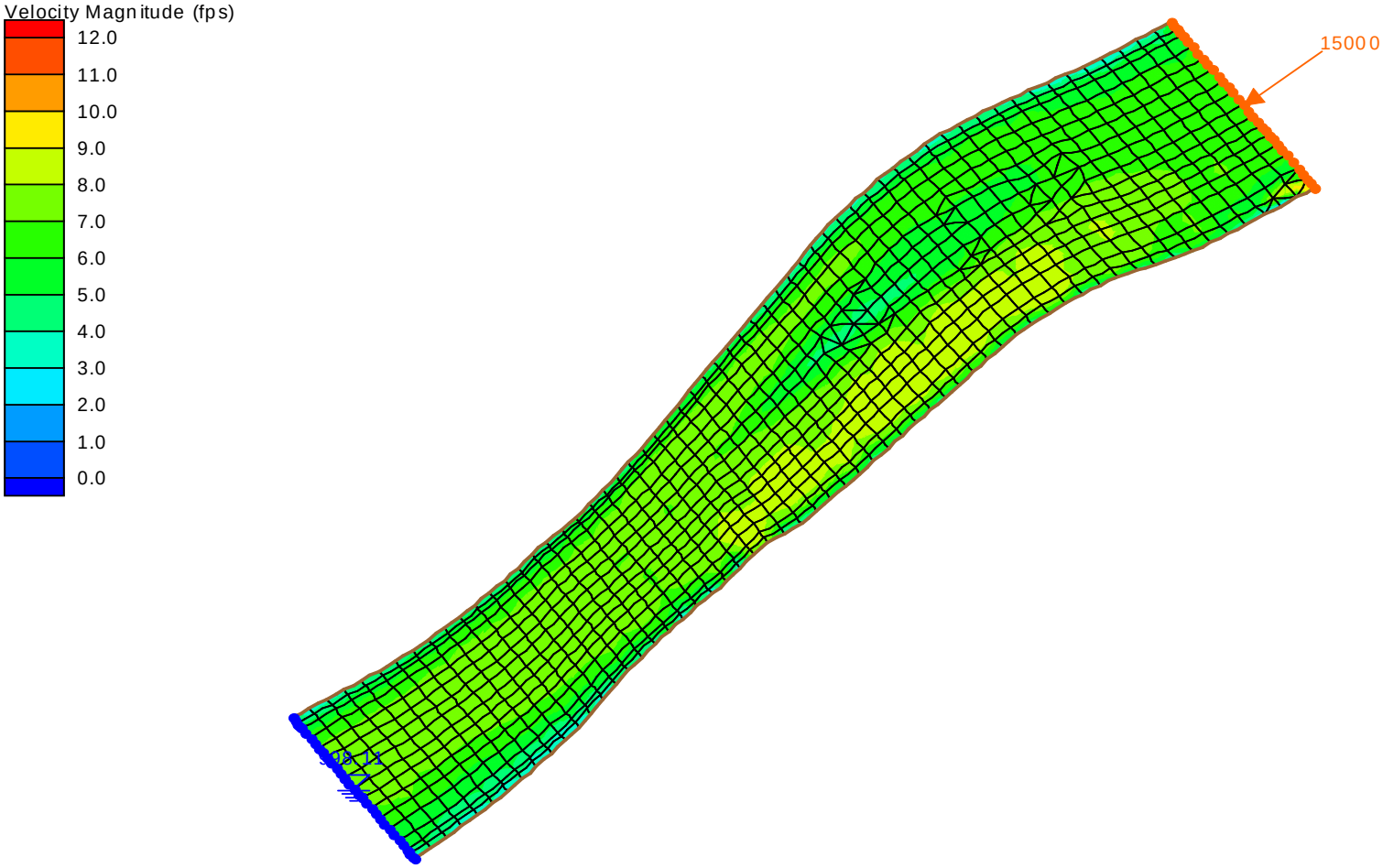
Appendix A, Figure 12. Color-gradient plot of predicted velocity from 2-D model of Clifton site at a discharge of 2,000 cfs.



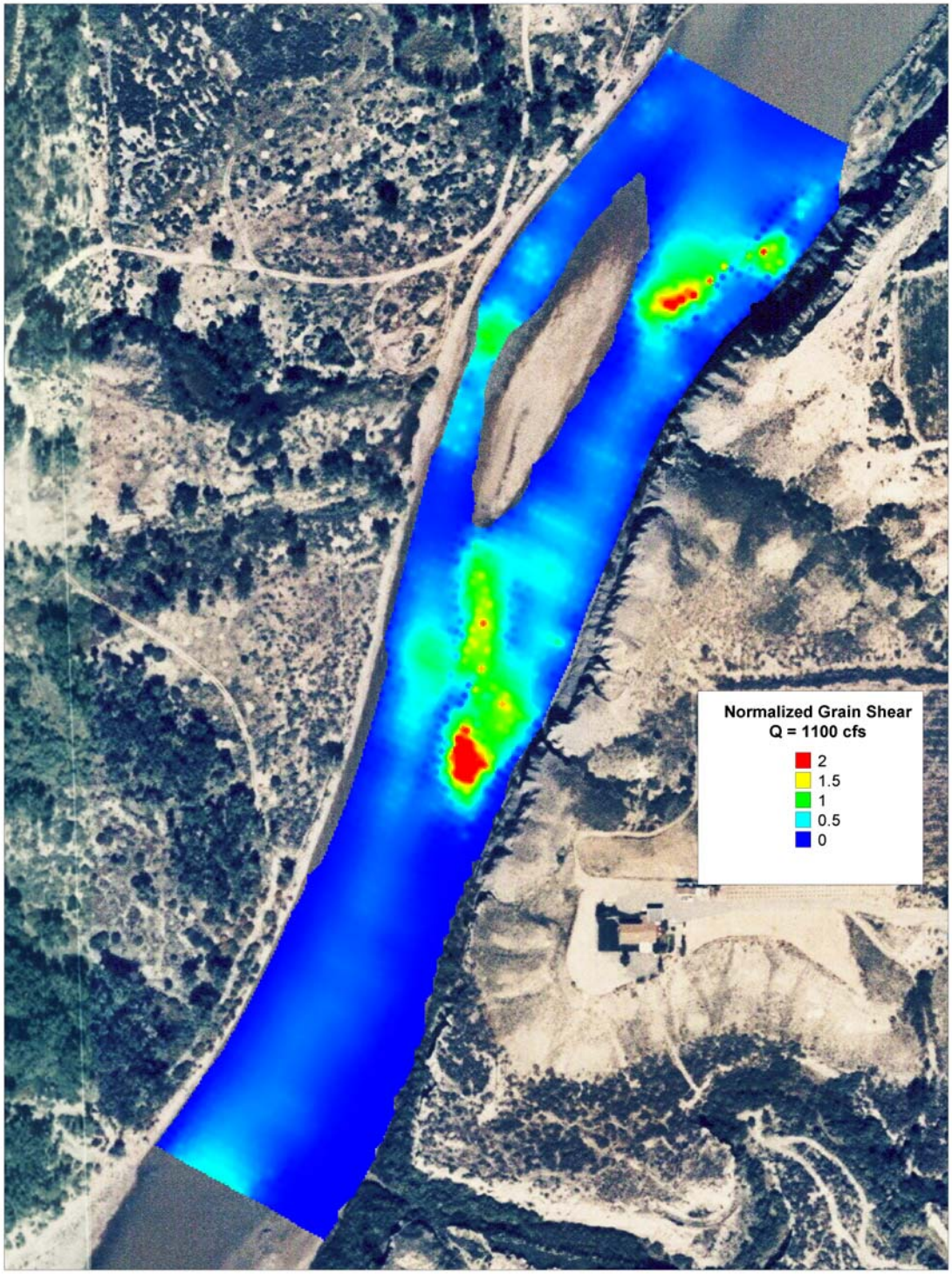
Appendix A, Figure 13. Color-gradient plot of predicted velocity from 2-D model of Clifton site at a discharge of 4,800 cfs.



