Figure 4-1. Local Domain with Regional Heads

(a) Layer 3 (UTRA)

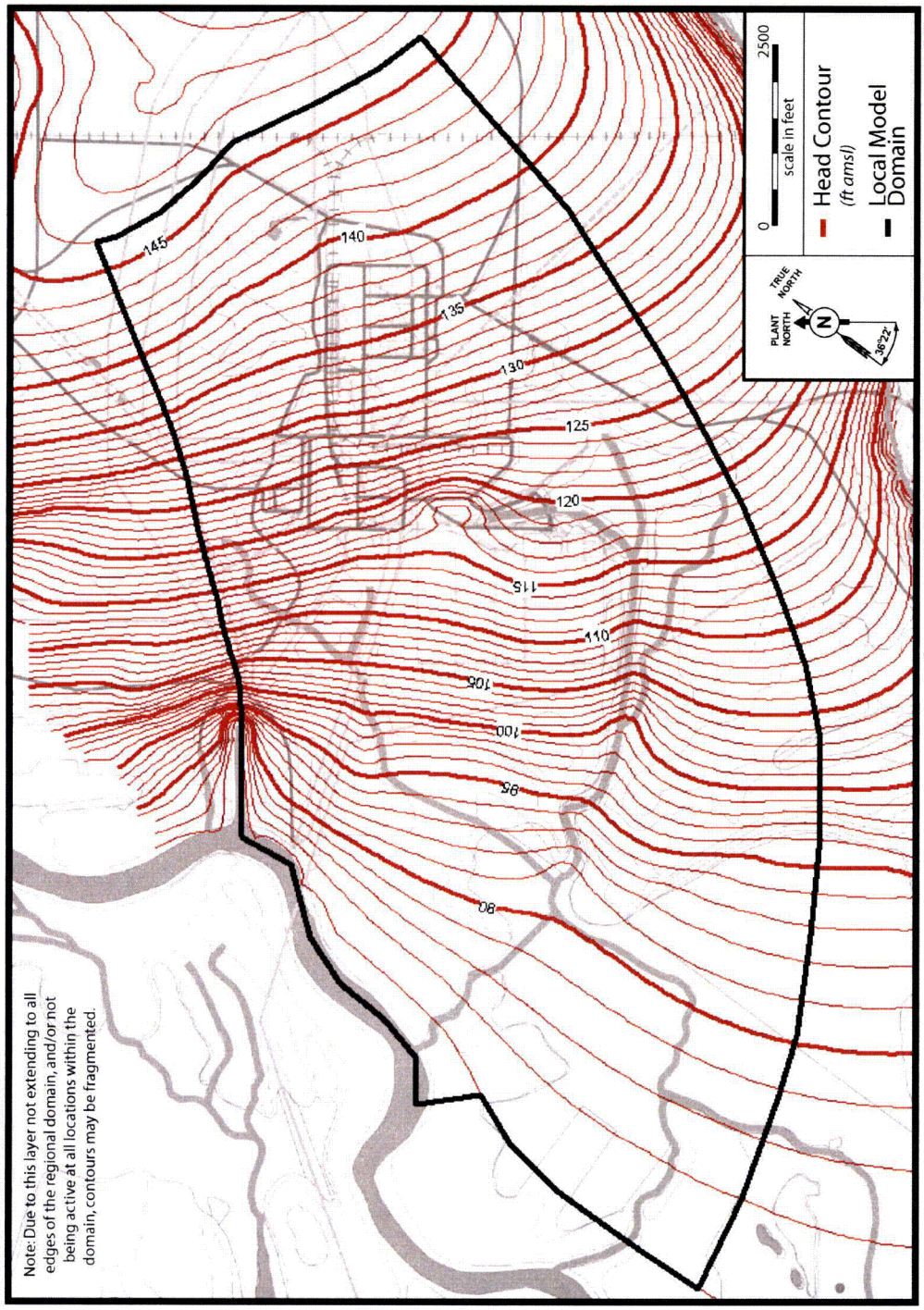


Figure 4-1. (con't) Local Domain with Regional Heads

(b) Layer 5 (GA)

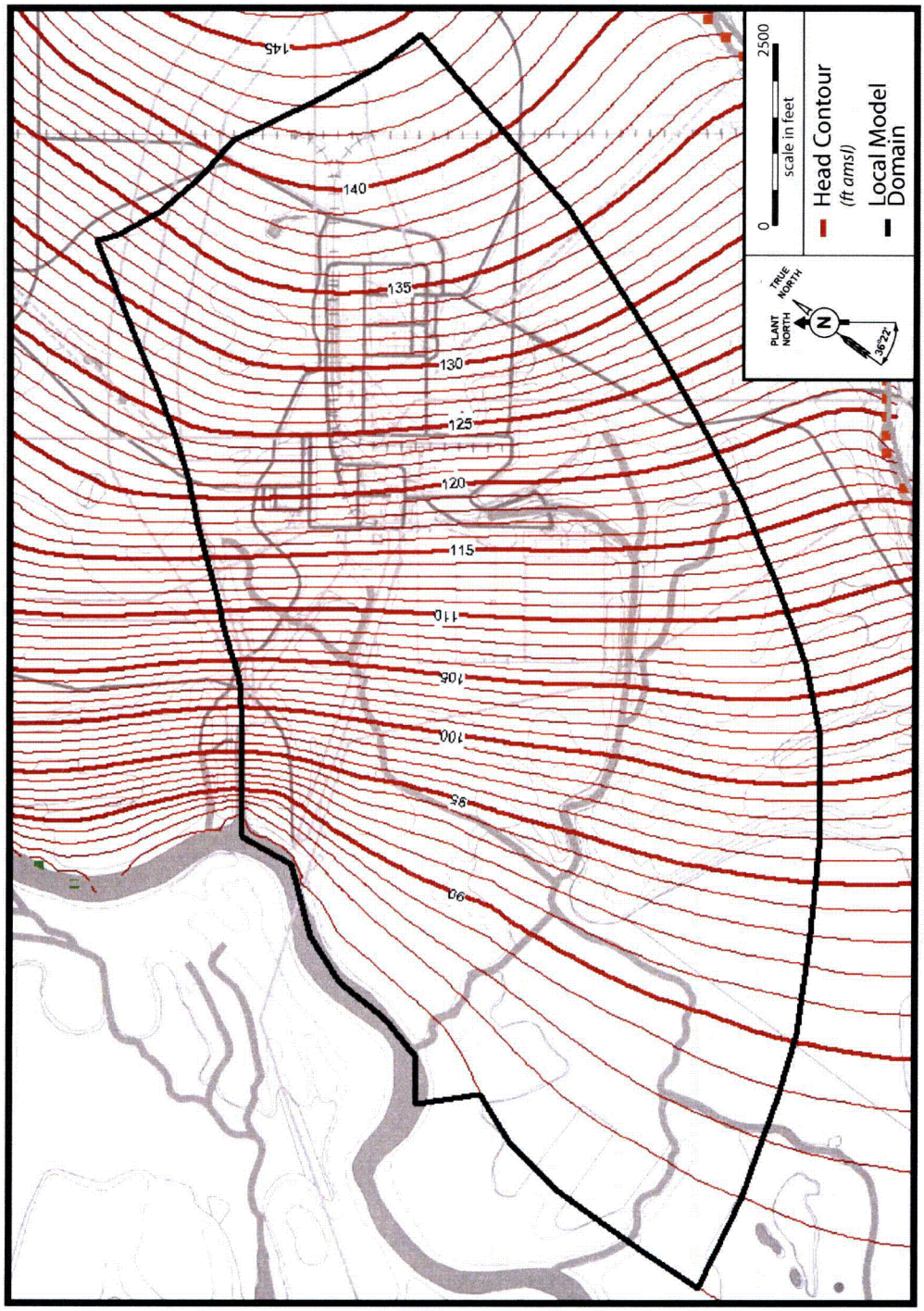
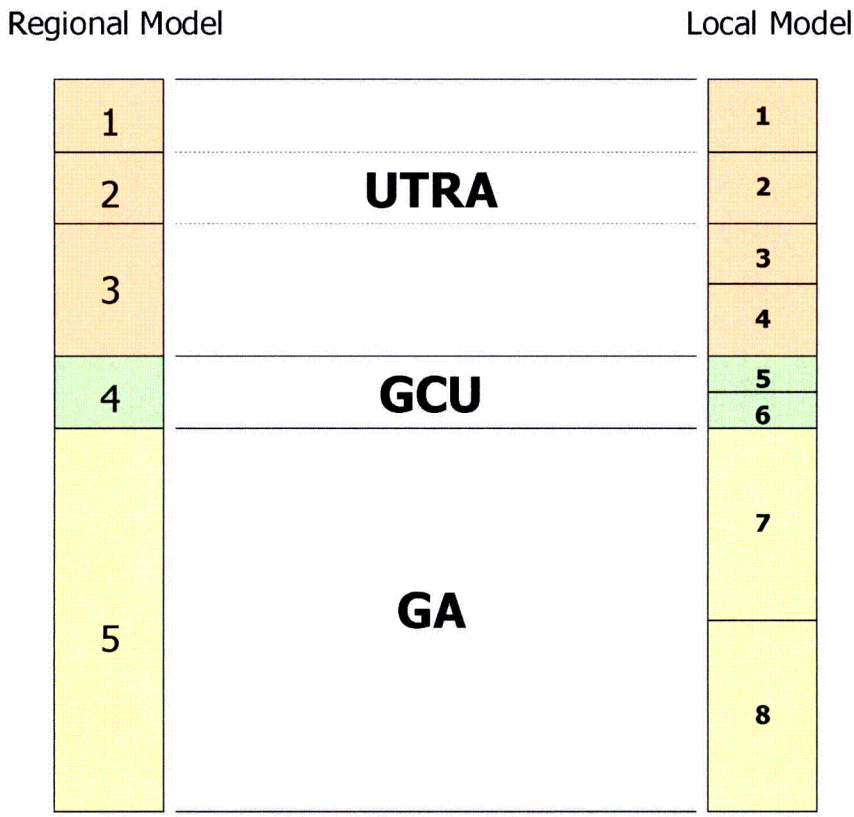


Figure 4-2. Layering Convention for Regional and Local Models



Not to scale. Layer thickness is only qualitatively represented.

Figure 4-3. Local Model Grid

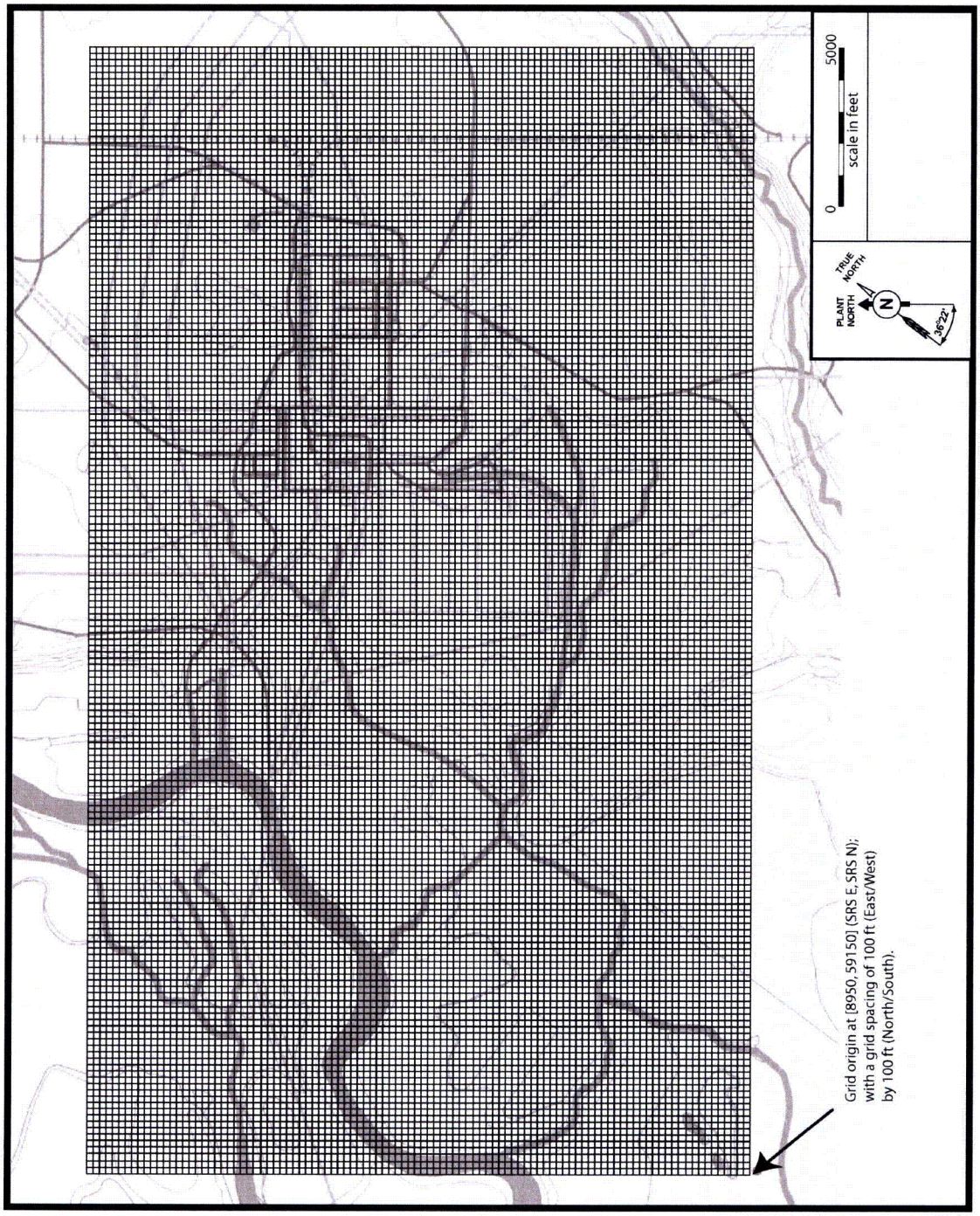


Figure 4-4. Layer 1 (UTRA) Boundary Conditions for Local Flow Model

(a) Conceptual Arcs and Conditions

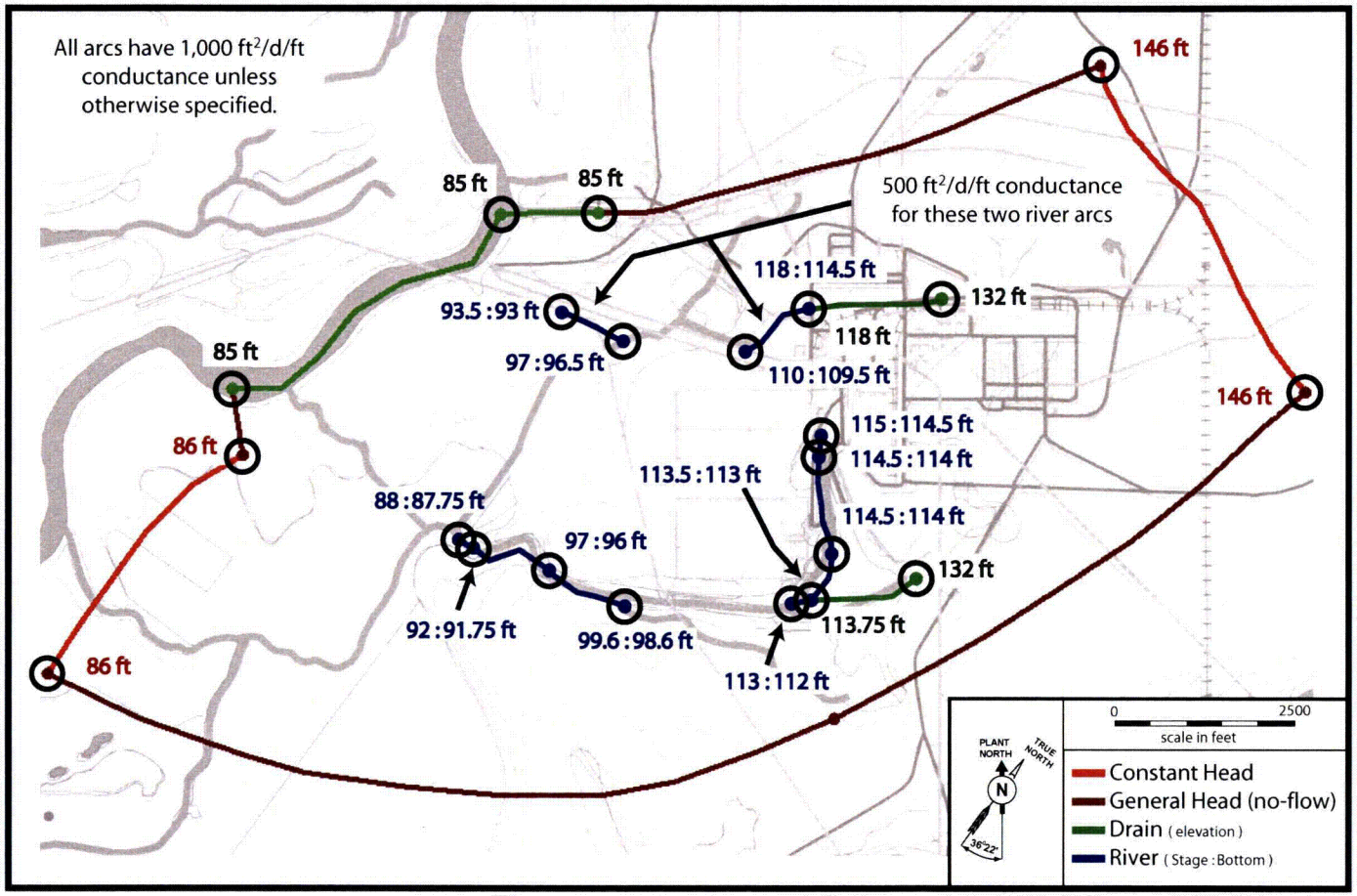


Figure 4-4. (con't) Layer 1 (UTRA) Boundary Conditions for Local Flow Model
(b) Modflow Cell Designations for Layer 1

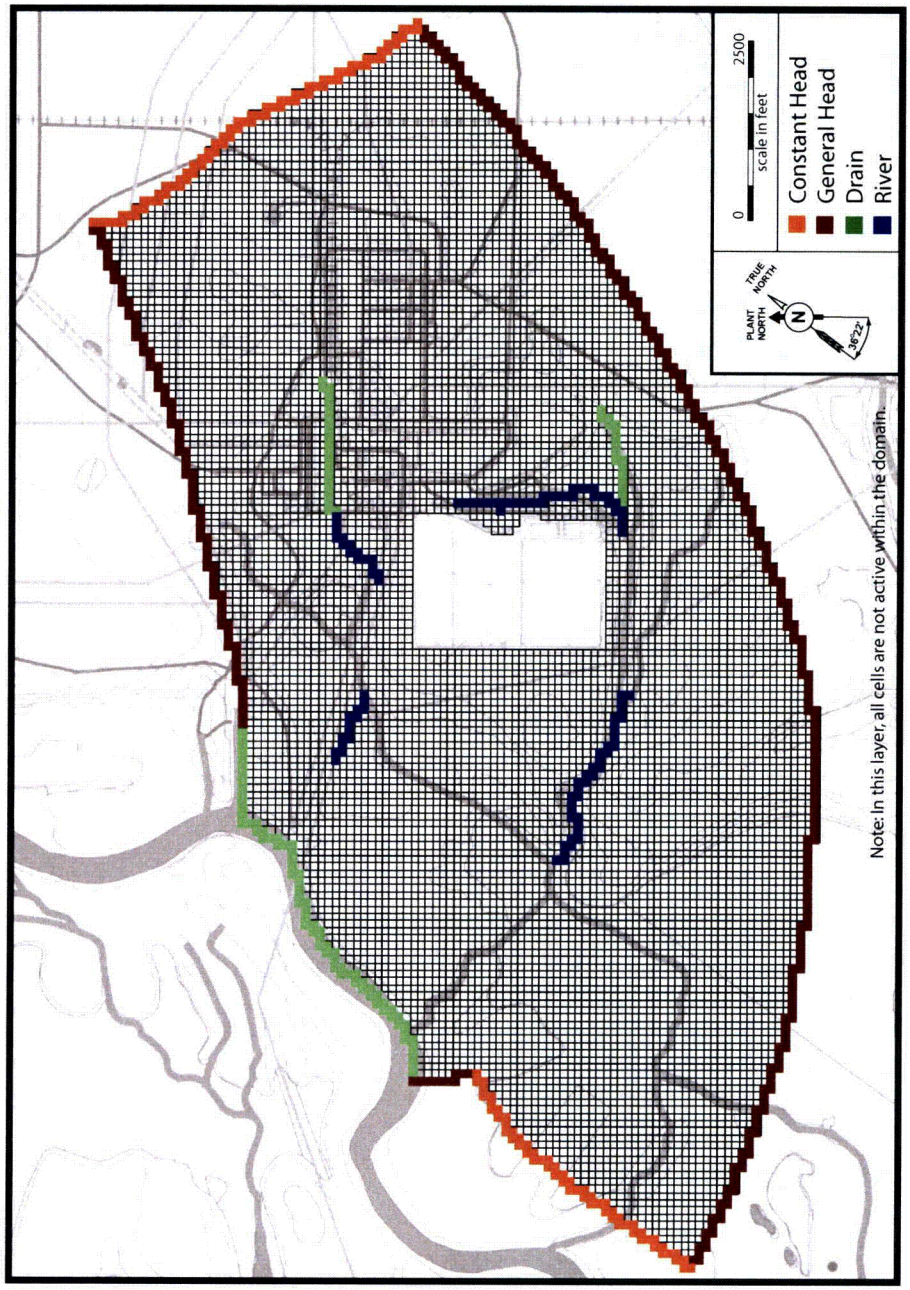


Figure 4-5. Layers 2 through 4 (UTRA) Boundary Conditions for Local Flow Model

(a) Conceptual Arcs and Conditions

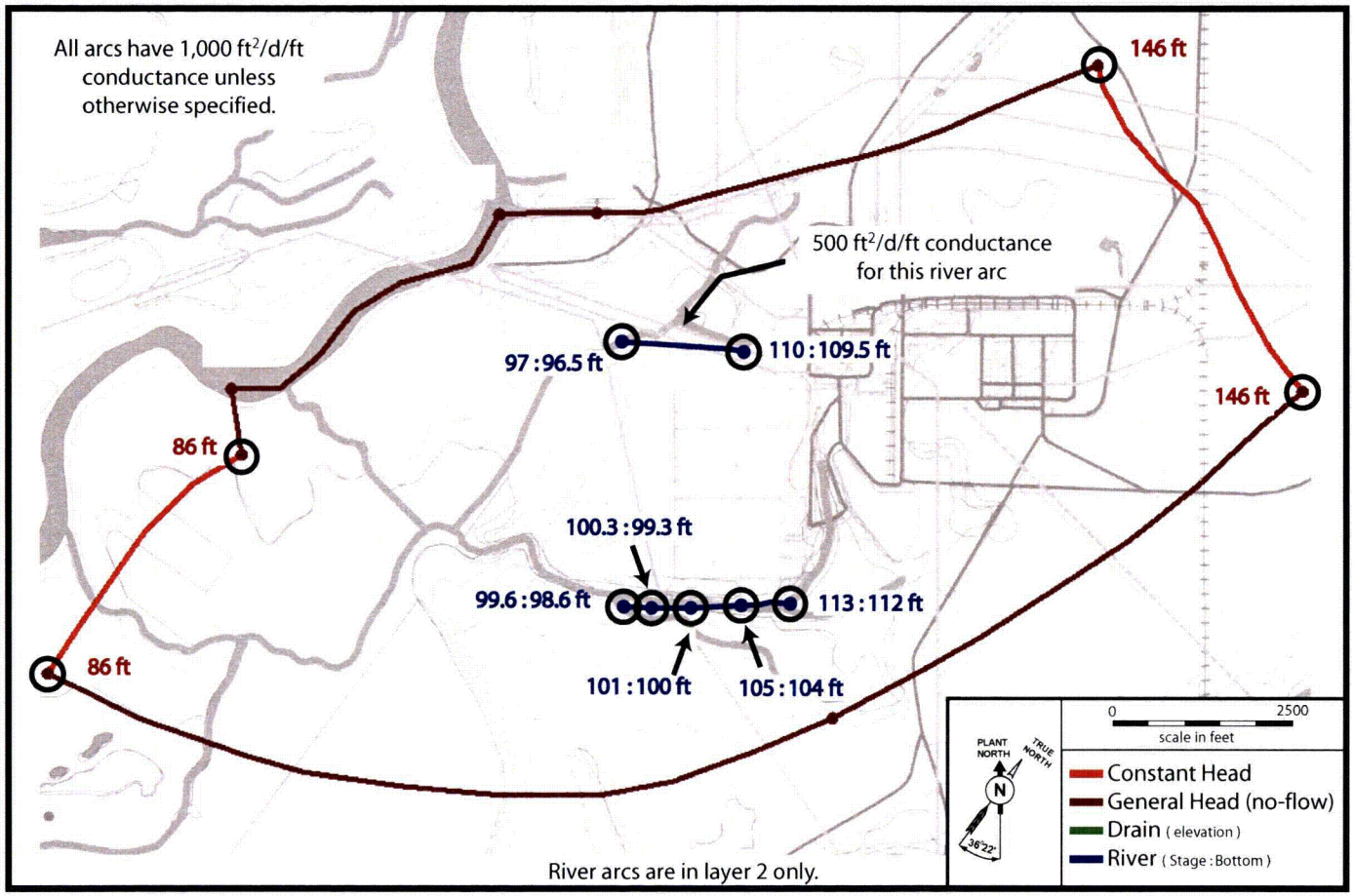


Figure 4-5. (con't) Layers 2 through 4 (UTRA) Boundary Conditions for Local Flow Model

(b) Modflow Cell Designations for Layer 2

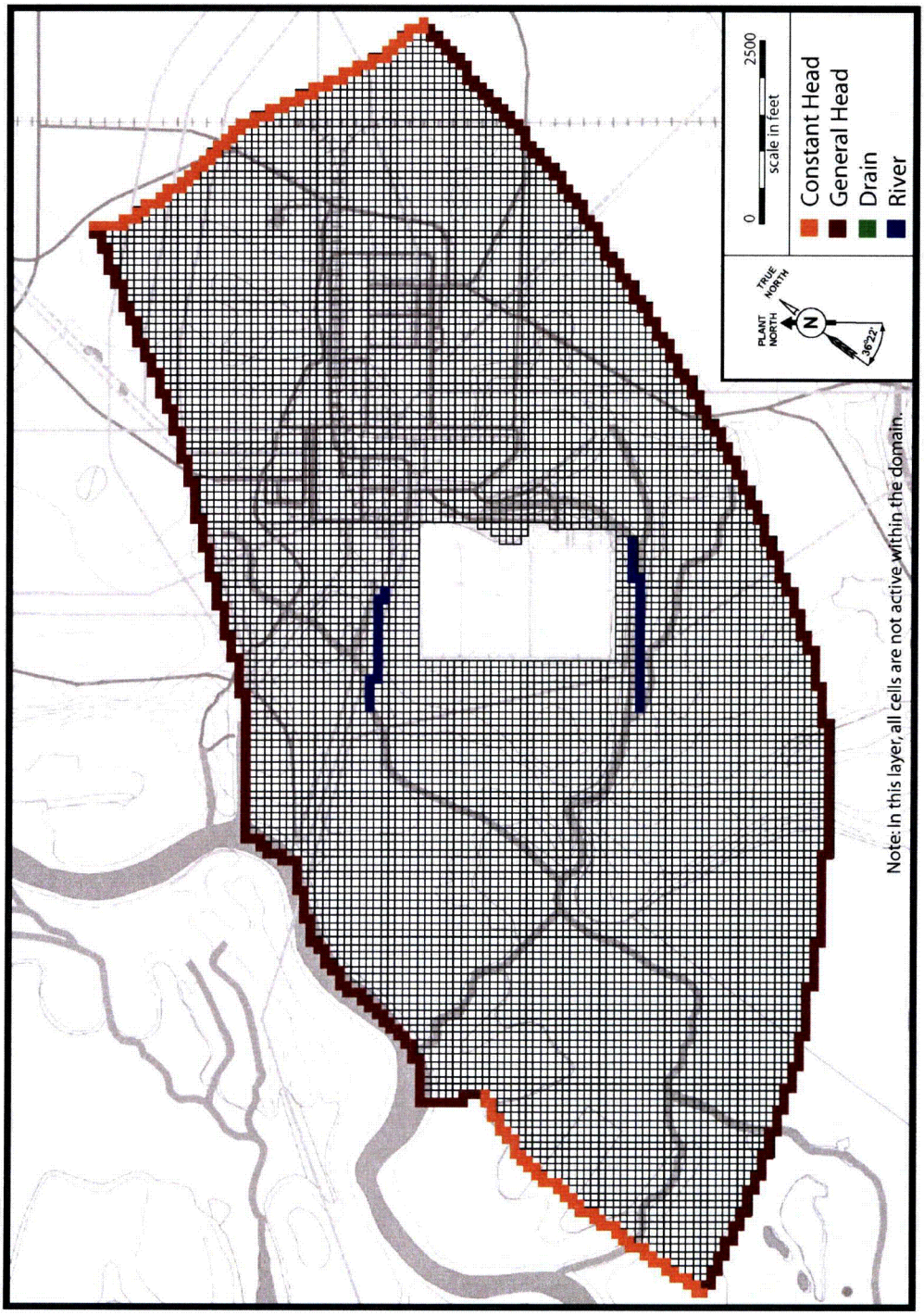


Figure 4-5. (con't) Layers 2 through 4 (UTRA) Boundary Conditions for Local Flow Model

