



## *Fieldwork, Education & Research*

### **Parvin Branch and Tarkiln Branch Watershed Restoration Master Plan**

## **APPENDIX E**

# **Dry Weather Chemical Concentration Plots**

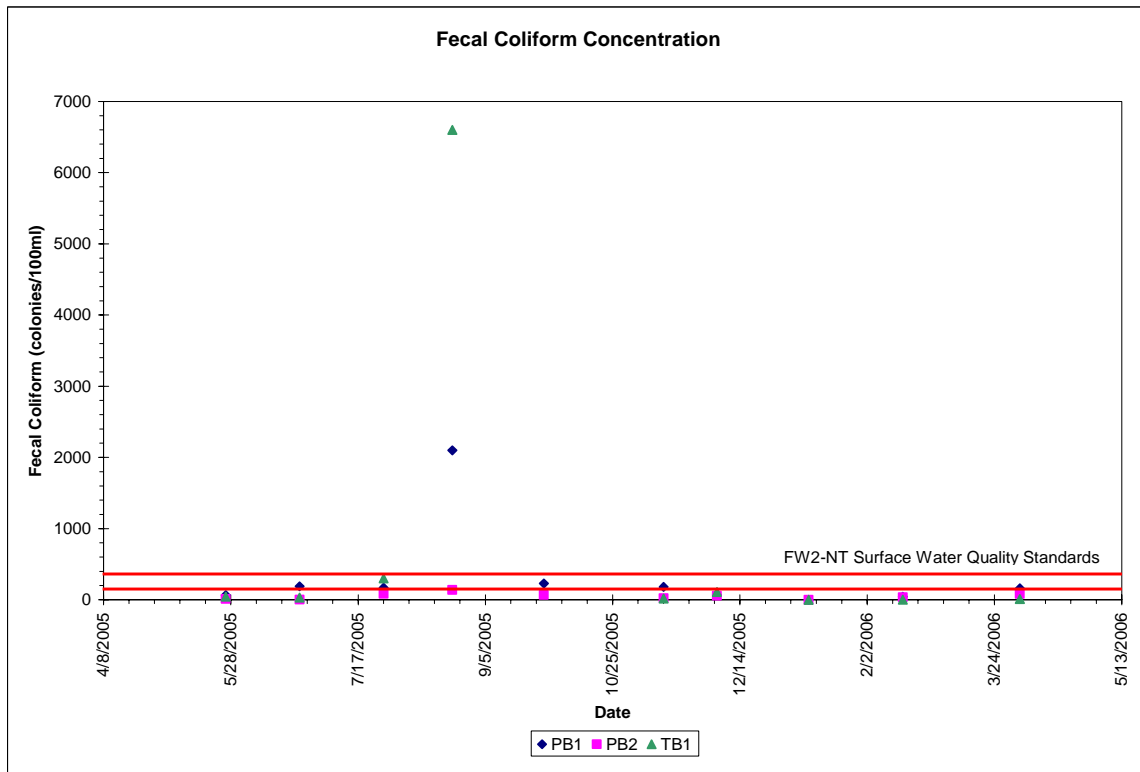
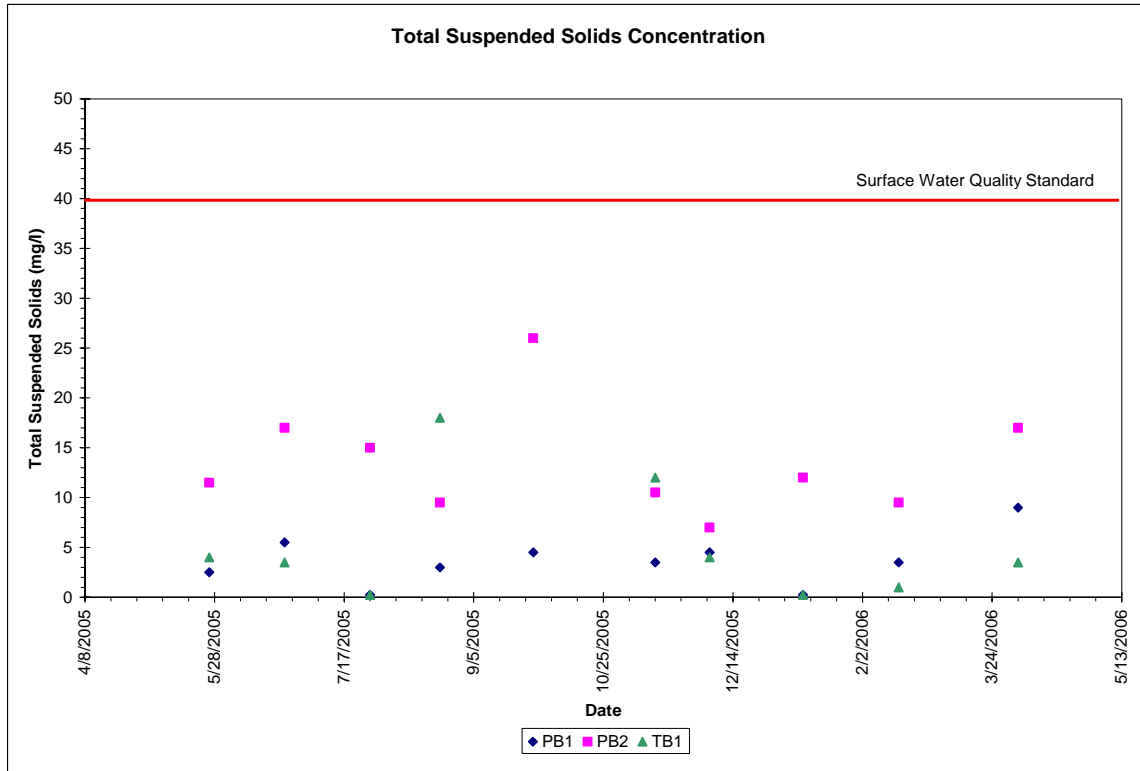
### **Watershed Sampling**