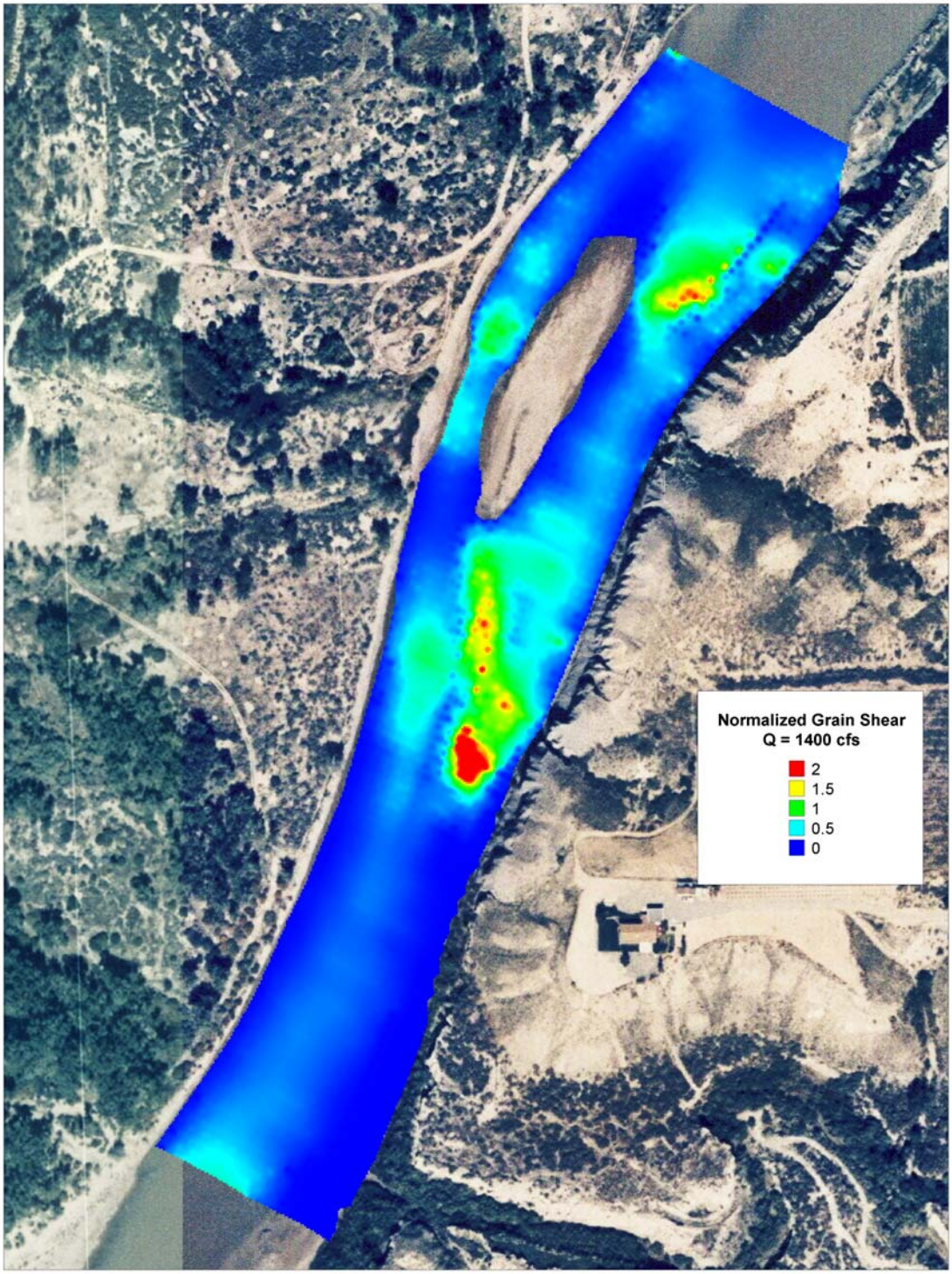
Appendix A, Figure 14. Color-gradient plot of predicted velocity from 2-D model of Clifton site at a discharge of 11,340 cfs.



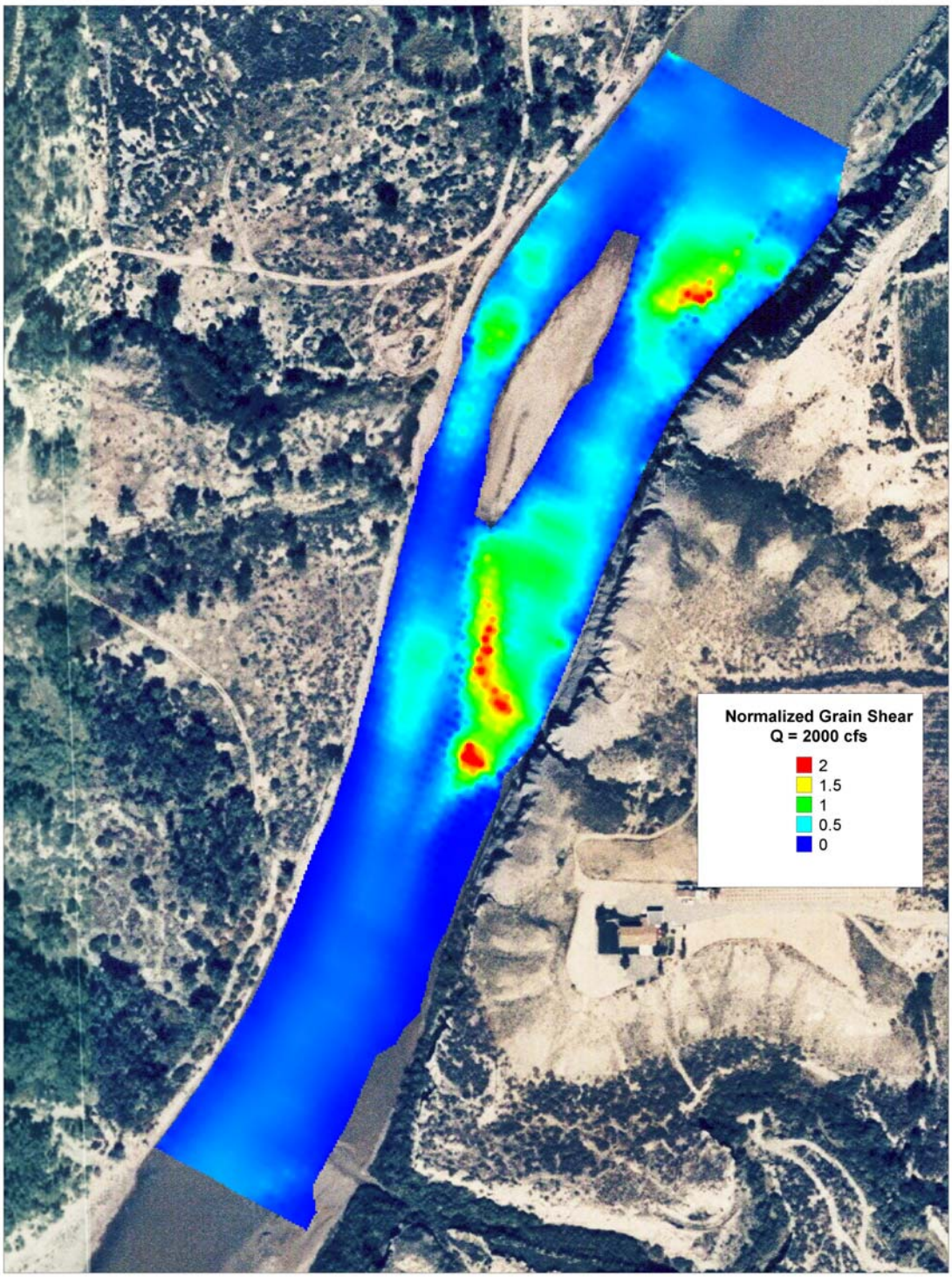
Appendix A, Figure 15. Color-gradient plot of predicted velocity from 2-D model of Clifton site at a discharge of 15,000 cfs.



