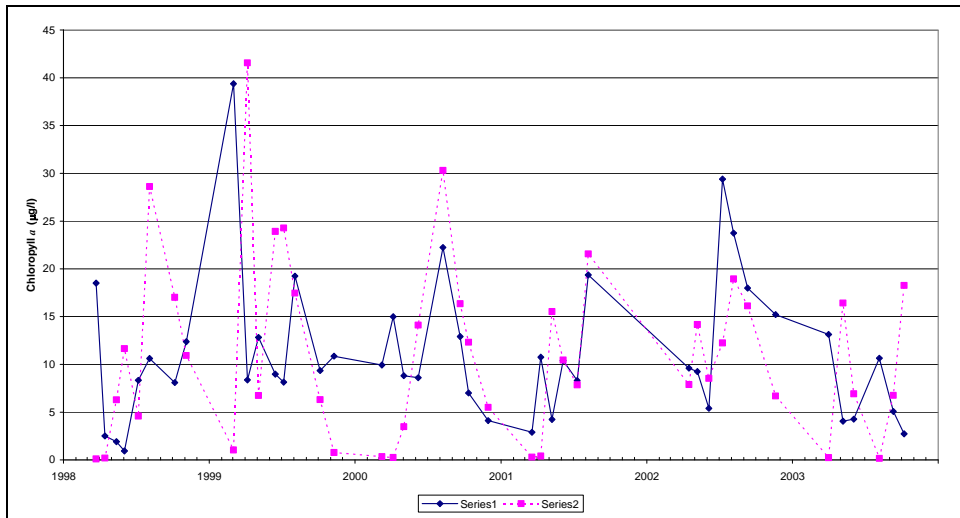
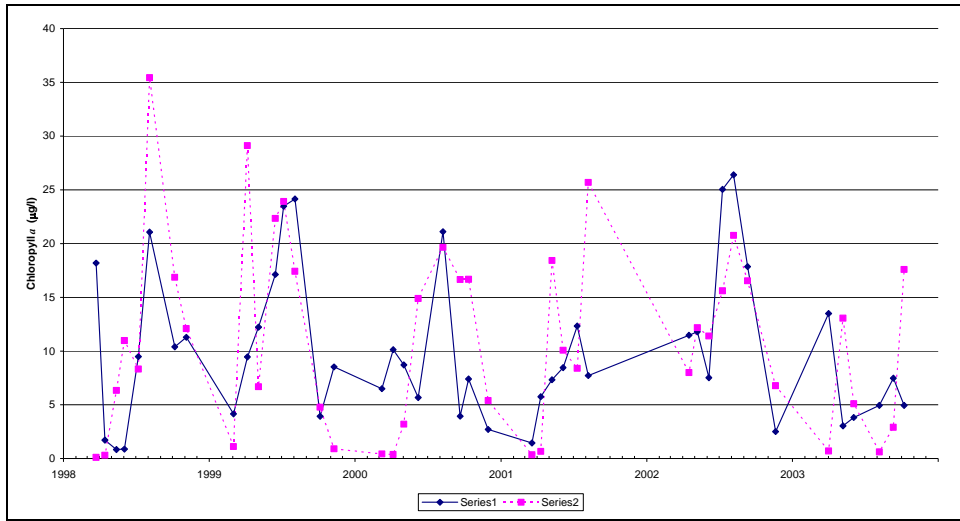


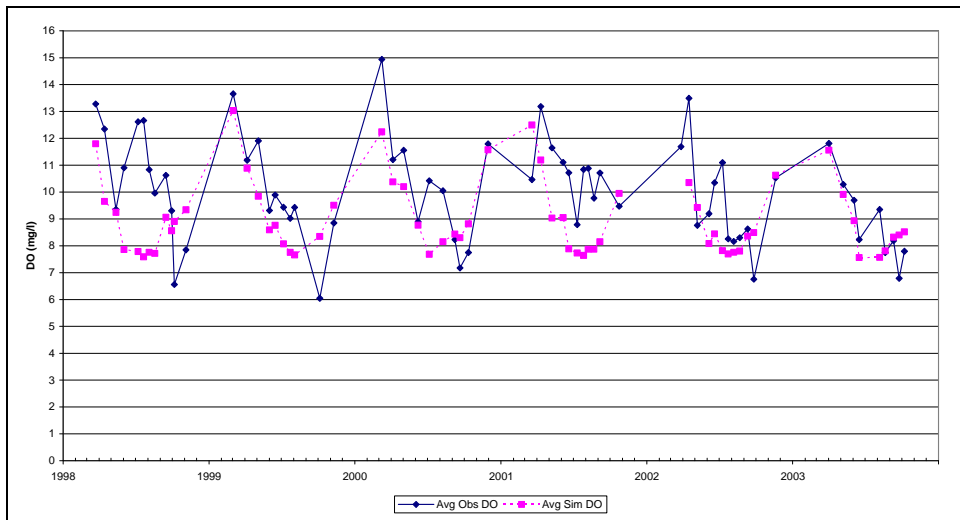
**Figure C1. Observed and Simulated Max Chla Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



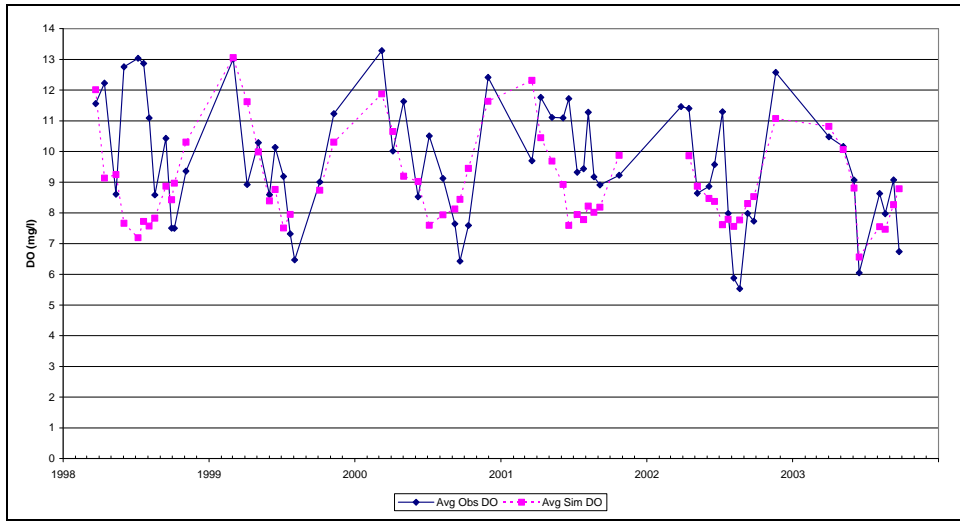
**Figure C2. Observed and Simulated Max Chla Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



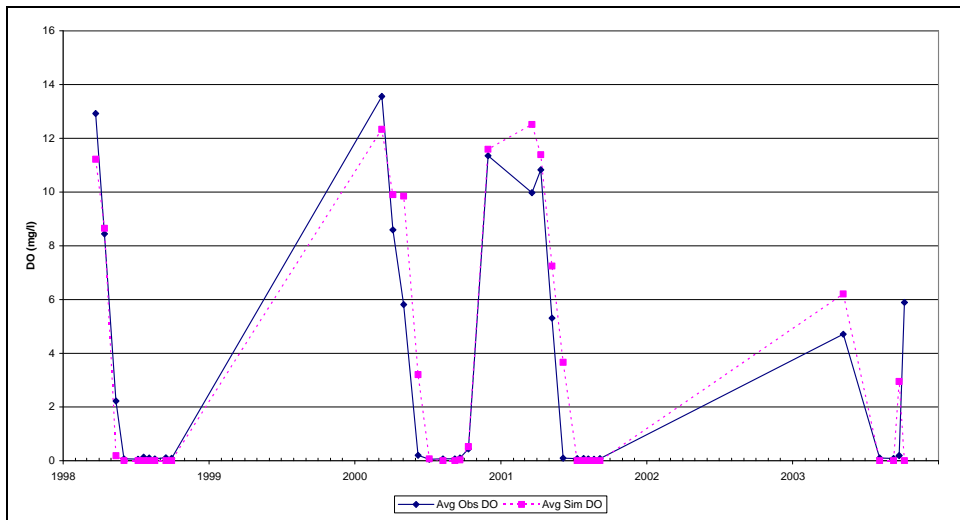
**Figure C3. Observed and Simulated Max Chla Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



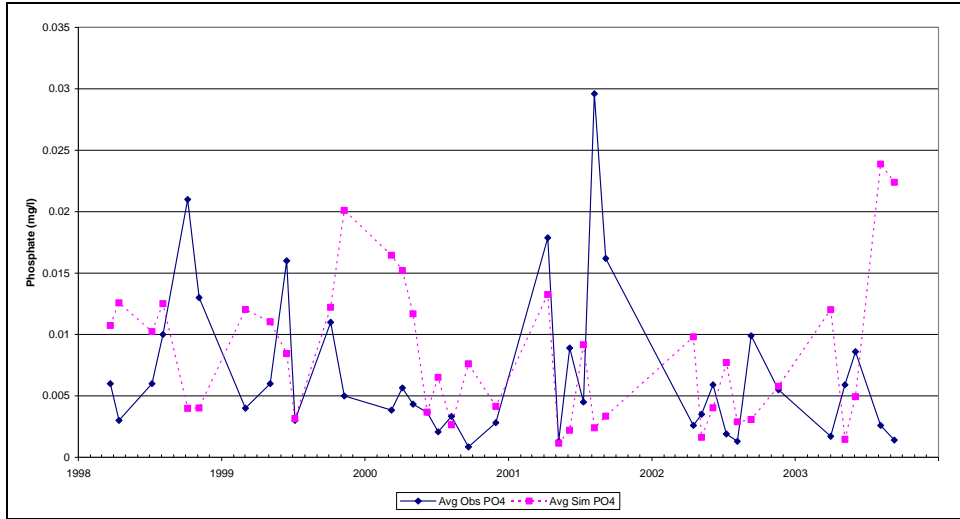
**Figure C4. Observed and Simulated Average Surface DO Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir.**



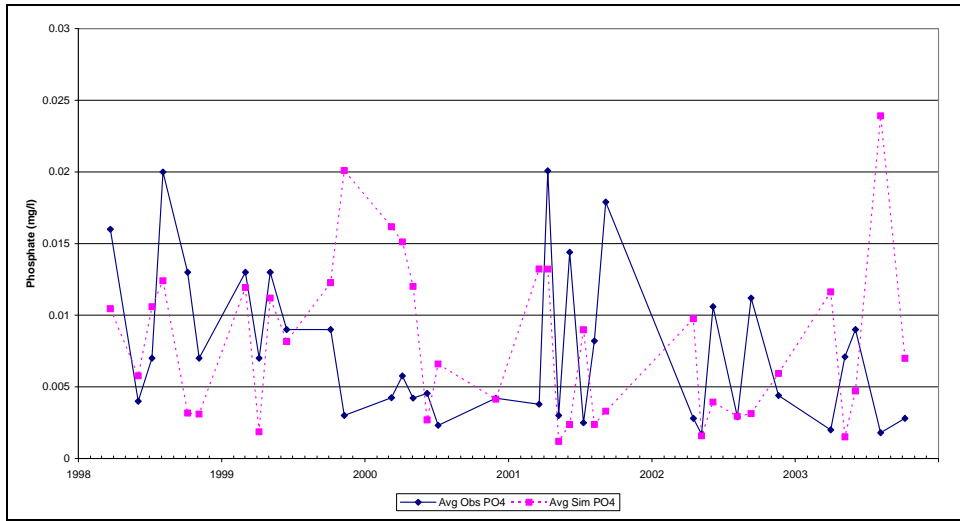
**Figure C5. Observed and Simulated Average Surface DO Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



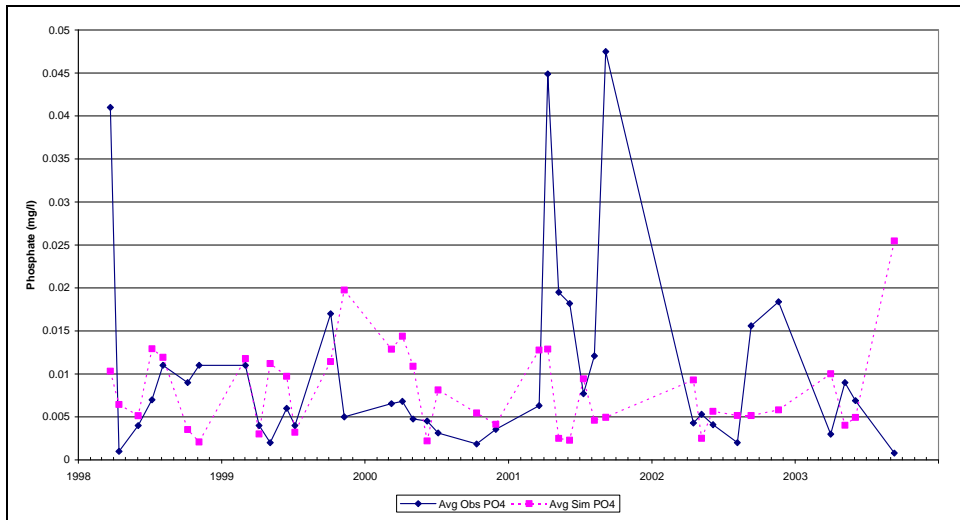
**Figure C6. Observed and Simulated Average Bottom DO Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



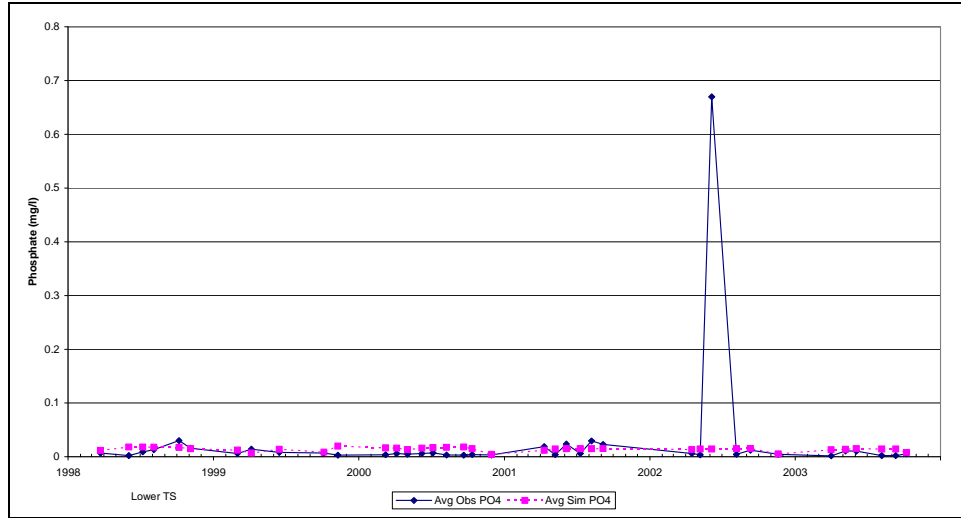
**Figure C7. Observed and Simulated Average Surface Phosphate Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