(c) Modflow Cell Designations for Layer 3

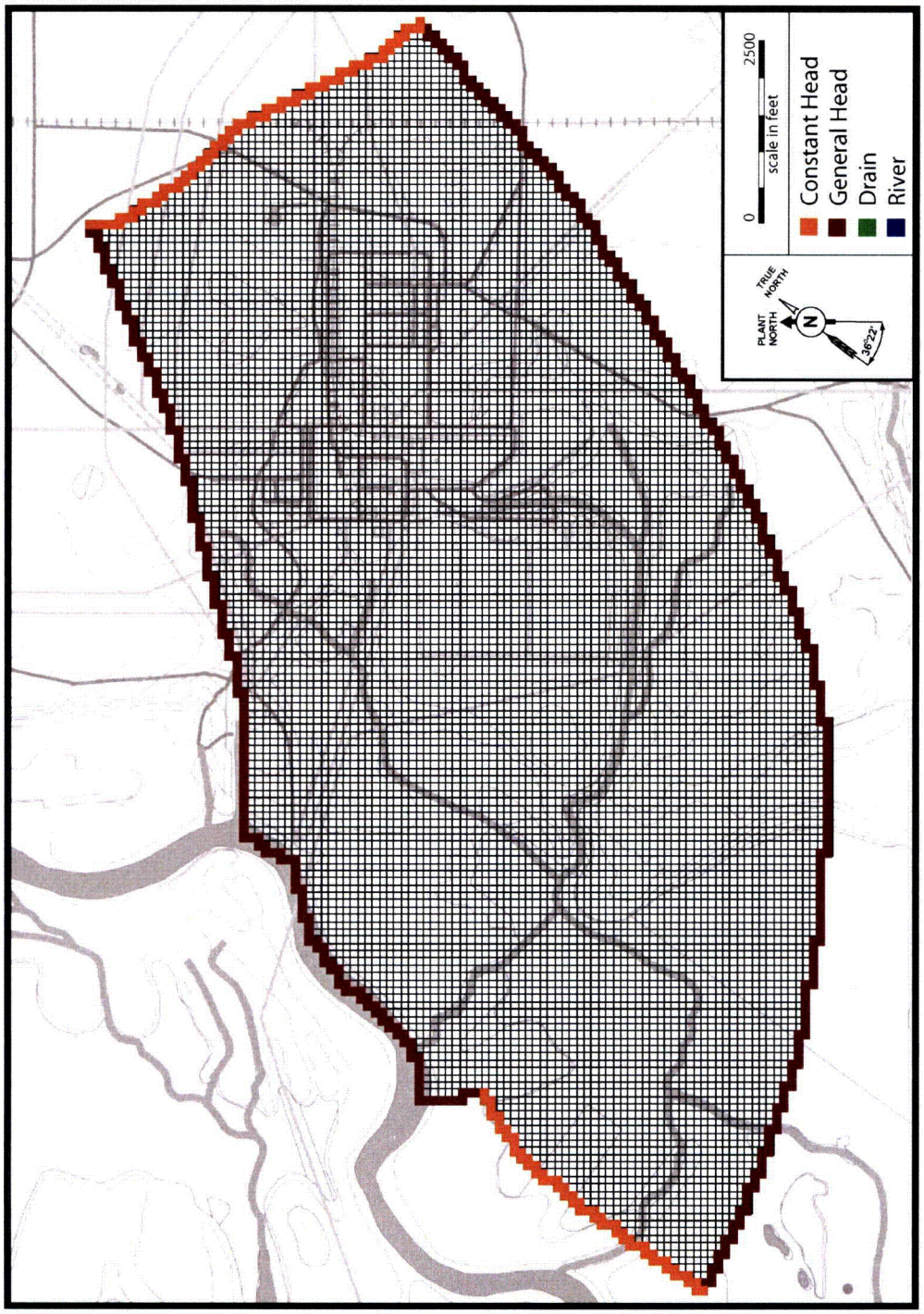


Figure 4-5. (con't) Layers 2 through 4 (UTRA) Boundary Conditions for Local Flow Model

(d) Modflow Cell Designations for Layer 4

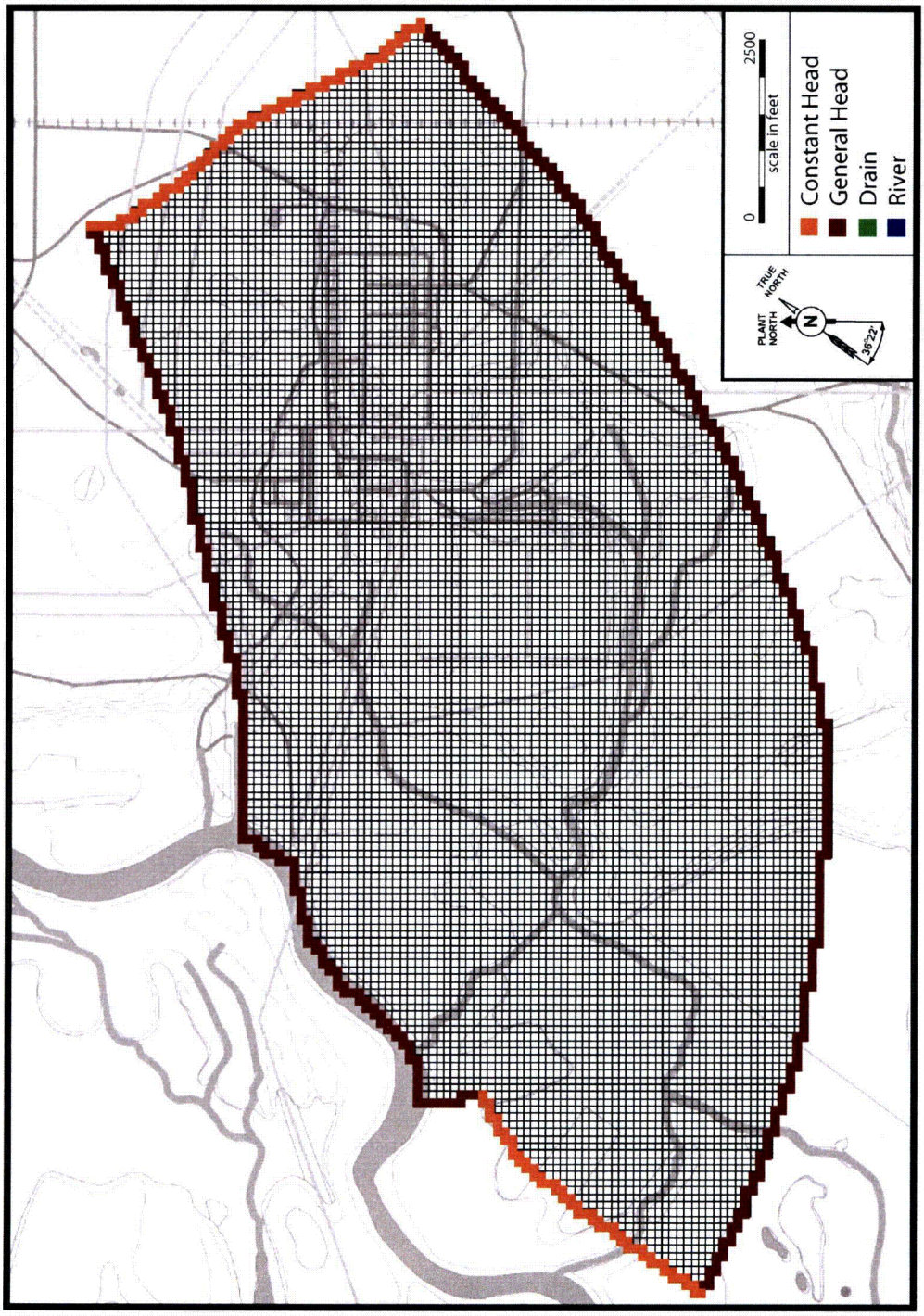


Figure 4-6. Layers 5 and 6 (GCU) Boundary Conditions for Local Flow Model

(a) Conceptual Arcs and Conditions

Figure 4-6. (con't) Layers 5 and 6 (GCU) Boundary Conditions for Local Flow Model
(b) Modflow Cell Designations for Layer 5

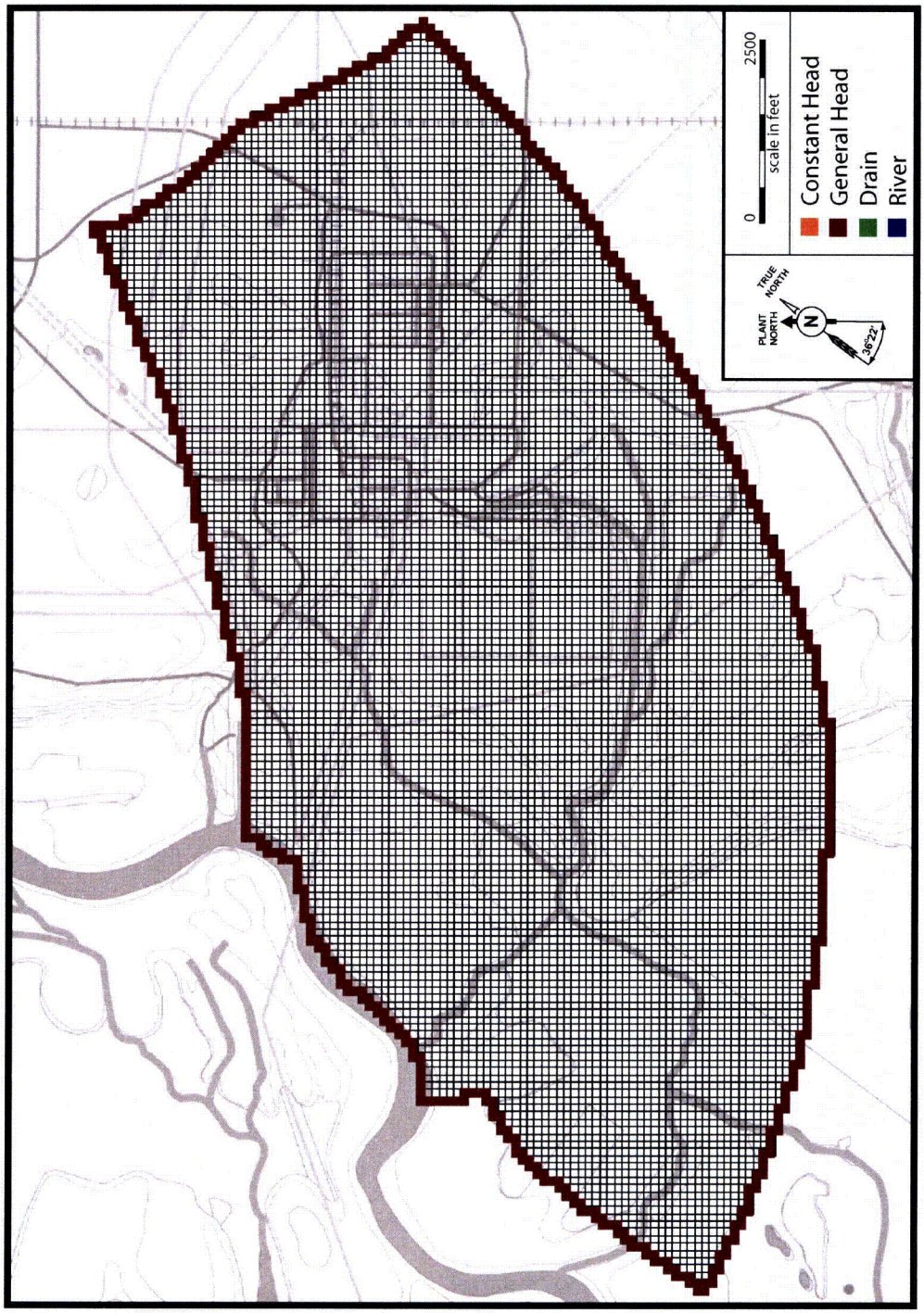


Figure 4-6. (con't) Layers 5 and 6 (GCU) Boundary Conditions for Local Flow Model

(c) Modflow Cell Designations for Layer 6

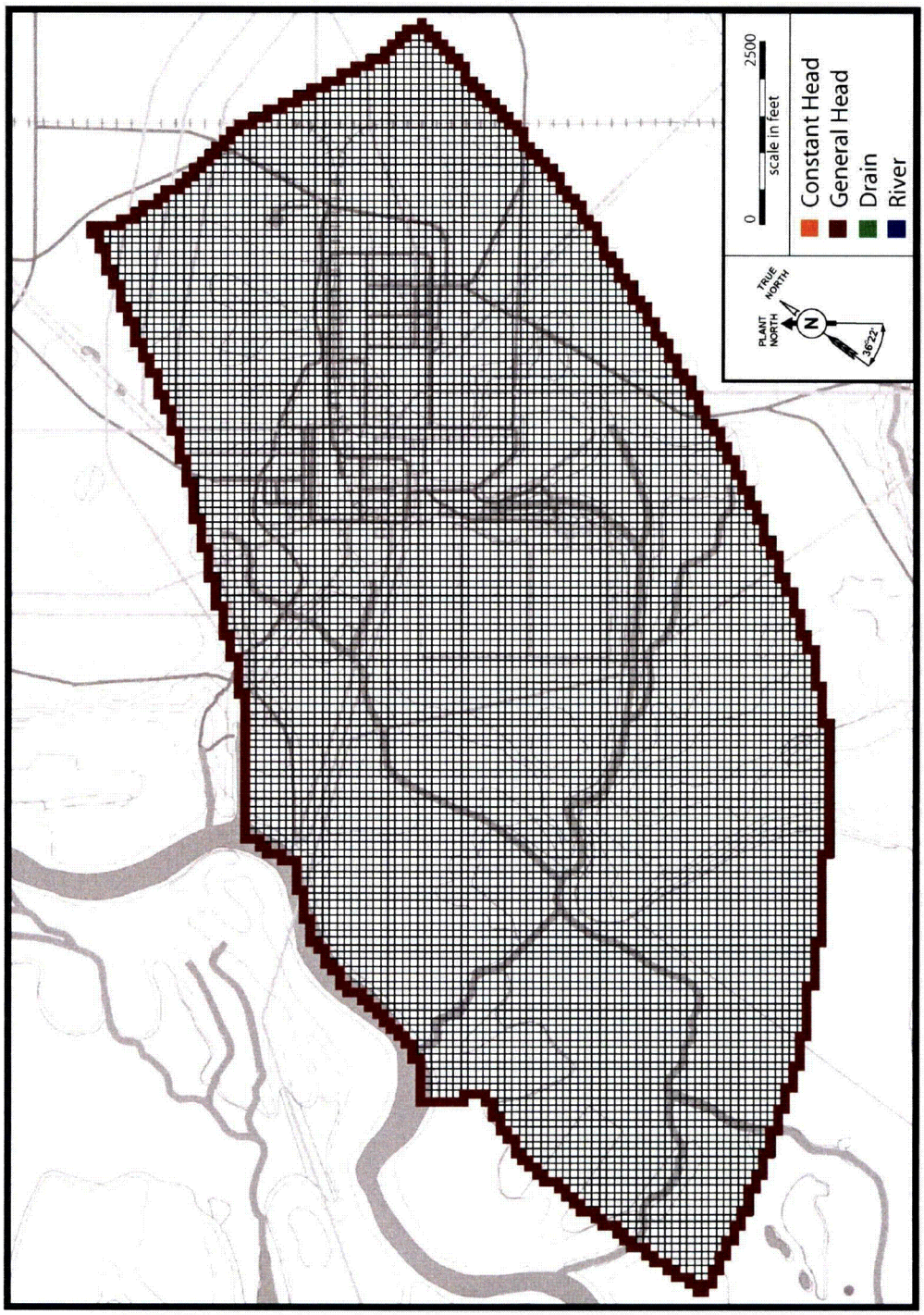


Figure 4-7. Layer 7 and 8 (GA) Boundary Conditions for Local Flow Model

(a) Conceptual Arcs and Conditions

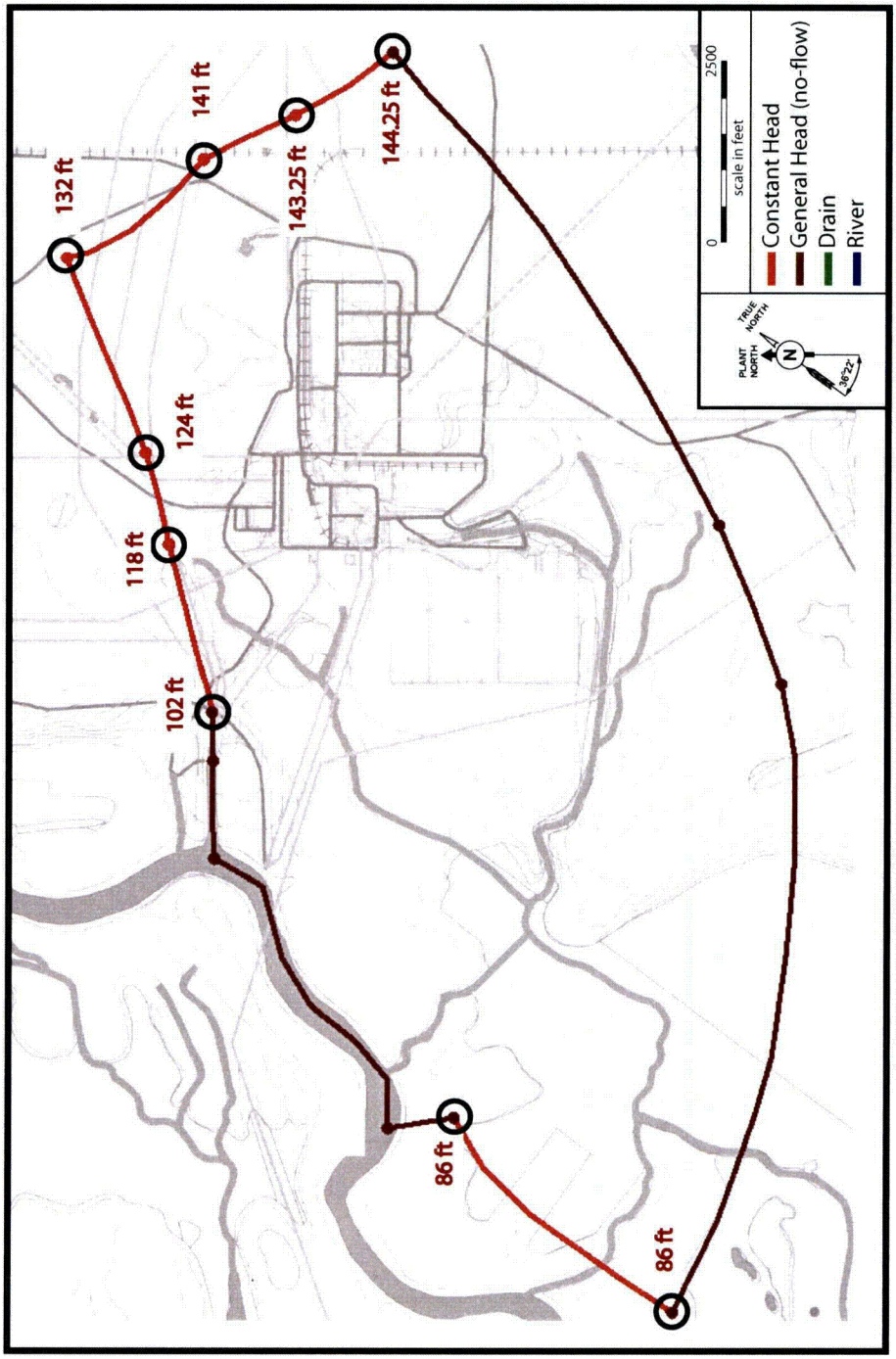


Figure 4-7. (con't) Layer 7 and 8 (GA) Boundary Conditions for Local Flow Model
(b) Modflow Cell Designations for Layer 7

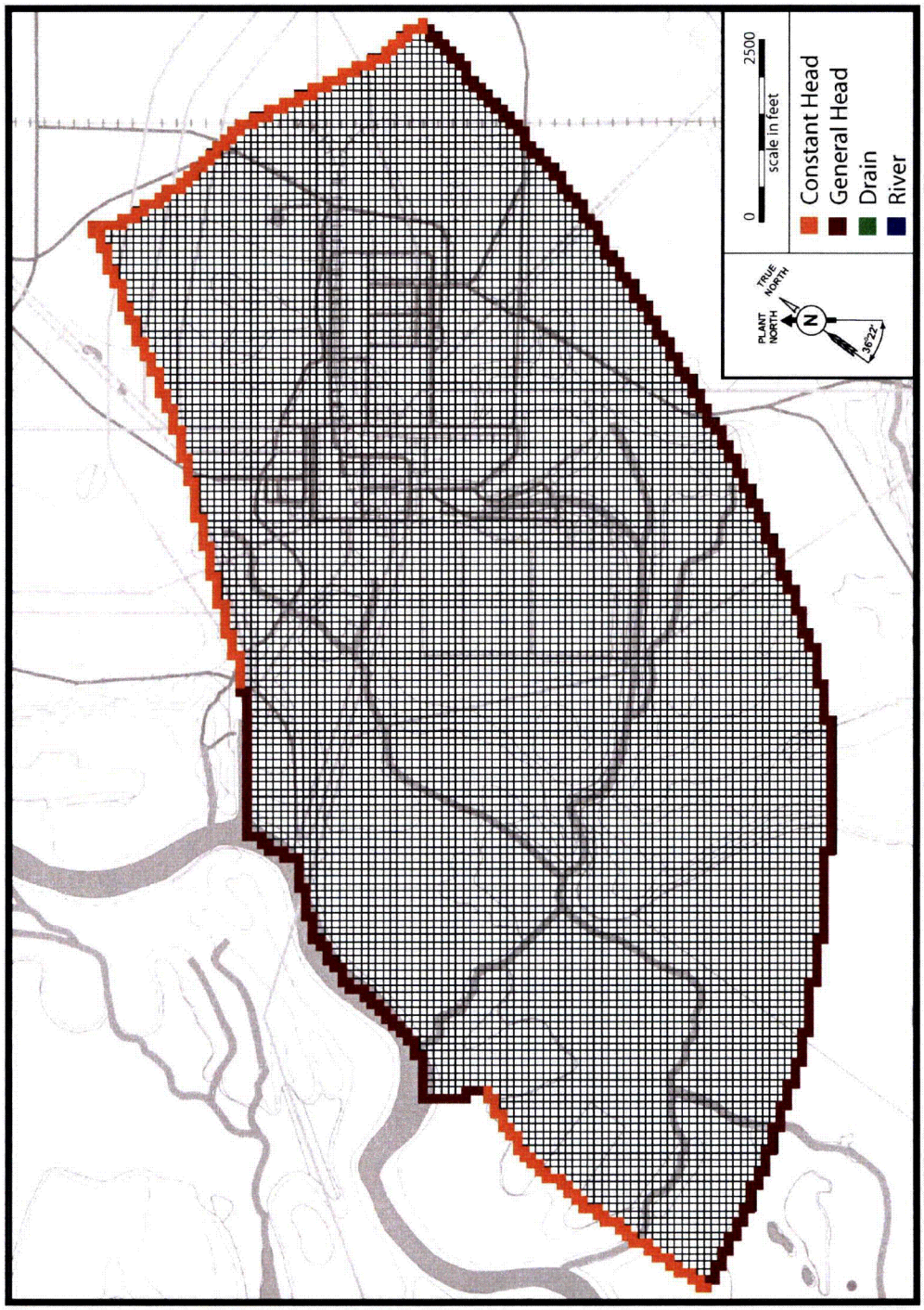


Figure 4-7. (con't) Layer 7 and 8 (GA) Boundary Conditions for Local Flow Model
(c) Modflow Cell Designations for Layer 8