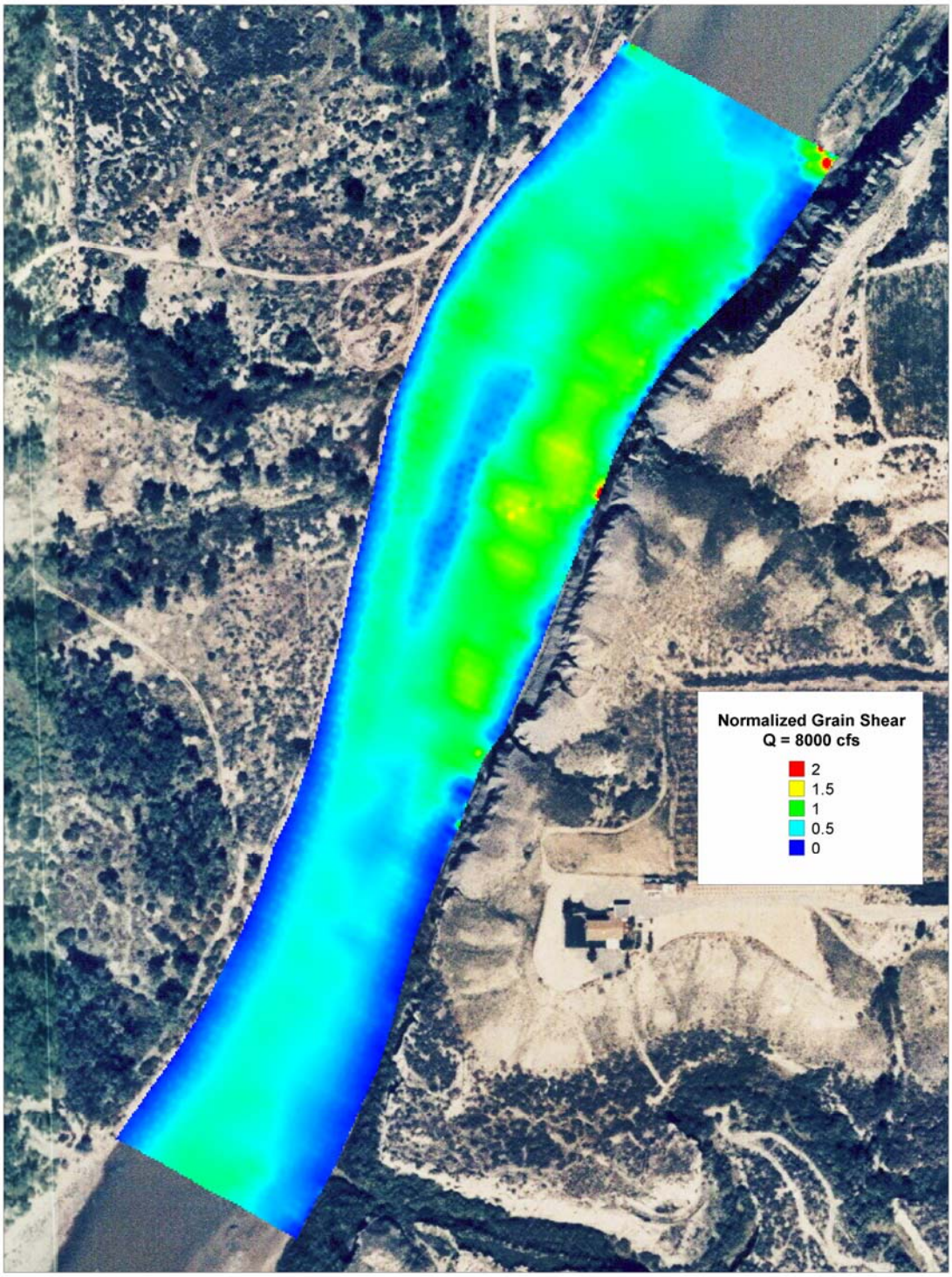
Appendix A, Figure 16. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 1,100 cfs.



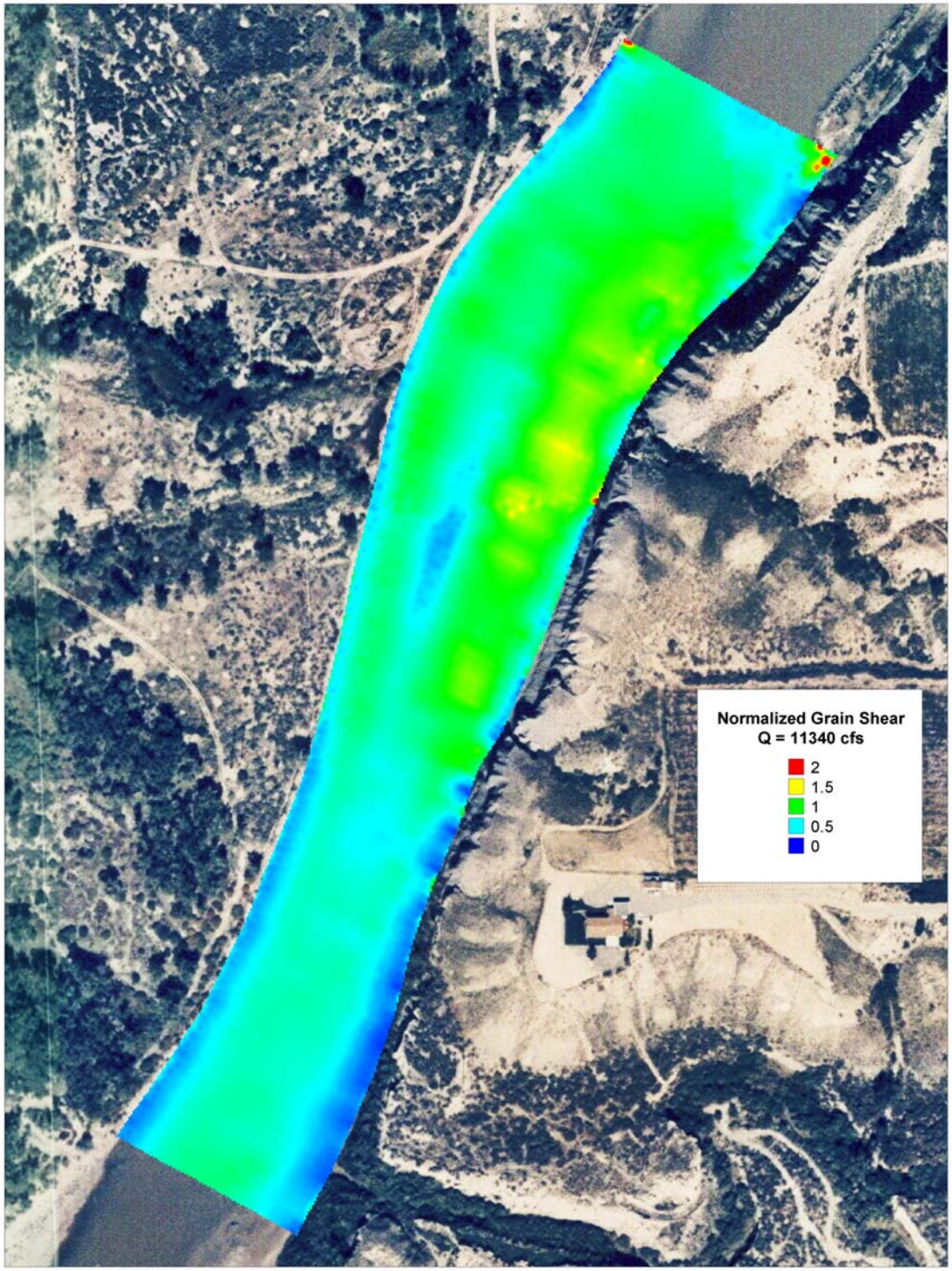
Appendix A, Figure 17. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 1,400 cfs.