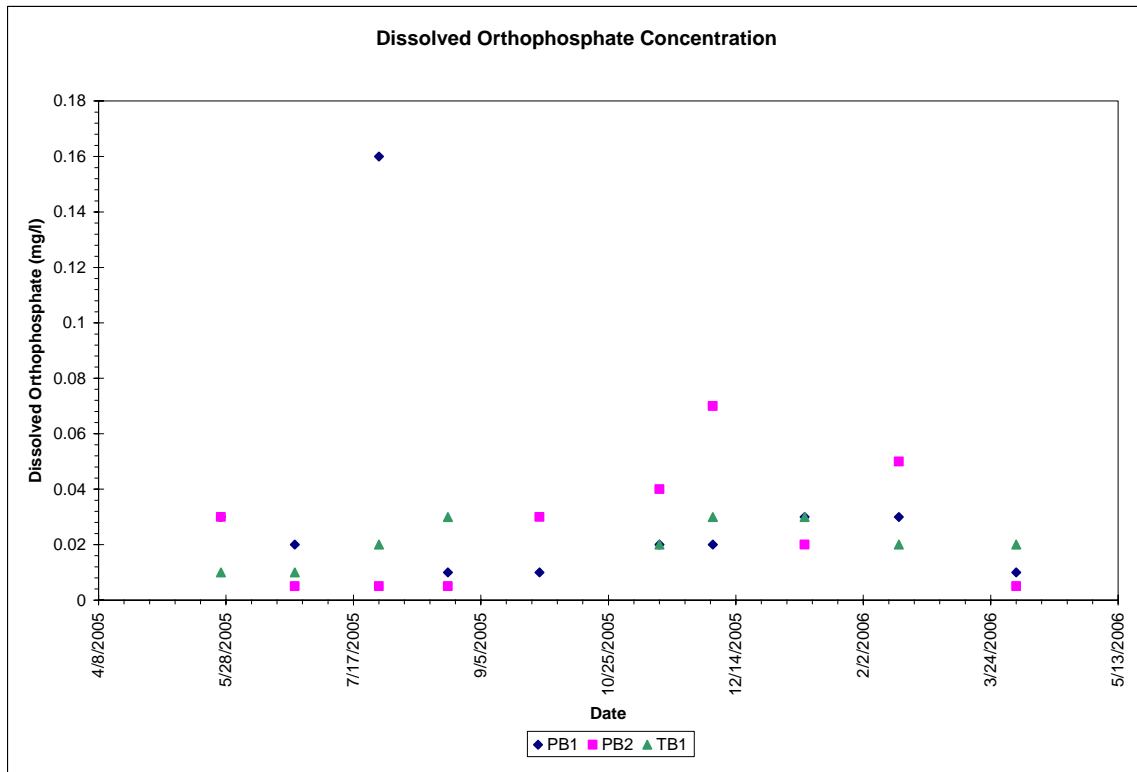
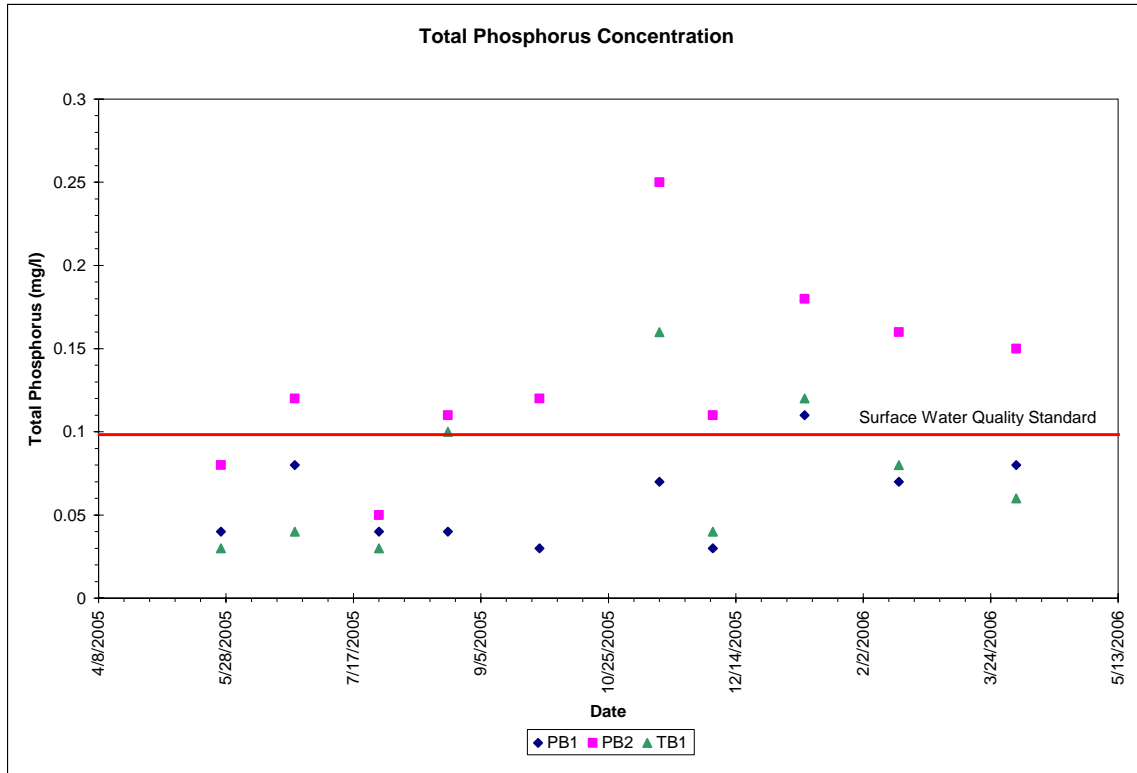
A monitoring plan was developed to gather surface water (Parvin Branch and Tarkiln Branch) and groundwater quality data. The monitoring plan included NJDEP-approved sampling protocols for collecting physical and chemical data in these resources. Appropriate protocols, sampling points, and schedules were selected for both wet weather (stormwater) and dry weather (base flow) sampling. Chemical analyses were completed by NJDEP-certified laboratories as well as by volunteers using field sampling kits. Local volunteer groups were instrumental in completing the physical and chemical assessments of the stream, including visual assessments of flow.