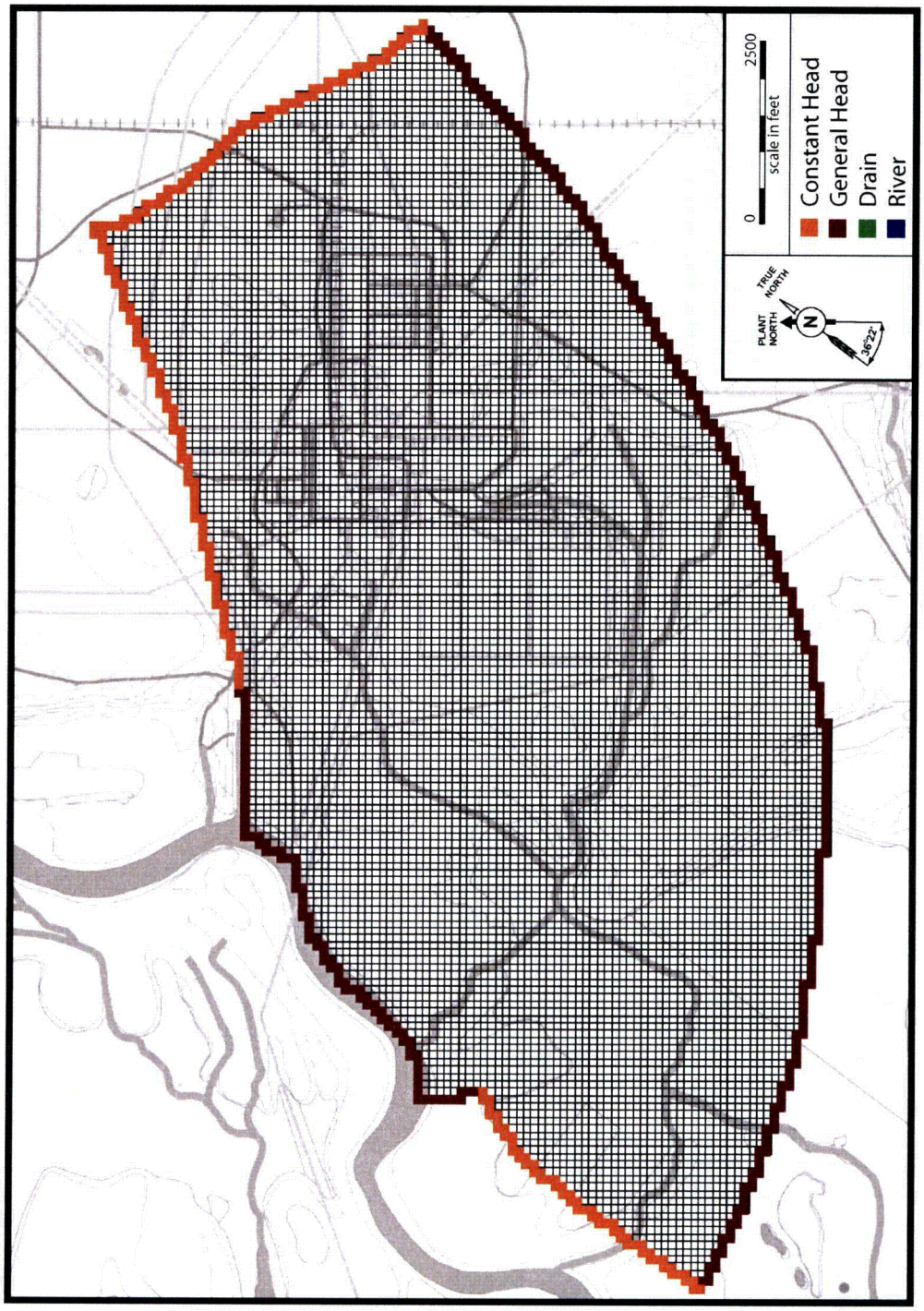


Figure 5-1. Local Model Calibration Results – Observed versus Model Values

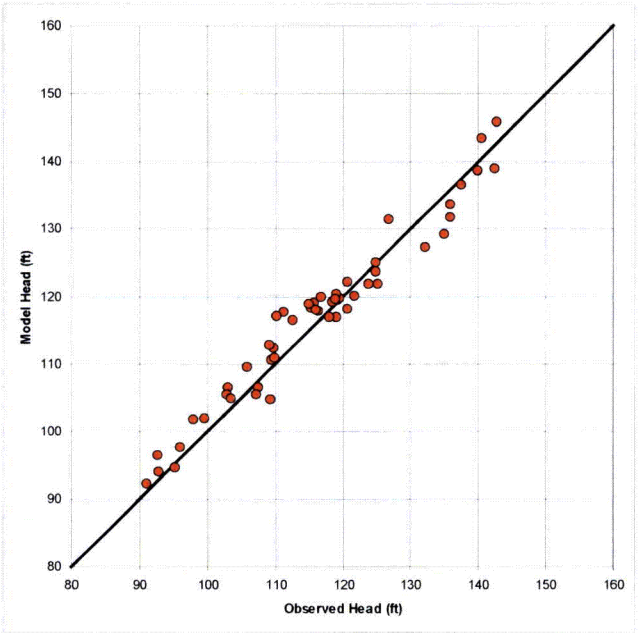


Figure 5-2. Local Model Calibration Results – Observed versus Residual Values

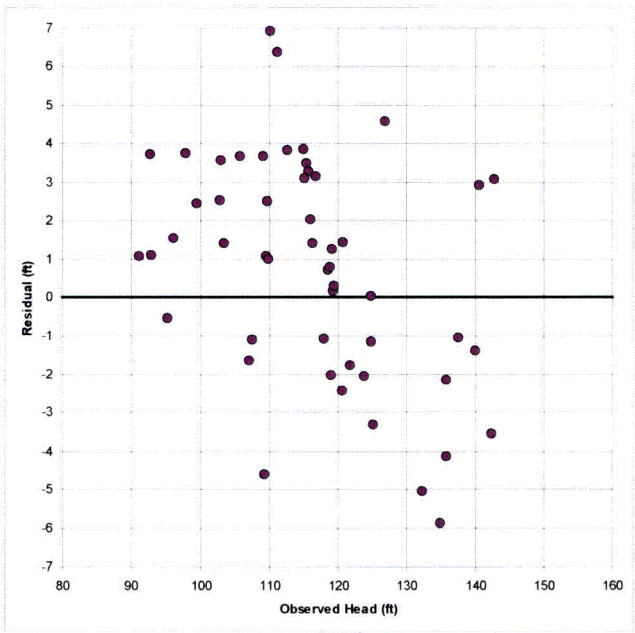


Figure 5-3. Local Model Calibration Results – Spatial Distribution of Residual Values

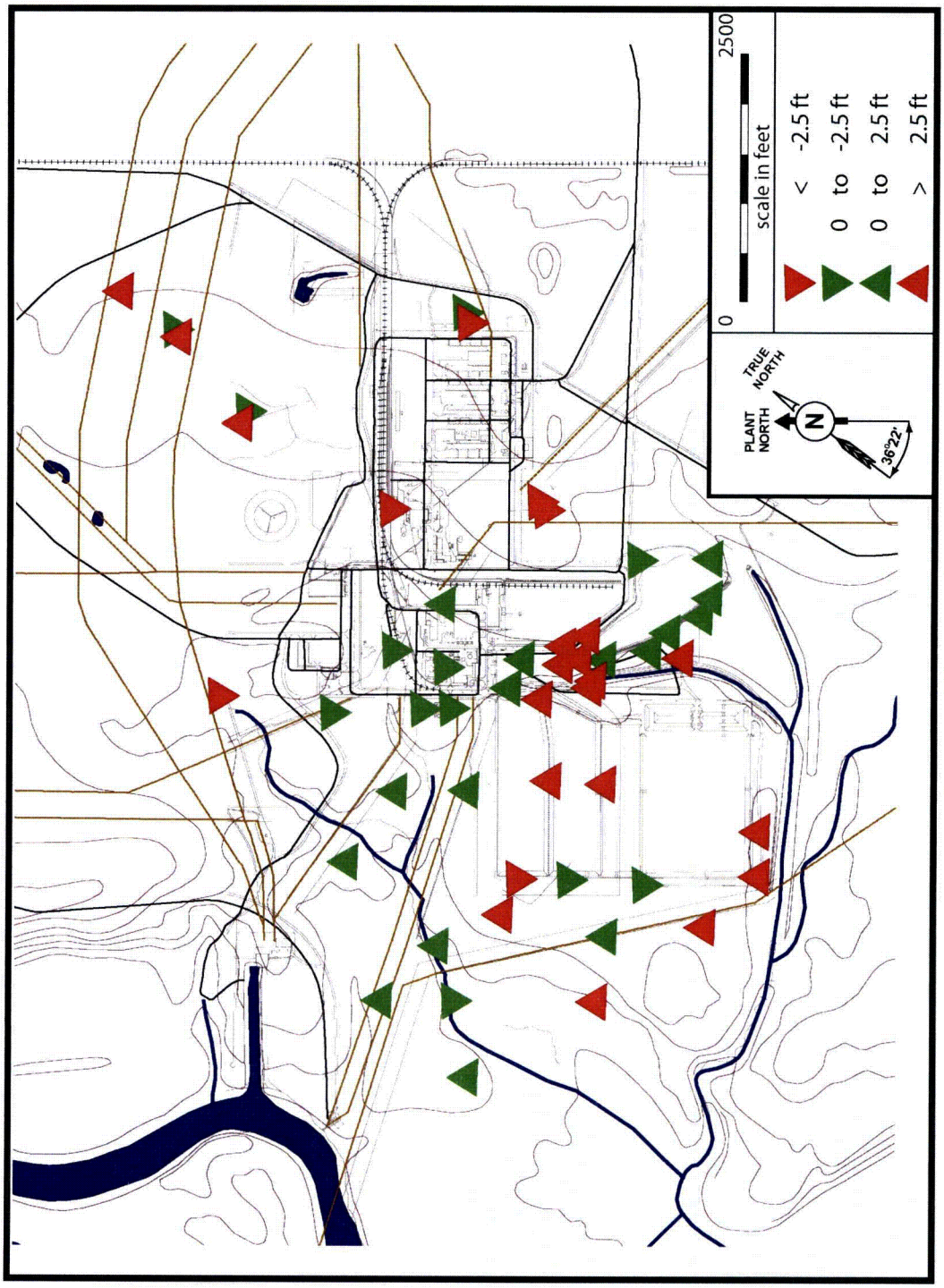


Figure 5-4. Local Flow Model Calibrated Heads for Layer 1 (UTRA)

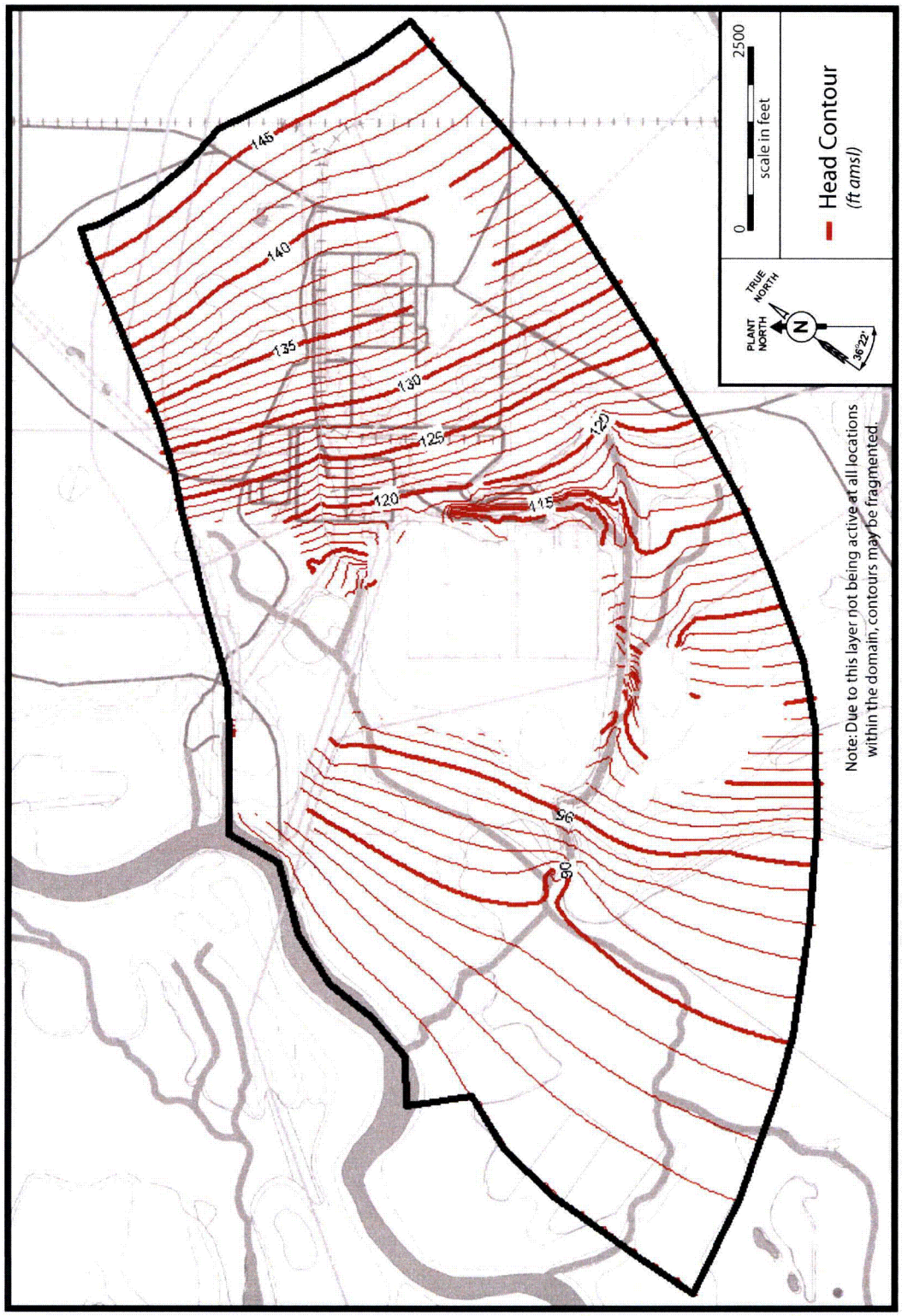


Figure 5-5. Local Flow Model Calibrated Heads for Layer 2 (UTRA)

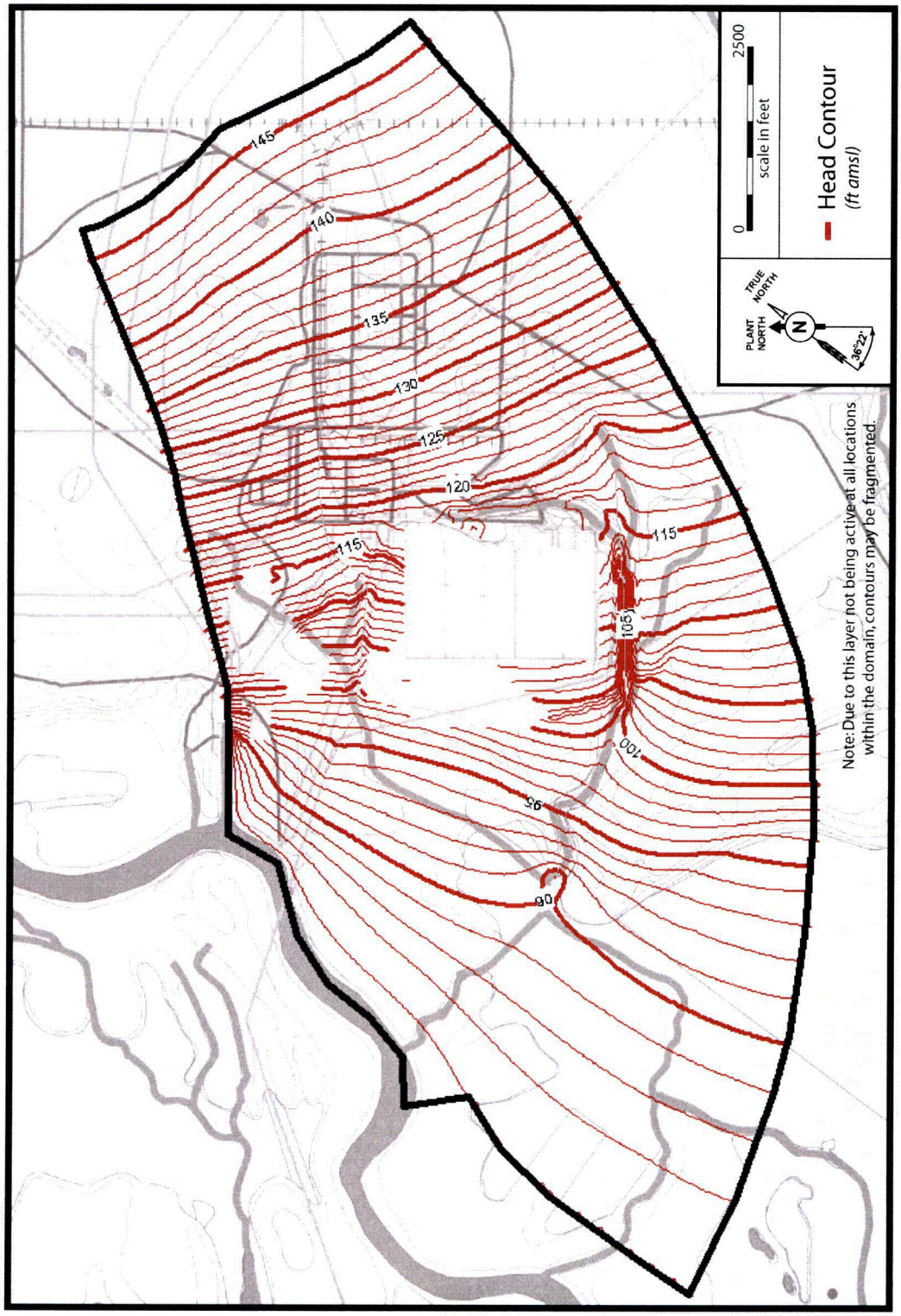


Figure 5-6. Local Flow Model Calibrated Heads for Layer 3 (UTRA)

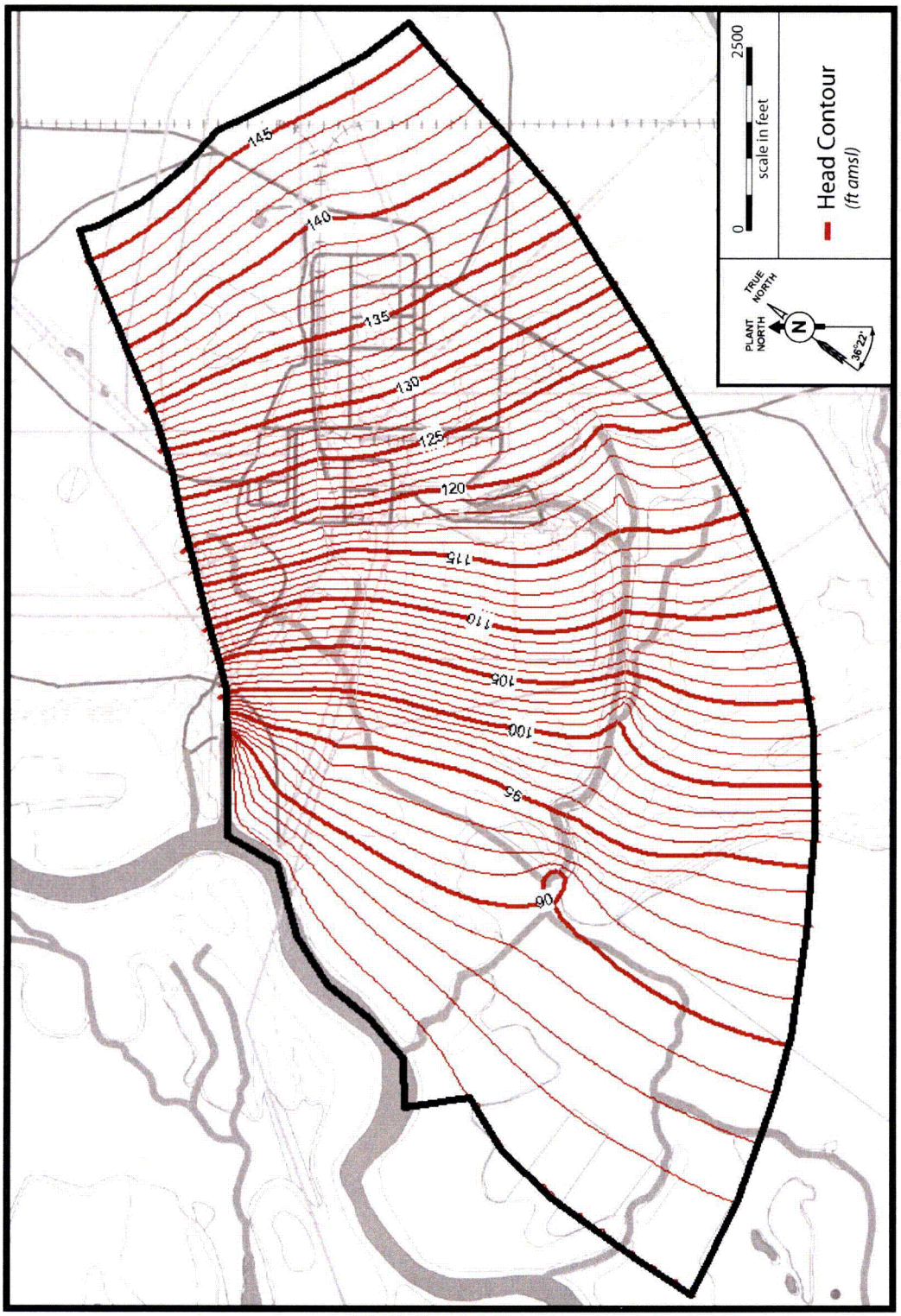


Figure 5-7. Local Flow Model Calibrated Heads for Layer 4 (UTRA)

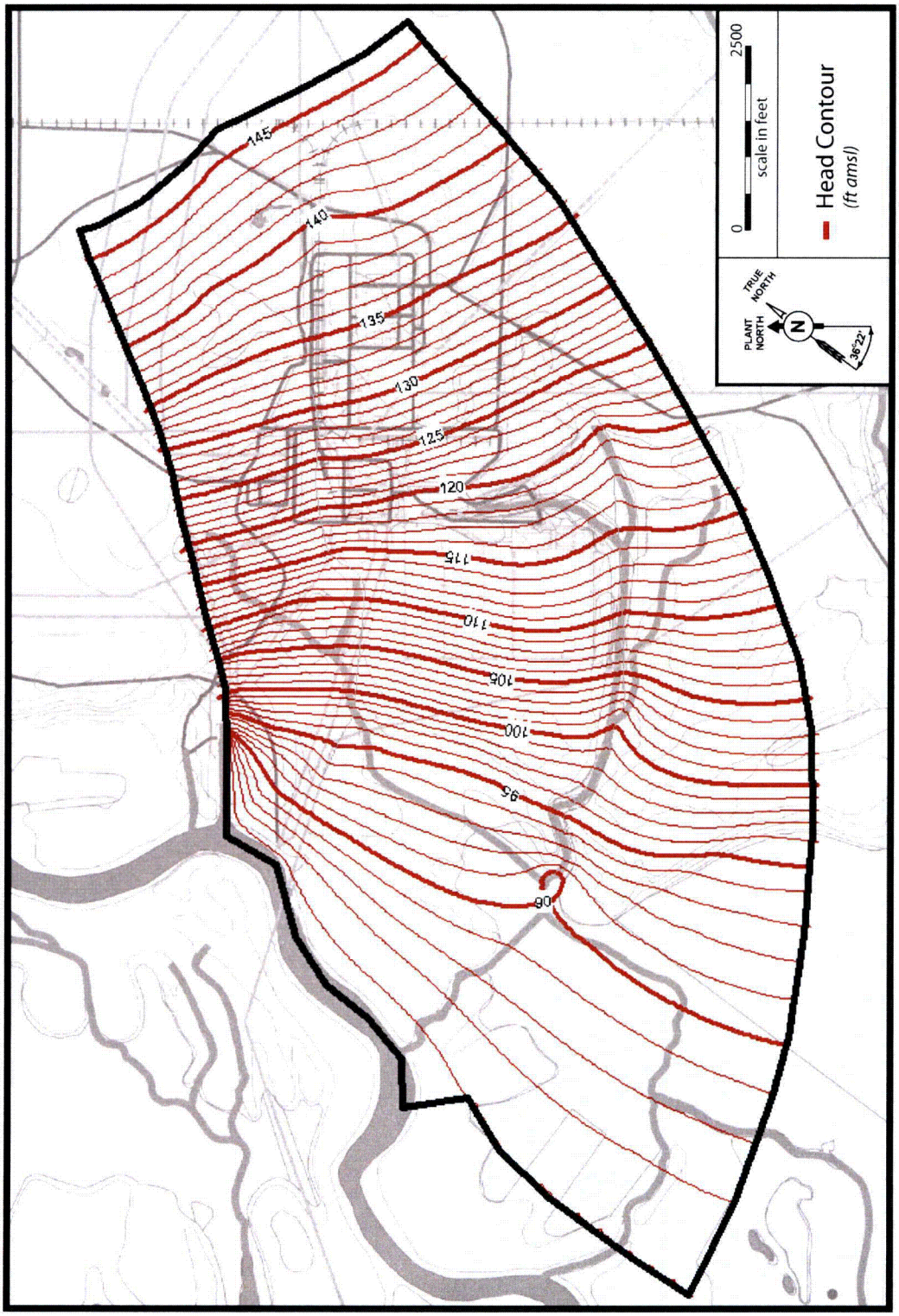


Figure 5-8. Local Flow Model Calibrated Heads for Layer 7 (GA)

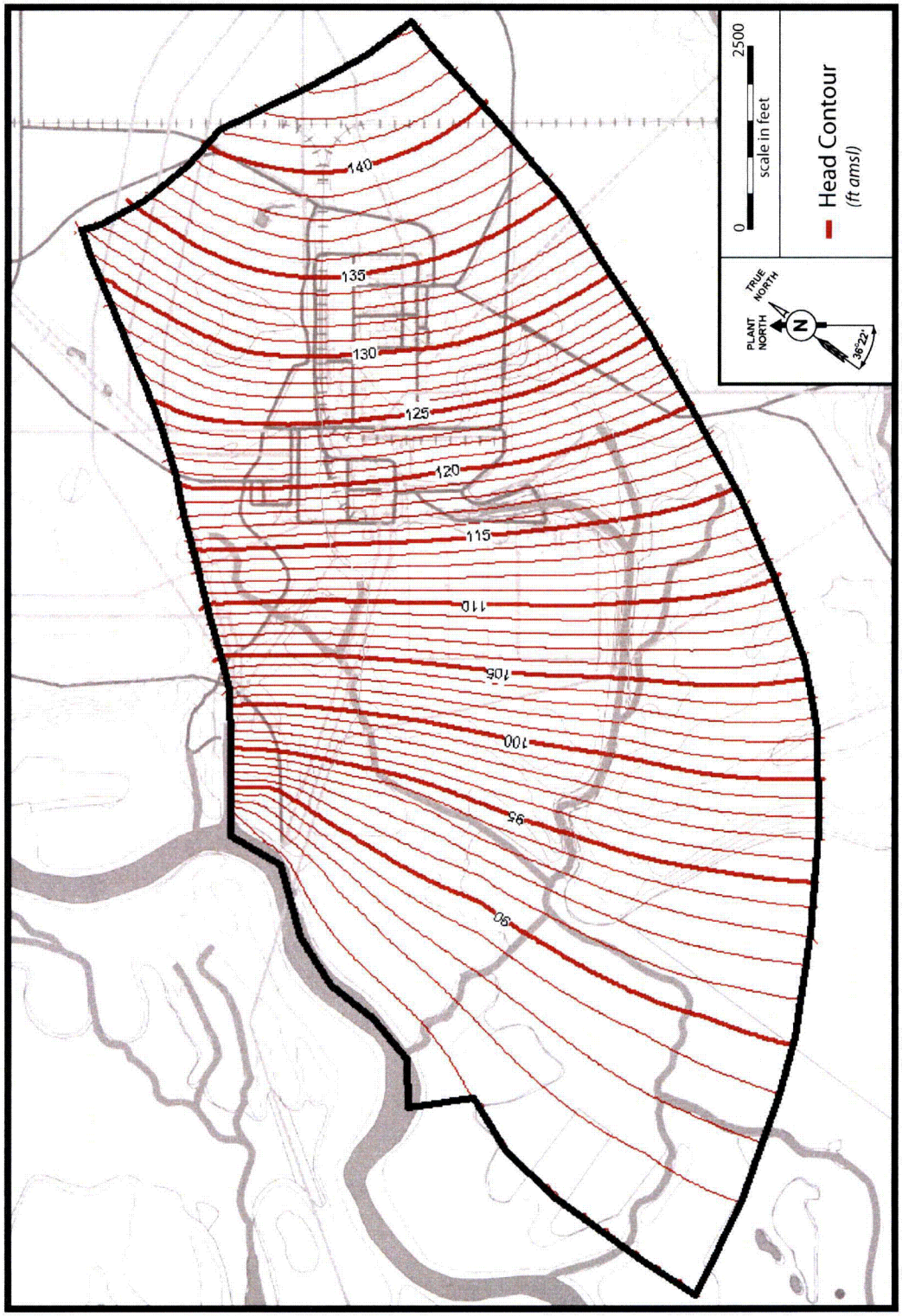


Figure 5-9. Local Flow Model Calibrated Heads for Layer 8 (GA)