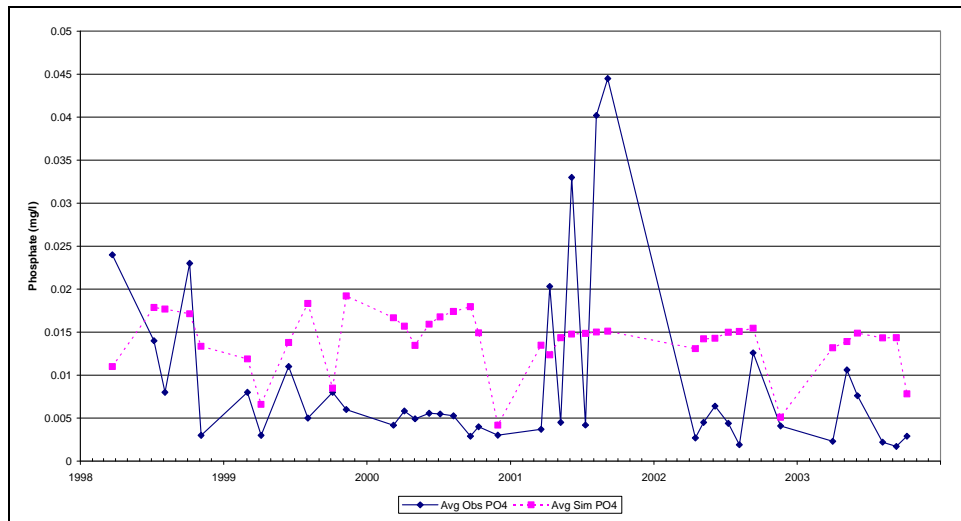
**Figure C8. Observed and Simulated Average Surface Phosphate Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



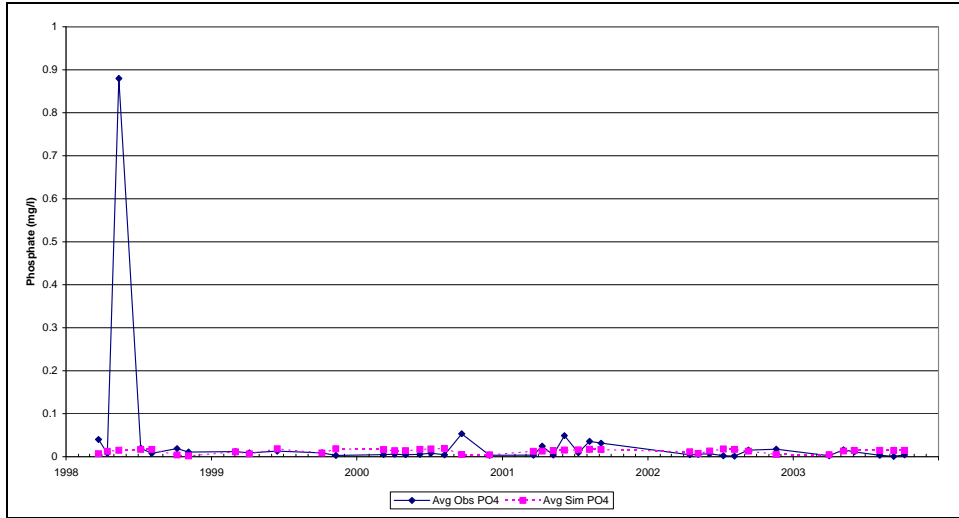
**Figure C9. Observed and Simulated Average Surface Phosphate Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



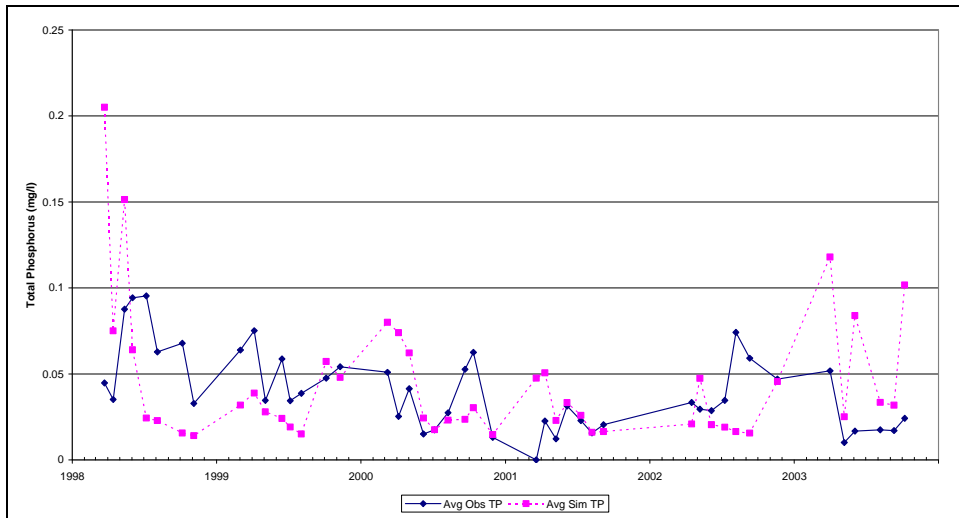
**Figure C10. Observed and Simulated Average Bottom Phosphate Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



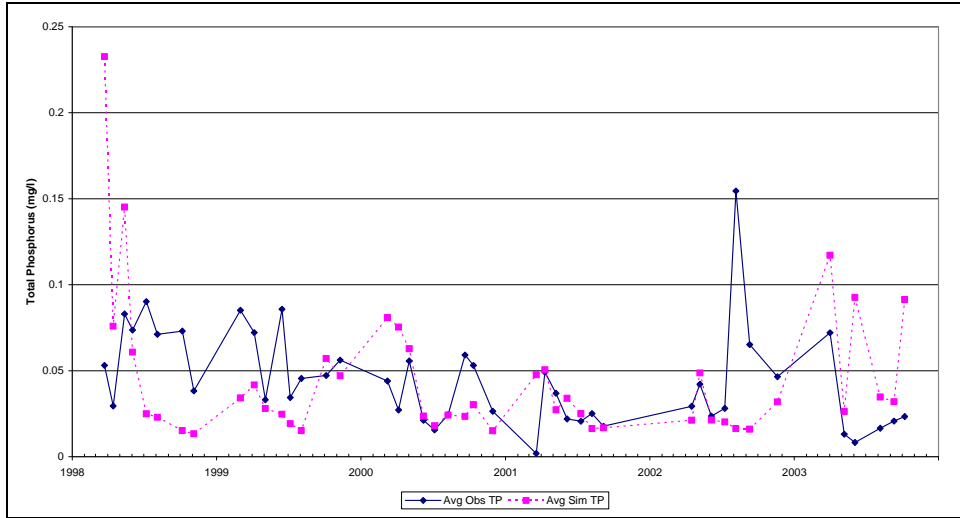
**Figure C11. Observed and Simulated Average Bottom Phosphate Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



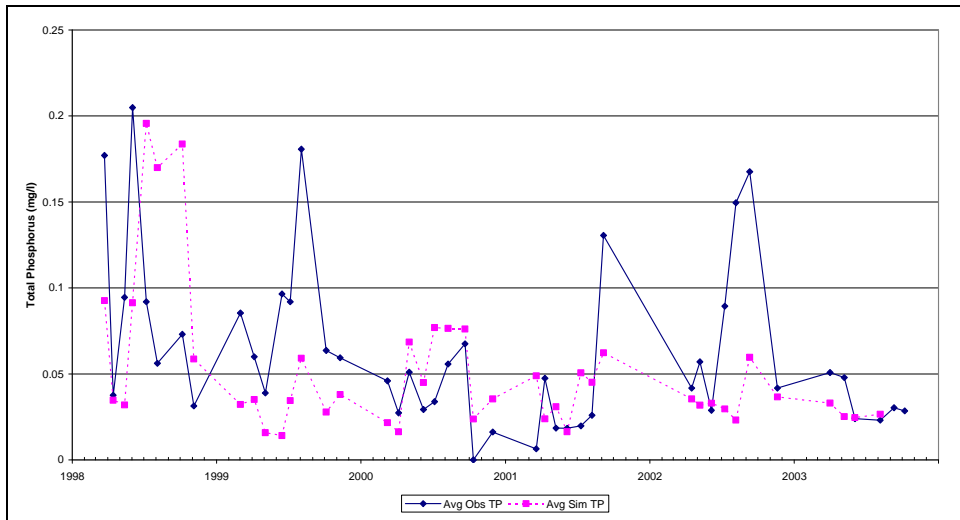
**Figure C12. Observed and Simulated Average Bottom Phosphate Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



**Figure C13. Observed and Simulated Average Surface Total Phosphorus Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**

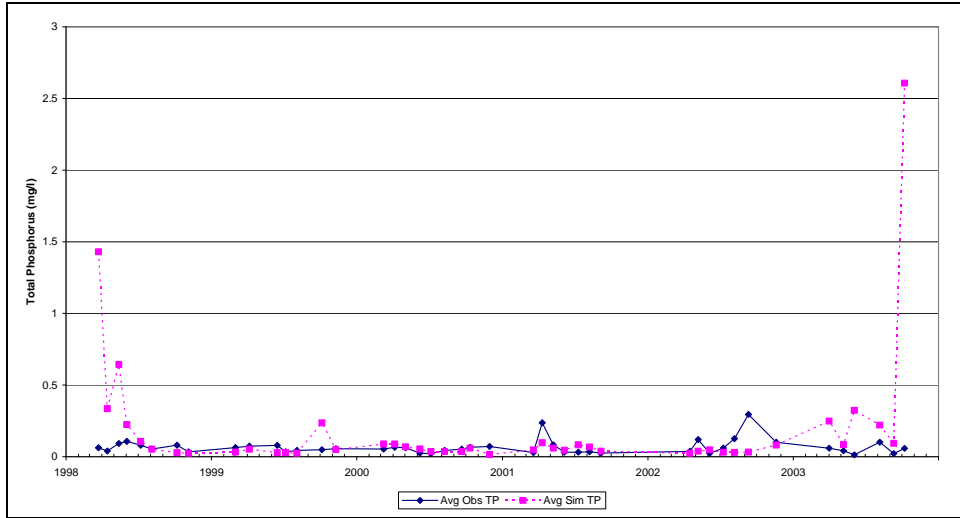


**Figure C14. Observed and Simulated Average Surface Total Phosphorus Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**

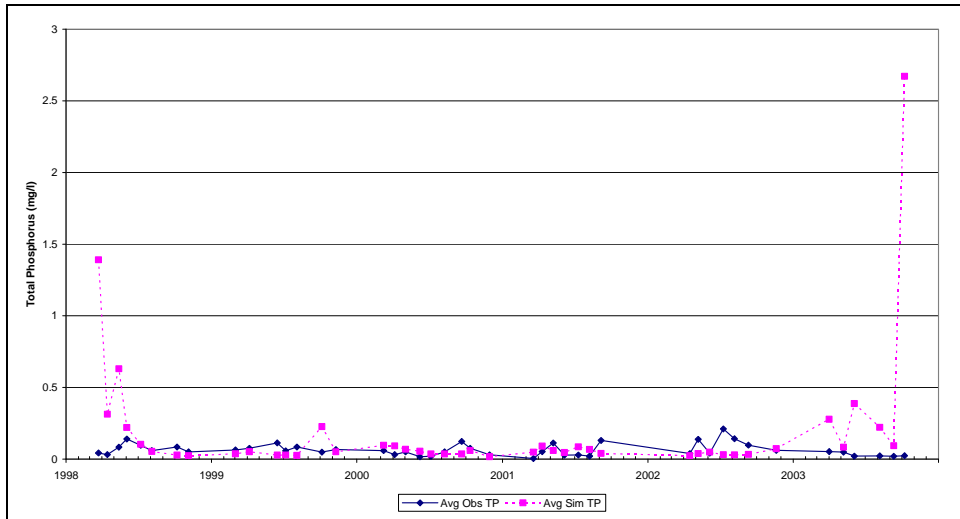


**Figure C15. Observed and Simulated Average Surface Total Phosphorus Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**

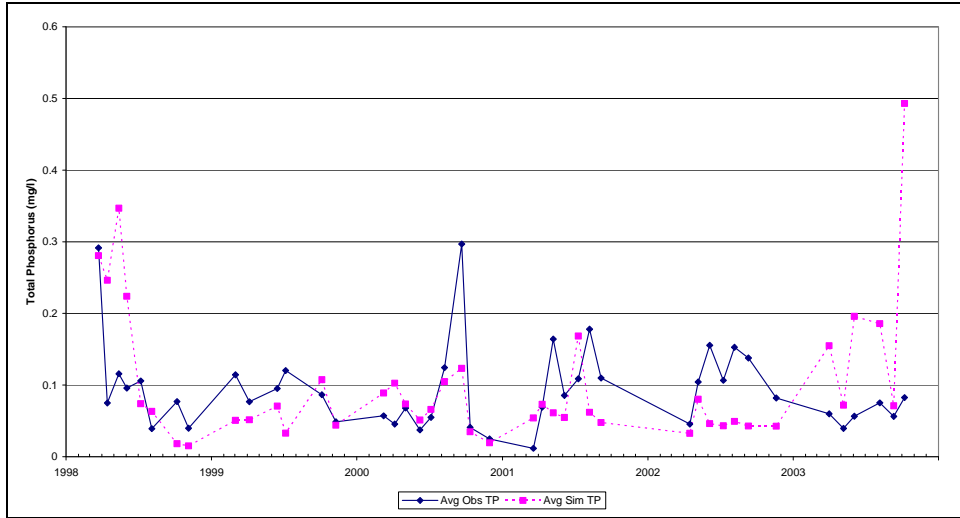




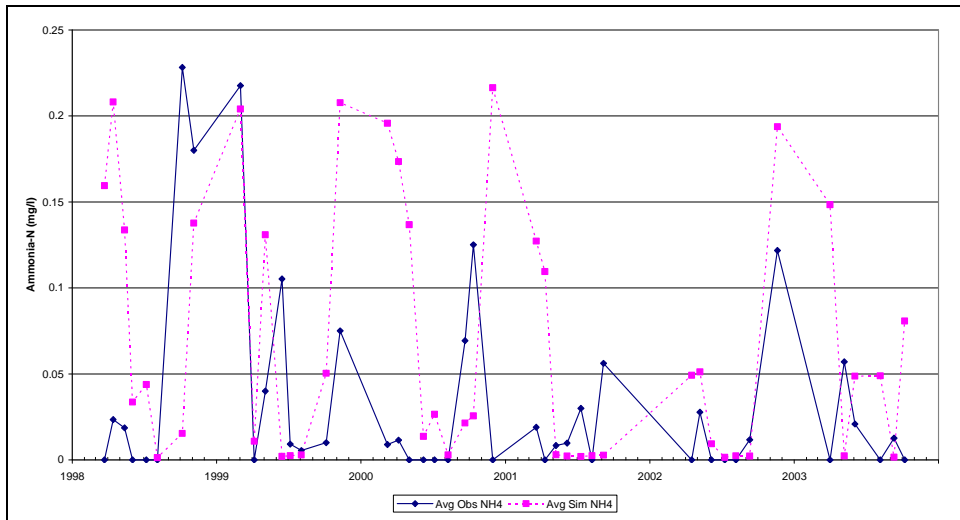
**Figure C16. Observed and Simulated Average Bottom Total Phosphorus Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