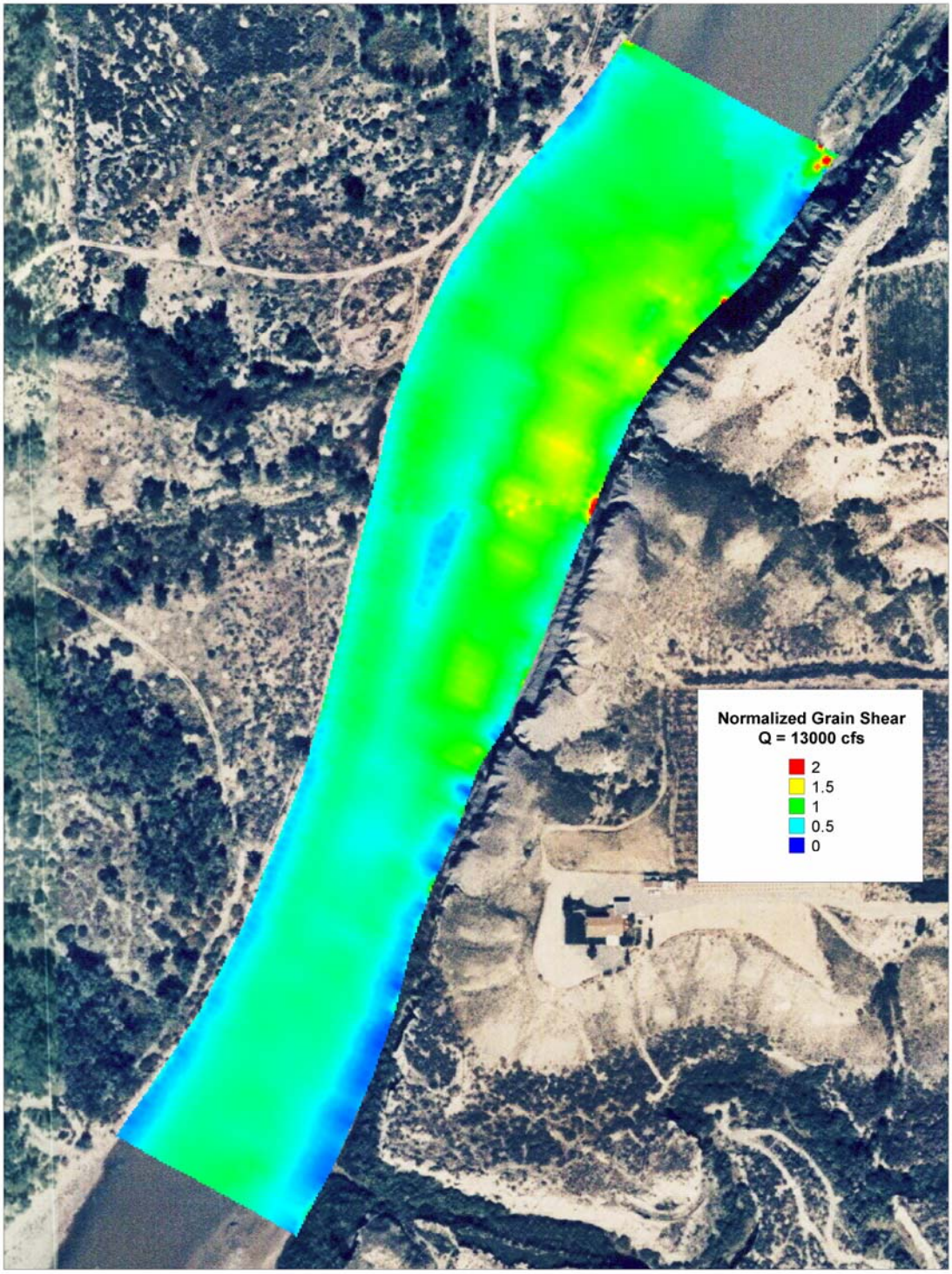
Appendix A, Figure 18. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 2,000 cfs.



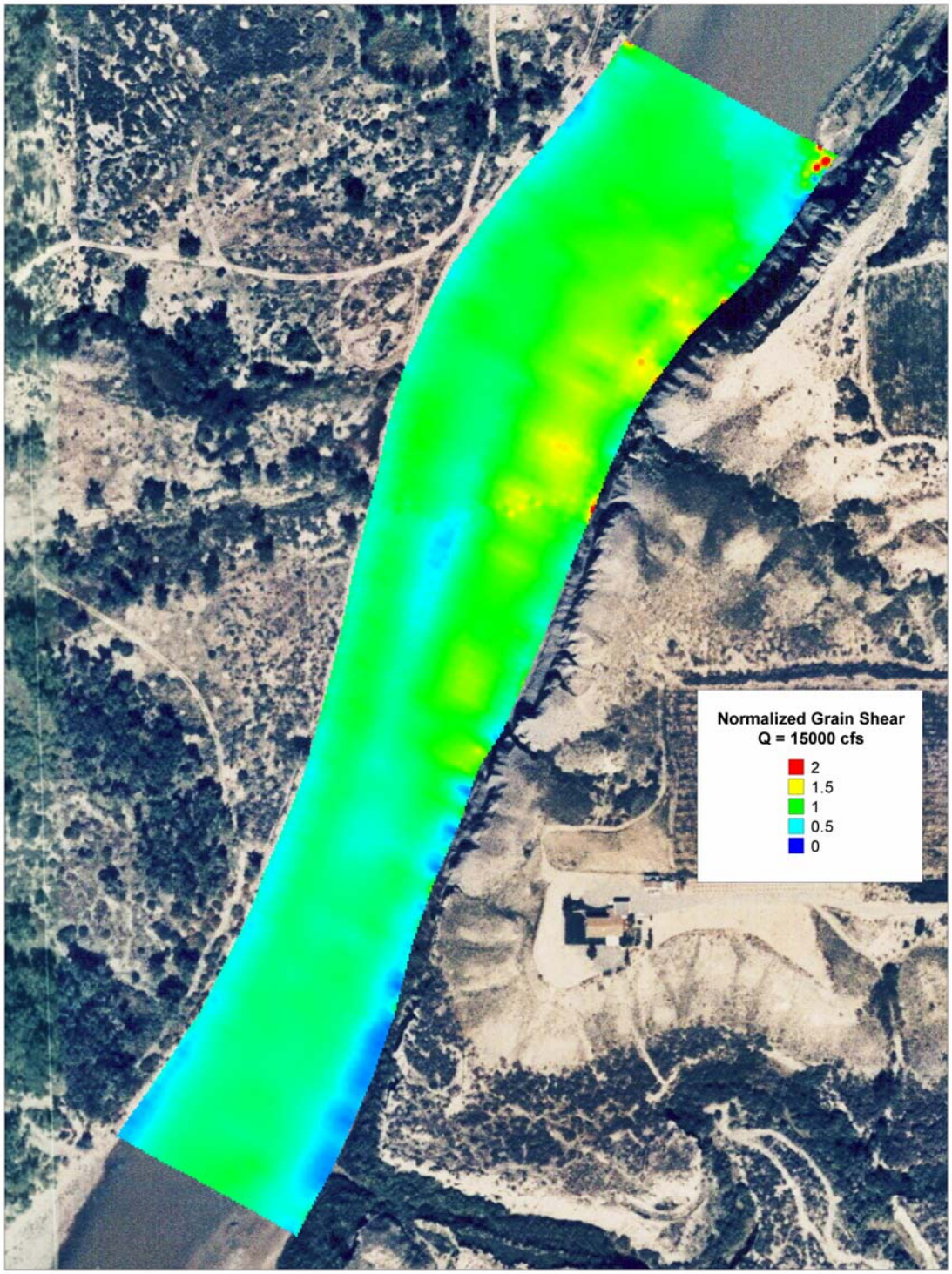
Appendix A, Figure 19. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 8,000 cfs.