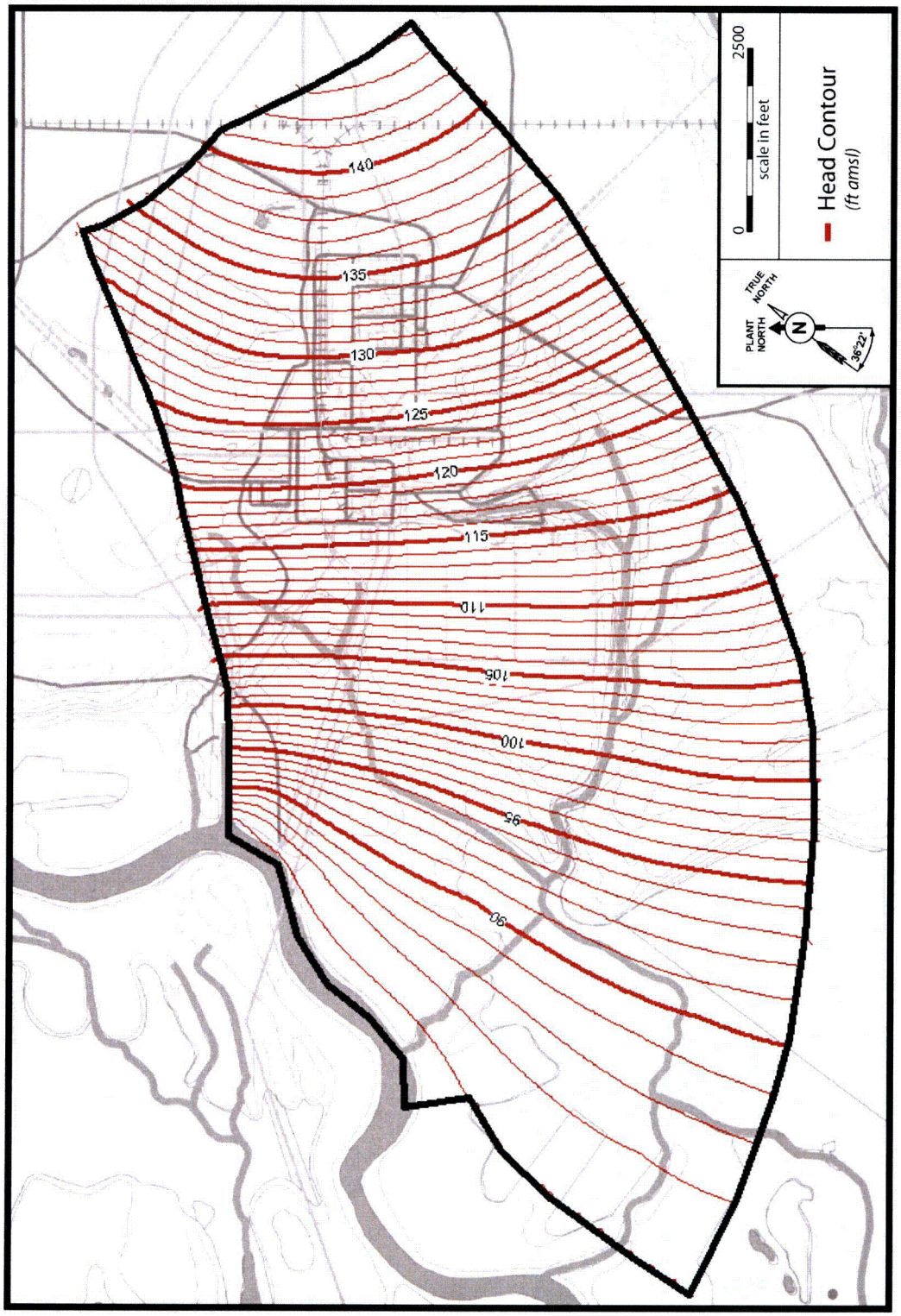


Figure 5-10. Cross Section Showing Calibrated Heads for Local Flow Model

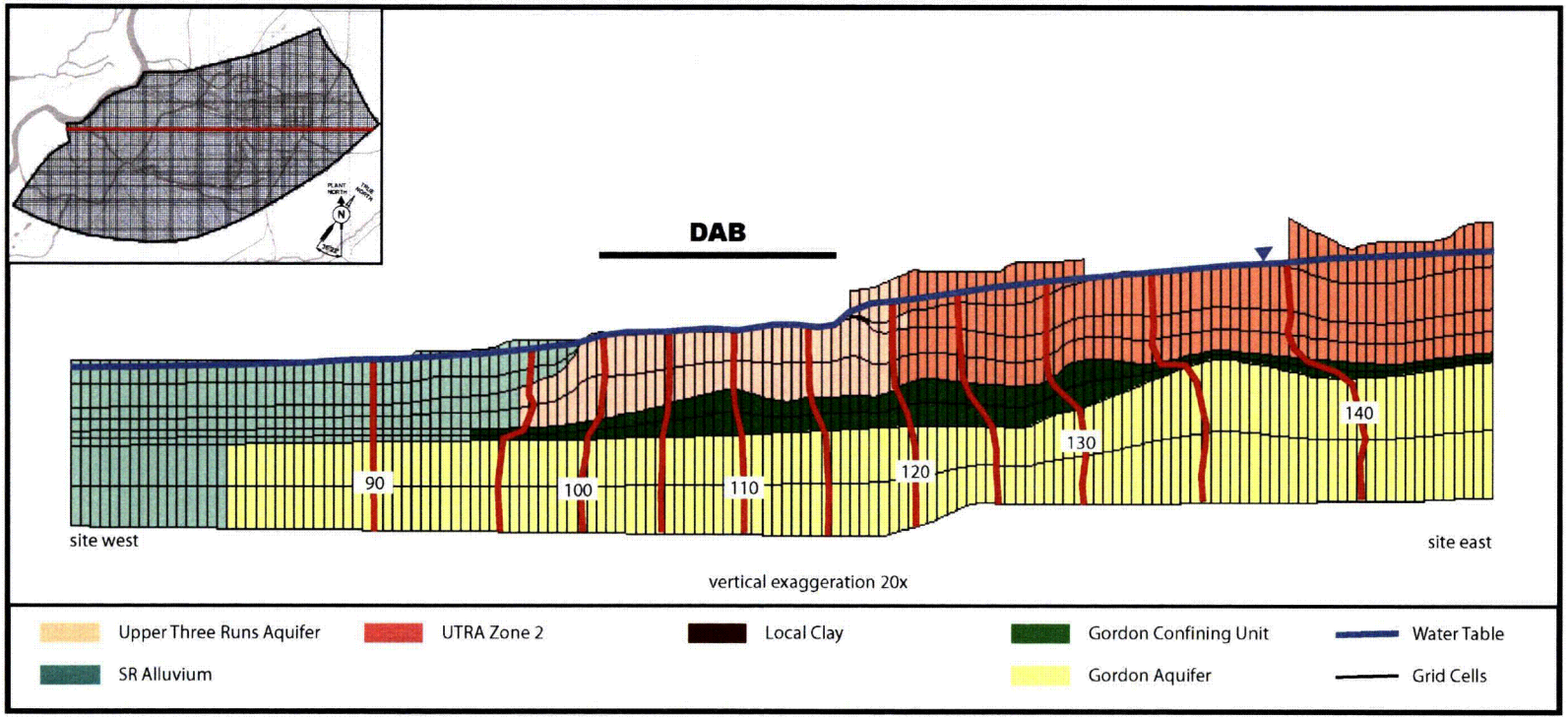


Figure 5-11. Local Model Particle Paths

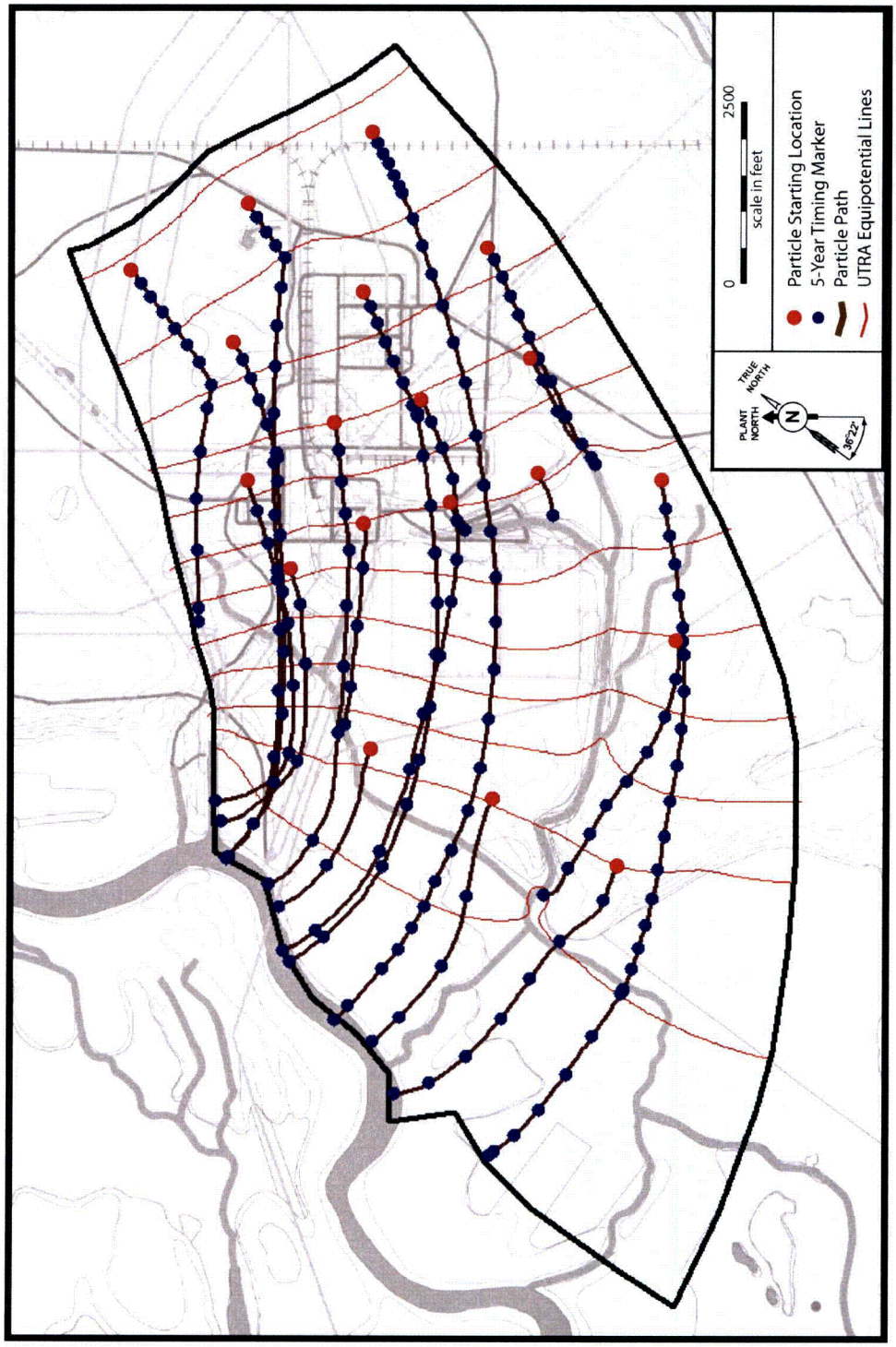


Figure 5-12. Local Model Particle Paths – Typical Cross Section

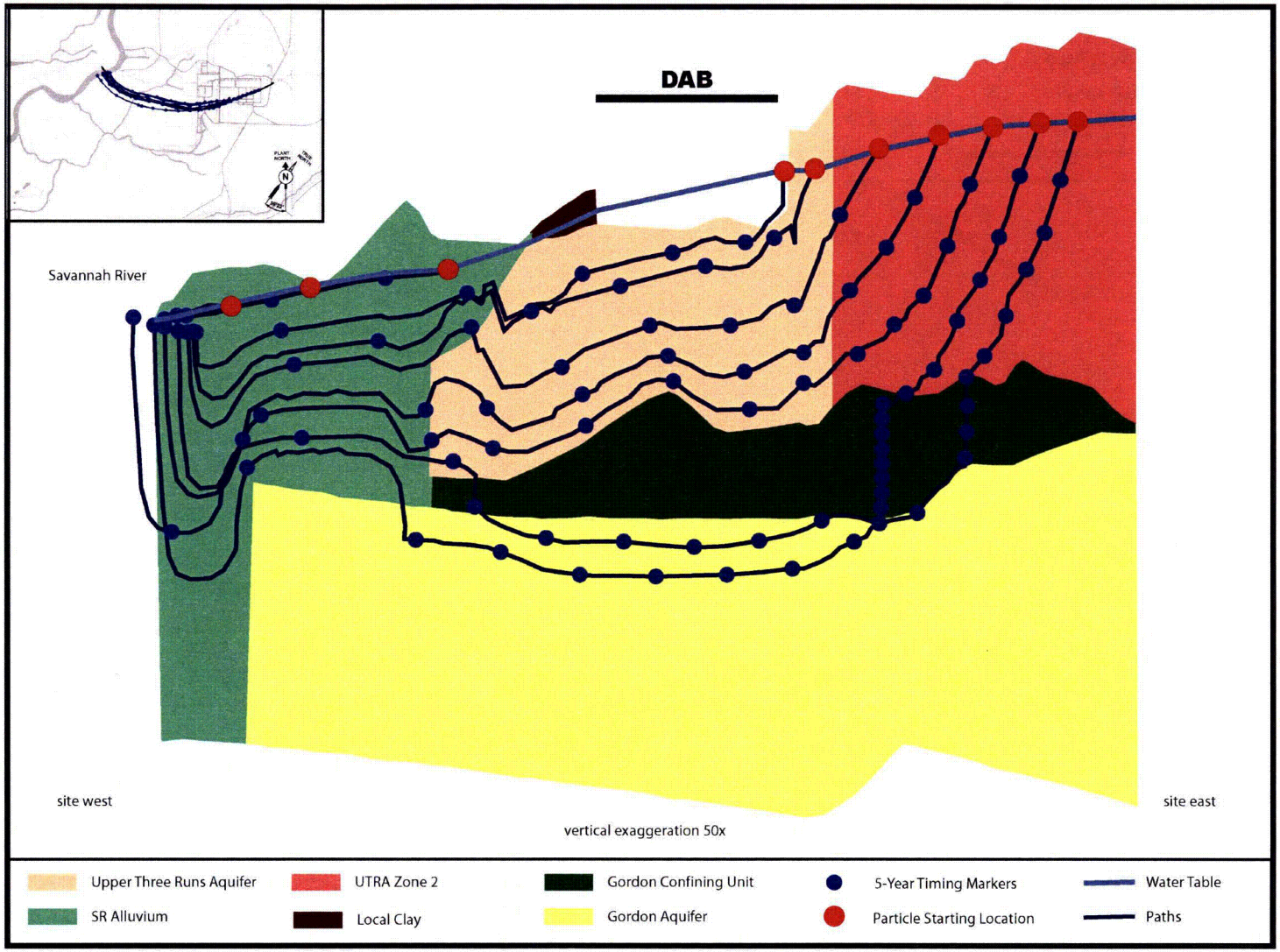


Figure 5-13. Layer 1 (UTRA) Initial TCE Concentrations

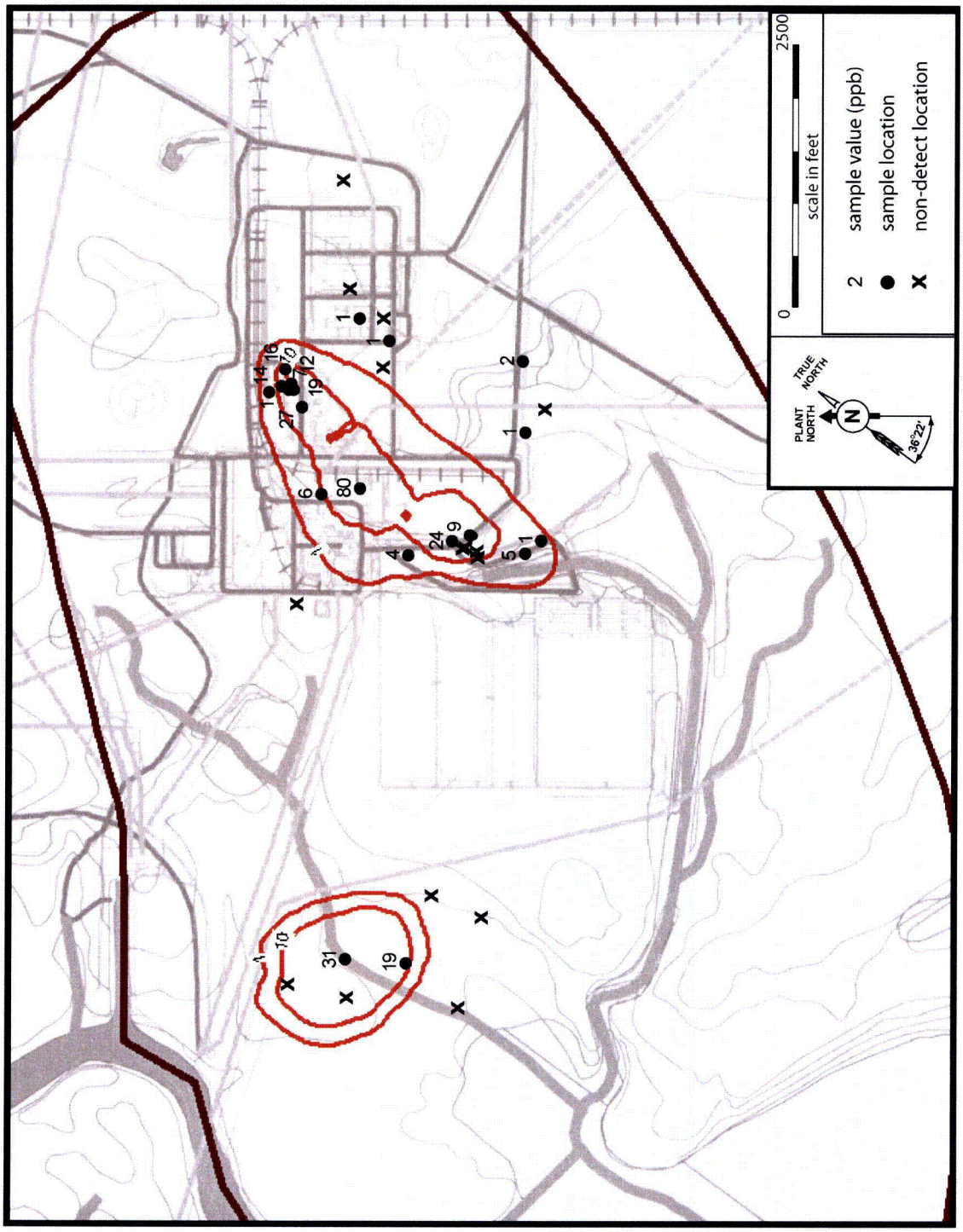


Figure 5-14. Layer 2 (UTRA) Initial TCE Concentrations

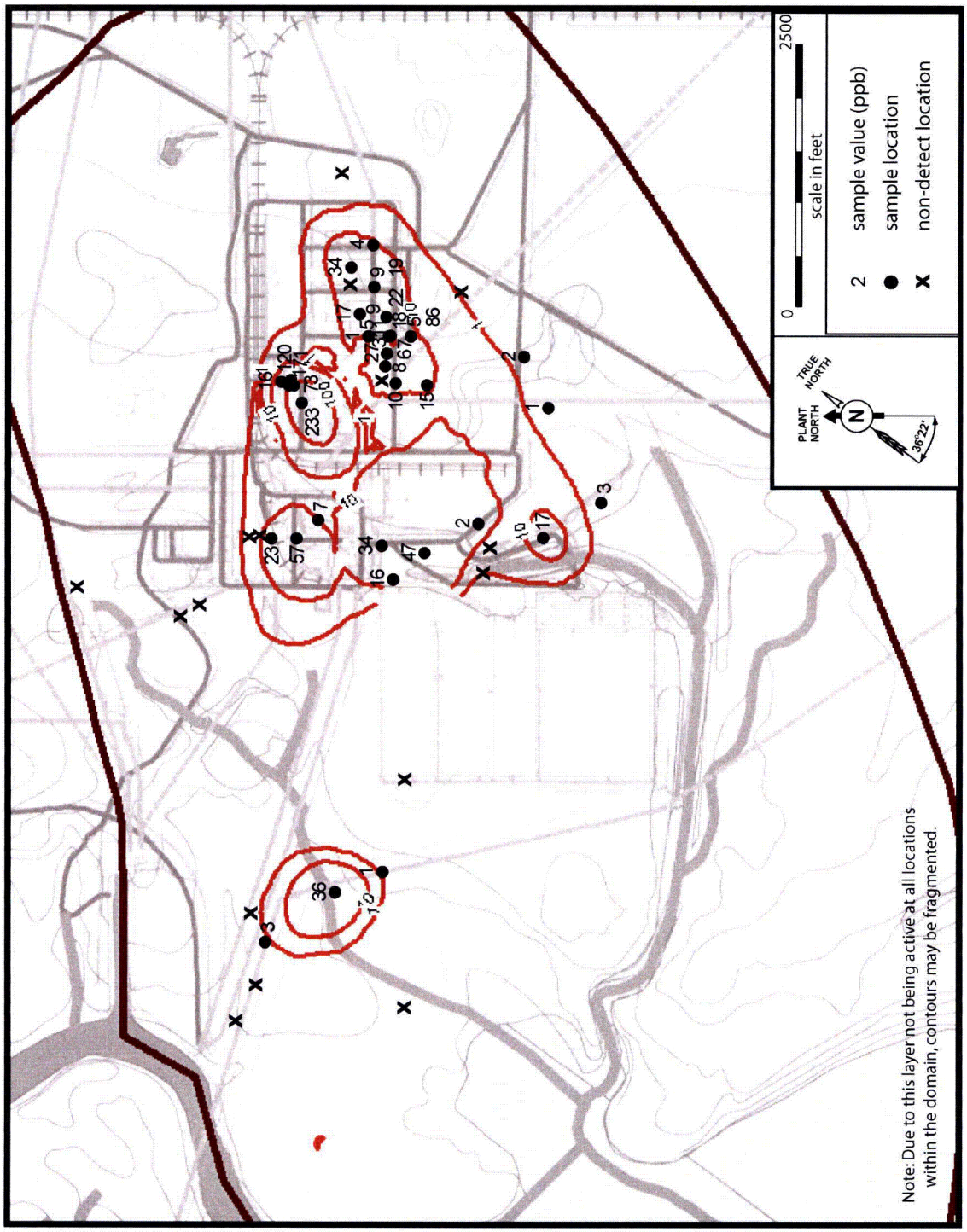


Figure 5-15. Layer 3 (UTRA) Initial TCE Concentrations

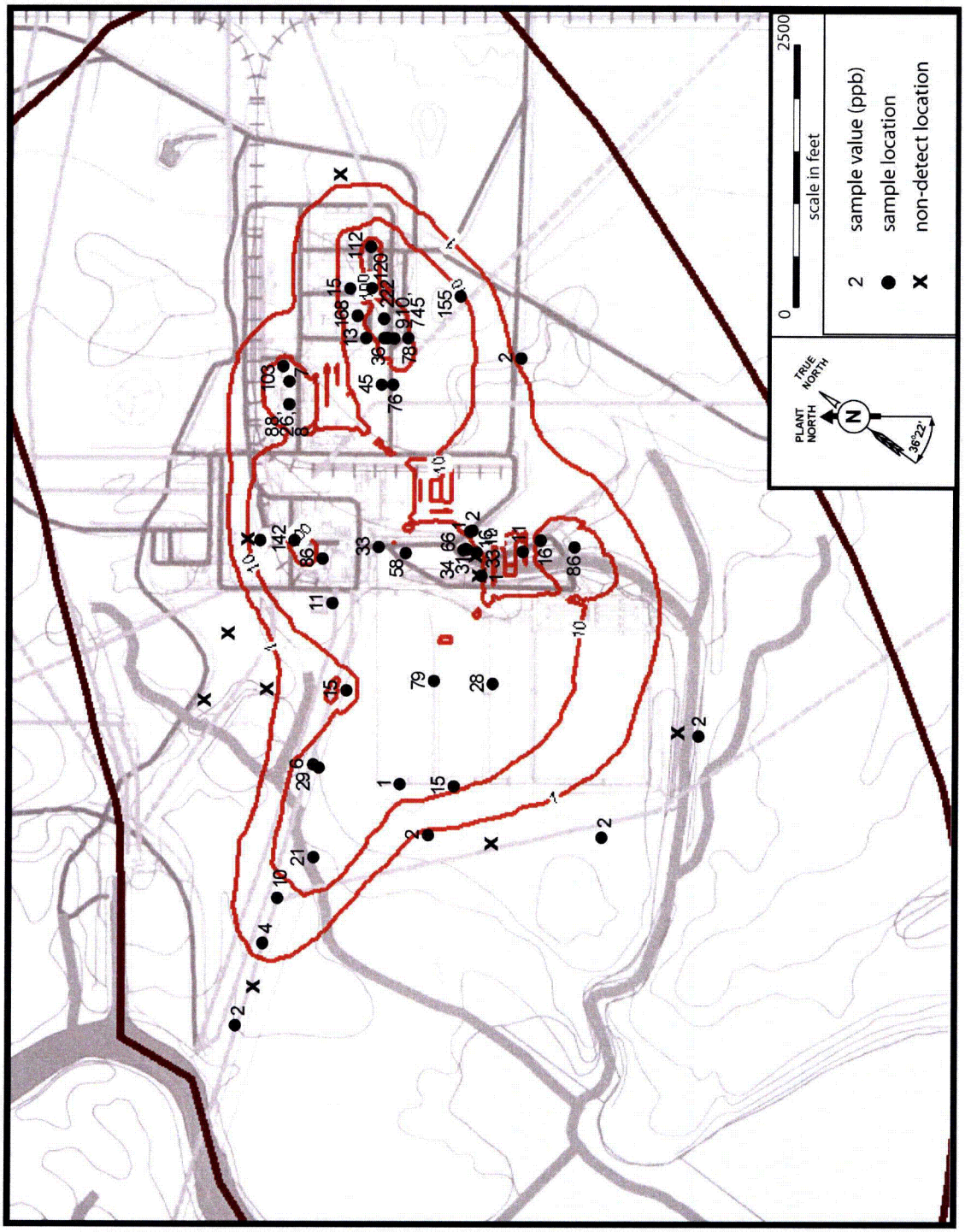


Figure 5-16. Layer 4 (UTRA) Initial TCE Concentrations

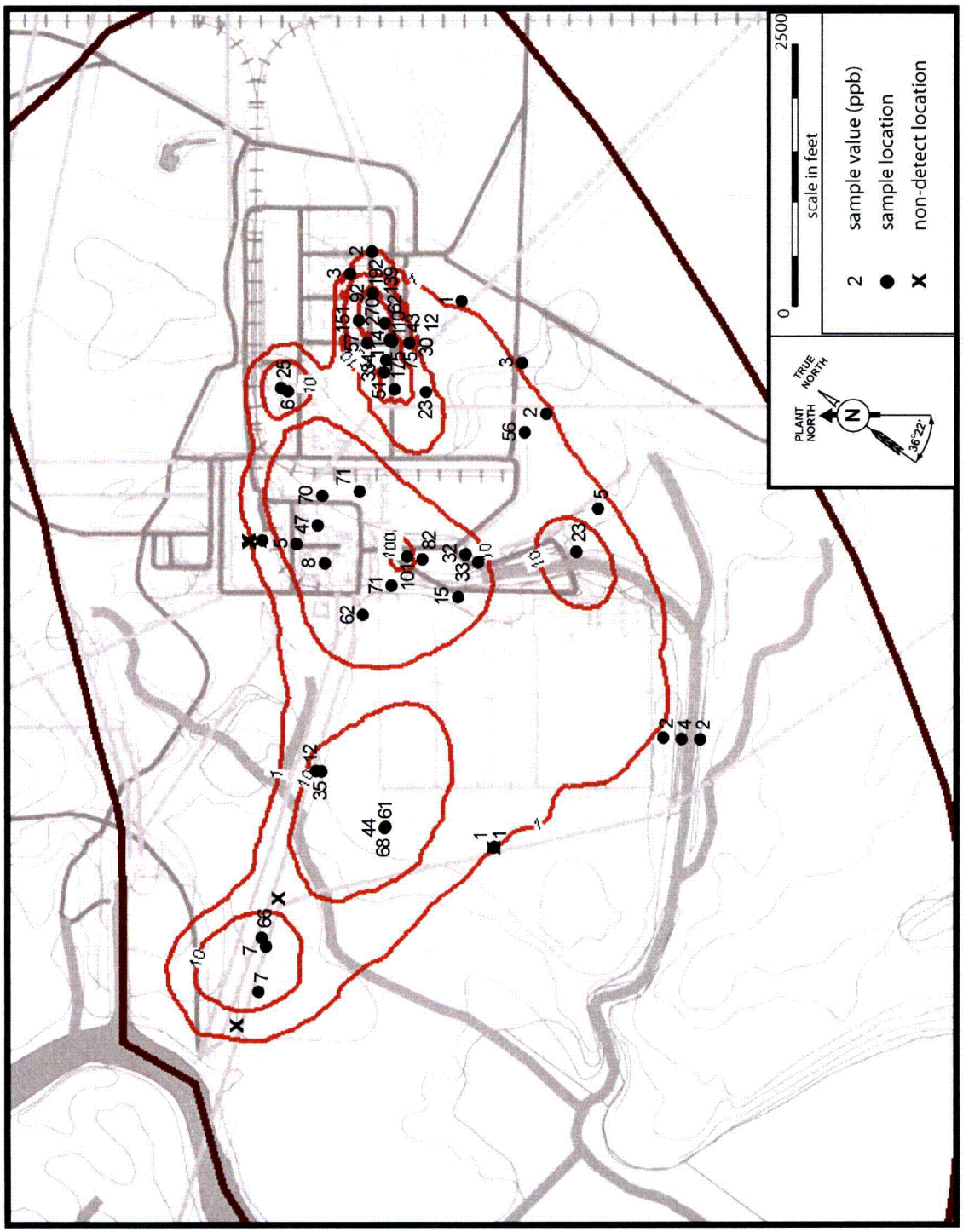