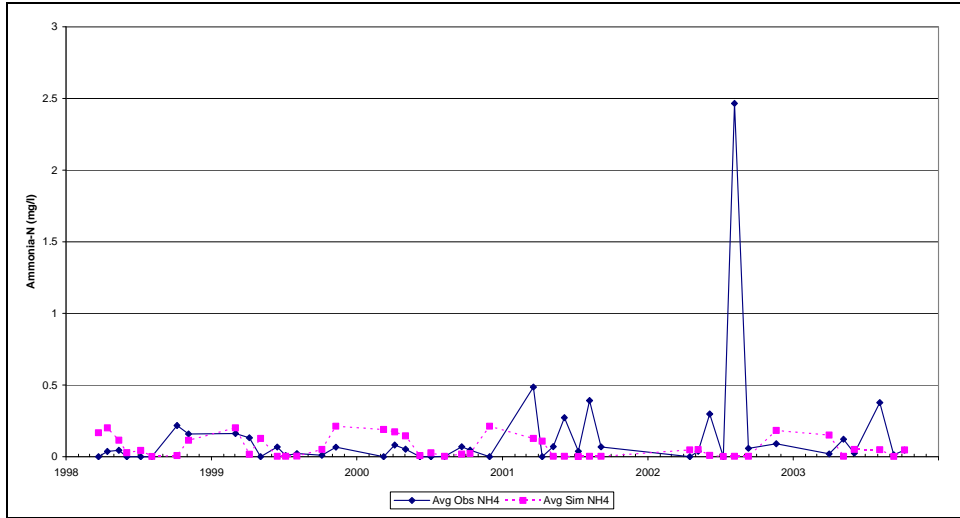
**Figure C17. Observed and Simulated Average Bottom Total Phosphorus Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



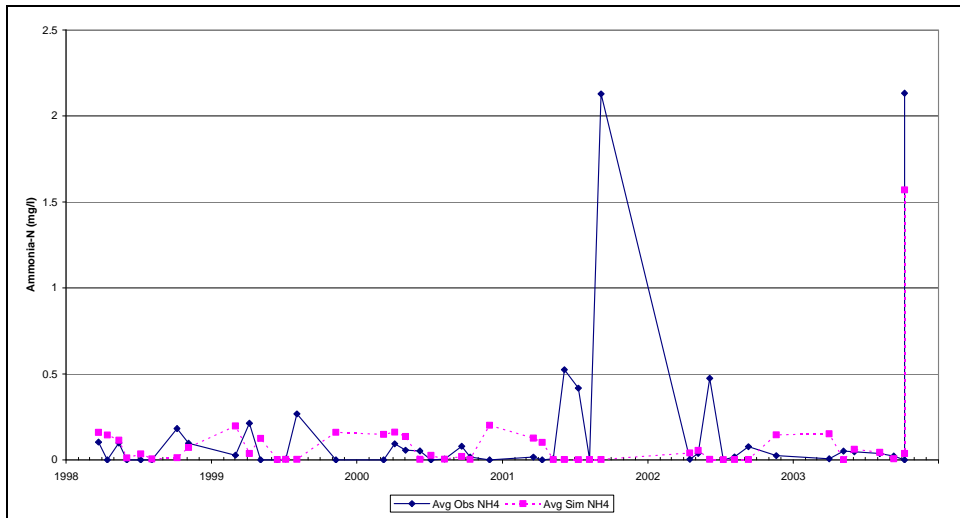
**Figure C18. Observed and Simulated Average Bottom Total Phosphorus Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



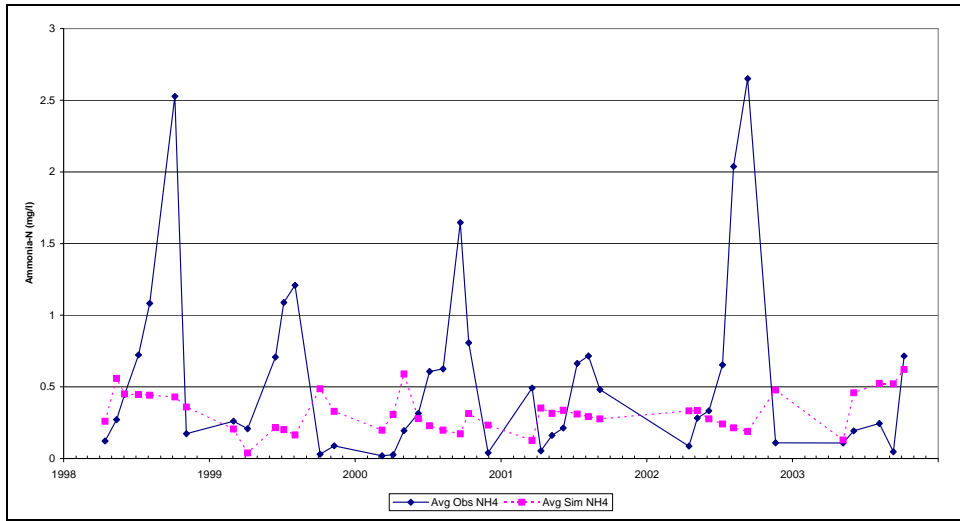
**Figure C19. Observed and Simulated Average Surface Ammonia Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



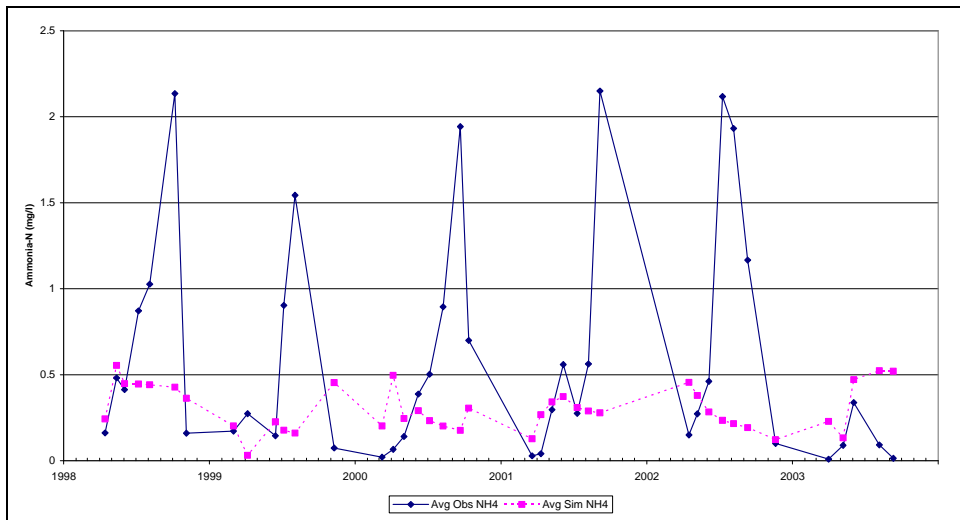
**Figure C20. Observed and Simulated Average Surface Ammonia Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



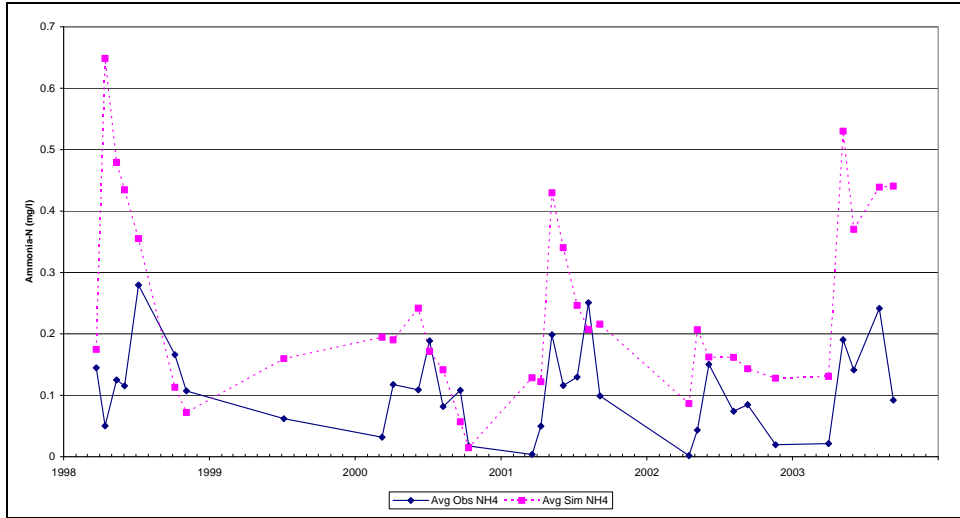
**Figure C21. Observed and Simulated Average Surface Ammonia Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



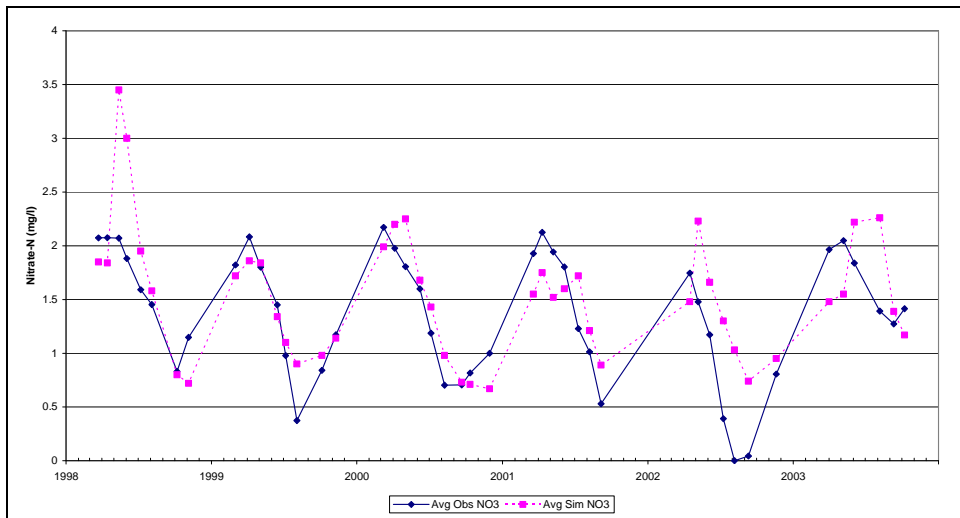
**Figure C22. Observed and Simulated Average Bottom Ammonia Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



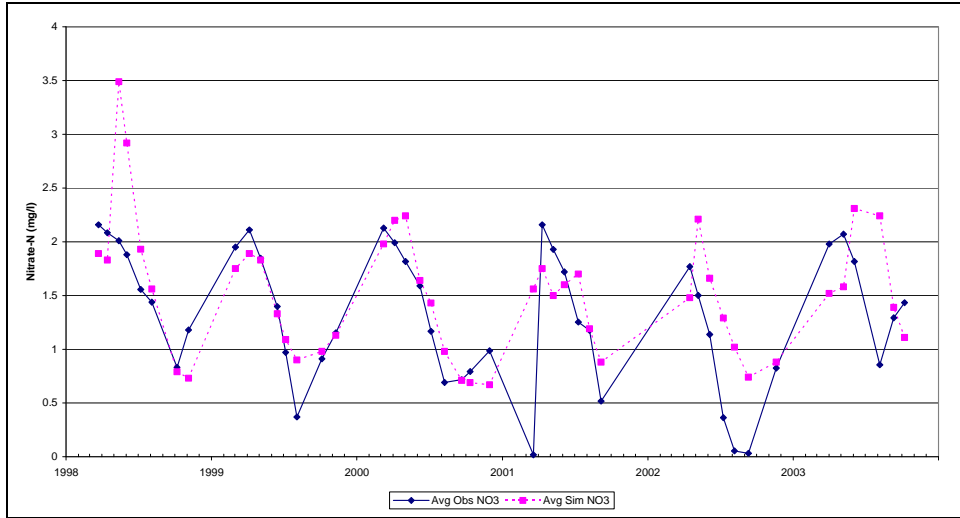
**Figure C23. Observed and Simulated Average Bottom Ammonia Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



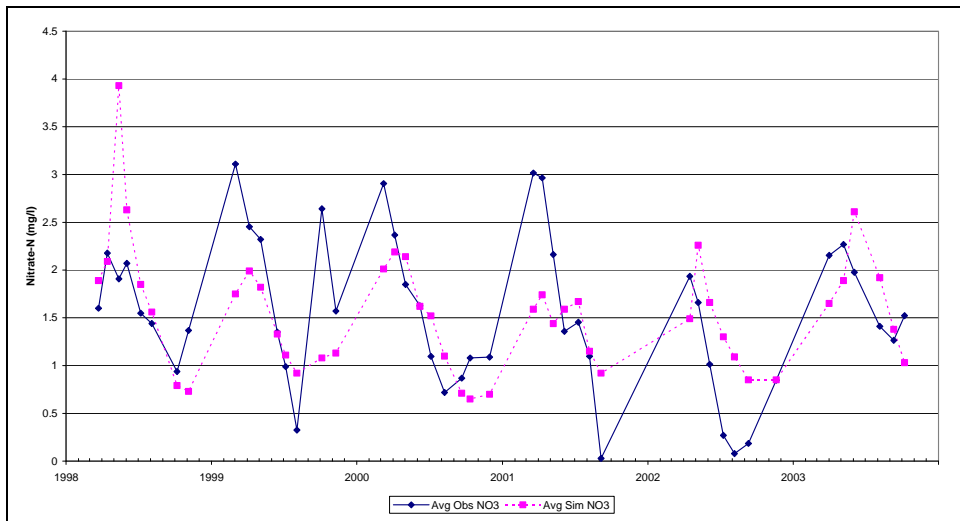
**Figure C24. Observed and Simulated Average Bottom Ammonia Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