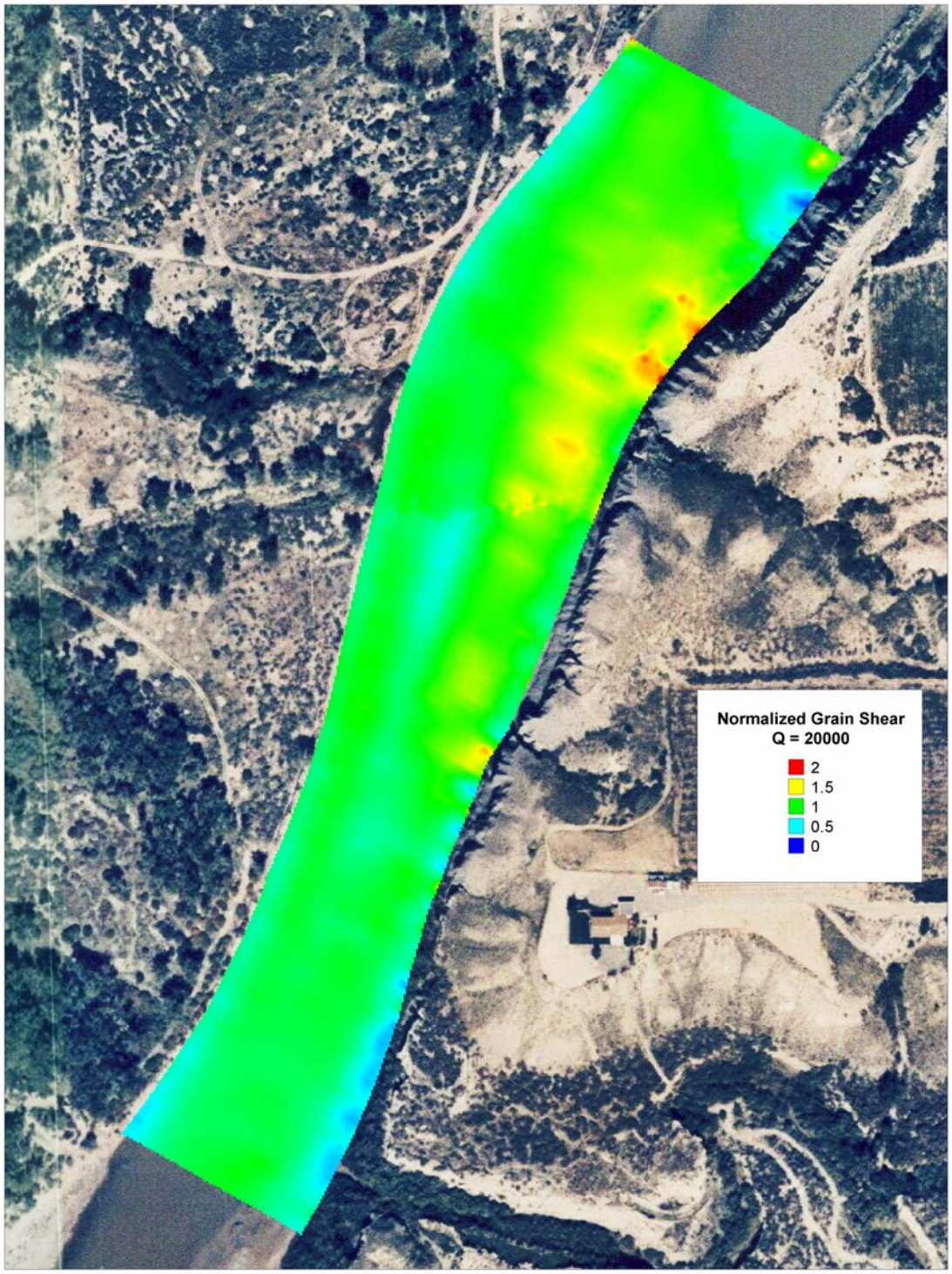
Appendix A, Figure 20. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 11,340cfs.



Appendix A, Figure 21. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 13,000 cfs.



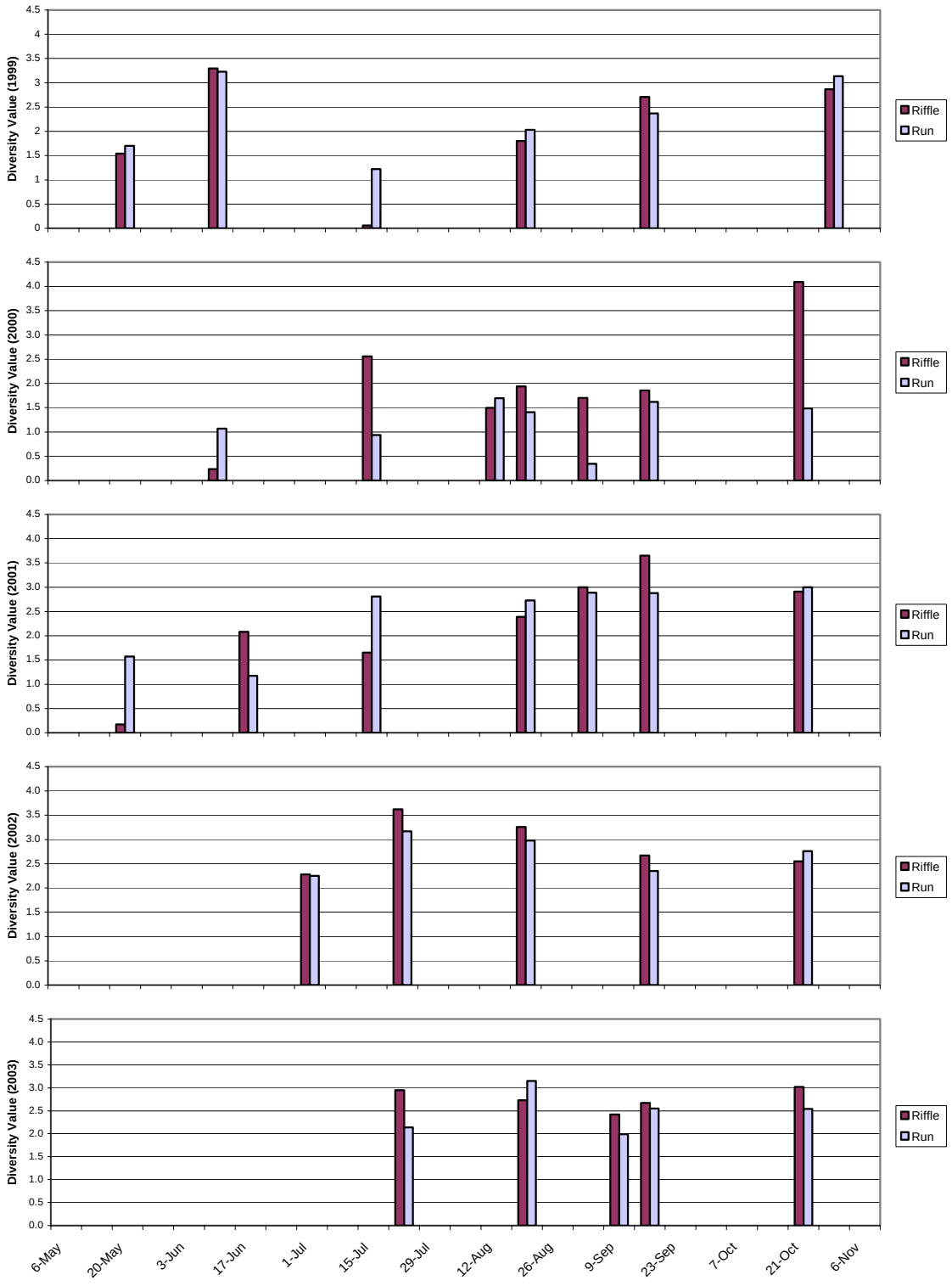
Appendix A, Figure 22. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 15,000 cfs.