Figure 5-17. Layers 5 and 6 (GCU) Initial TCE Concentrations

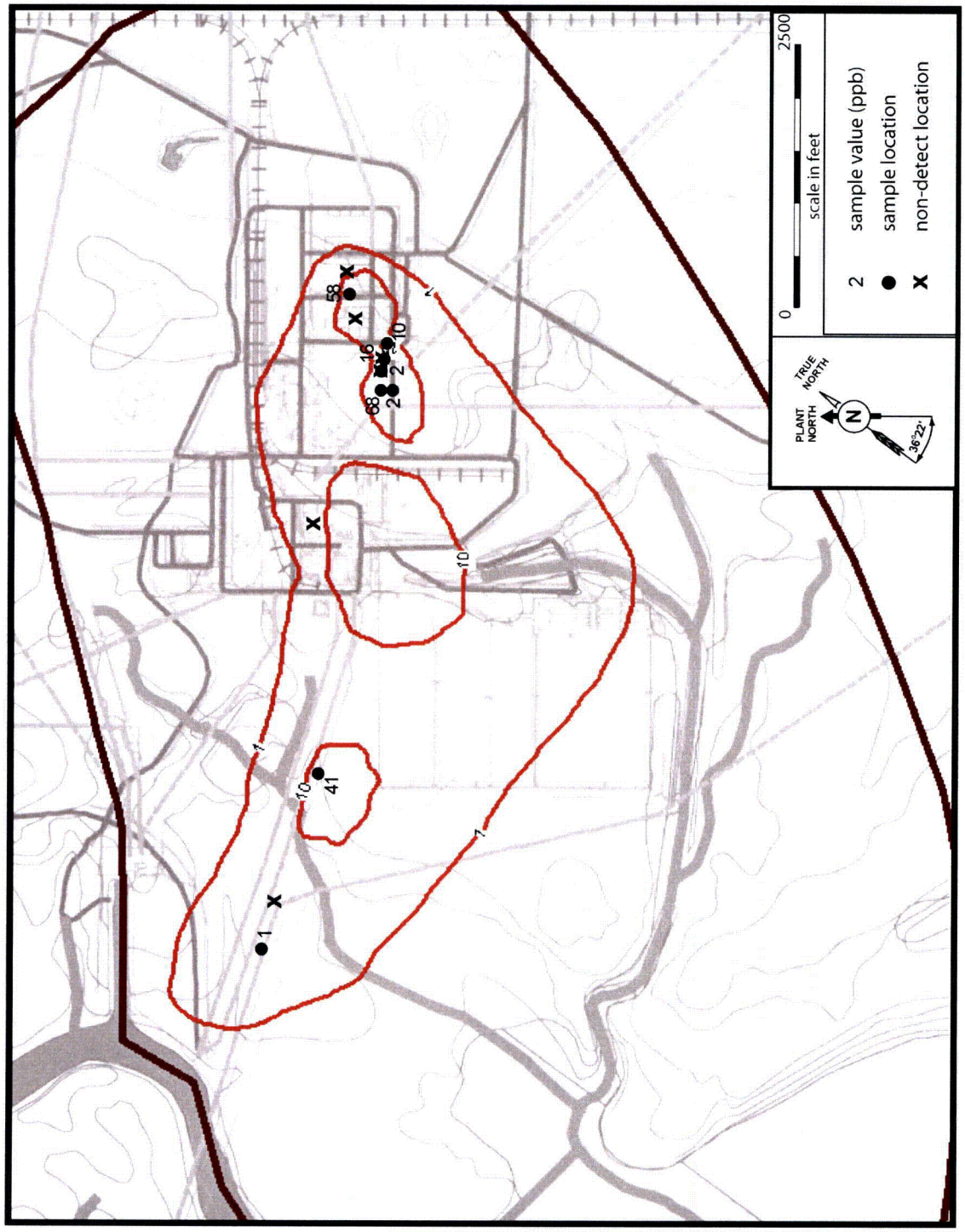


Figure 5-18. Layer 7 (GA) Initial TCE Concentrations

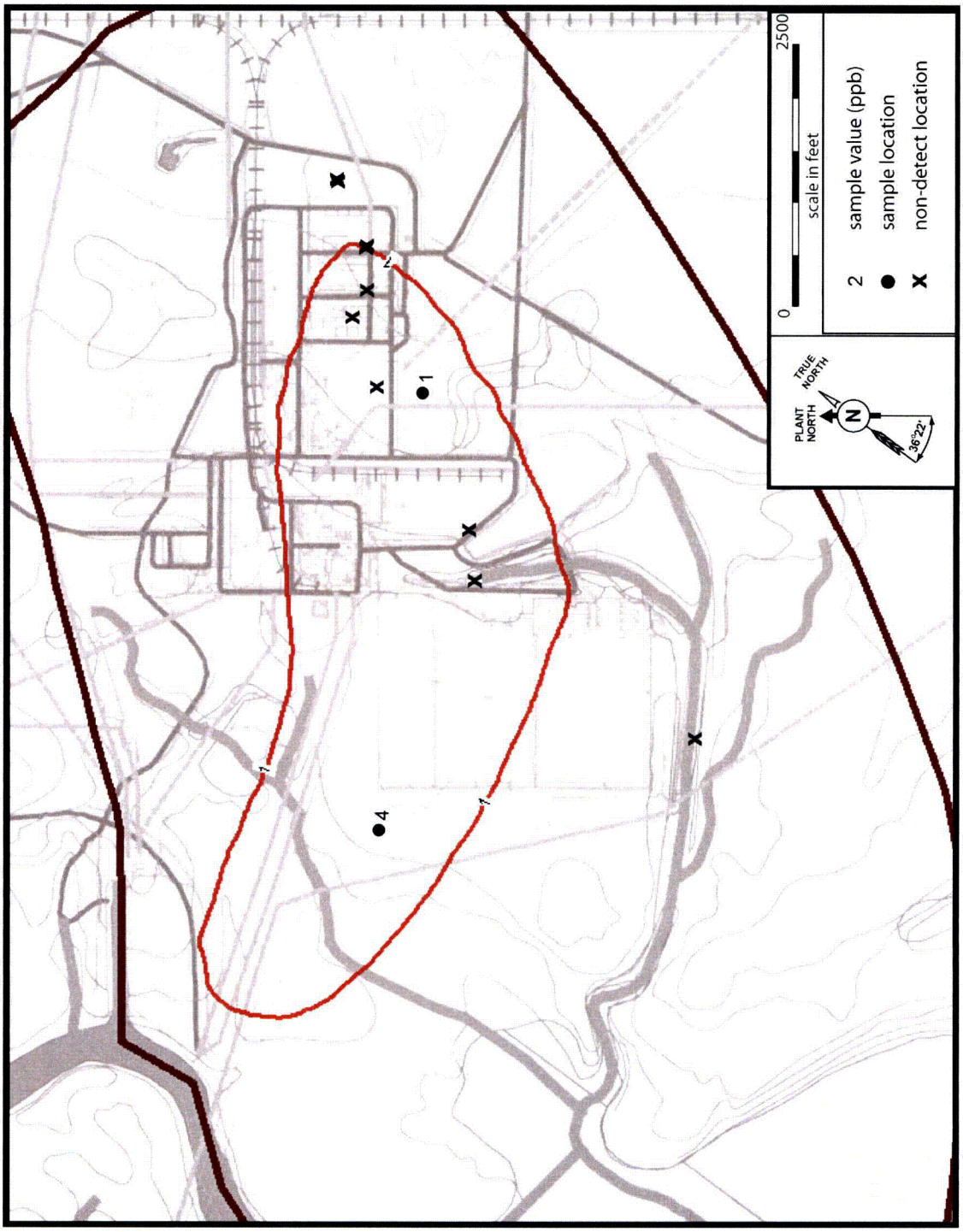


Figure 5-19. Layer 1 (UTRA) Initial Tritium Activities

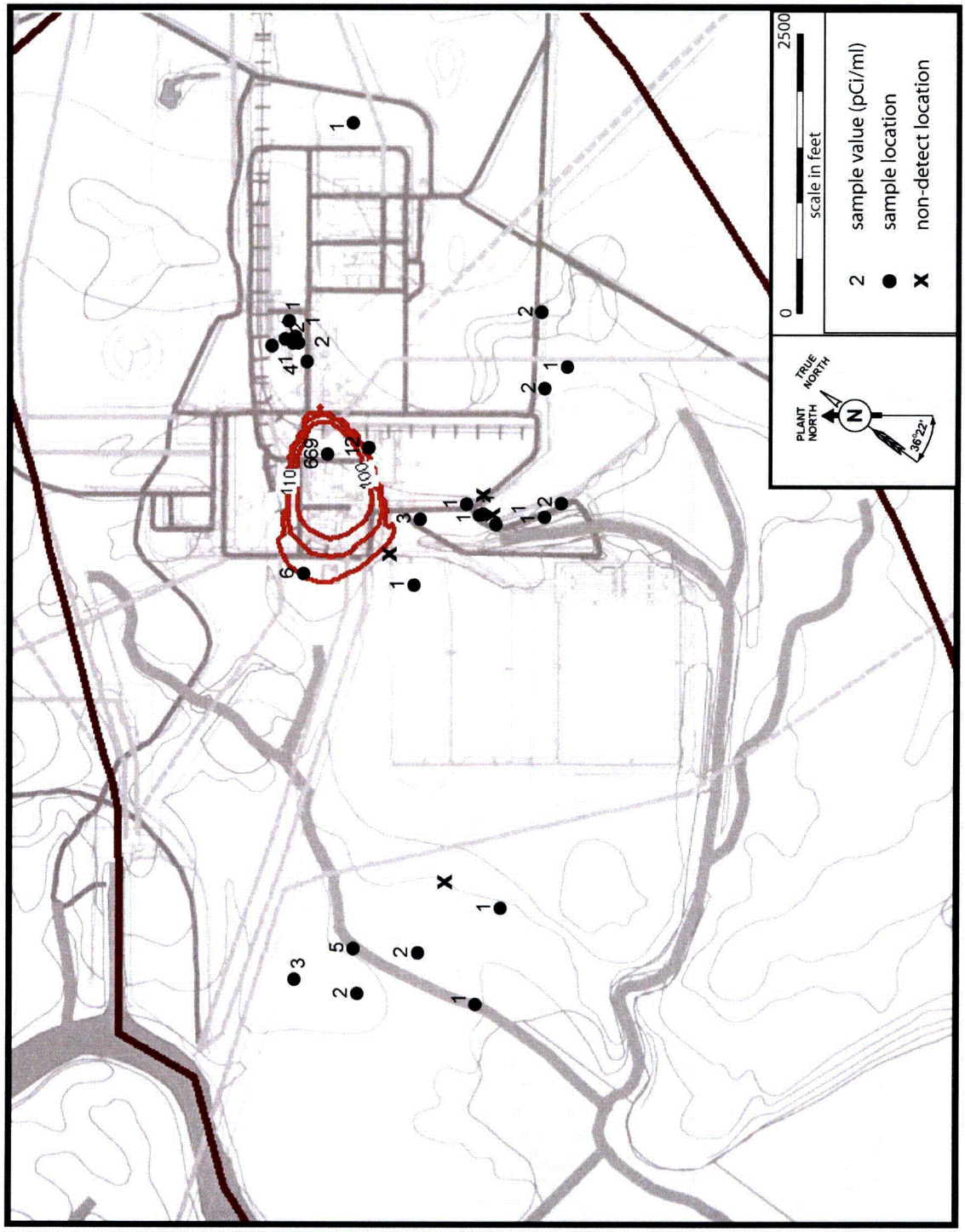


Figure 5-20. Layer 2 (UTRA) Initial Tritium Activities

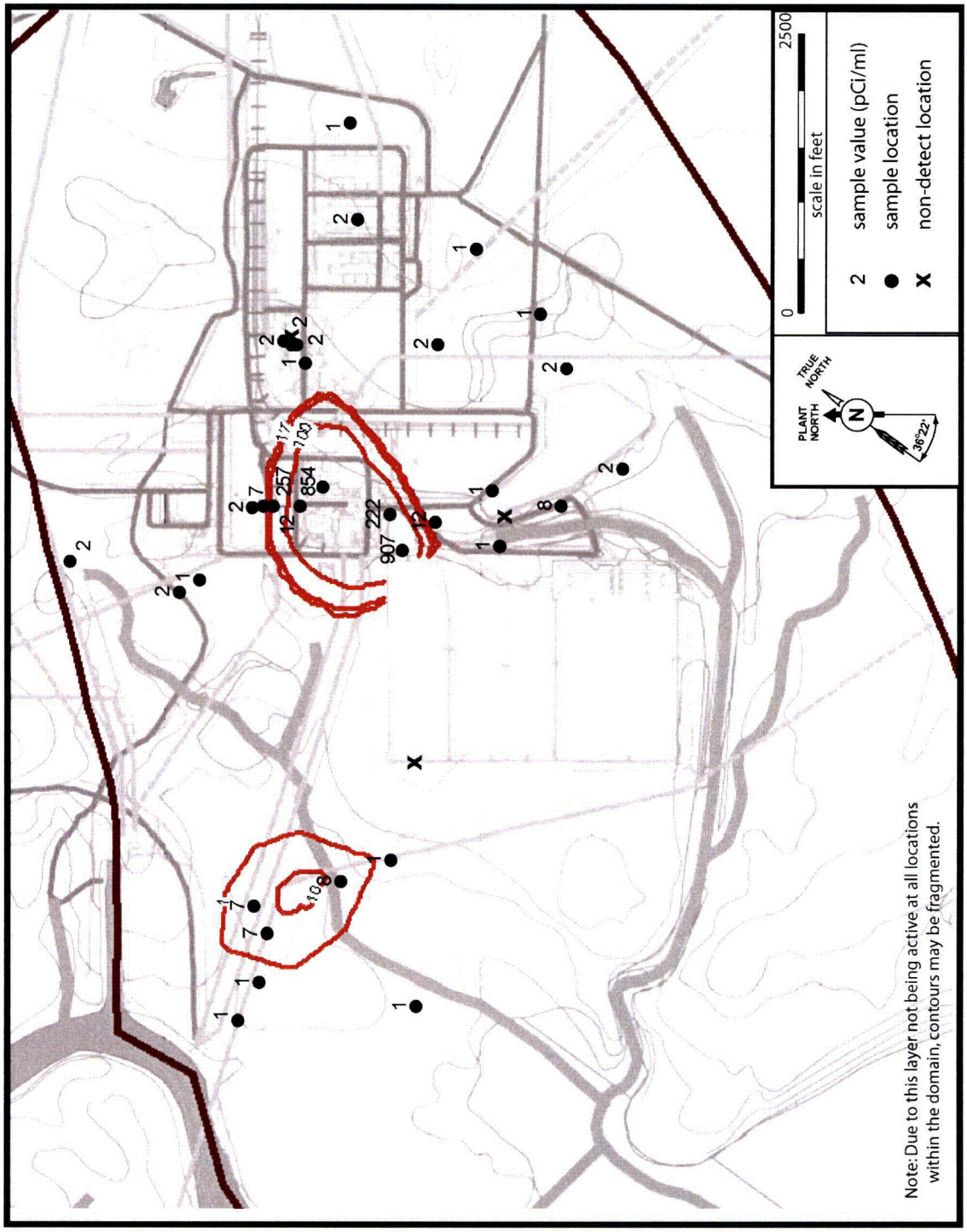


Figure 5-21. Layer 3 (UTRA) Initial Tritium Activities

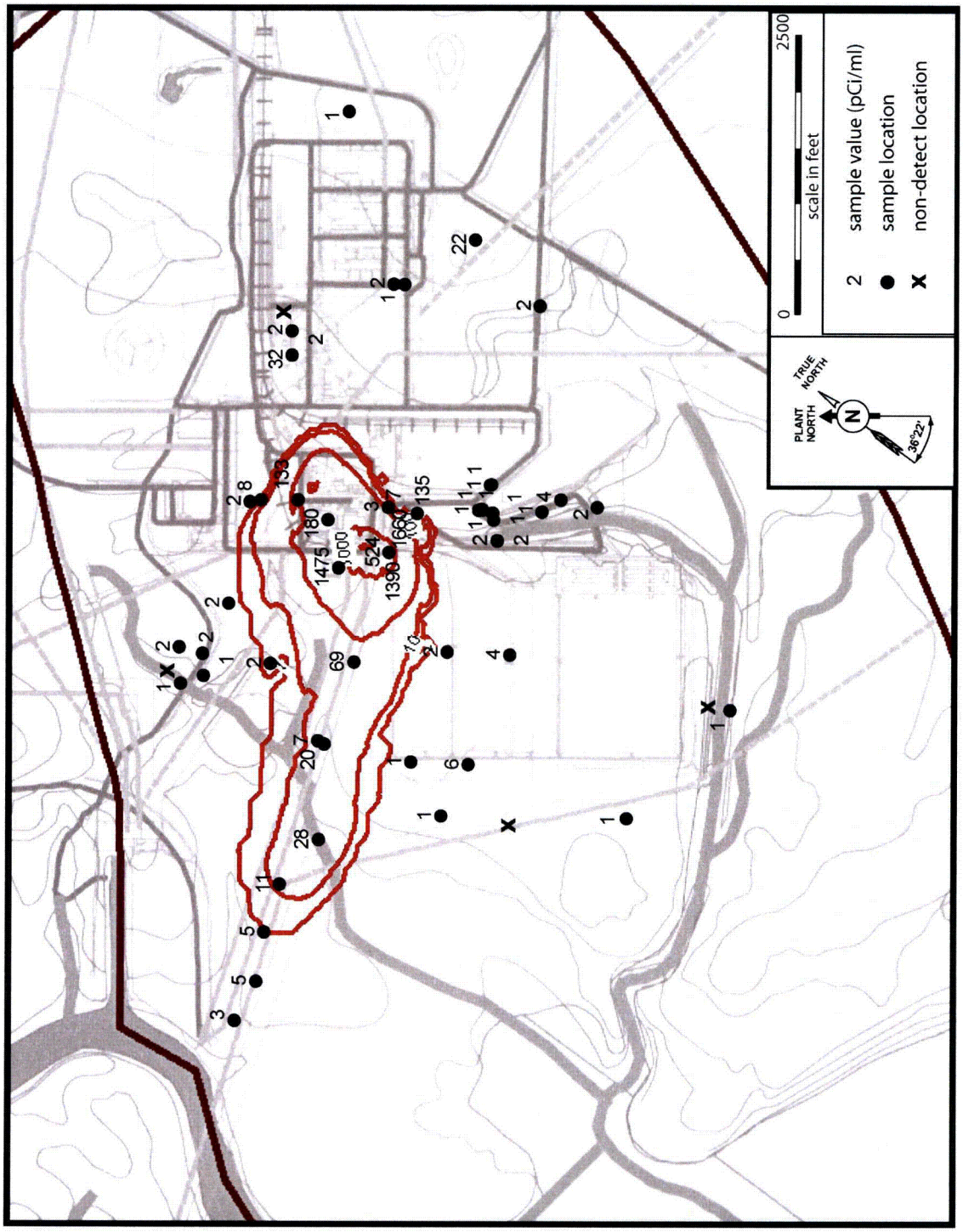


Figure 5-22. Layer 4 (UTRA) Initial Tritium Activities

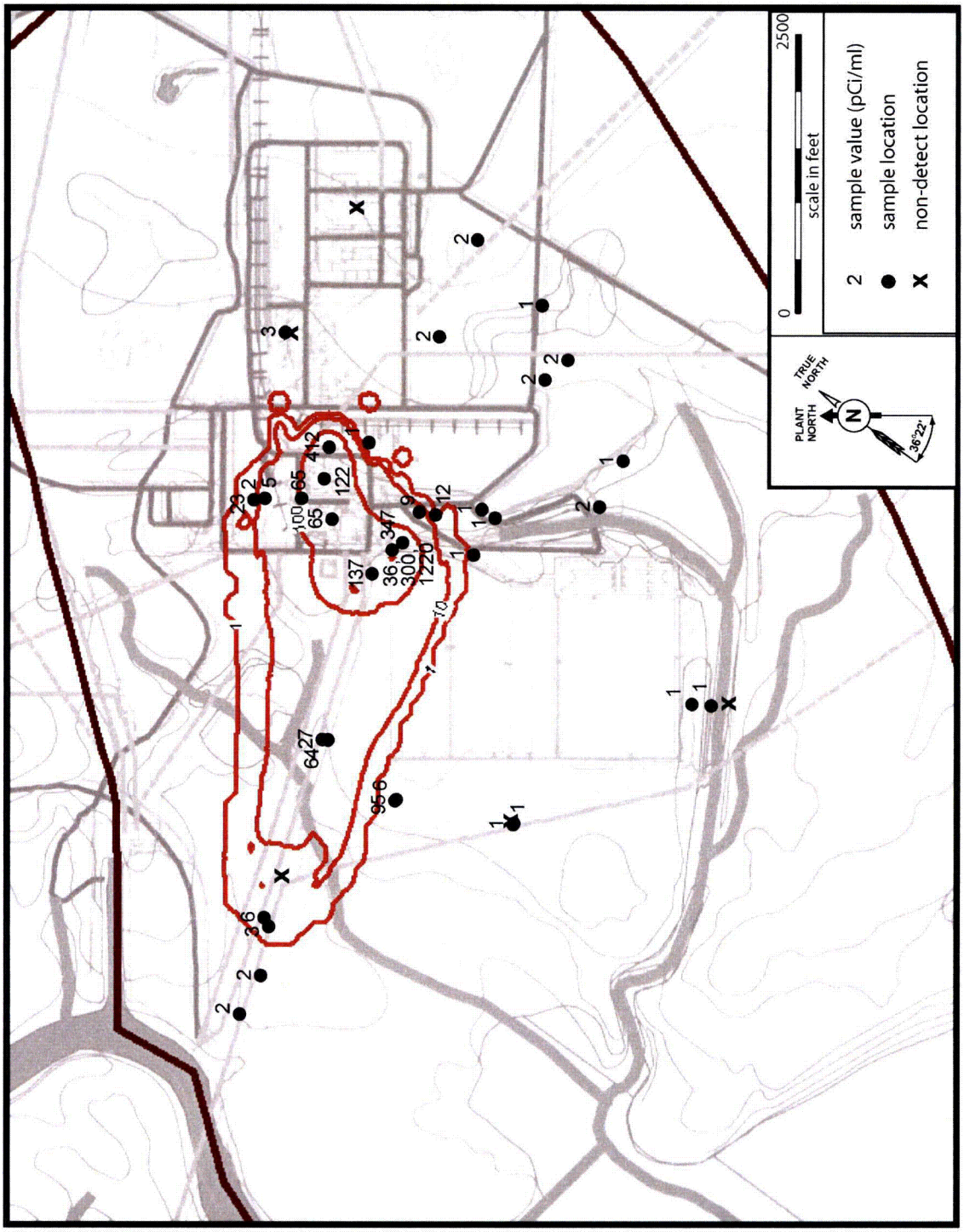


Figure 5-23. Layer 5 (GCU) Initial Tritium Activities

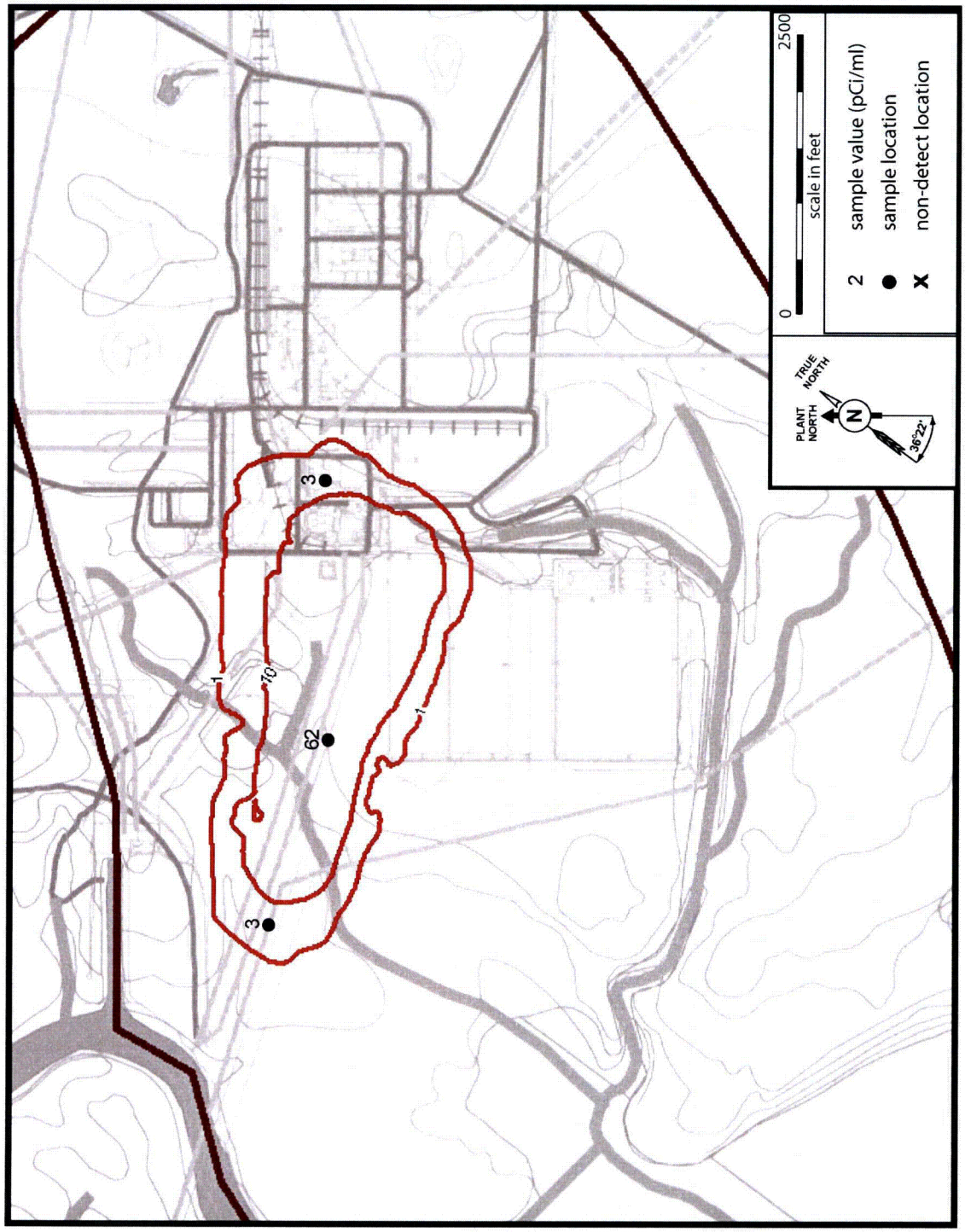


Figure 5-24. Sorption Relationship for pH