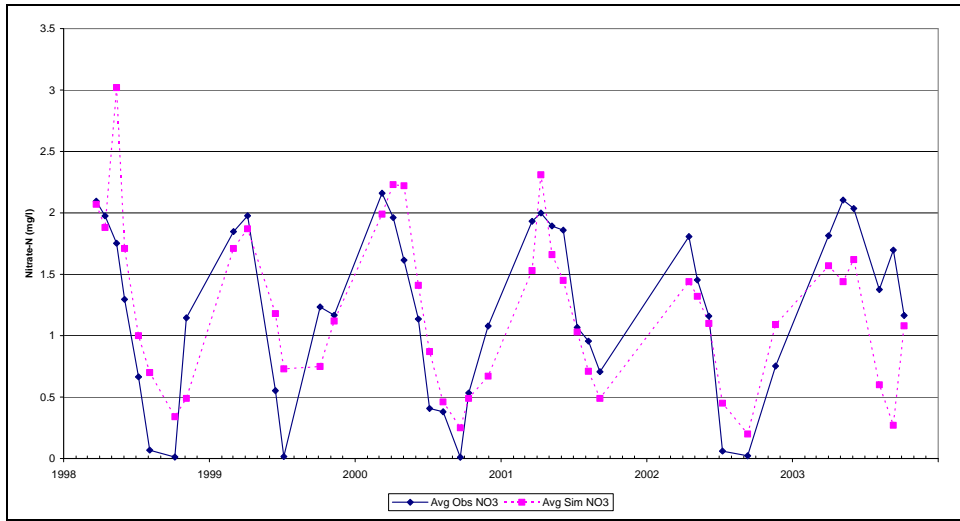
**Figure C25. Observed and Simulated Average Surface Nitrate Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



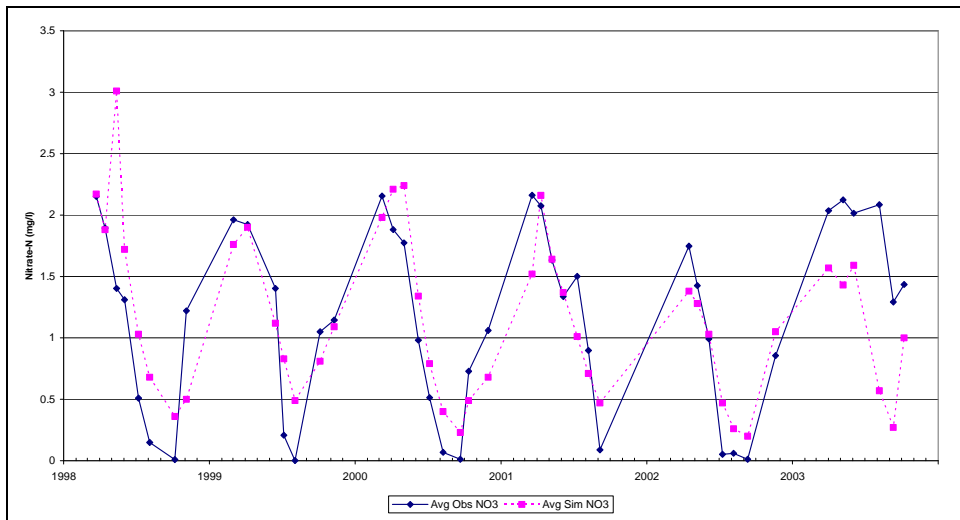
**Figure C26. Observed and Simulated Average Surface Nitrate Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



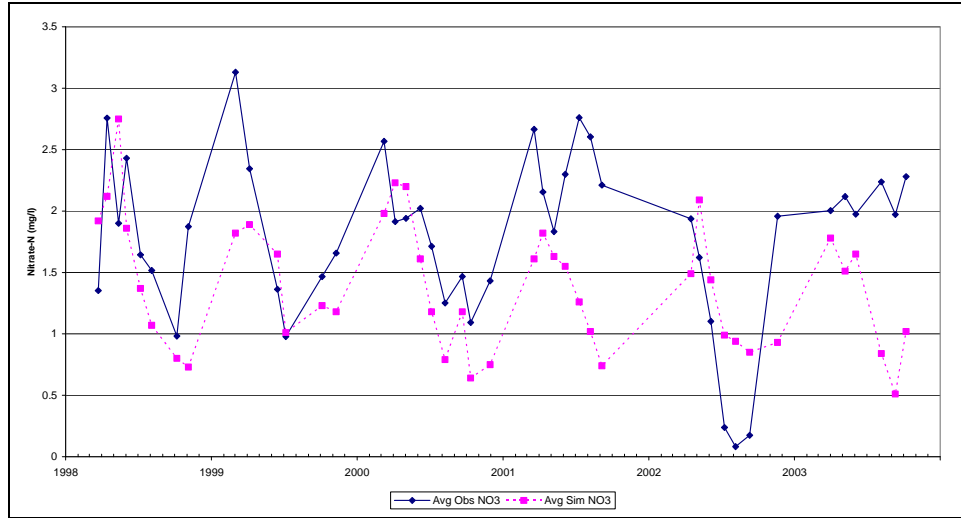
**Figure C27. Observed and Simulated Average Surface Nitrate Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



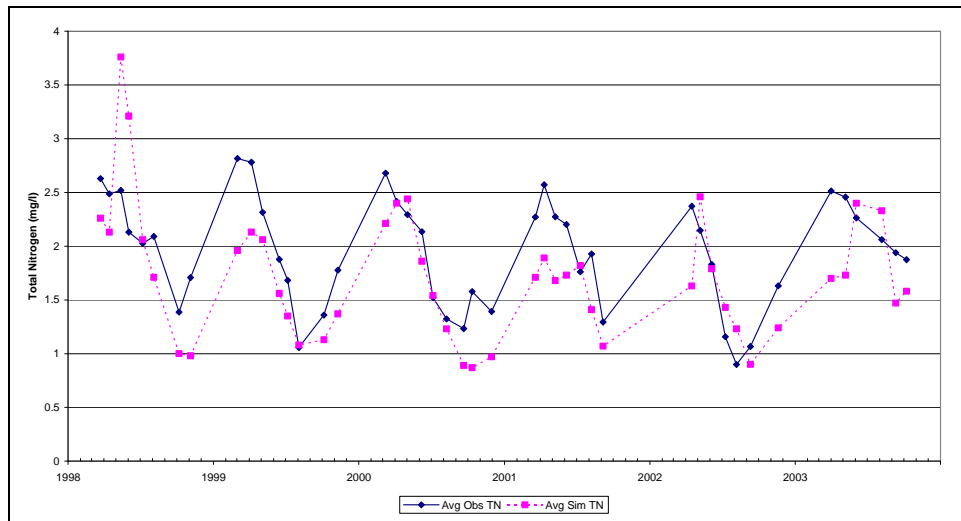
**Figure C28. Observed and Simulated Average Bottom Nitrate Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



**Figure C29. Observed and Simulated Average Bottom Nitrate Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**

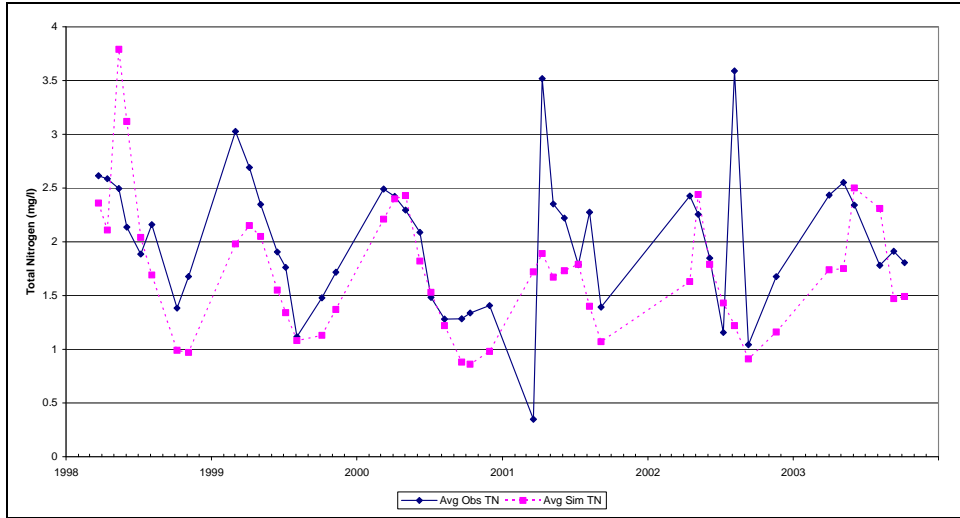


**Figure C30. Observed and Simulated Average Bottom Nitrate Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**

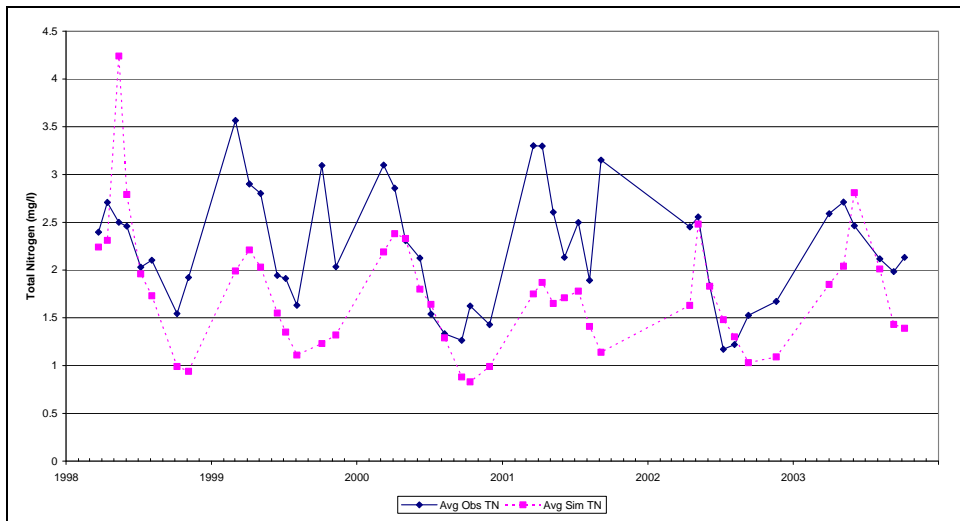


**Figure C31. Observed and Simulated Average Surface Total Nitrogen Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**

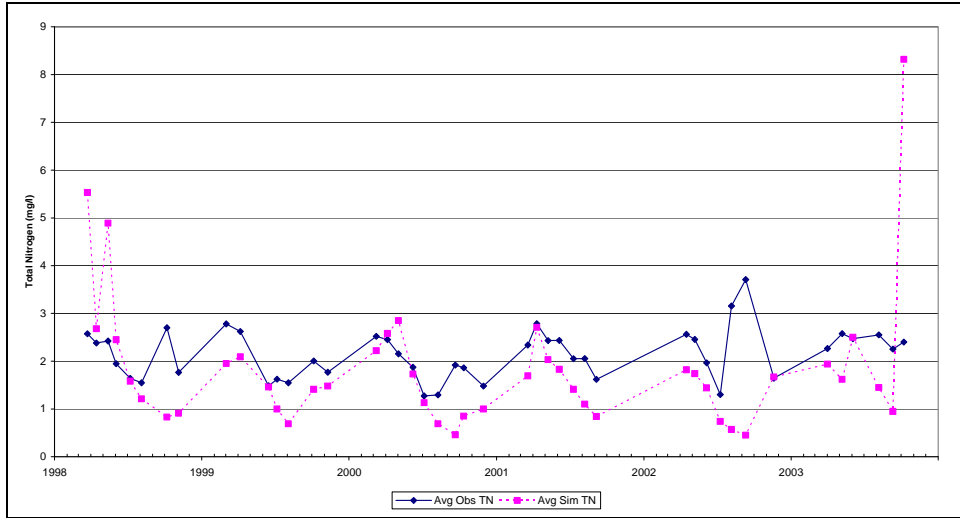




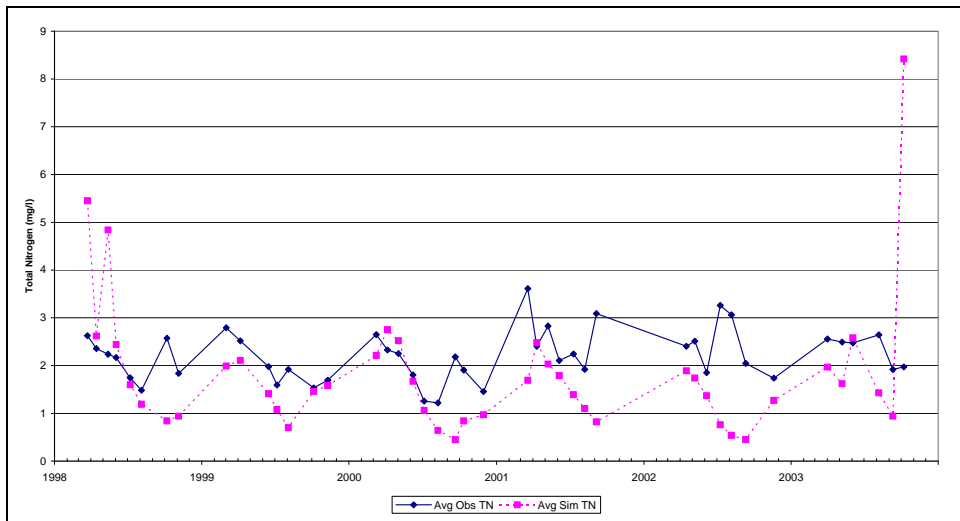
**Figure C32. Observed and Simulated Average Surface Total Nitrogen Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



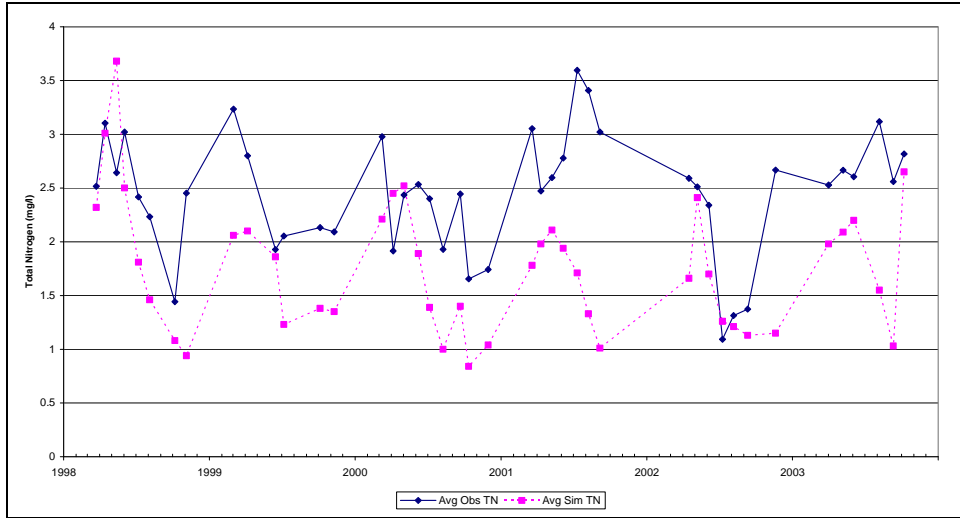
**Figure C33. Observed and Simulated Average Surface Total Nitrogen Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