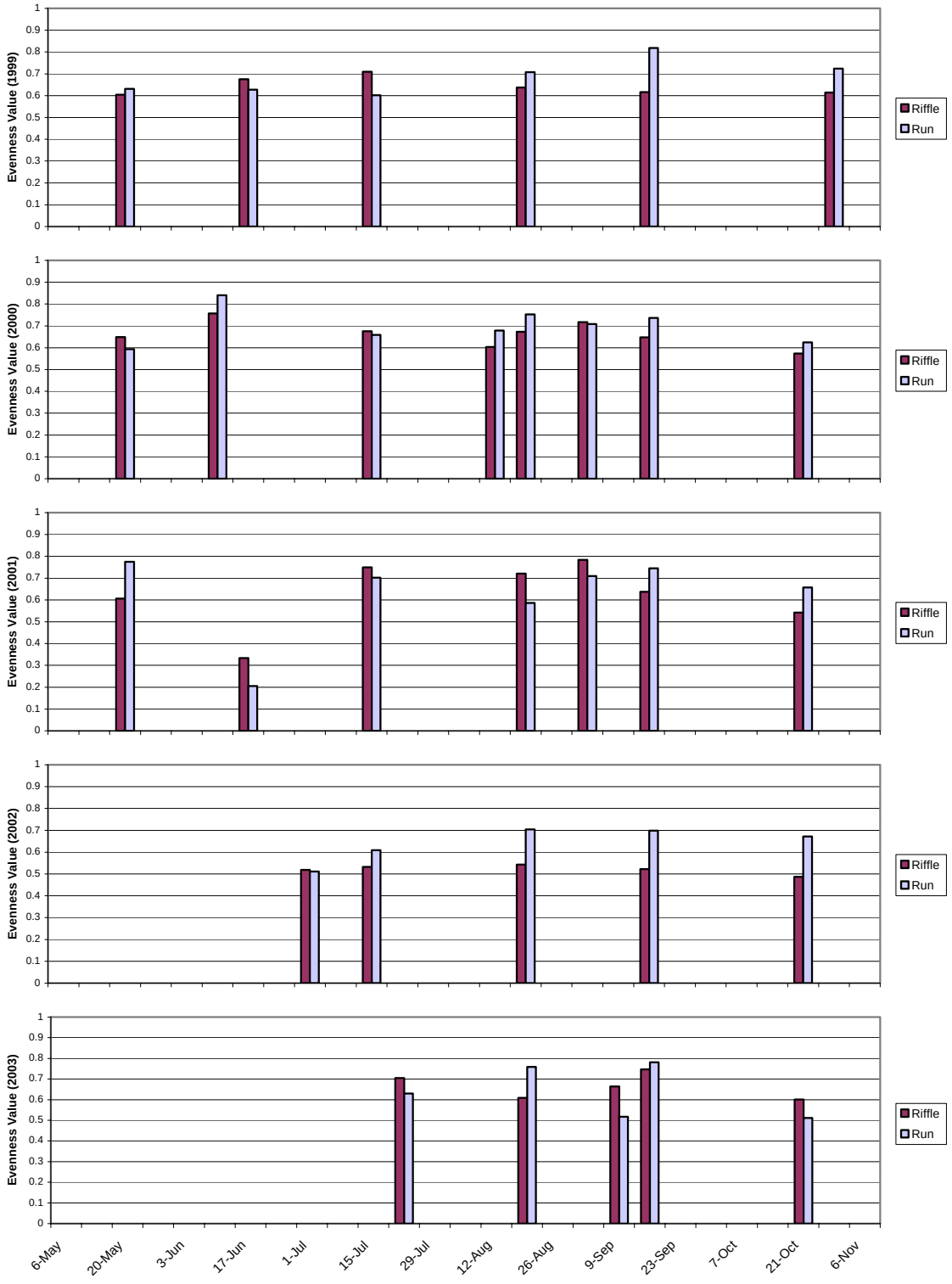
Appendix A, Figure 23. Color-gradient plot of computed normalized grain shear developed from the 2-D model of the Clifton site at a discharge of 20,000 cfs.