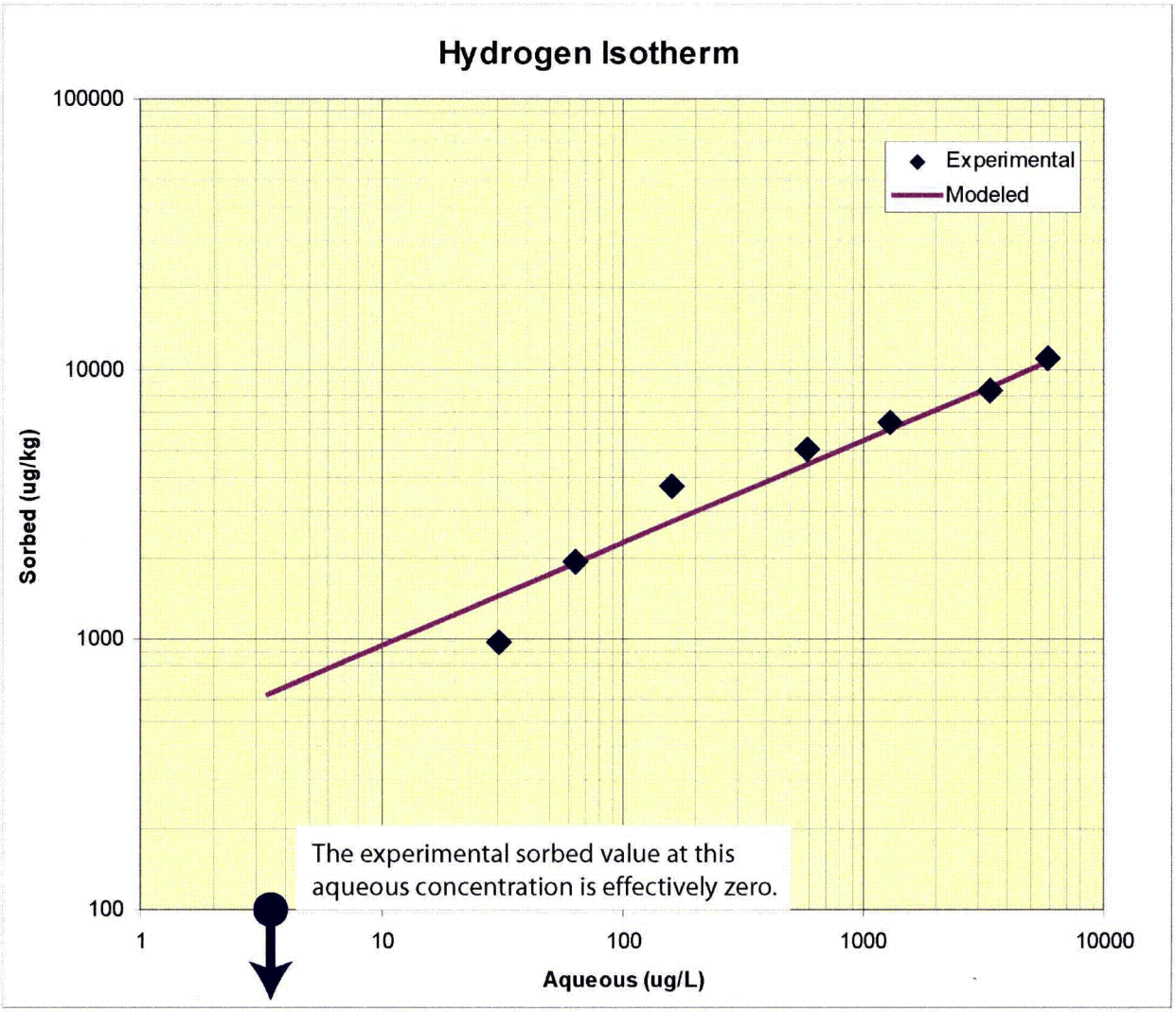


Figure 5-25. Boundary and Source Conditions for pH Transport Model

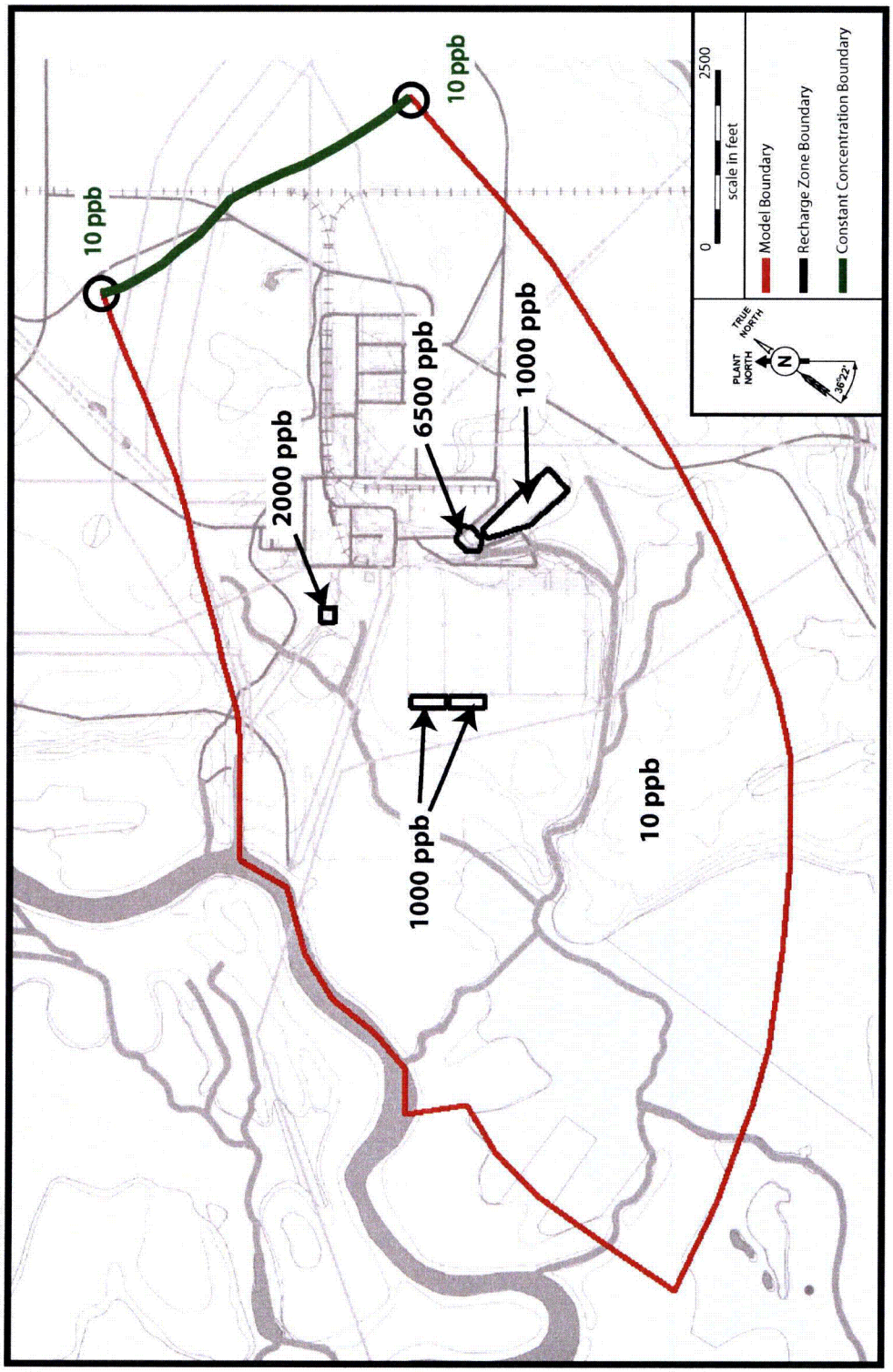


Figure 5-26. pH Monitoring Summary Map

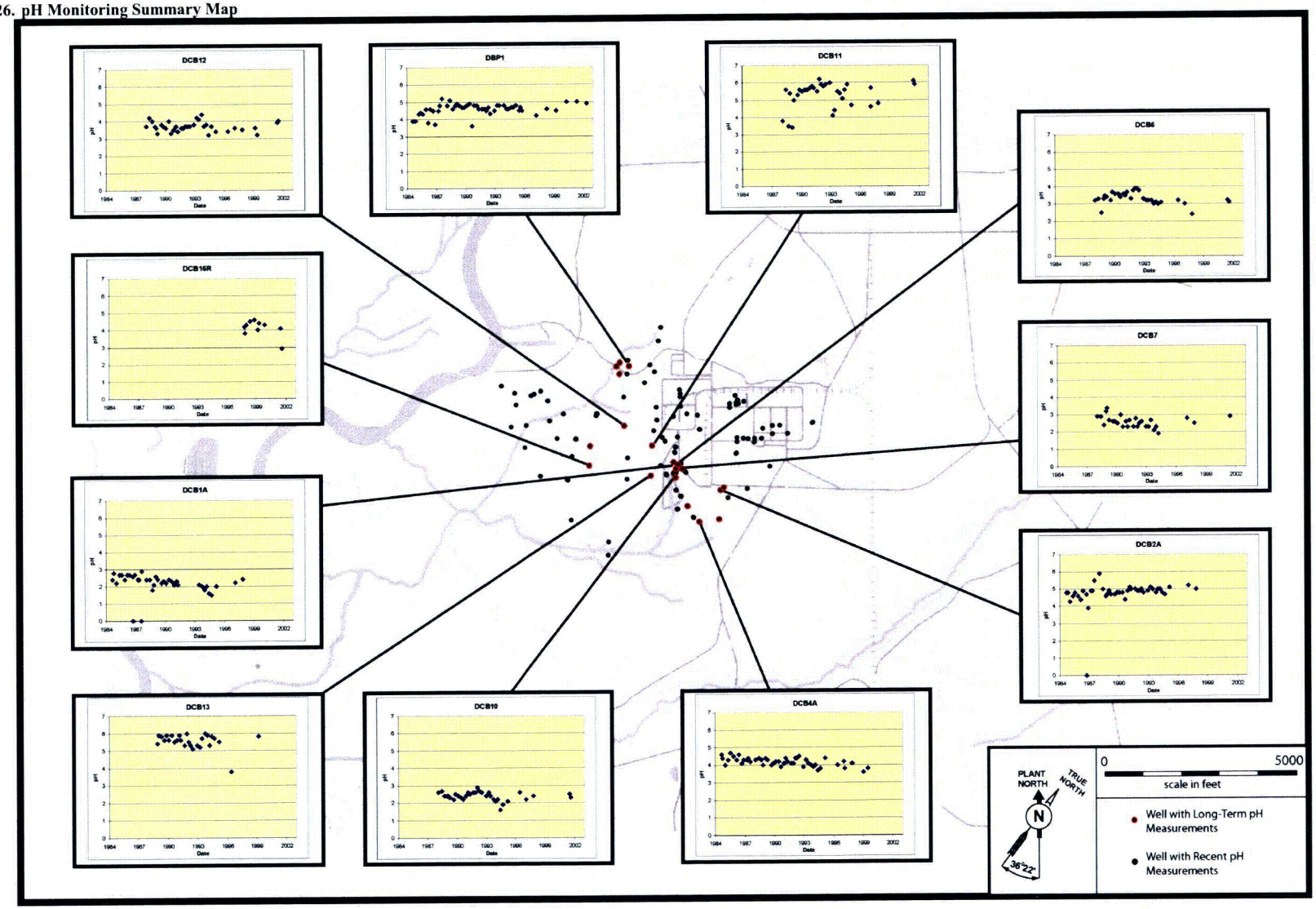


Figure 5-27. Layer 1 (UTRA) pH (Hydrogen Ion Concentrations) for Metal Kd Distributions

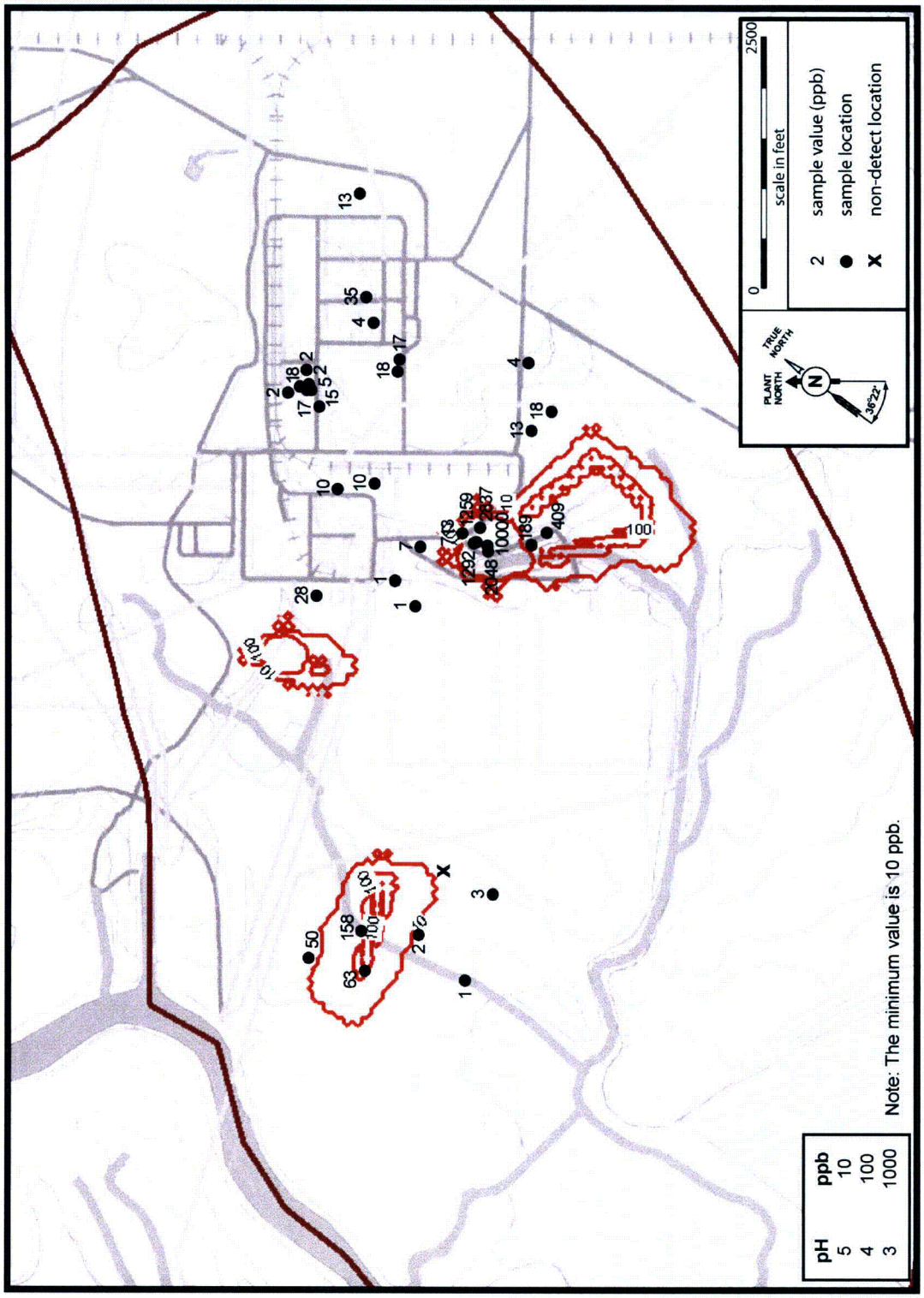


Figure 5-28. Layer 2 (UTRA) pH (Hydrogen Ion Concentrations) for Metal Kd Distributions

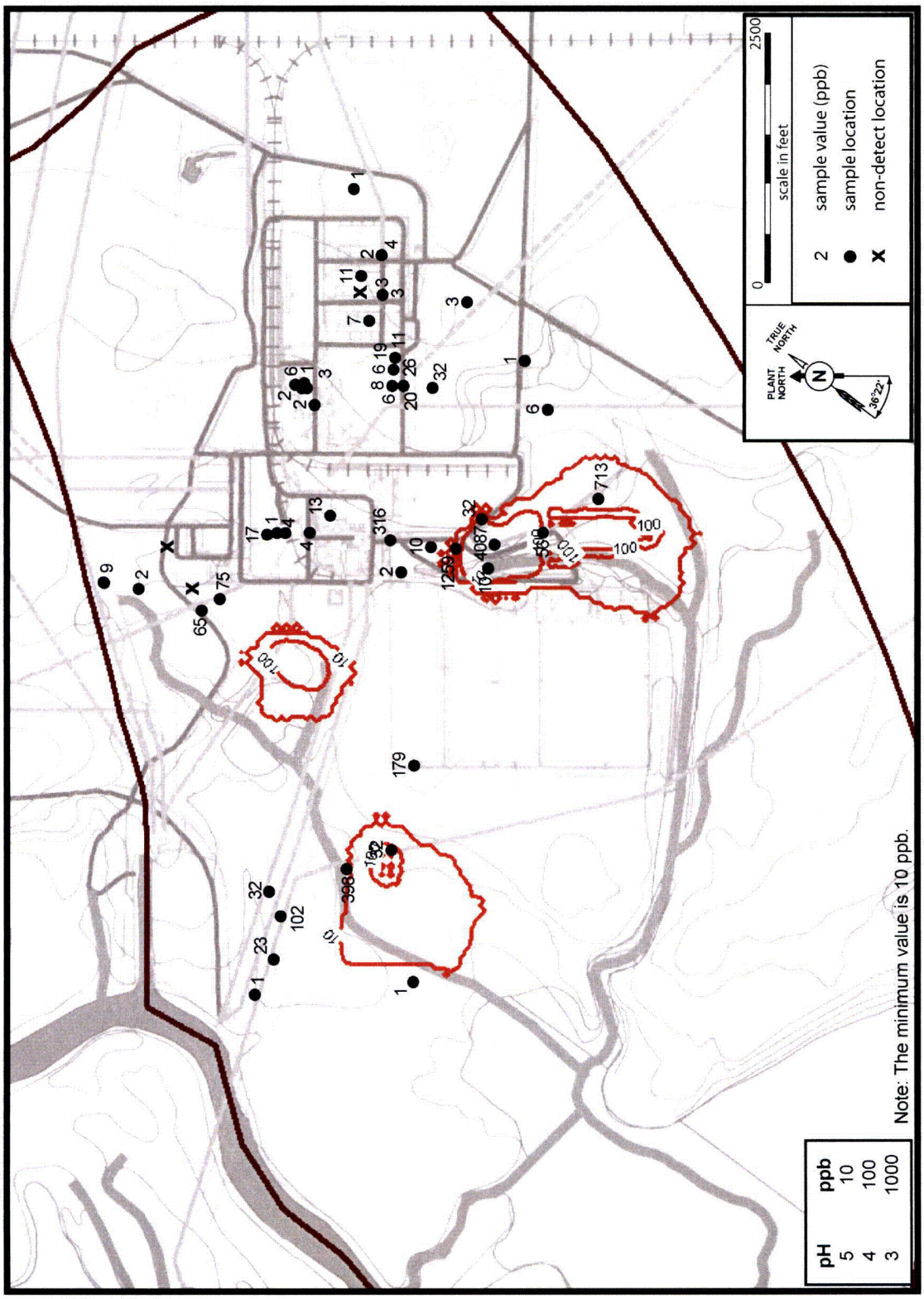


Figure 5-29. Layer 3 (UTRA) pH (Hydrogen Ion Concentrations) for Metal Kd Distributions

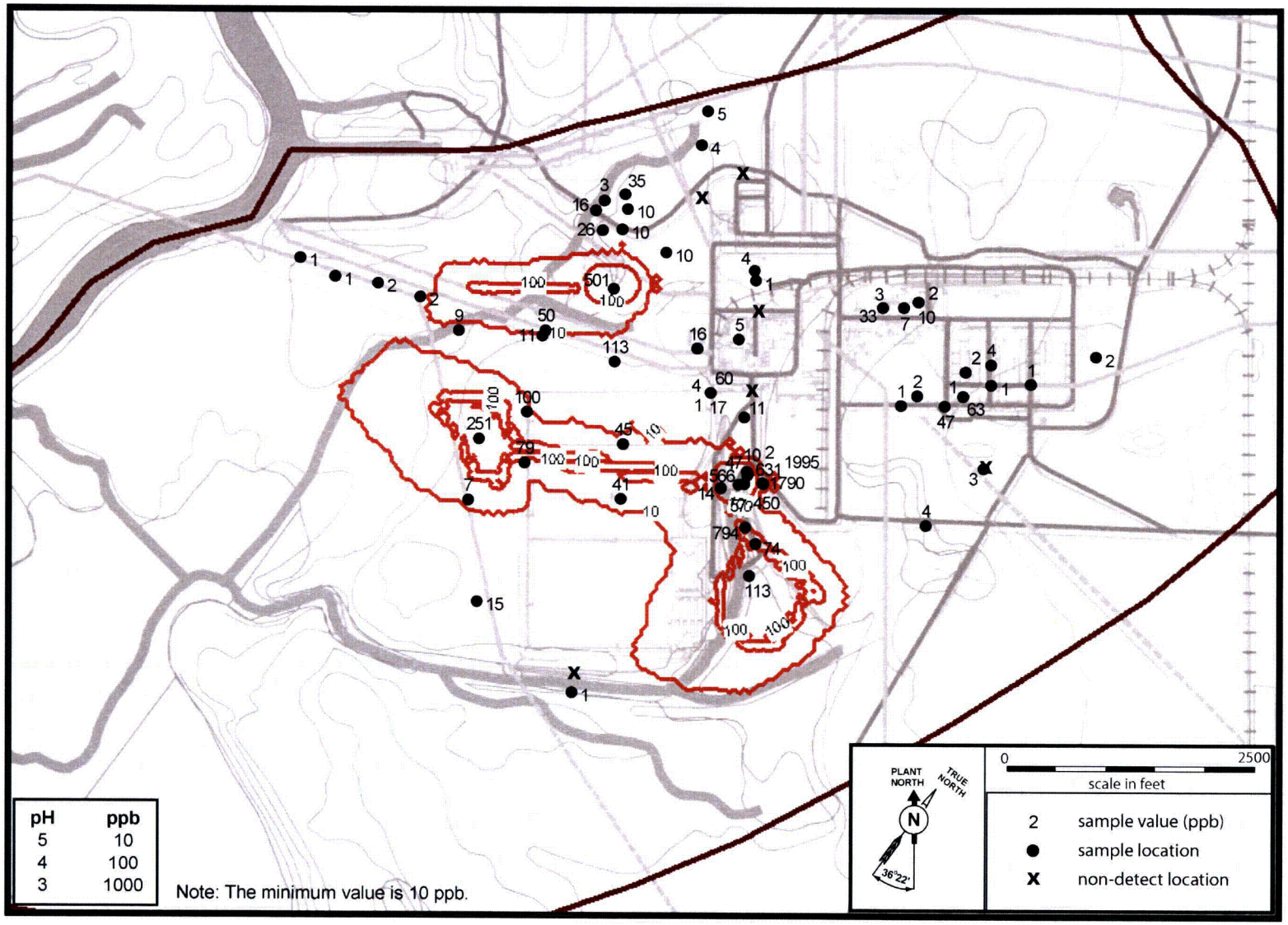


Figure 5-30. Layer 4 (UTRA) pH (Hydrogen Ion Concentrations) for Metal Kd Distributions

