



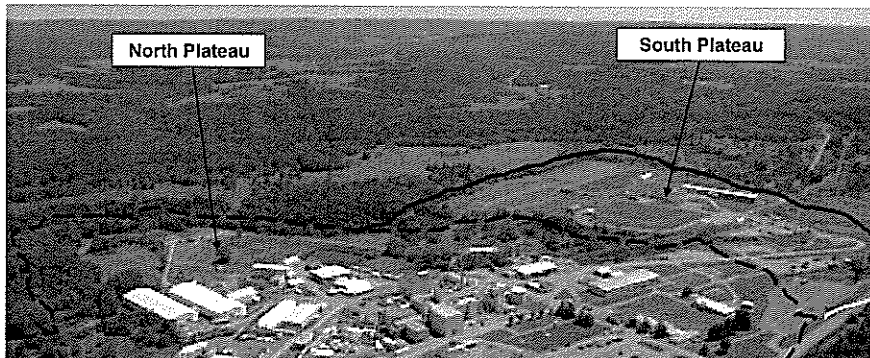
Western New York Nuclear Service Center

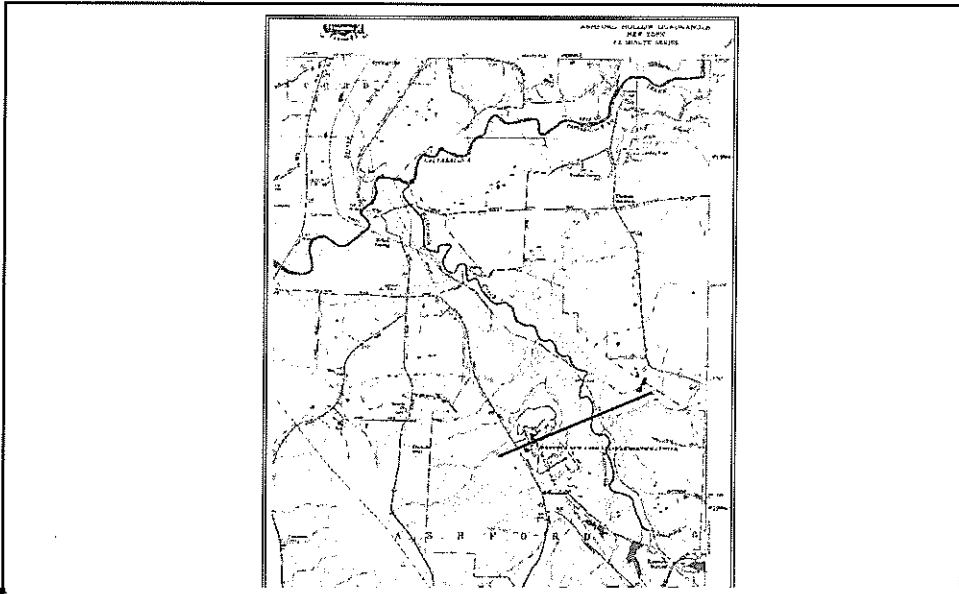
North Plateau Groundwater Plume Data Summary

Paul J. Bembia

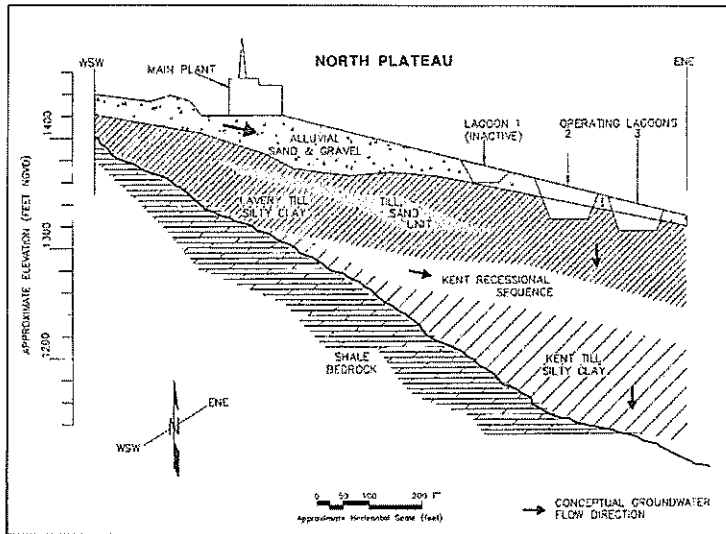
October 25, 2006

Central Area of the WNYNSC – “The 200 Acres”



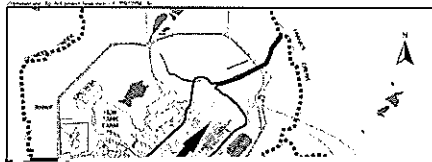


North Plateau Geologic Cross Section



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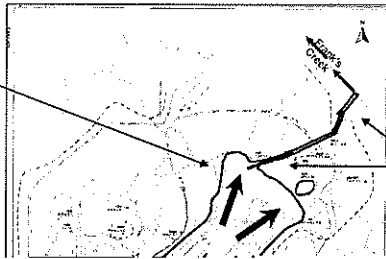
North Plateau Groundwater Plume