Appendix B

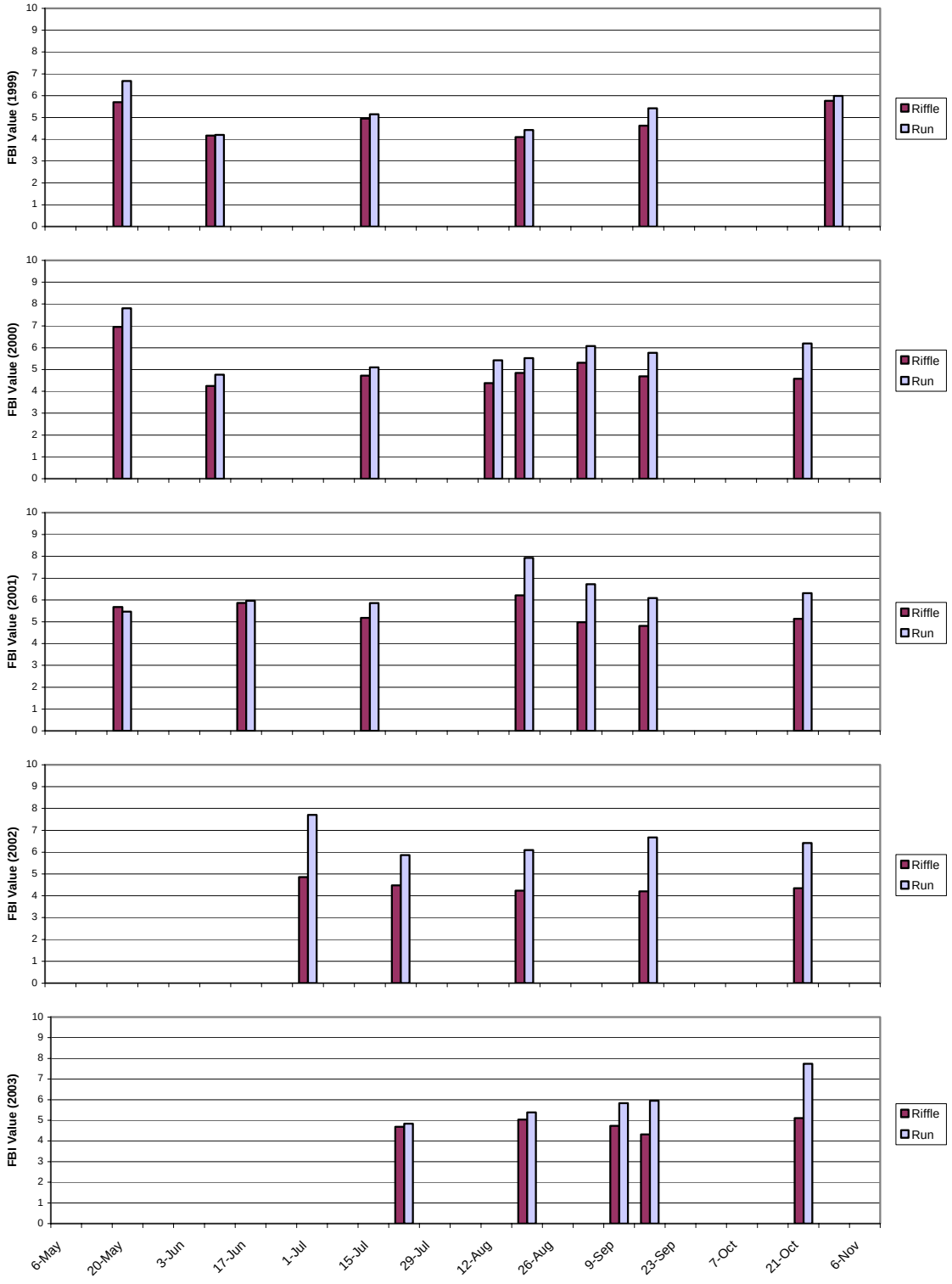
Biological Figures



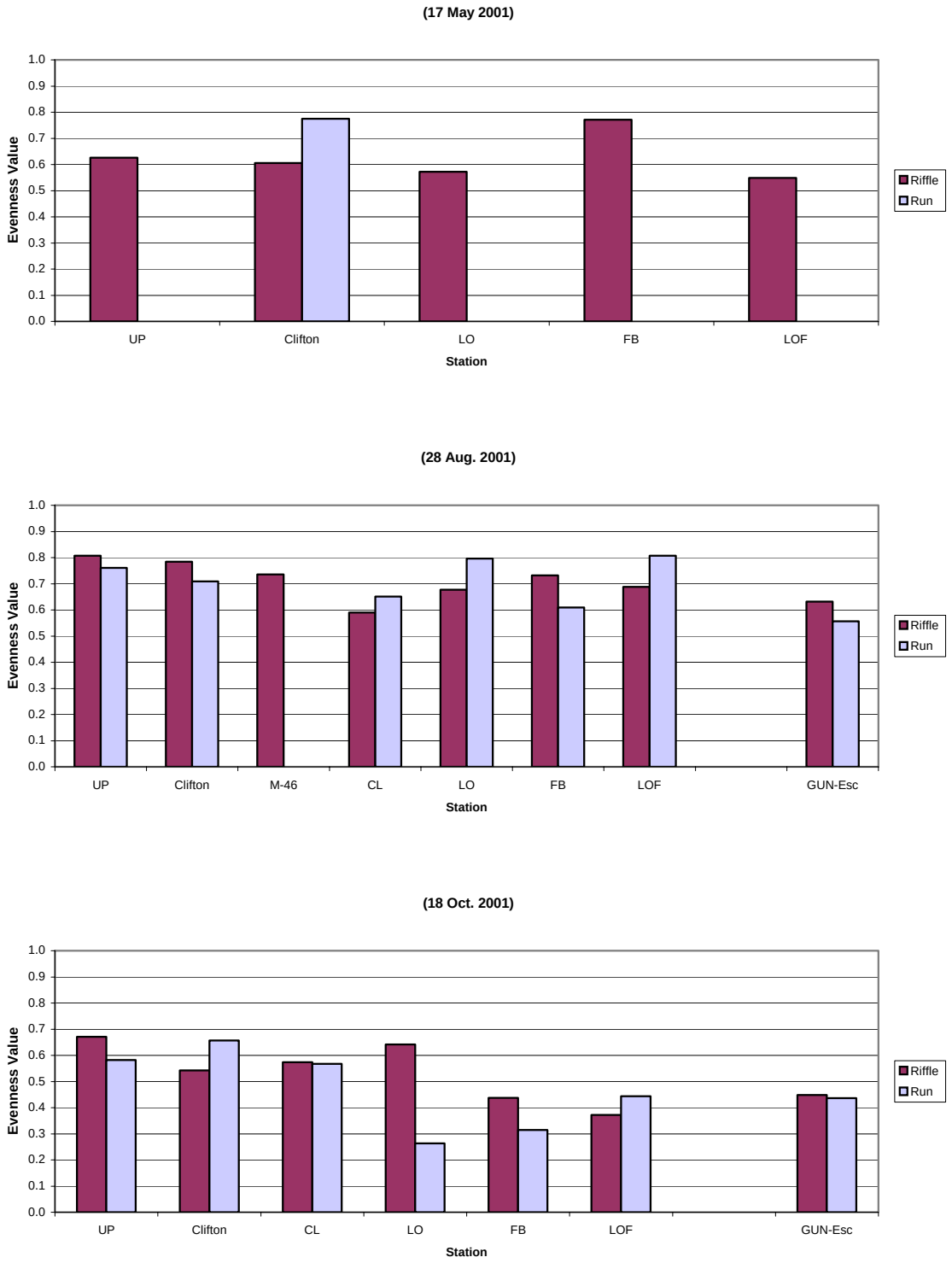
Appendix B, Figure 24. Diversity values for periphyton collected from two habitats from 1999 (top), through 2003 (bottom), at the Clifton site in the 15-MR of the Colorado River, Colorado.