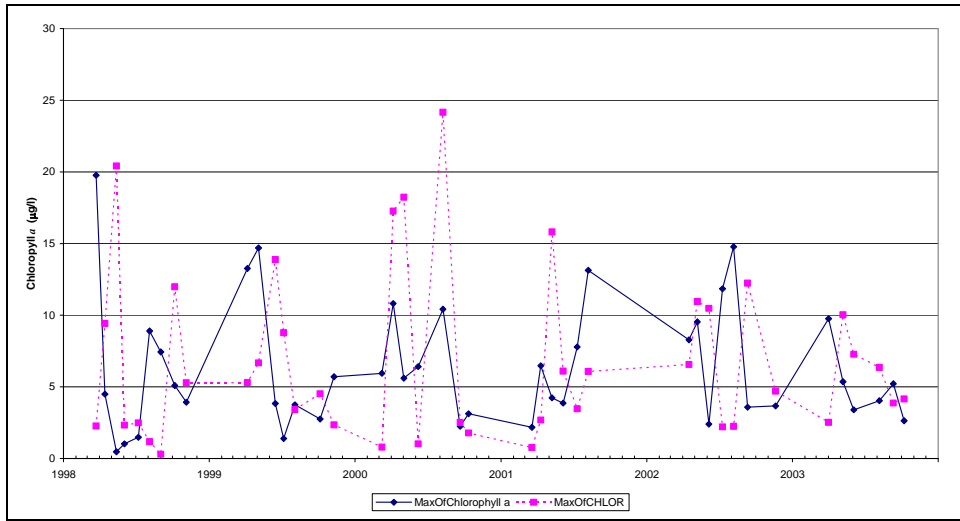
**Figure C34. Observed and Simulated Average Bottom Total Nitrogen Concentrations, TR1, Calibration Scenario, Triadelphia Reservoir**



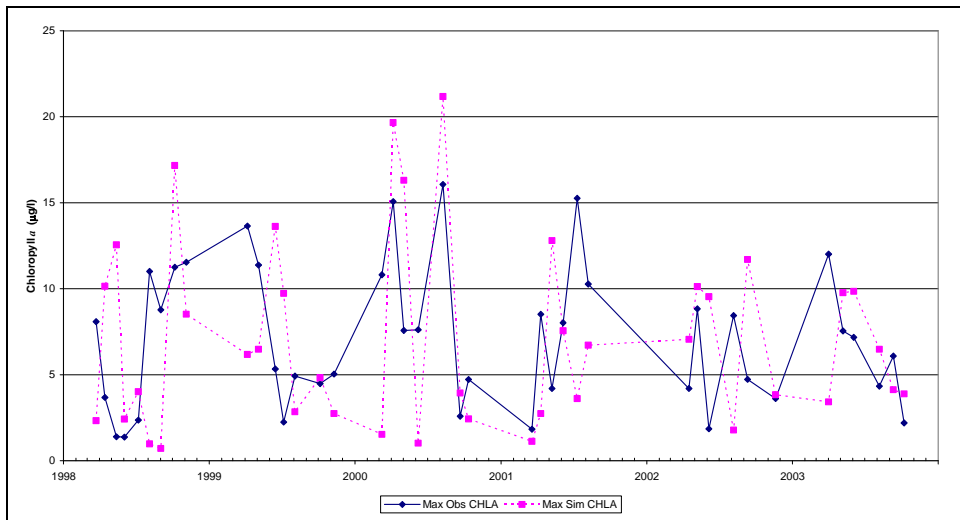
**Figure C35. Observed and Simulated Average Bottom Total Nitrogen Concentrations, TR2, Calibration Scenario, Triadelphia Reservoir**



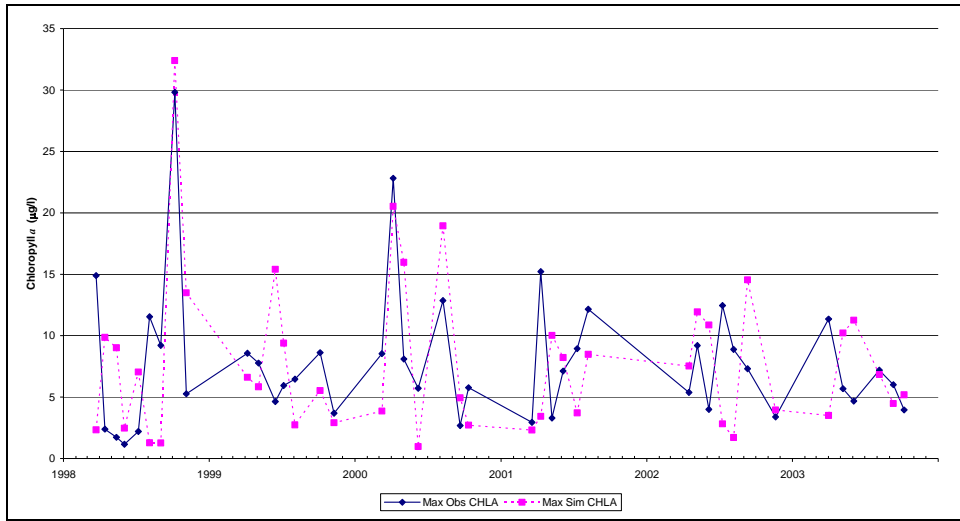
**Figure C36. Observed and Simulated Average Bottom Total Nitrogen Concentrations, TR3, Calibration Scenario, Triadelphia Reservoir**



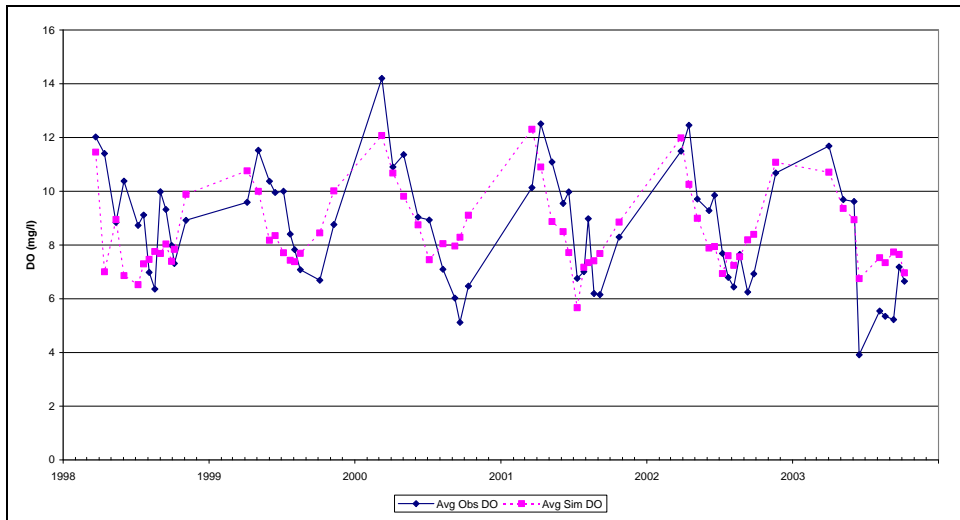
**Figure C37. Observed and Simulated Max Chla Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



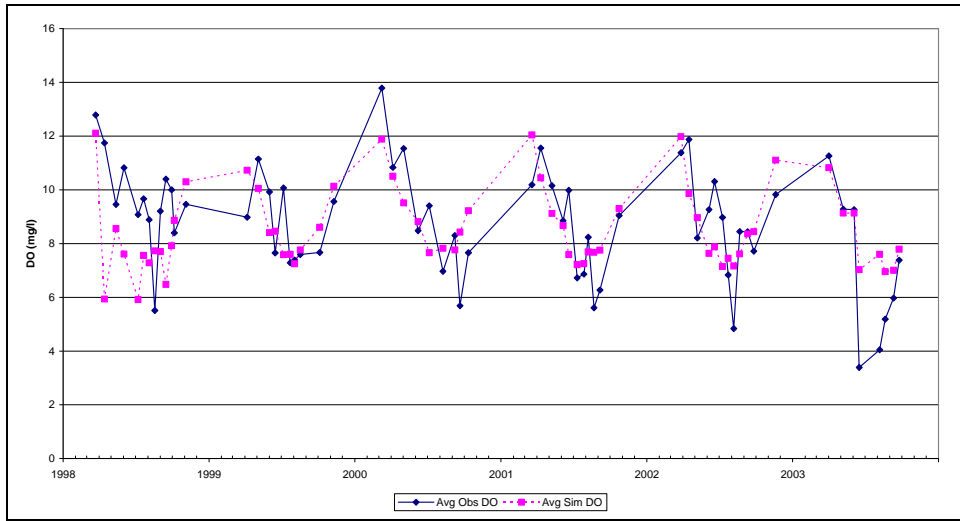
**Figure C38. Observed and Simulated Max Chla Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



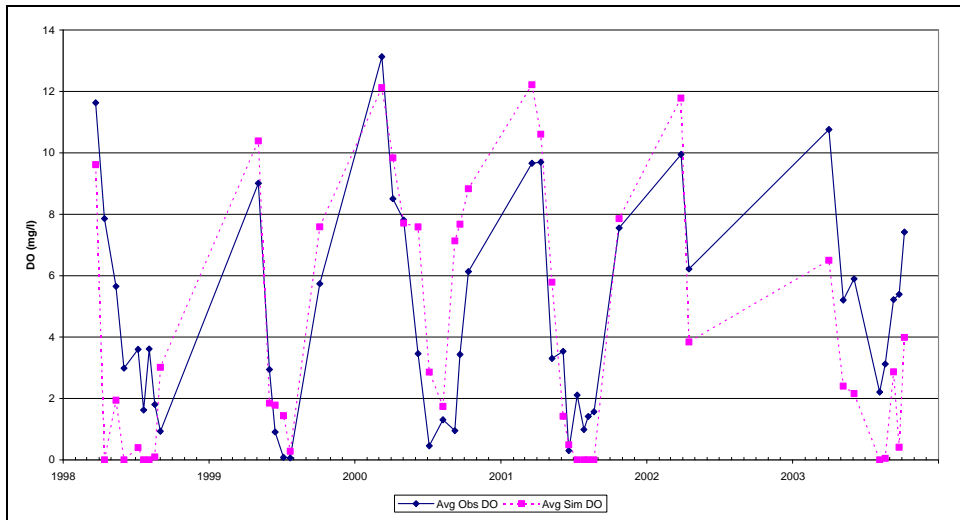
**Figure C39. Observed and Simulated Max Chla Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



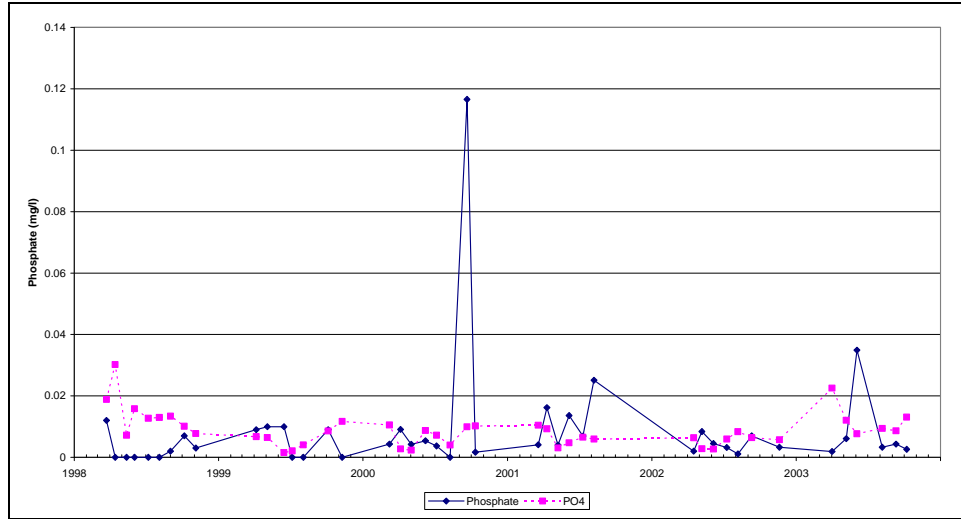
**Figure C40. Observed and Simulated Average Surface DO Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir.**



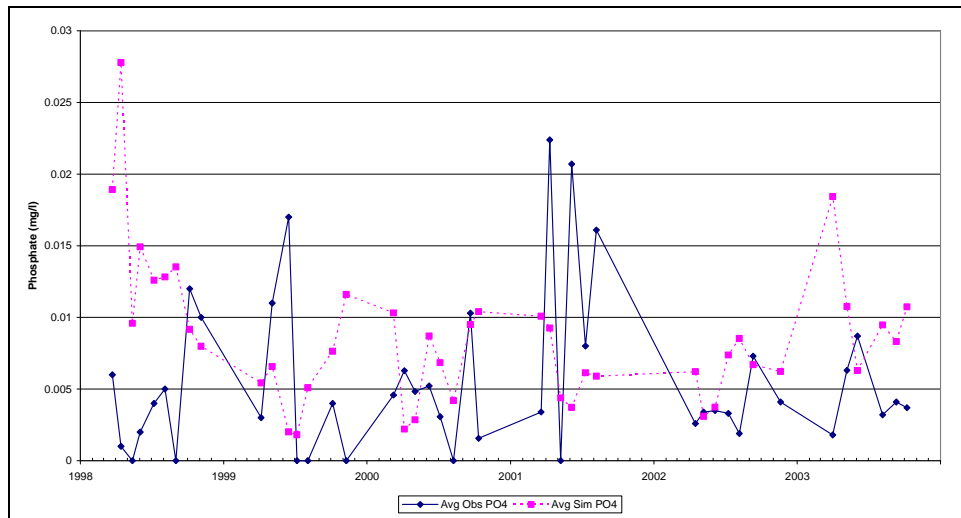
**Figure C41. Observed and Simulated Average Surface DO Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



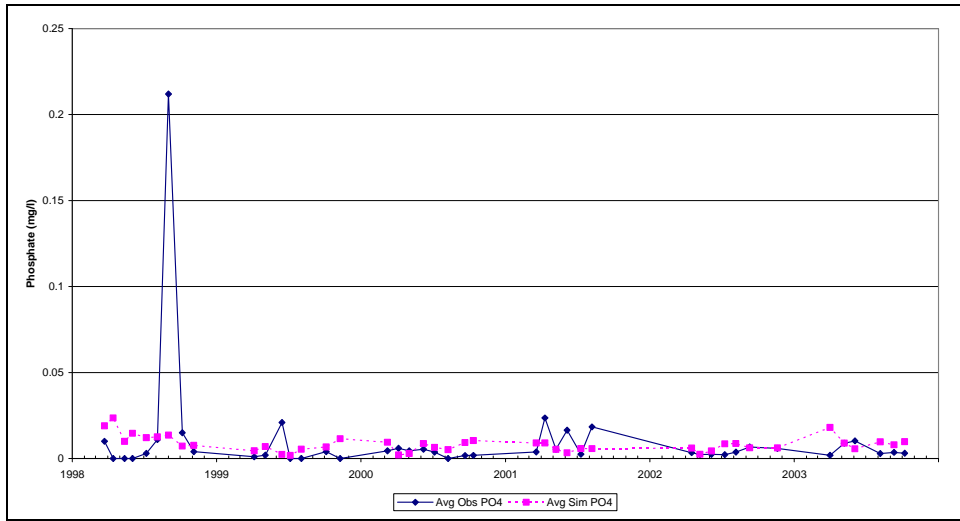
**Figure C42. Observed and Simulated Average Bottom DO Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C43. Observed and Simulated Average Surface Phosphate Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**