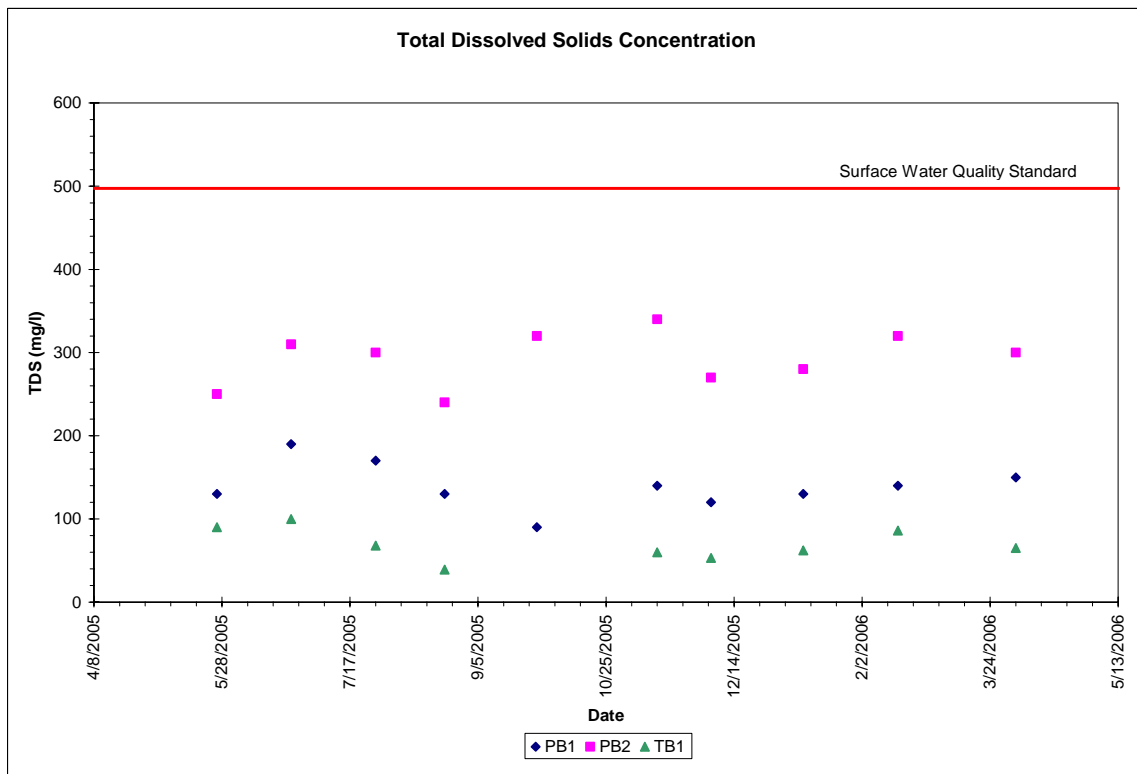
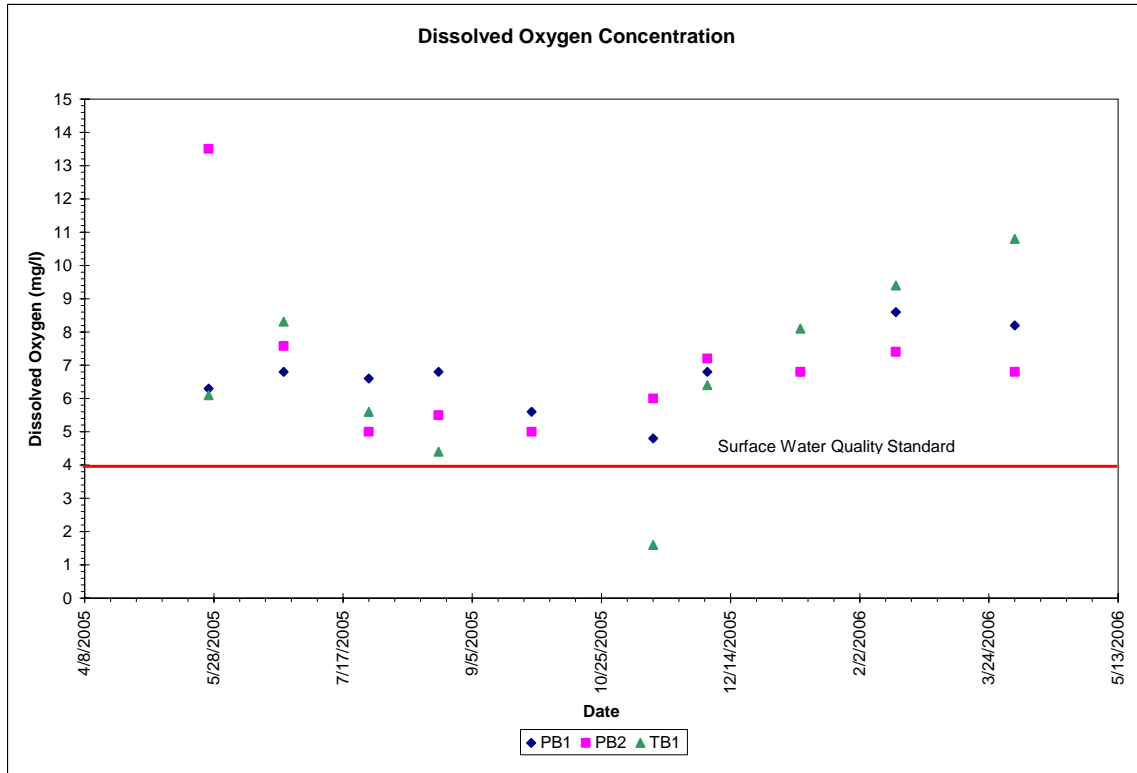
Surface water, groundwater and sediment sampling occurred at Parvin Branch and Tarkiln Branch from May 2005 to April 2006. During this time, Citizens United to Protect the Maurice River and its tributaries (CUPMRT) and TRC Omni collected eleven (11) sets of surface water samples at the three chemical and biological stations, PB1, PB2 and TB1, one (1) set of sediment samples from SEDS and SSN and three (3) sets of groundwater samples at monitoring wells GWN and GWS.

Water quality was measured at PB1, PB2, and TB1 on 14 dates between May 2005 and April 2006. Water samples were analyzed for a number of standard water quality parameters including nitrogen (nitrate and ammonia), phosphorus (total and dissolved), dissolved oxygen, solids (total dissolved and total suspended), iron, pH, conductivity, and temperature. Results are in **Appendix D** and in the dry weather concentration figures found in **Appendix E**. Water quality was also measured in GWN and GWS on three dates in 2005. Samples were analyzed for standard water quality parameters and priority pollutants. Results are in **Appendix D**.

Sediment samples from SEDN and SEDS were analyzed once for priority pollutants and nutrients. Based on the results of the groundwater sampling, no significant contaminants were noted in the initial priority pollutant or metals scans. In accordance with the QAPP, no further samples were analyzed. Results are in **Appendix D**.







Parvin Branch and Tarkiln Branch  
 Watershed Restoration Master Plan  
 November 30, 2006  
 Dry Weather Concentration Plots



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