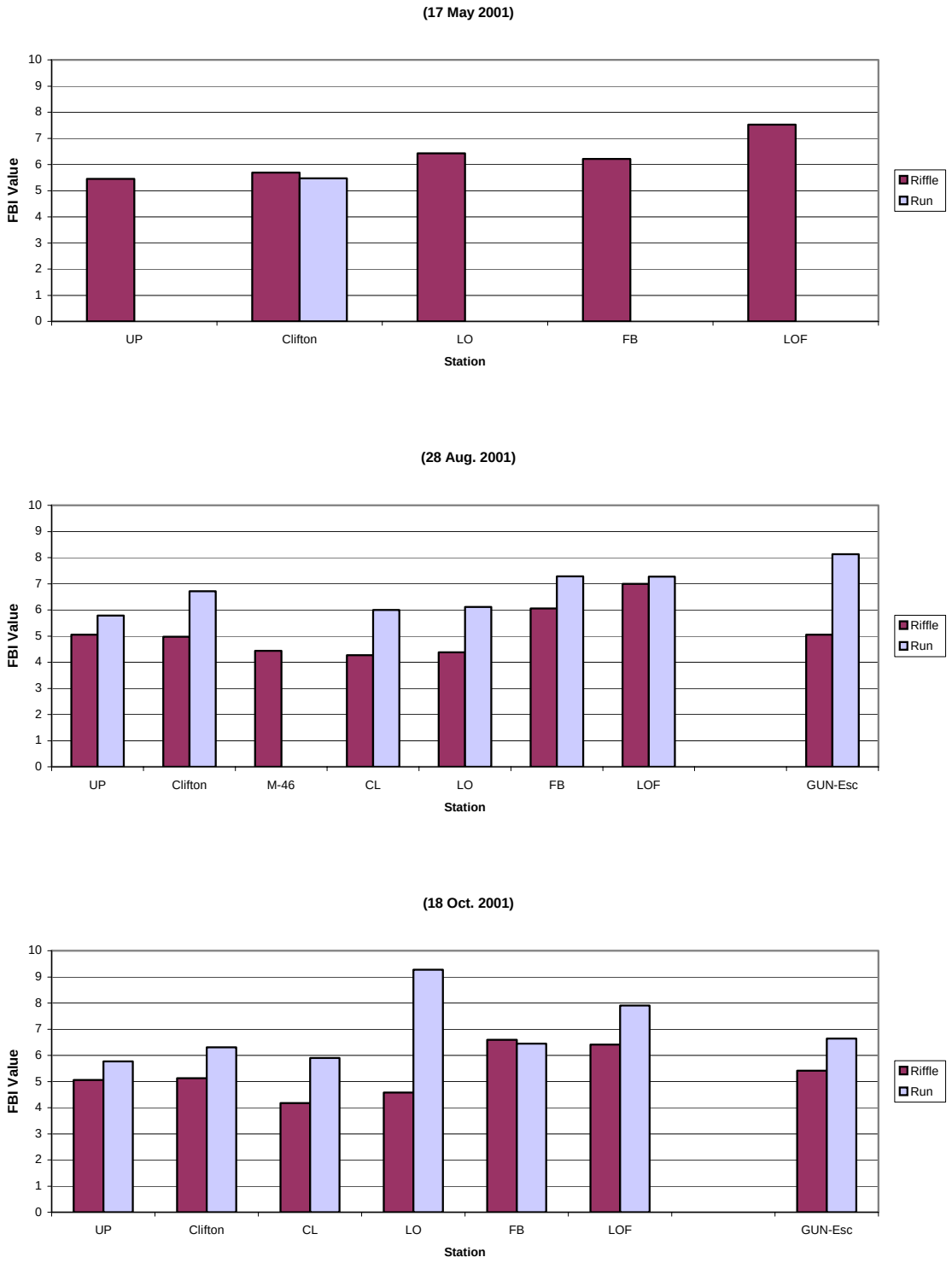
Appendix B, Figure 25. Evenness values for macroinvertebrates collected from two habitats from 1999 (top), through 2003 (bottom), at the Clifton site in the 15-MR of the Colorado River, Colorado.



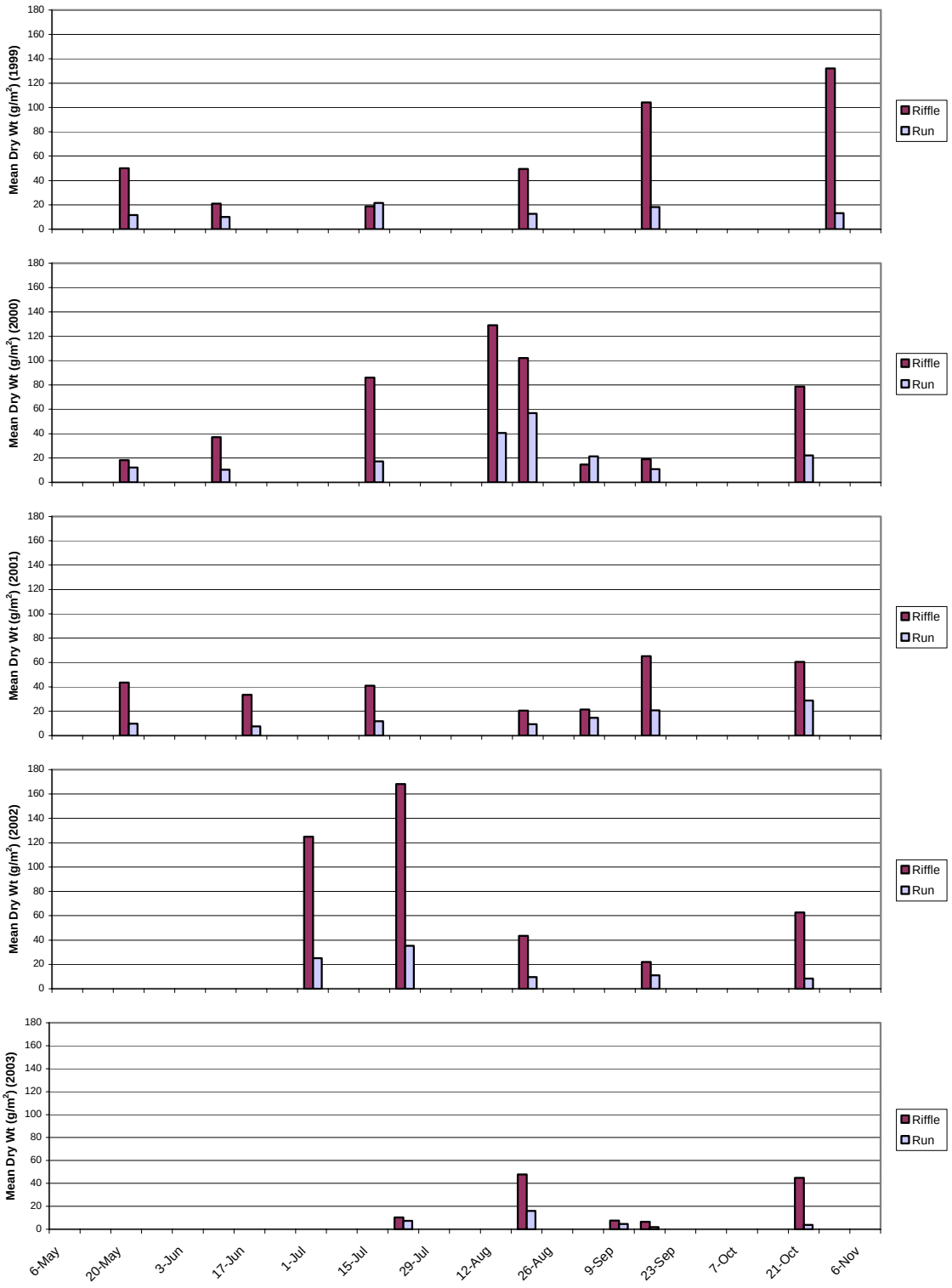
Appendix B, Figure 26. FBI values for macroinvertebrates collected from two habitats from 1999 (top), through 2003 (bottom), at the Clifton site in the 15-MR of the Colorado River, Colorado.



Appendix B, Figure 27. Evenness values for macroinvertebrates collected in May (top), August (middle), and October (bottom), 2001 from the Colorado and Gunnison rivers, Colorado.



Appendix B, Figure 28. FBI values for macroinvertebrates collected in May (top), August (middle), and October (bottom), 2001 from the Colorado and Gunnison rivers, Colorado.



Appendix B, Figure 29. Dry weight of detritus collected from two habitats between 1999 (top), and 2003 (bottom), at the Clifton site in the 15-MR of the Colorado River, Colorado.