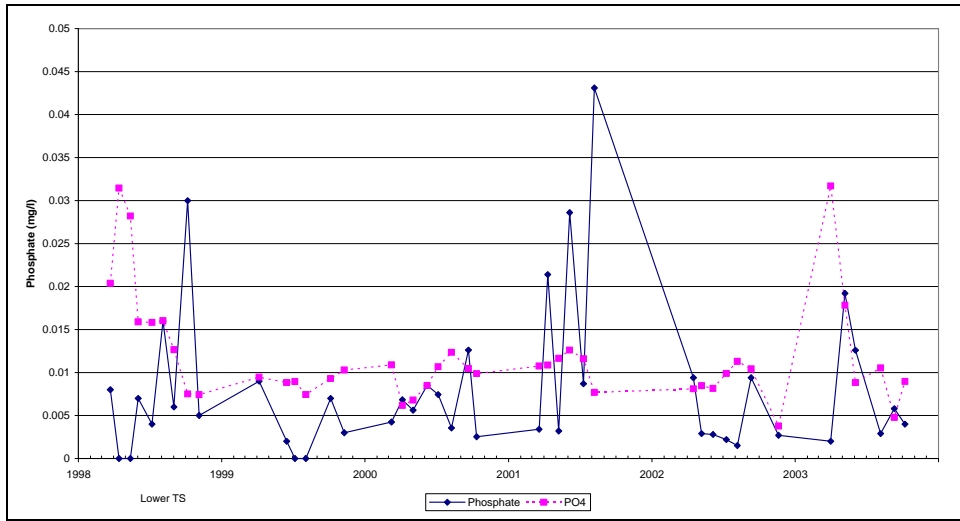


**Figure C44. Observed and Simulated Average Surface Phosphate Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**

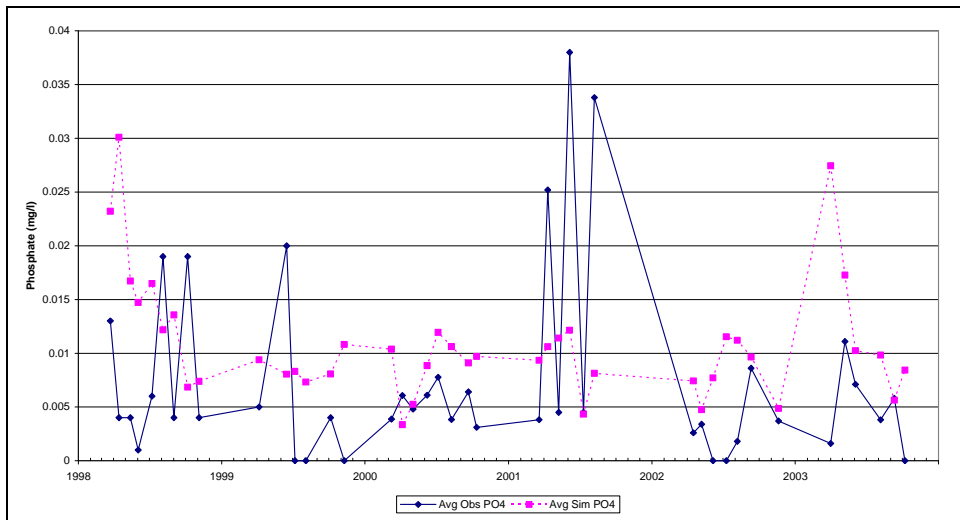


**Figure C45. Observed and Simulated Average Surface Phosphate Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**

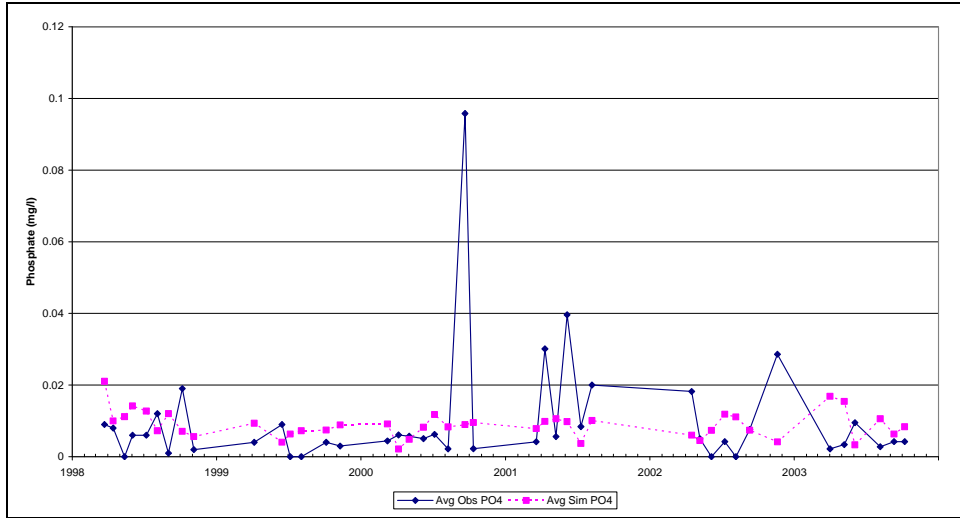




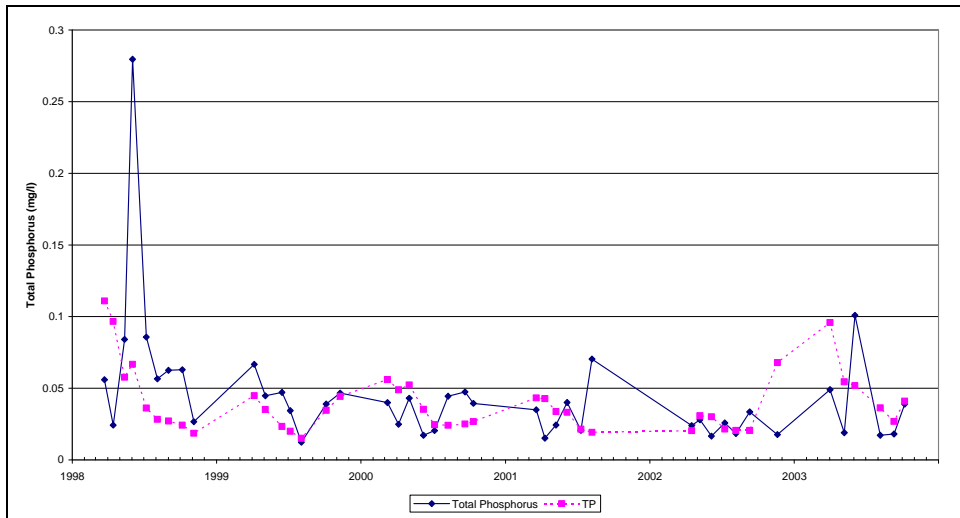
**Figure C46. Observed and Simulated Average Bottom Phosphate Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



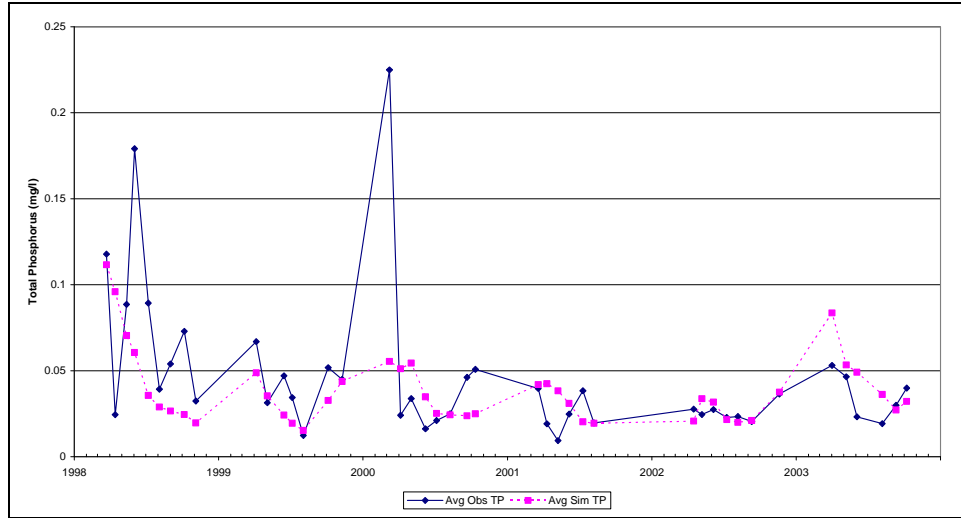
**Figure C47. Observed and Simulated Average Bottom Phosphate Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



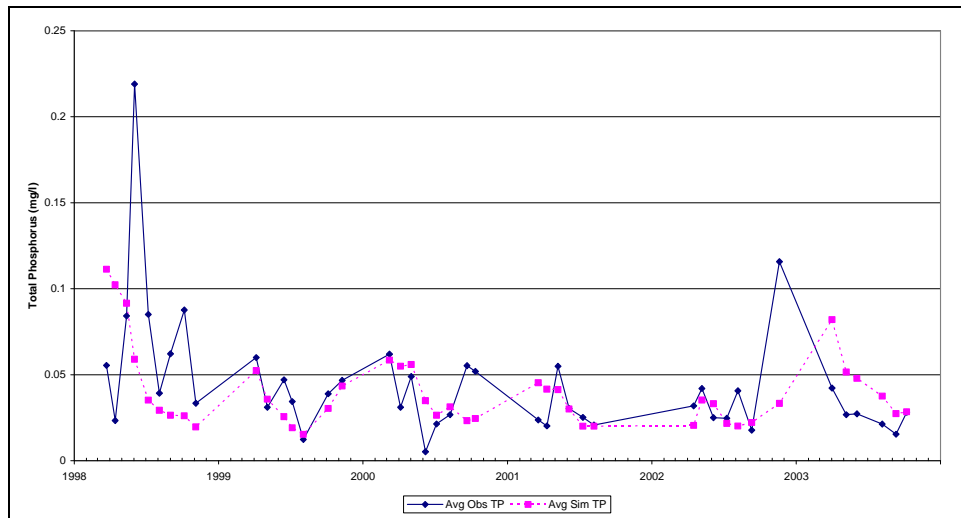
**Figure C48. Observed and Simulated Average Bottom Phosphate Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



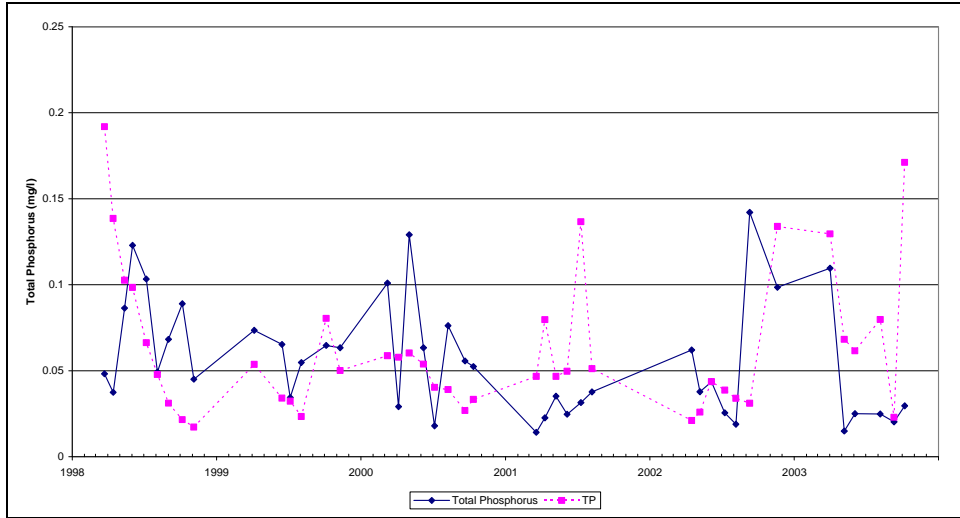
**Figure C49. Observed and Simulated Average Surface Total Phosphorus Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



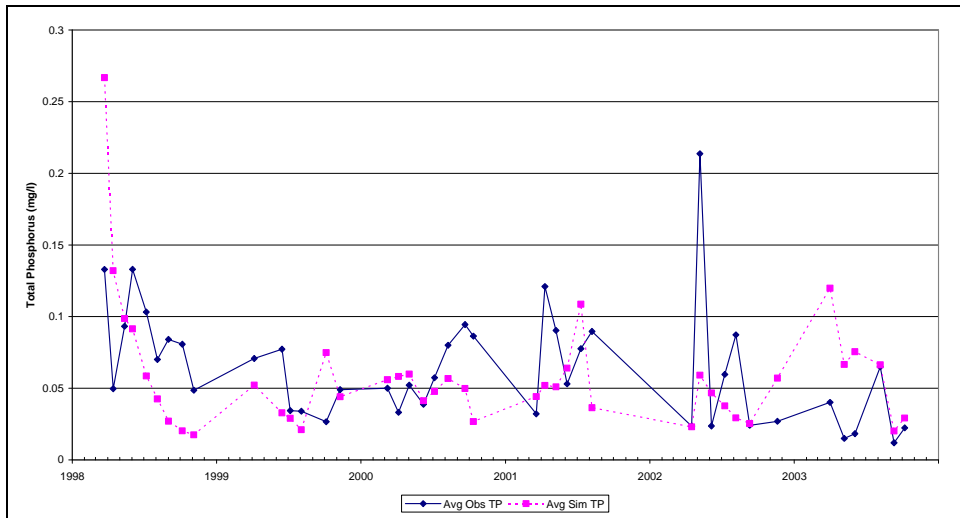
**Figure C50. Observed and Simulated Average Surface Total Phosphorus Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



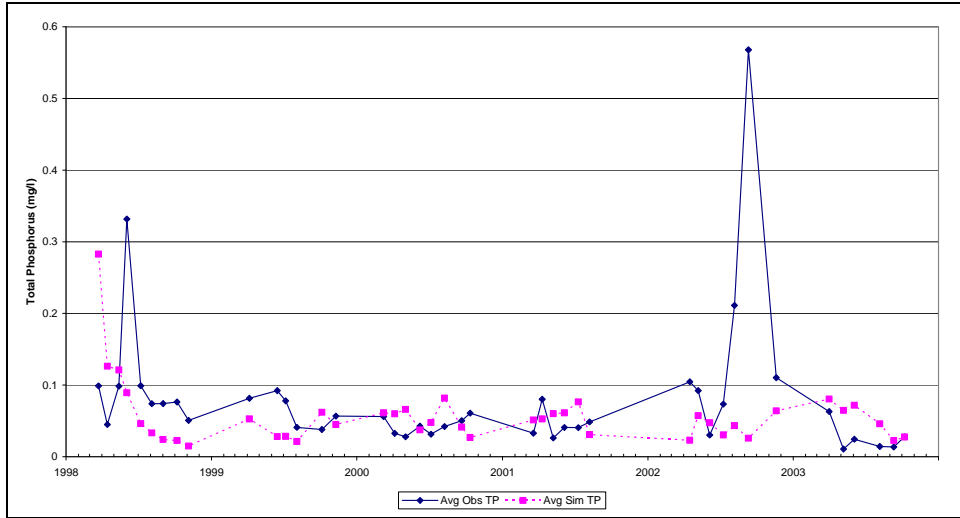
**Figure C51. Observed and Simulated Average Surface Total Phosphorus Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