- Contamination that leaked from the Process Building (primarily radioactive Strontium-90 and Yttrium-90) is being carried to the

North Plateau Groundwater Plume – Transport Paths

- Some contaminated groundwater seeps from the sand and gravel deposit into surface water ditches and low-lying areas within the West Valley Demonstration Project portion of the

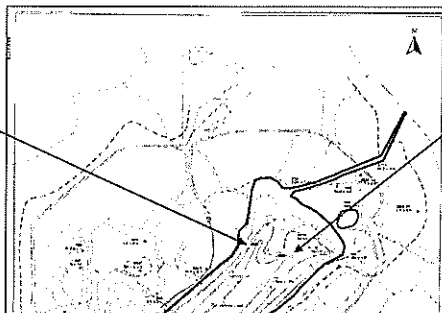


- This contaminated surface water flows from ditches on the West Valley Demonstration

WVDP Plume Mitigation Measures

Groundwater Pumping and Treatment

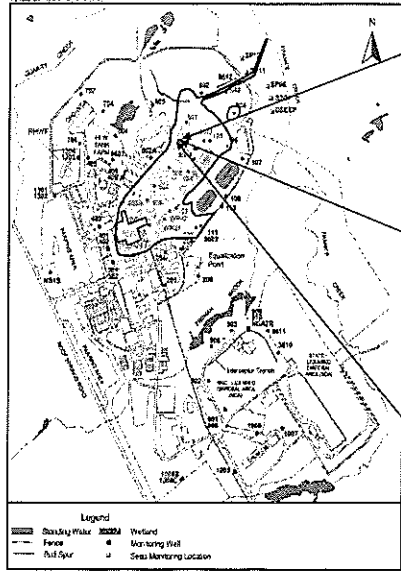
- Two extraction wells installed in 1995, another added in 1996.
- Extracted and treated about 45 million gallons



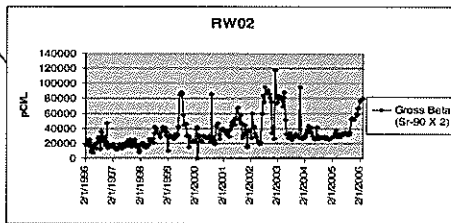
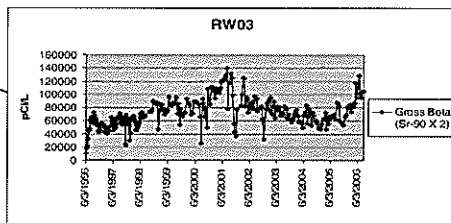
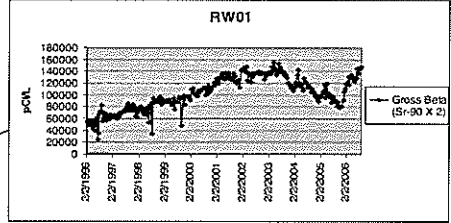
Permeable Treatment Wall

- Treatment media placed in an excavation in the sand and gravel deposit in 1999.

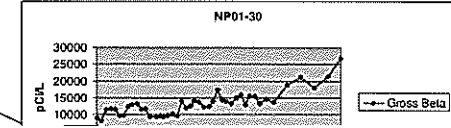
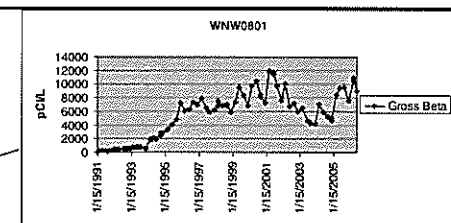
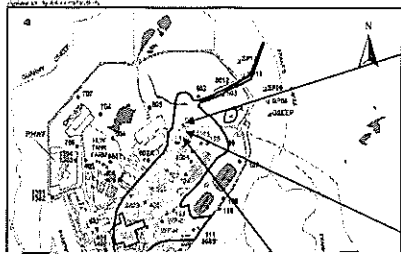
North Plateau Groundwater Data – Groundwater Extraction Wells



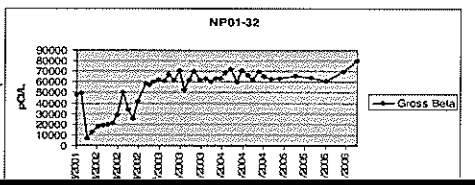
10/25/06 11 of 16 Figure A-4. Active WTP Groundwater Monitoring Locations



North Plateau Groundwater Data – Downgradient of the Groundwater Extraction Wells



North Plateau Groundwater Data – Wells Downgradient of the PTW



North Plateau Seep and Surface Water Data