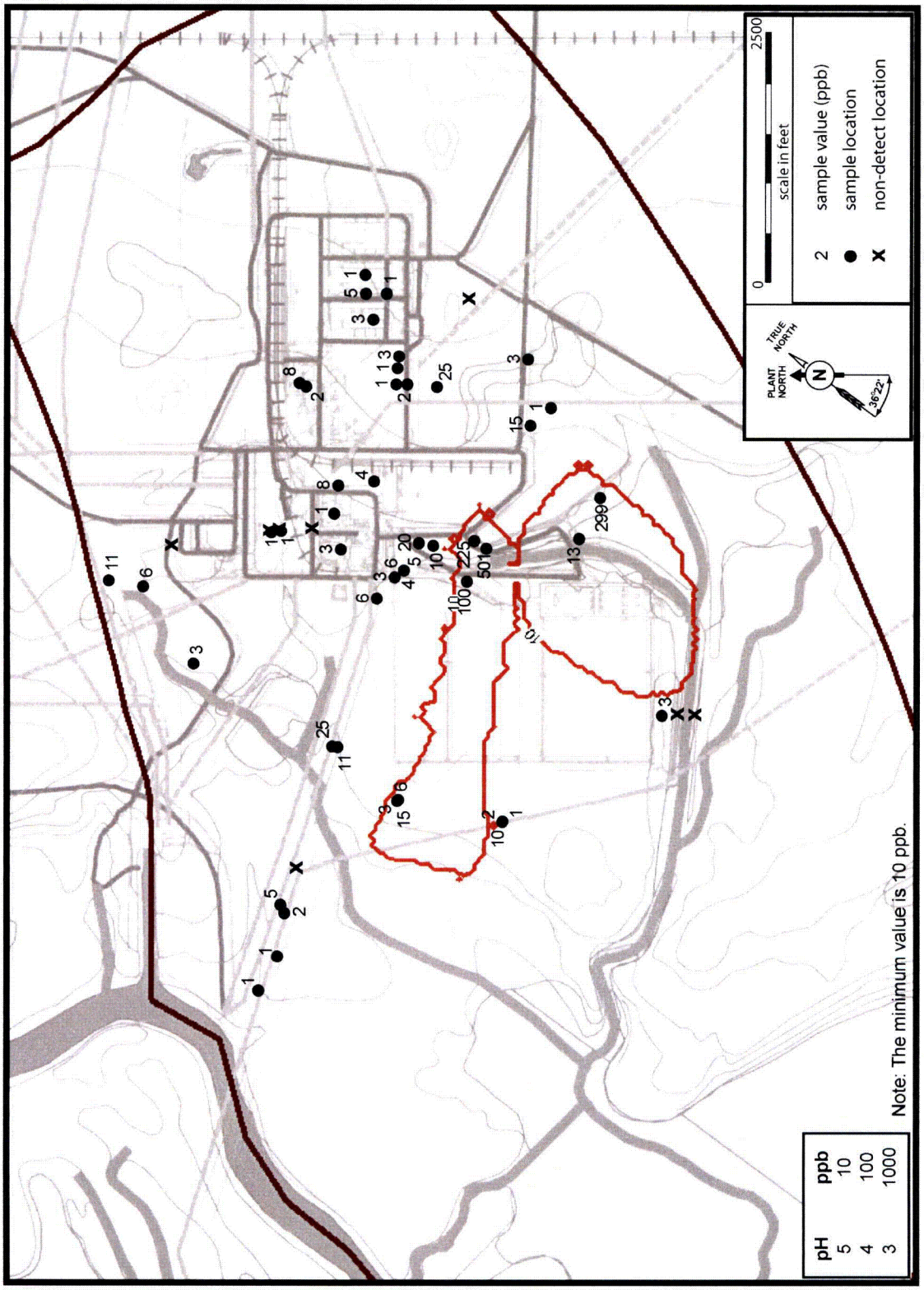


Figure 5-31. Be Distribution Coefficient versus Hydrogen Ion Concentration

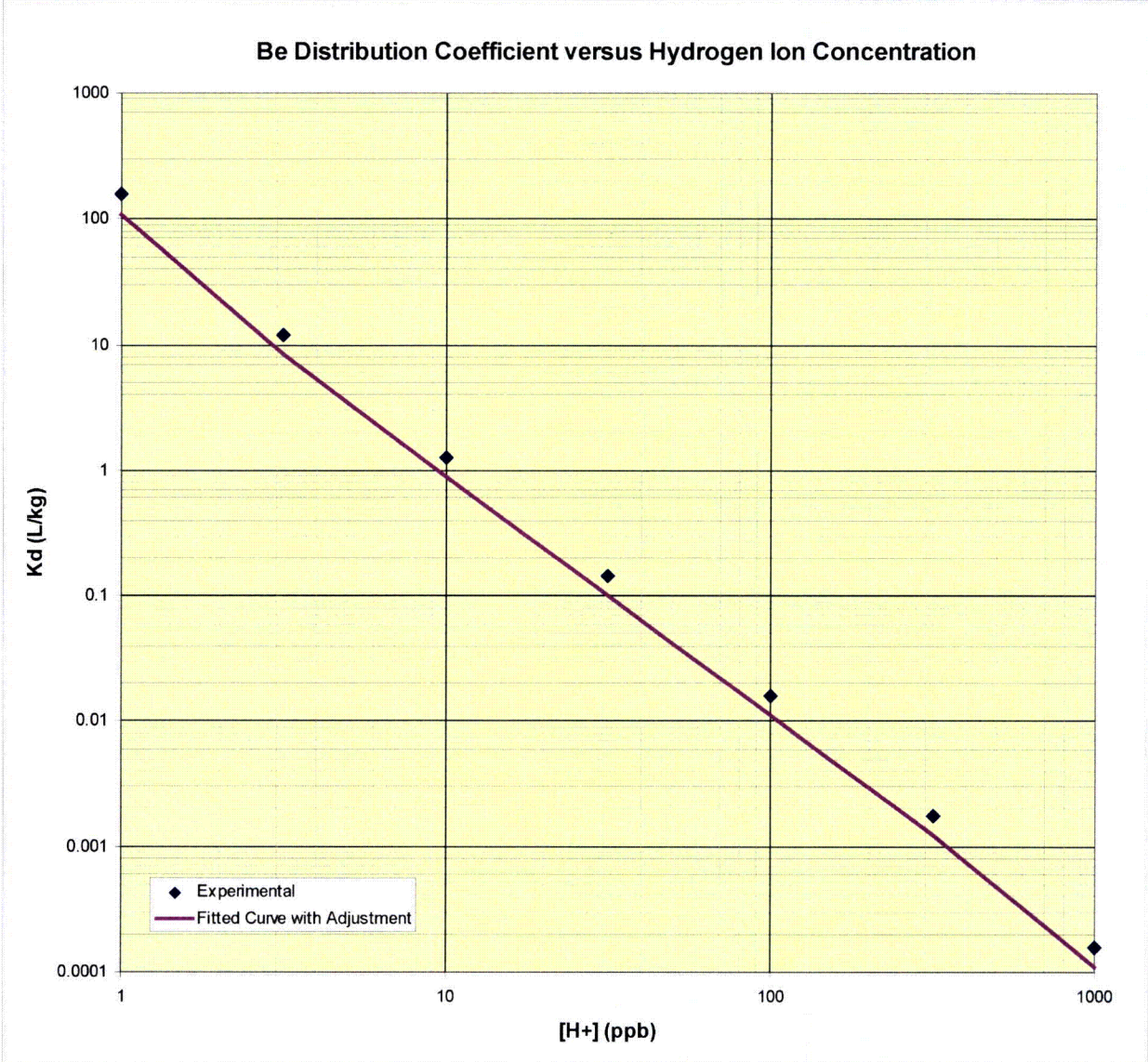


Figure 5-32. Ni Distribution Coefficient versus Hydrogen Ion Concentration

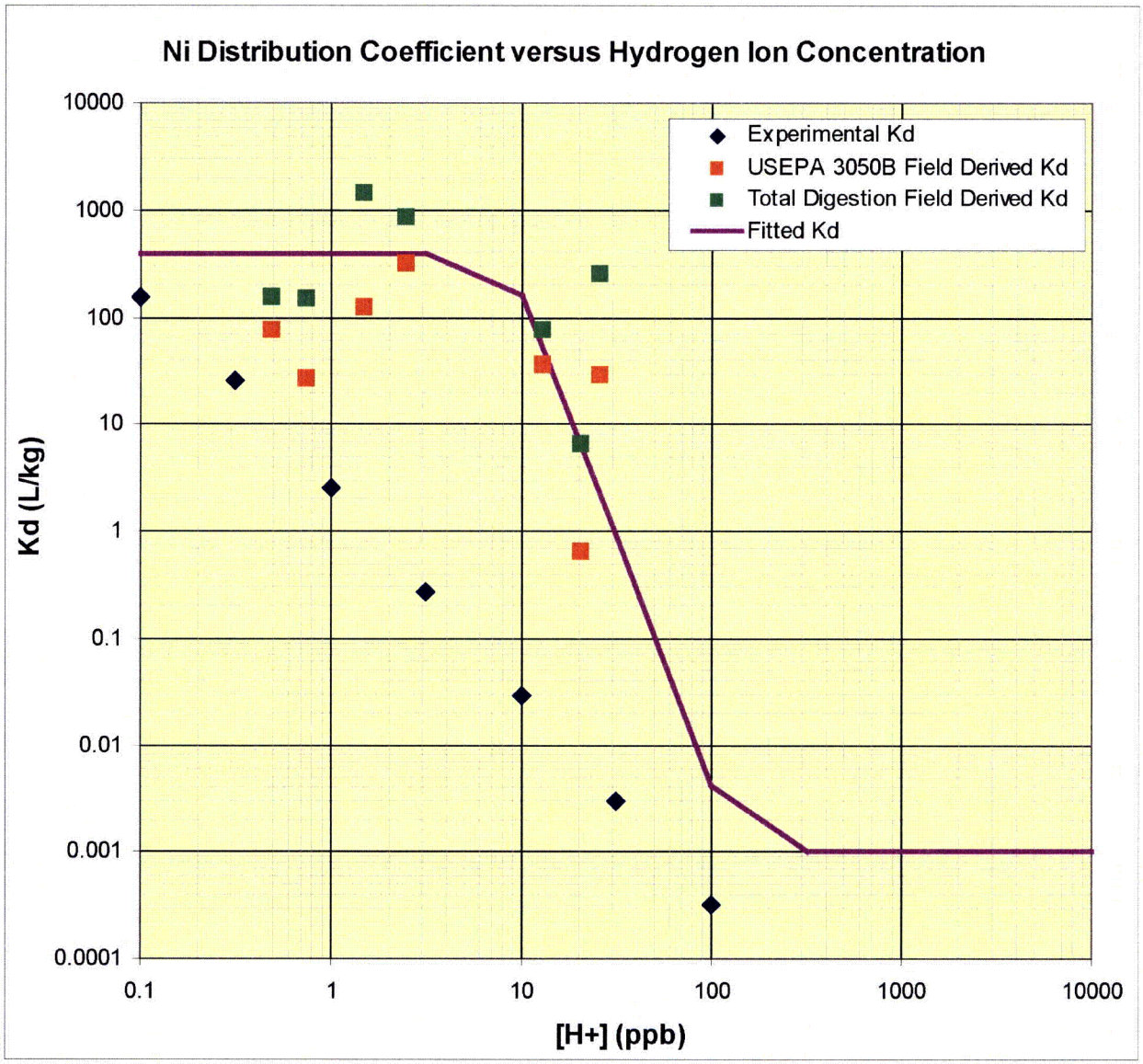


Figure 5-33. U Distribution Coefficient versus Hydrogen Ion Concentration

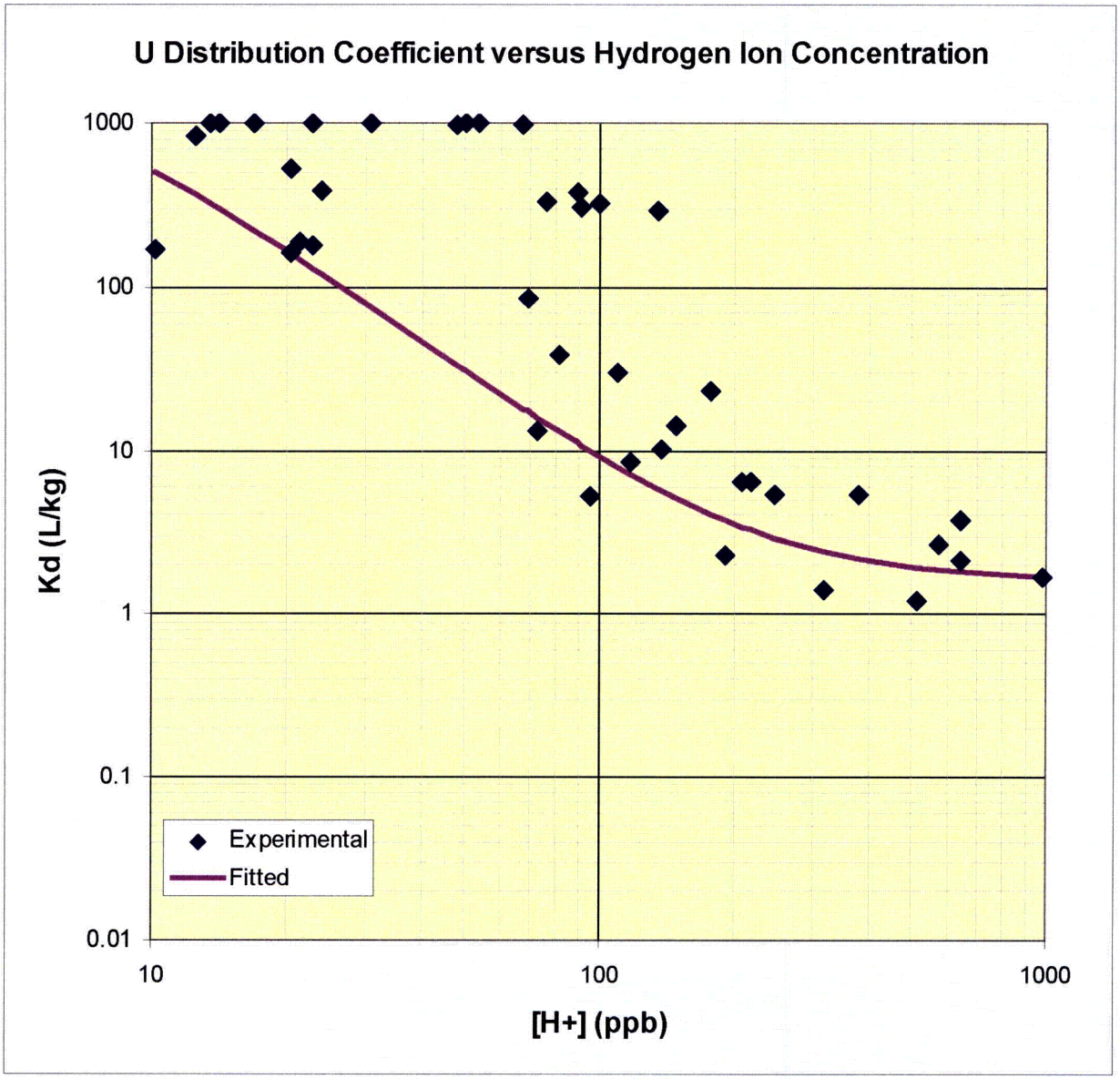


Figure 5-34. Layer 1 (UTRA) Current (2001) Be Concentrations

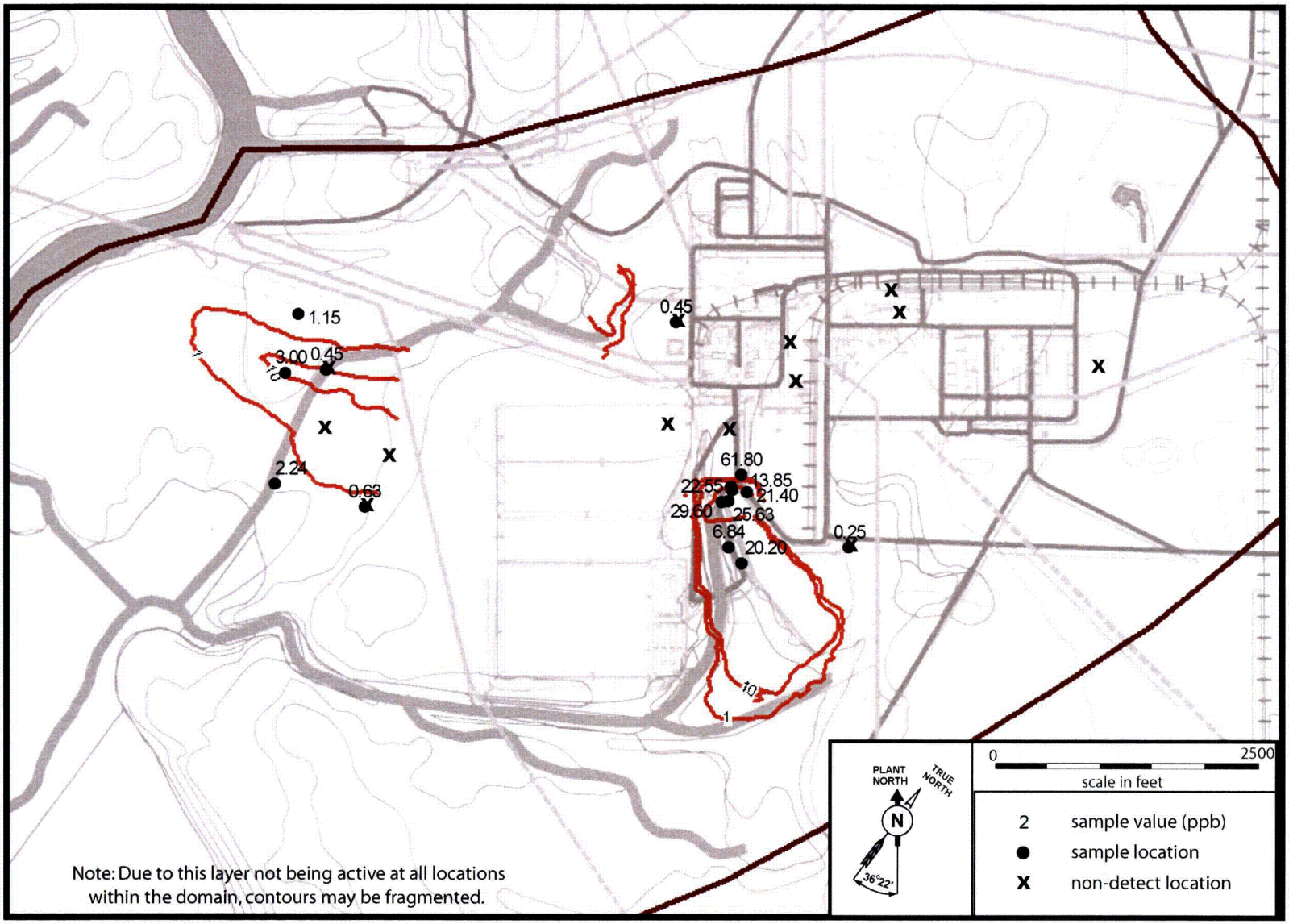


Figure 5-35. Layer 2 (UTRA) Current (2001) Be Concentrations

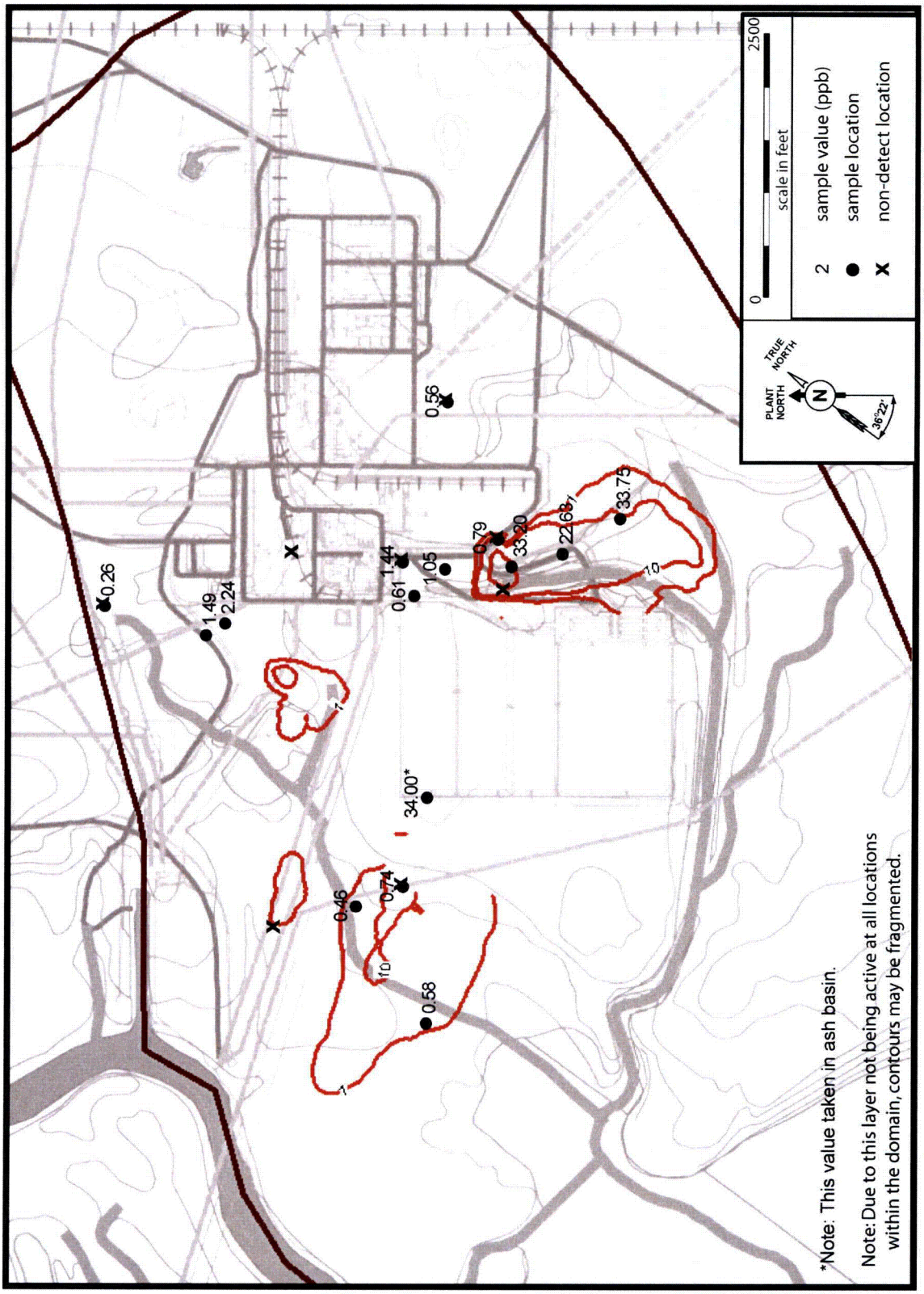
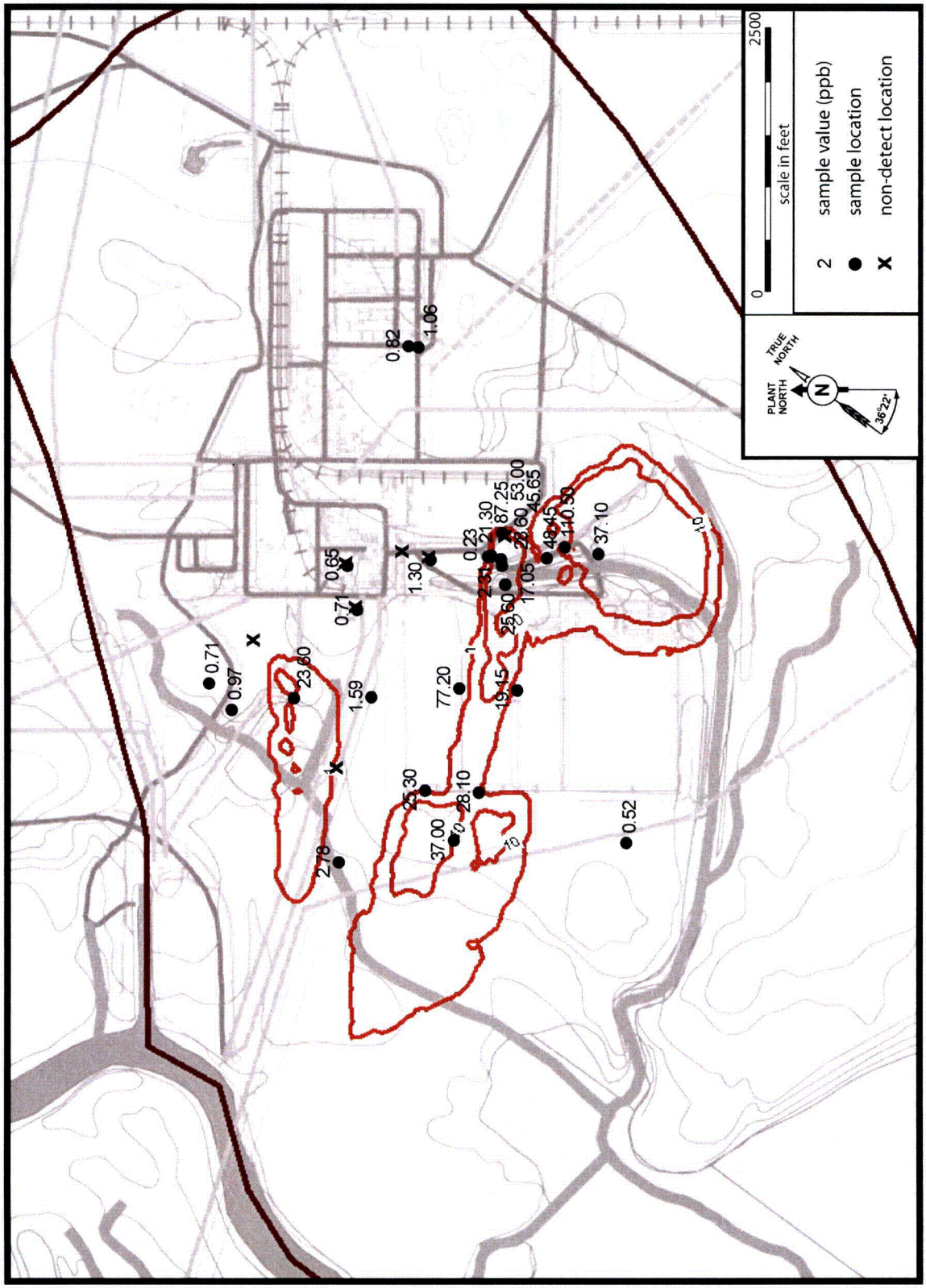