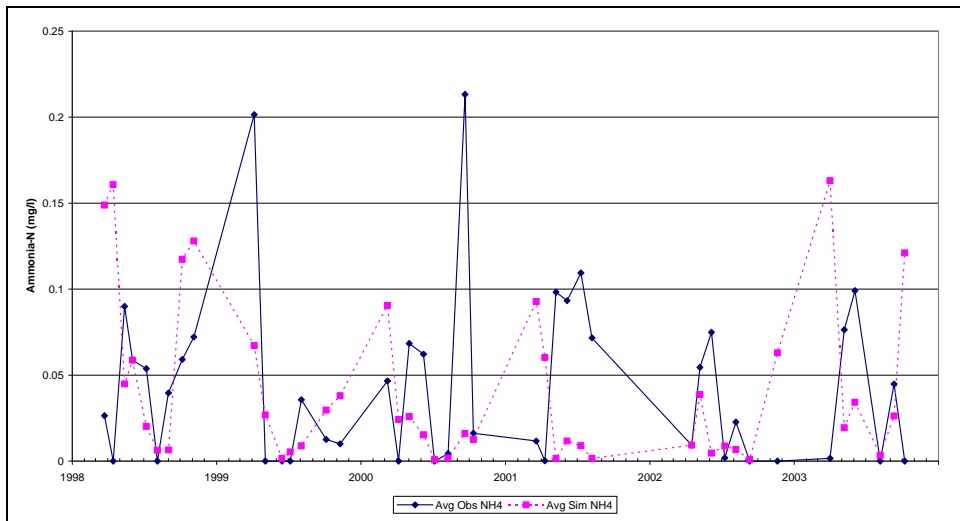
**Figure C52. Observed and Simulated Average Bottom Total Phosphorus Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



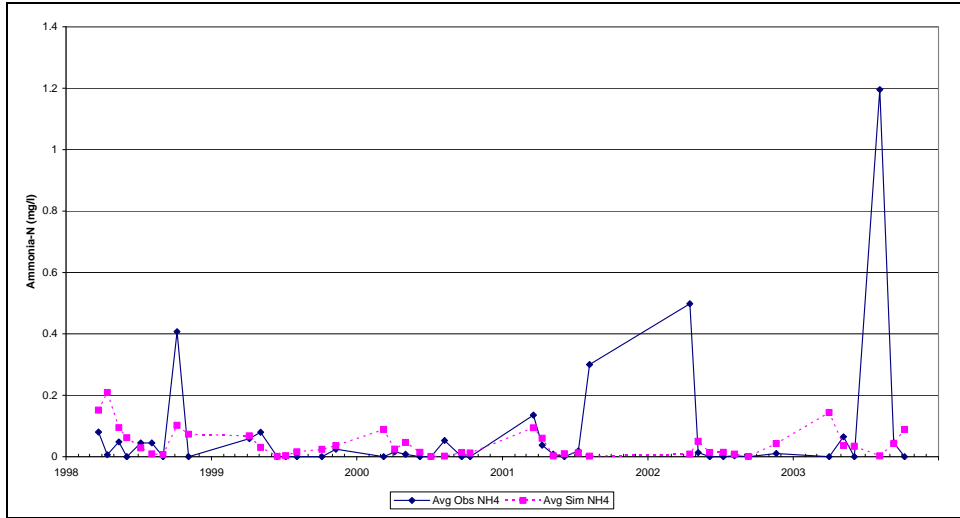
**Figure C53. Observed and Simulated Average Bottom Total Phosphorus Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



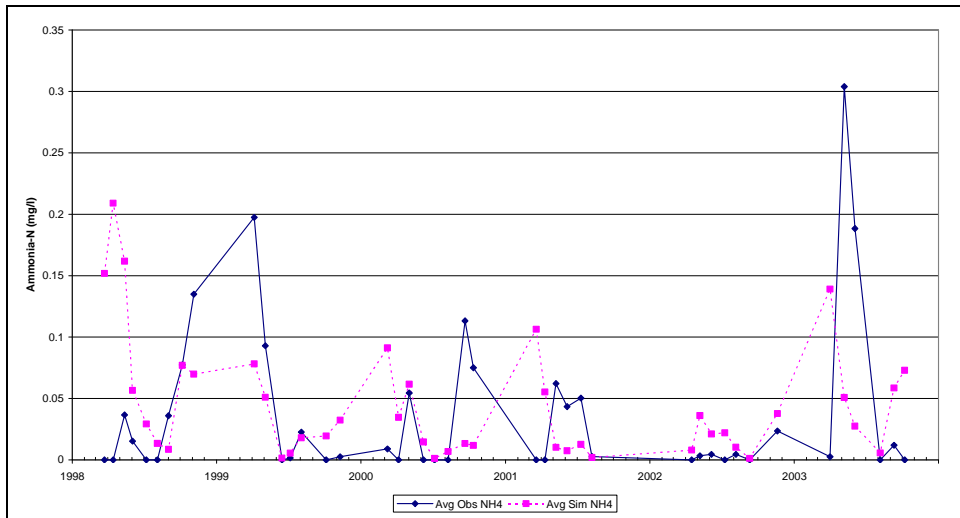
**Figure C54. Observed and Simulated Average Bottom Total Phosphorus Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



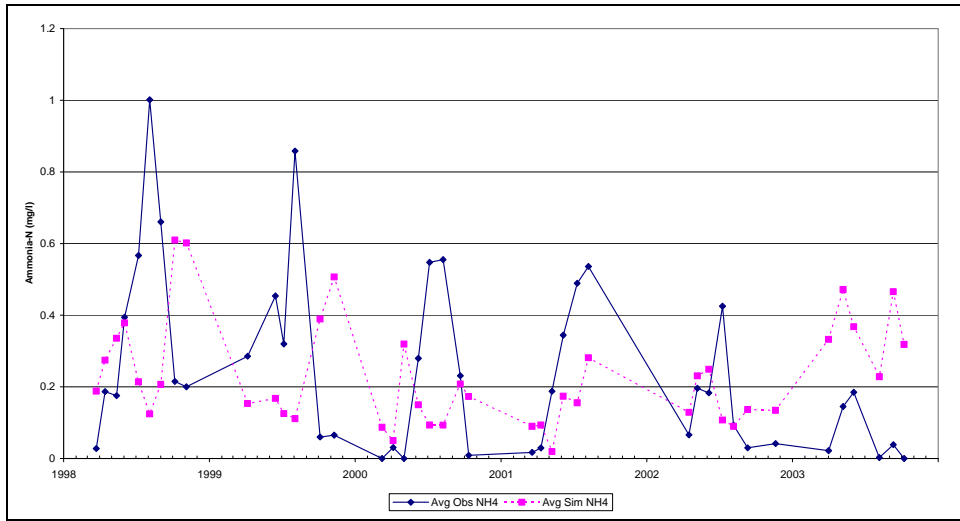
**Figure C55. Observed and Simulated Average Surface Ammonia Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



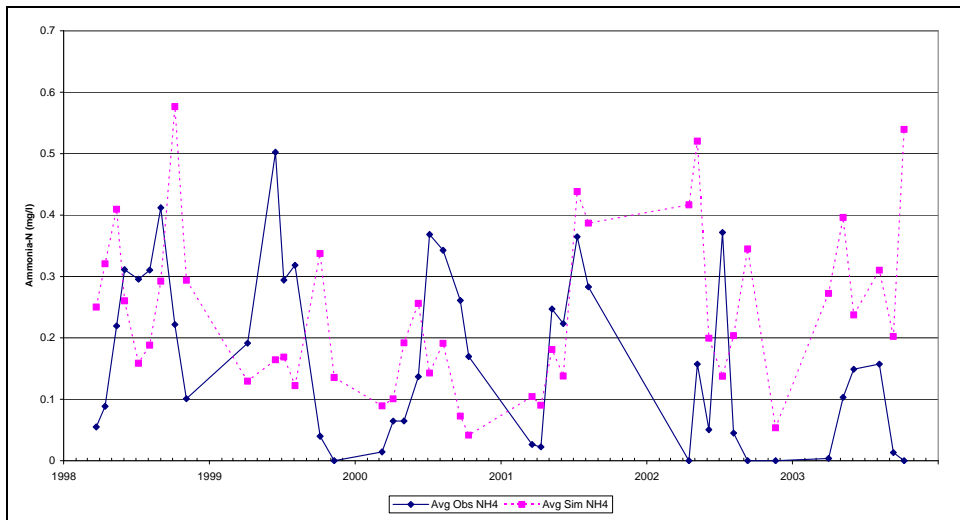
**Figure C56. Observed and Simulated Average Surface Ammonia Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



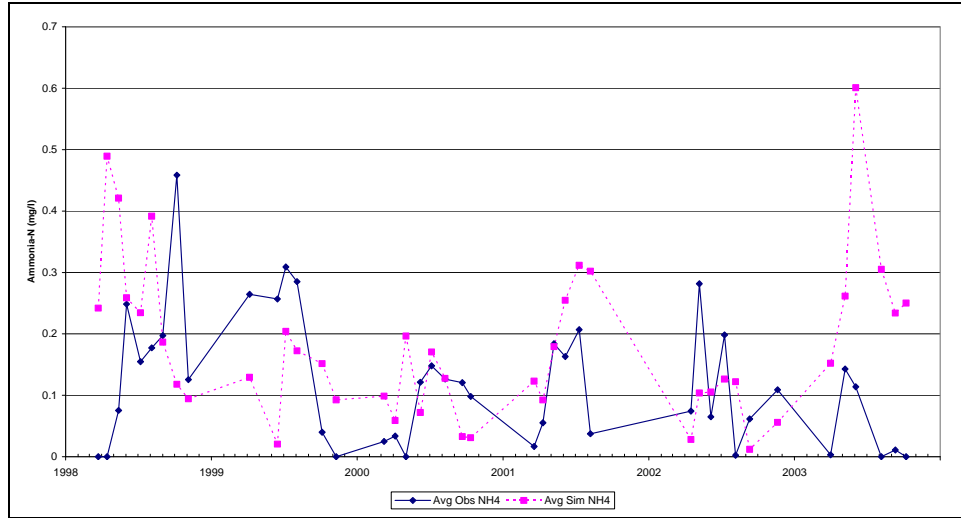
**Figure C57. Observed and Simulated Average Surface Ammonia Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



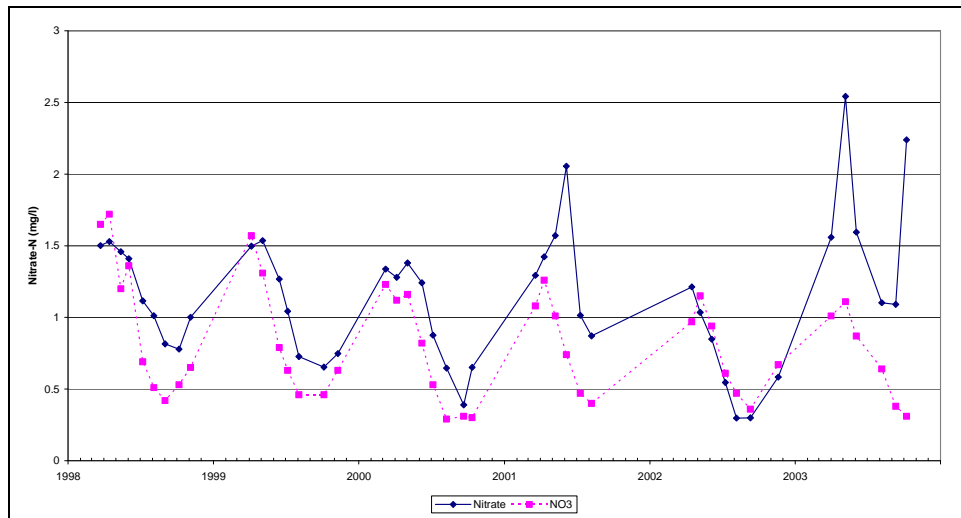
**Figure C58. Observed and Simulated Average Bottom Ammonia Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C59. Observed and Simulated Average Bottom Ammonia Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**

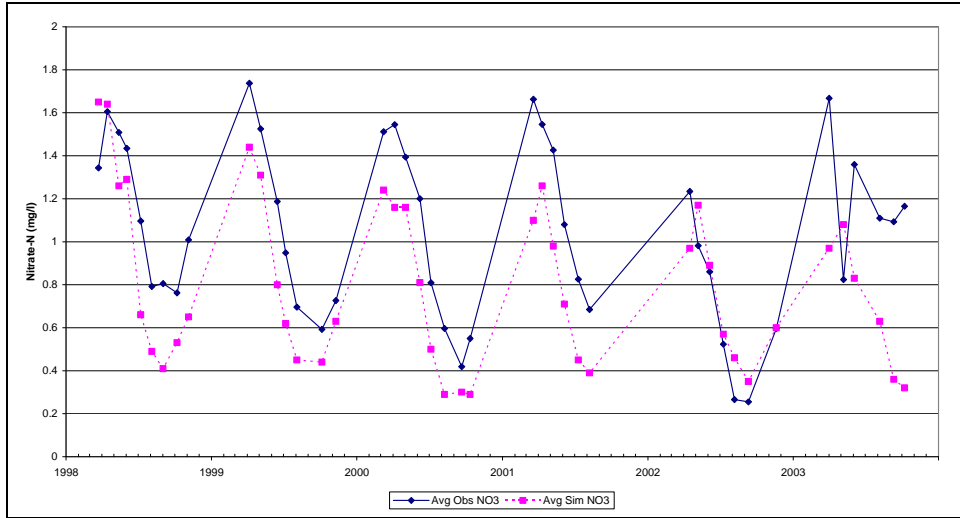


**Figure C60. Observed and Simulated Average Bottom Ammonia Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**

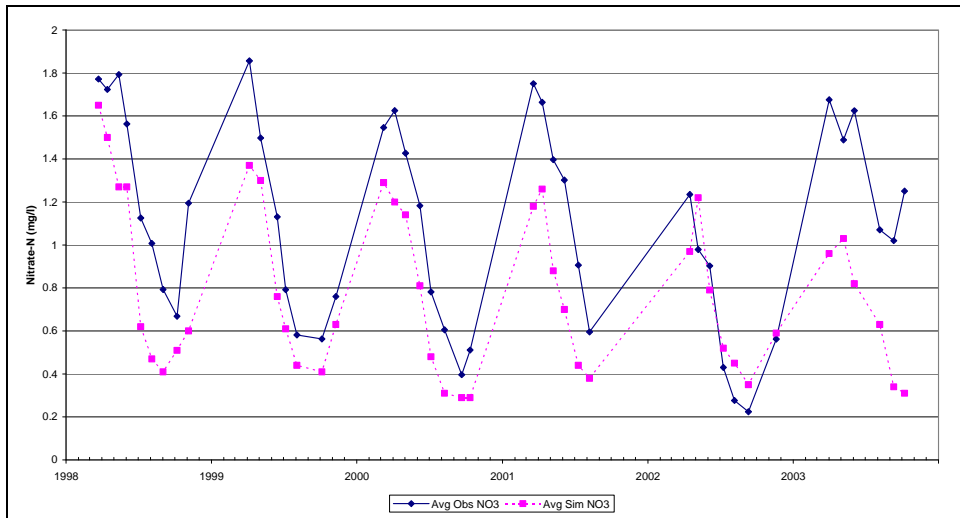


**Figure C61. Observed and Simulated Average Surface Nitrate Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**

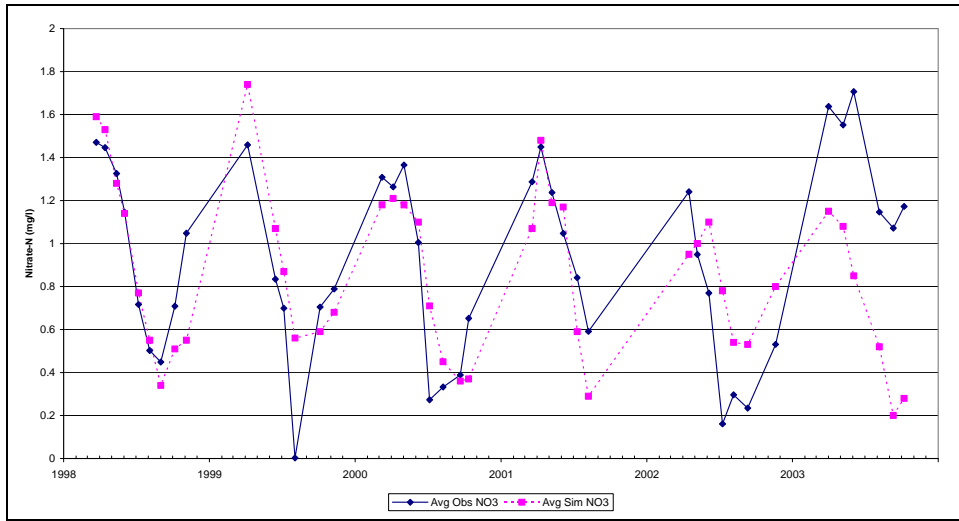




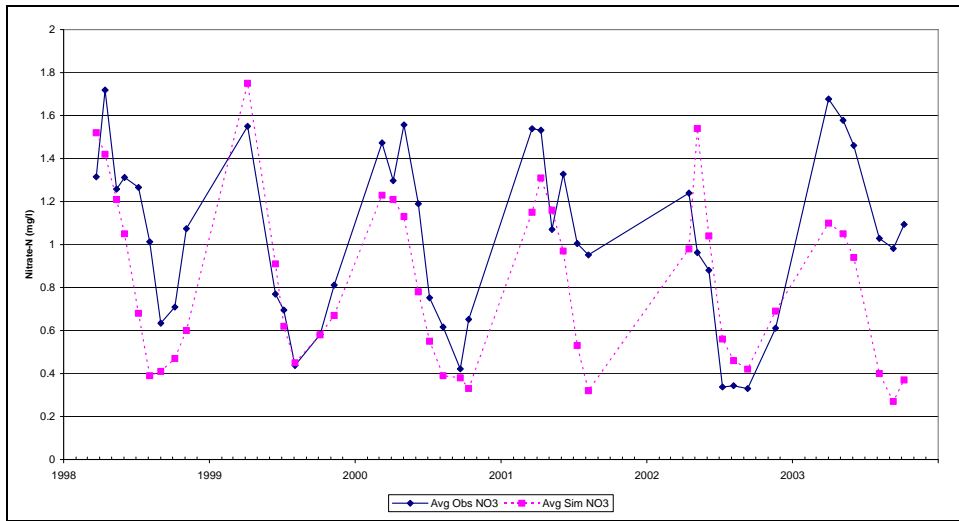
**Figure C62. Observed and Simulated Average Surface Nitrate Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



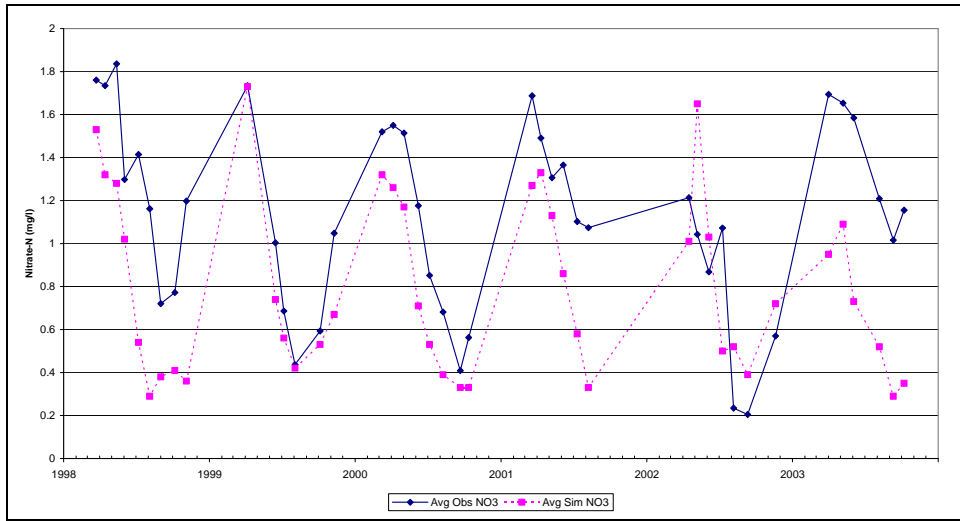
**Figure C63. Observed and Simulated Average Surface Nitrate Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C64. Observed and Simulated Average Bottom Nitrate Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



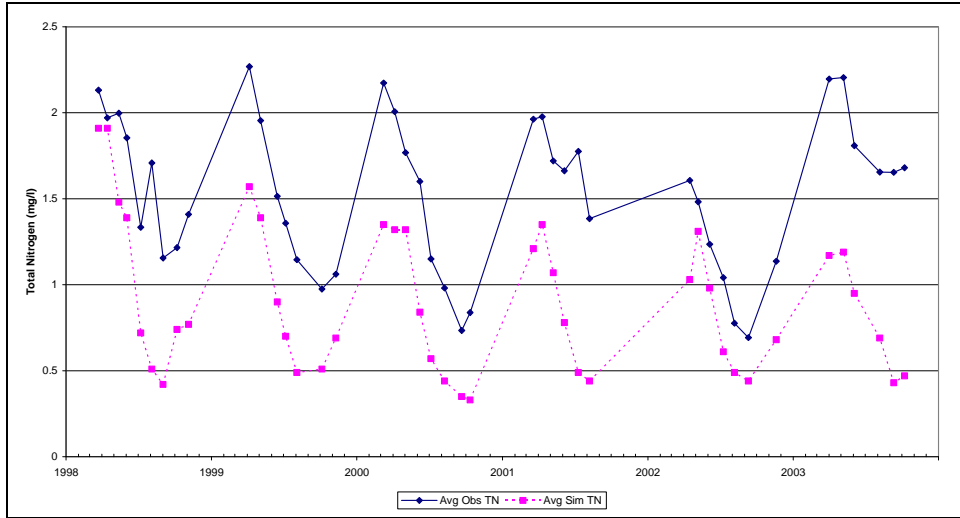
**Figure C66. Observed and Simulated Average Bottom Nitrate Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



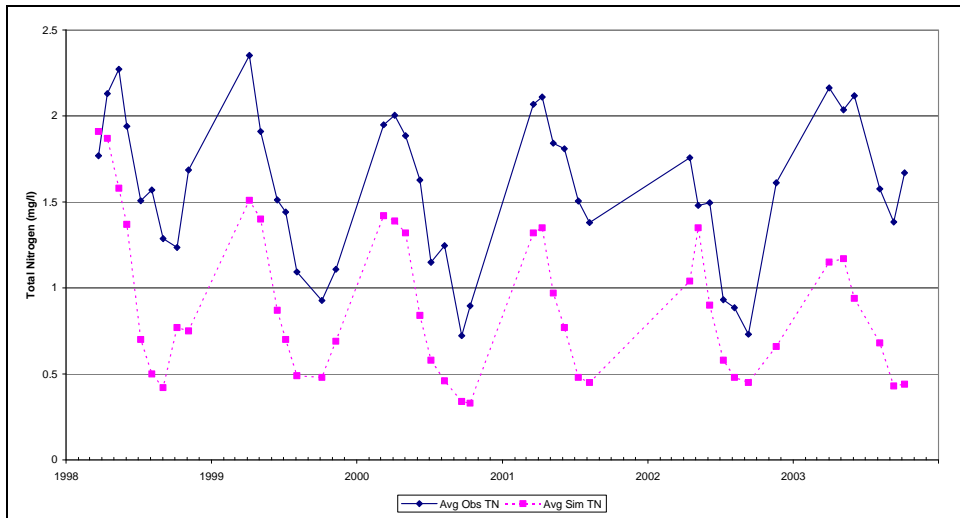
**Figure C66. Observed and Simulated Average Bottom Nitrate Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



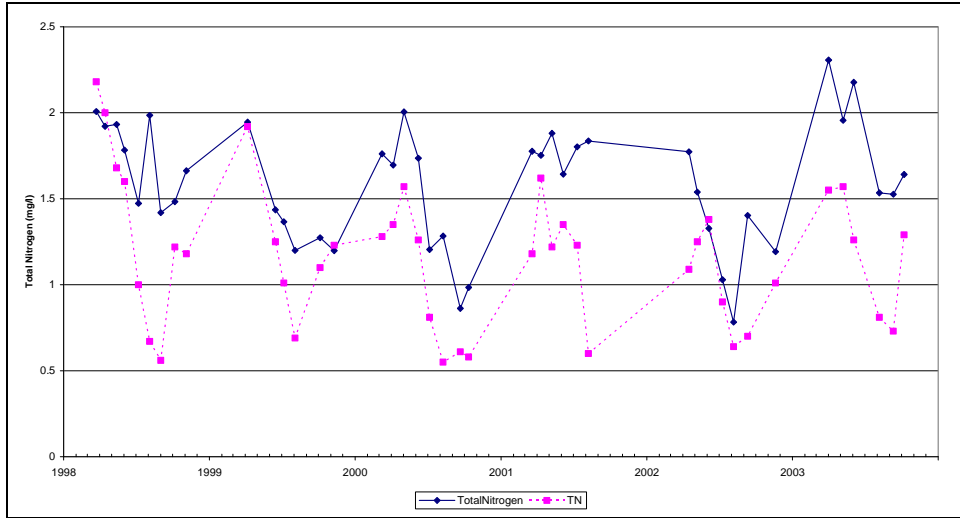
**Figure C67. Observed and Simulated Average Surface Total Nitrogen Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



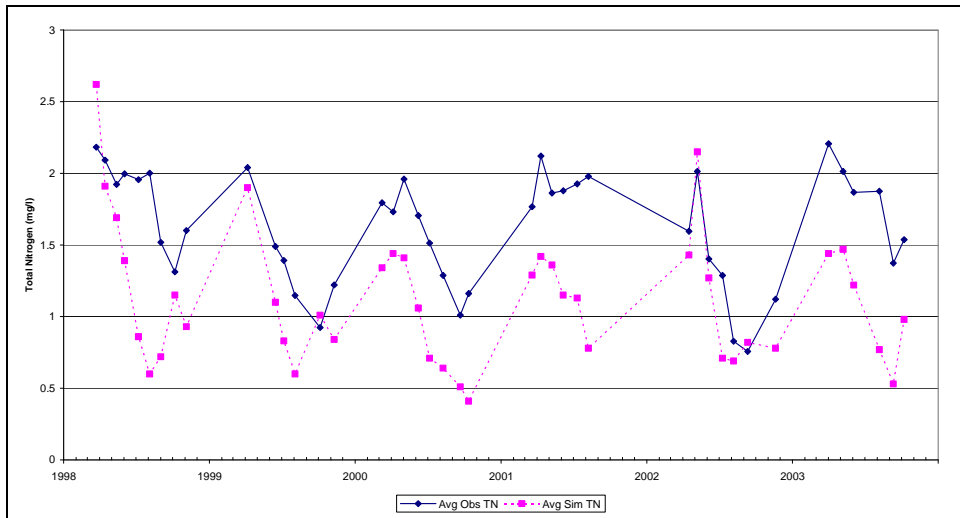
**Figure C68. Observed and Simulated Average Surface Total Nitrogen Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



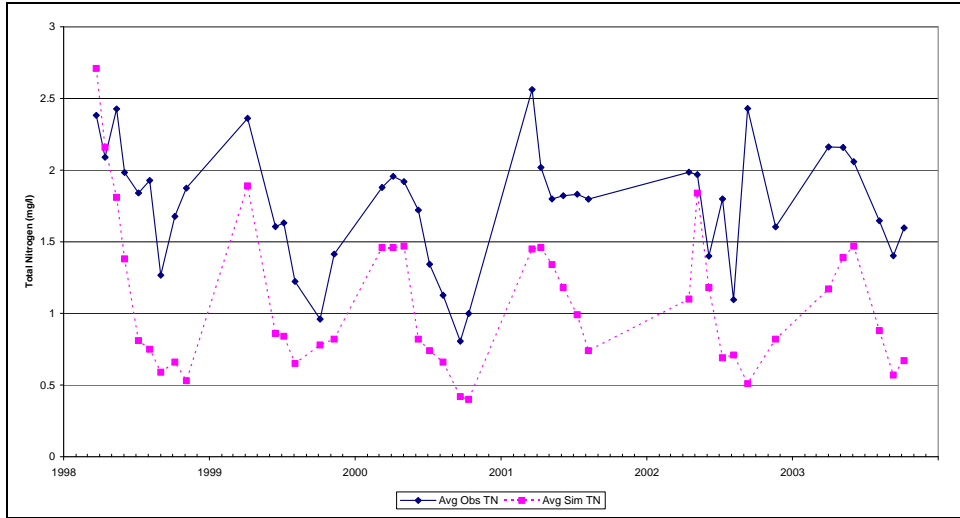
**Figure C69. Observed and Simulated Average Surface Total Nitrogen Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C70. Observed and Simulated Average Bottom Total Nitrogen Concentrations, RG1, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C71. Observed and Simulated Average Bottom Total Nitrogen Concentrations, RG2, Calibration Scenario, Rocky Gorge Reservoir**



**Figure C72. Observed and Simulated Average Bottom Total Nitrogen Concentrations, RG3, Calibration Scenario, Rocky Gorge Reservoir**