Figure 5-36. Layer 3 (UTRA) Current (2001) Be Concentrations



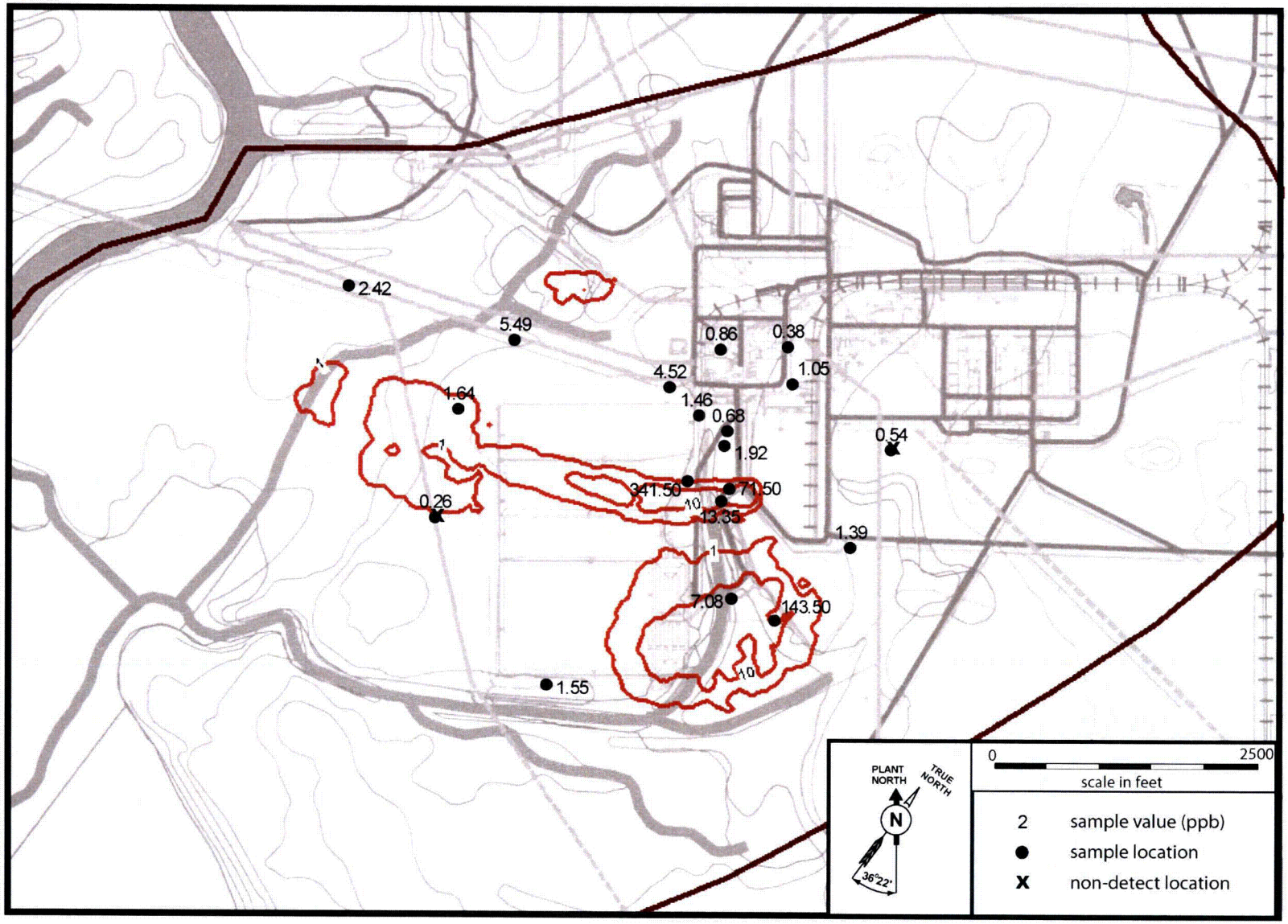


Figure 5-37. Layer 4 (UTRA) Current (2001) Be Concentrations

Figure 5-38. Layer 1 (UTRA) Current (2001) Ni Concentrations

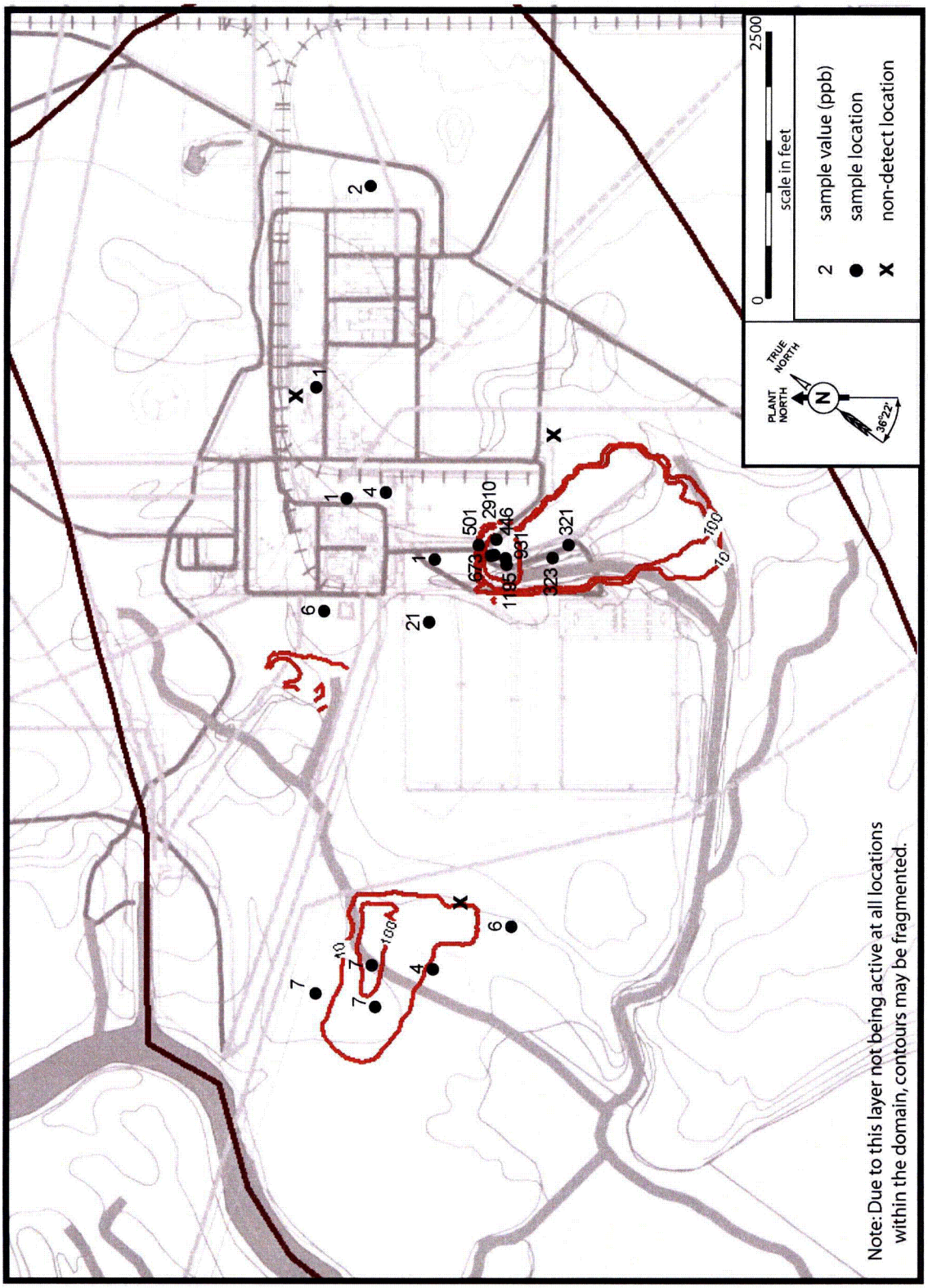


Figure 5-39. Layer 2 (UTRA) Current (2001) Ni Concentrations

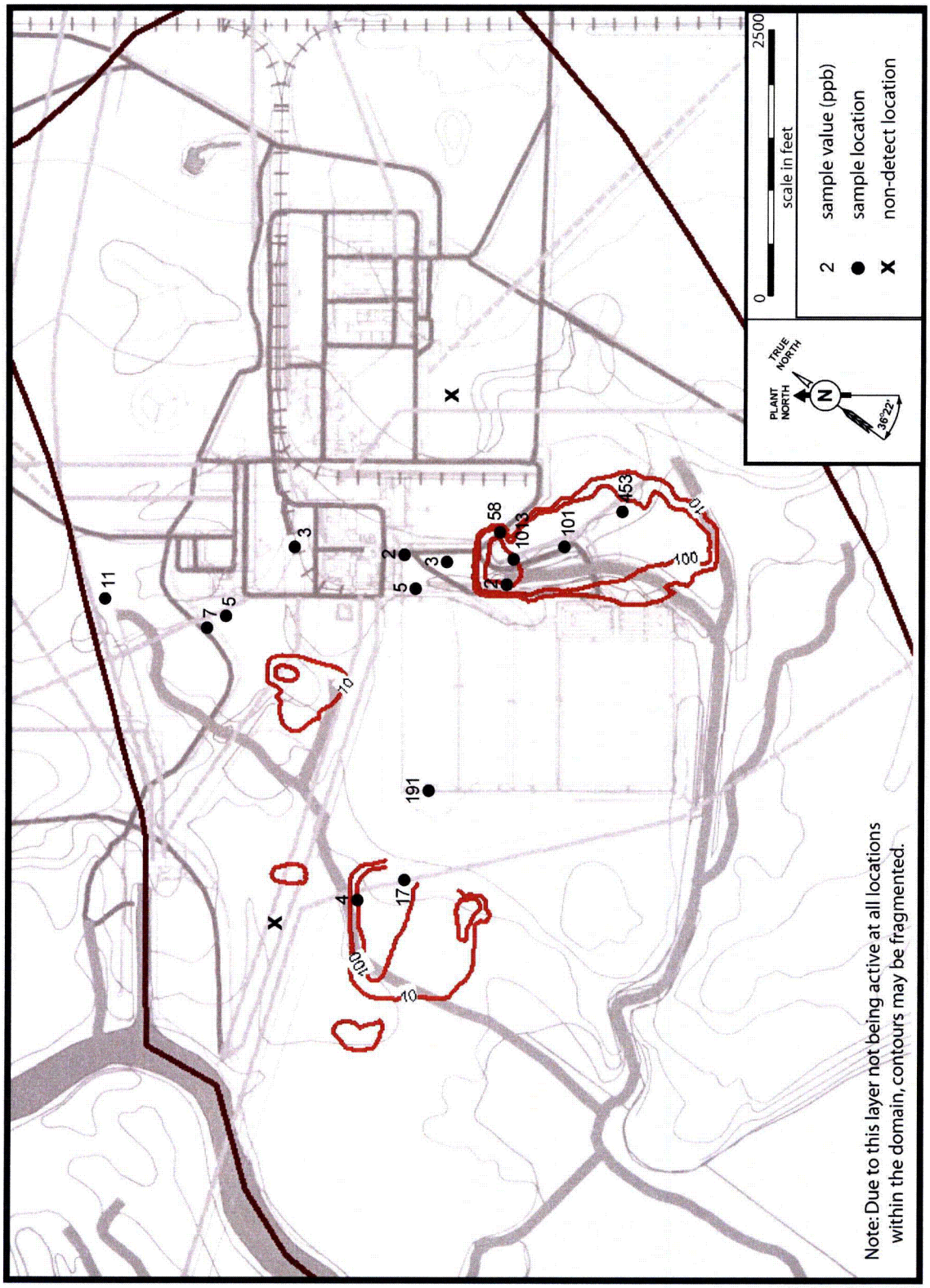


Figure 5-40. Layer 3 (UTRA) Current (2001) Ni Concentrations

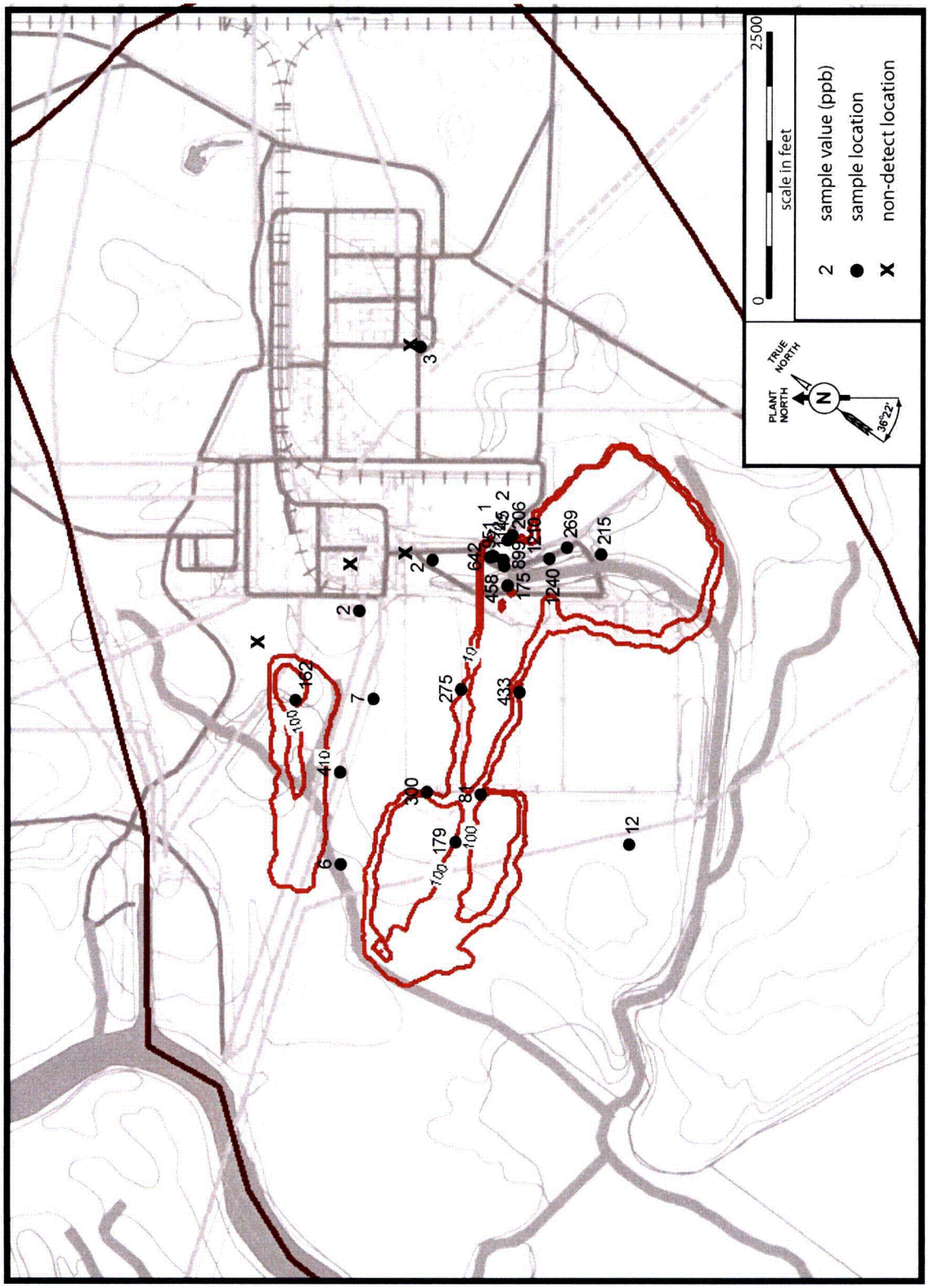


Figure 5-41. Layer 4 (UTRA) Current (2001) Ni Concentrations

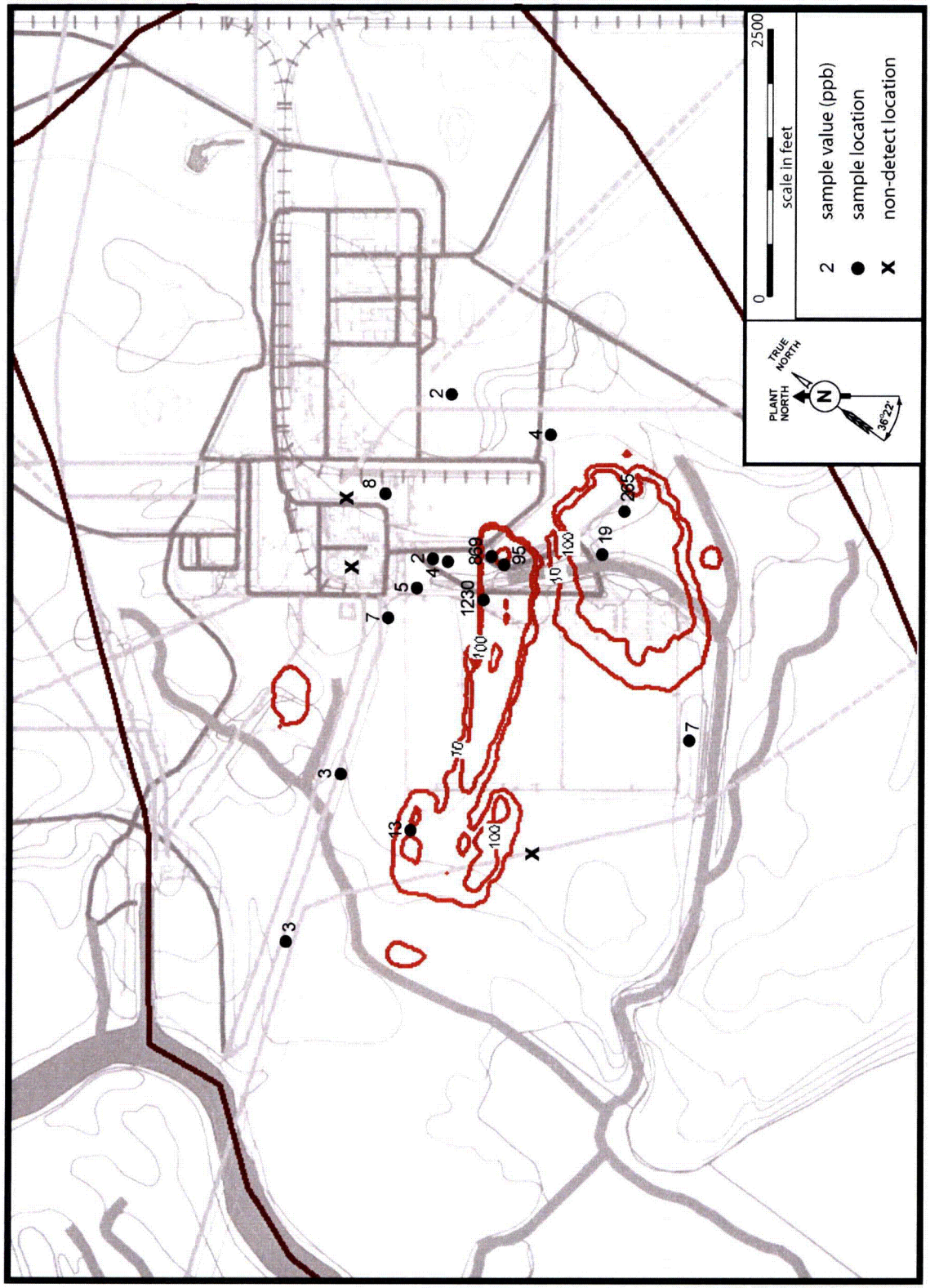


Figure 5-42. Layer 1 (UTRA) Current (2001) U Concentrations

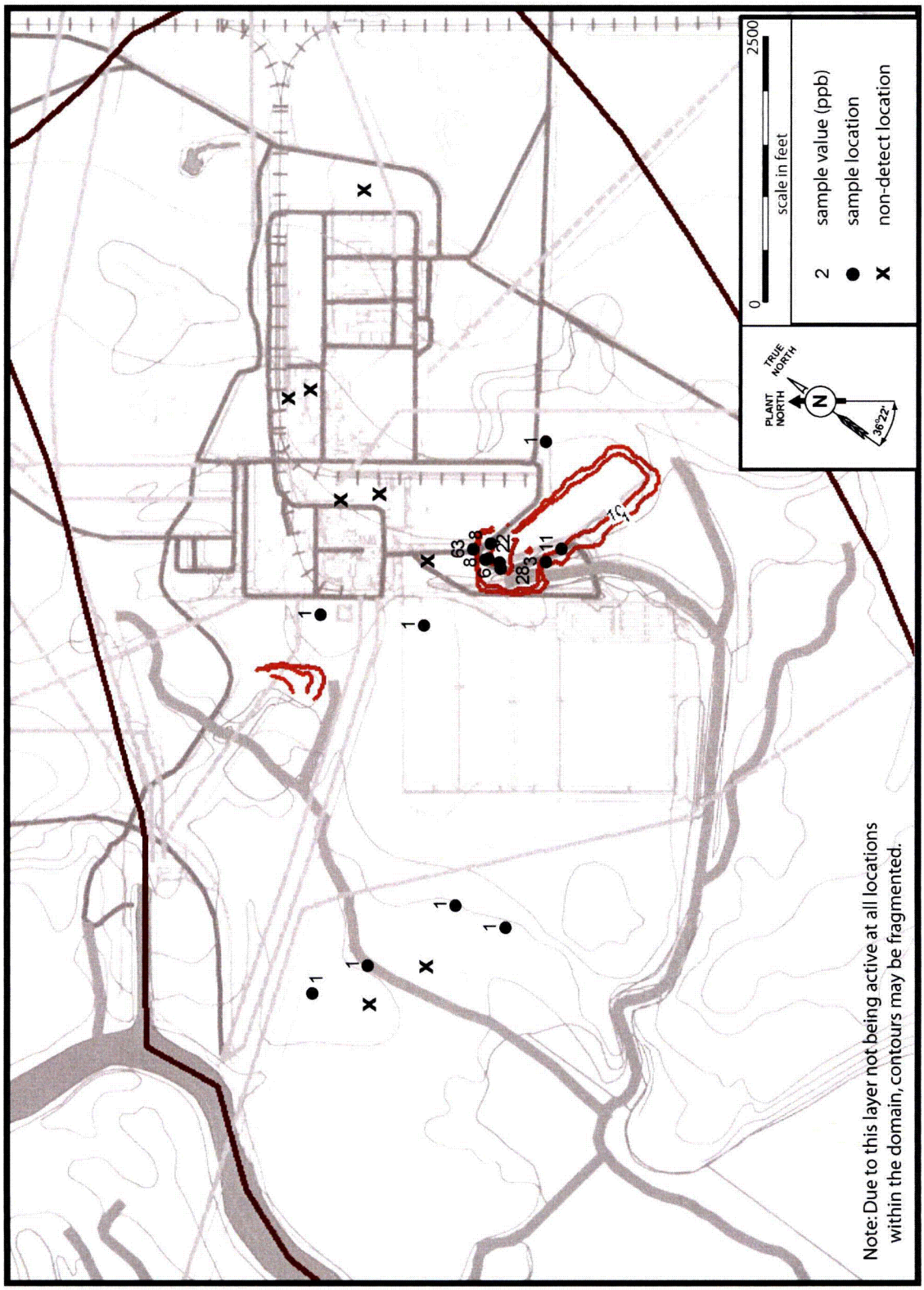


Figure 5-43. Layer 2 (UTRA) Current (2001) U Concentrations

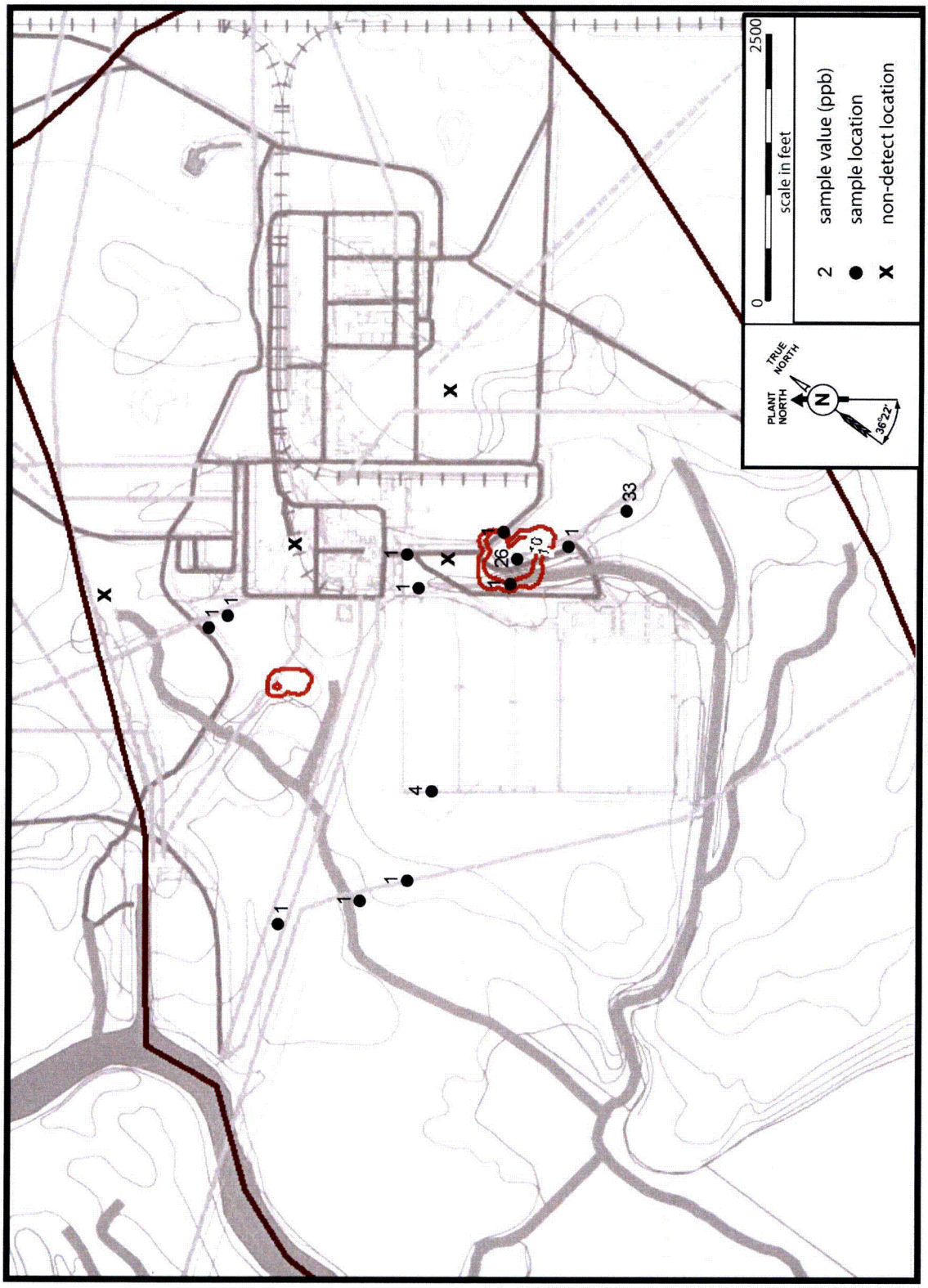
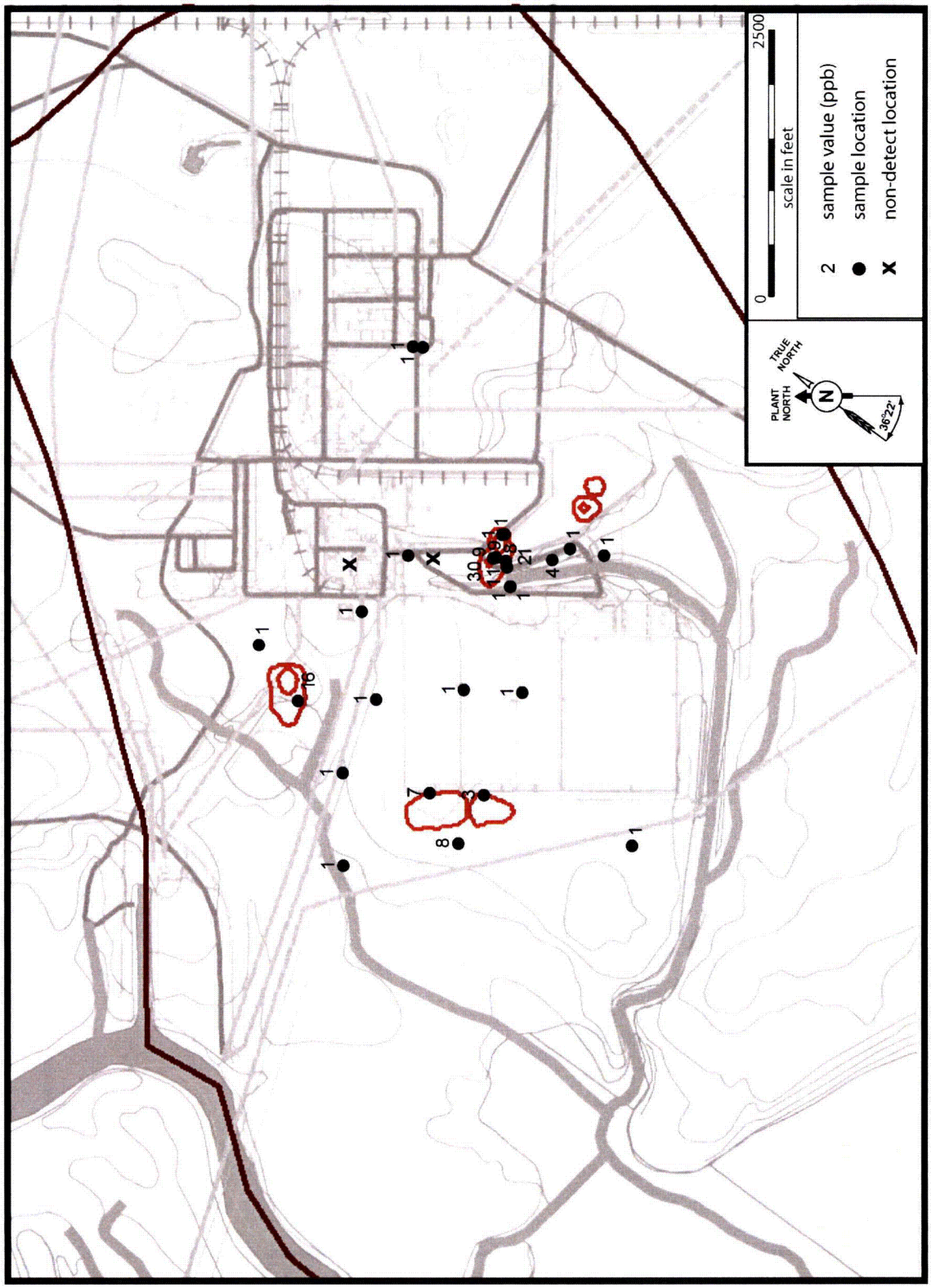


Figure 5-44. Layer 3 (UTRA) Current (2001) U Concentrations



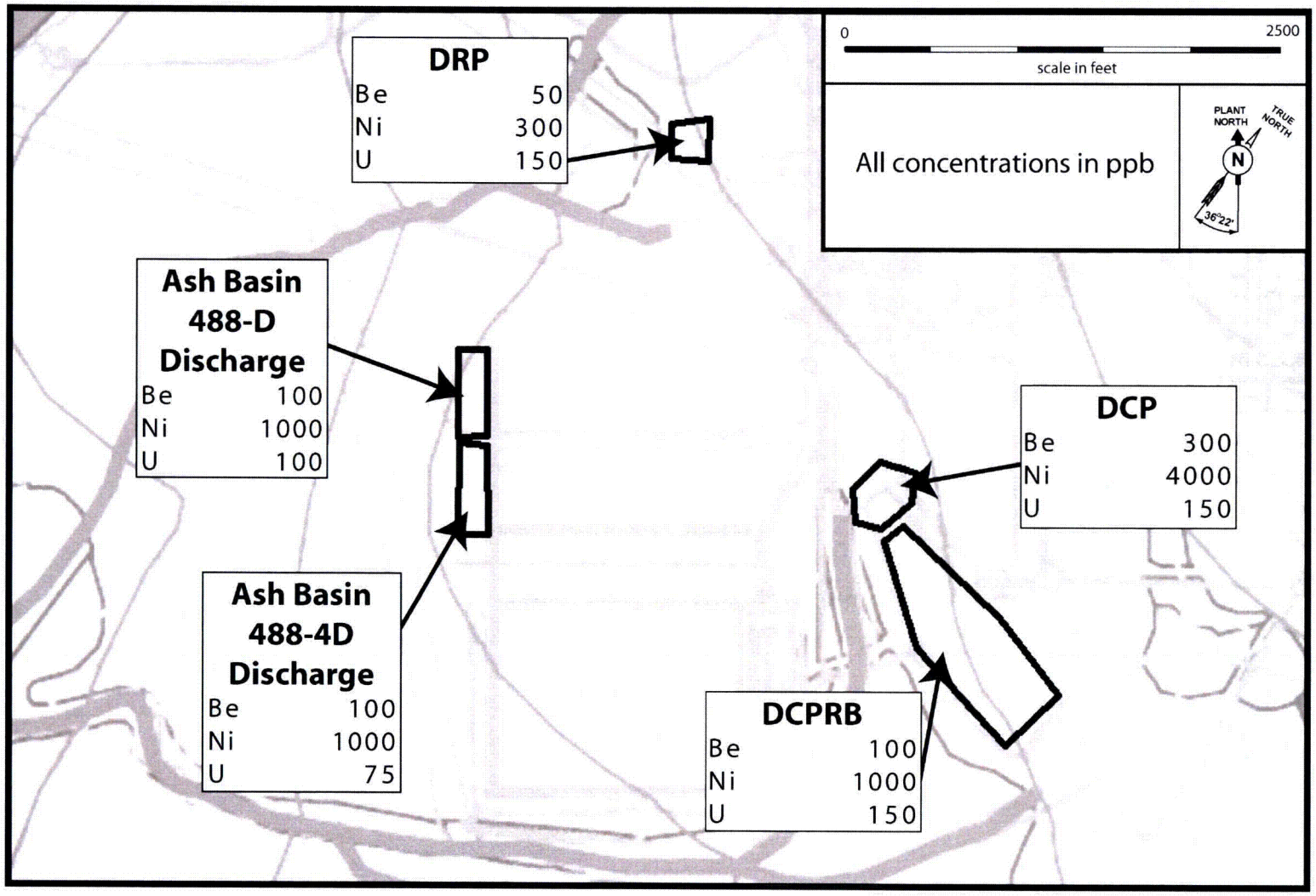


Figure 5-45. Metals Contamination Source Loadings