

U.S. Department of Energy Portsmouth/Paducah Project Office

PGDP Property Acquisition Study

PGDP Public Informational Meeting June 29, 2006

Presented by
Richard Bonczek, PhD
U.S. Department of Energy, Portsmouth/Paducah Project Office (PPPO)
and
Lindell Ormsbee, PhD, Director
Kentucky Research Consortium for Energy and Environment (KRCEE)



Background

 The study is being conducted in accordance with a Congressional Directive to DOE in the 2006 Energy and Water Development Appropriations Act.



Background

 The study is being conducted in accordance with a Congressional Directive to DOE in the 2006 Energy and Water Development Appropriations Act.

"Within the funds provided the Department shall undertake a study of the <u>potential</u> purchase of property or options to purchase property

Energy and Water Development Appropriation Bill, 2006 (Senate Report 109-084)

3



Background

 The study is being conducted in accordance with a Congressional Directive to DOE in the 2006 Energy and Water Development Appropriations Act.

"Within the funds provided the Department shall undertake a study of the potential purchase of property or options to purchase property that is located **above the plume of contaminated groundwater** near the facility site.

Energy and Water Development Appropriation Bill, 2006 (Senate Report 109-084)



Background

 The study is being conducted in accordance with a Congressional Directive to DOE in the 2006 Energy and Water Development Appropriations Act.

"Within the funds provided the Department shall undertake a study of the potential purchase of property or options to purchase property that is located above the plume of contaminated groundwater near the facility site. The study shall evaluate the adequate protection of human health and environment from exposure to contaminated groundwater

Energy and Water Development Appropriation Bill, 2006 (Senate Report 109-084)

5



Background

 The study is being conducted in accordance with a Congressional Directive to DOE in the 2006 Energy and Water Development Appropriations Act.

"Within the funds provided the Department shall undertake a study of the potential purchase of property or options to purchase property that is located above the plume of contaminated groundwater near the facility site. The study shall evaluate the adequate protection of human health and environment from exposure to contaminated groundwater and consider whether such purchase, when taking into account the cost of remediation, long-term surveillance, and maintenance, is in the **best interest of taxpayers**."

Energy and Water Development Appropriation Bill, 2006 (Senate Report 109-084)



Overview of Project Tasks

- Identify properties that overlie contaminated groundwater or are along Bayou and Little Bayou Creeks.
- Evaluate approaches and estimate costs to acquire property or interests in property associated with contaminated groundwater or along creeks.
- Identify cleanup assumptions presented in earlier reports.
- Develop costs for acquisition options and cleanup options and compare these costs.

7



Examples of Property Interests Being Evaluated

- Outright purchase of land.
- Purchase of property in a manner that allows the current owner to stay on the property as long as they live.
- Purchase the right to place deed restrictions on groundwater usage without purchase of land.

Such options could prevent use of contaminated groundwater.



Key Points

- Performing the Study will not take away any commitments made under the current Water Policy.
- The Study's report will not be a decision document.
- The selection of specific future cleanup actions and development of decision documents will be in accordance with applicable law and agreements, which require public participation and regulatory approval.
- The information developed by the Study will be available for use in future decision documents.
- Details concerning property acquisition, if any, would appear in the future decision documents.

9



Project Team

- Kentucky Research Consortium for Energy and Environment
- University of Kentucky College of Law
- University of Kentucky College of Agriculture
- University of Kentucky College of Engineering



Key Points

- Performing the Study will not take away any commitments made under the current Water Policy.
- The Study's report will not be a decision document.
- The selection of specific future cleanup actions and development of decision documents will be in accordance with applicable law and agreements, which require public participation and regulatory approval.
- The information developed by the Study will be available for use in future decision documents.
- Details concerning property acquisition, if any, would appear in the future decision documents.

11



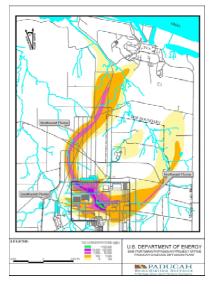
Project Tasks

- Identify properties above contaminated groundwater plumes or are along creeks
 - Properties will be evaluated as a group rather than individually
 - Initially consider those properties within the Water Policy area
 - Examples of types of property
 - Federal
 - State
 - Private



TCE Plumes at PGDP

Area Where TCE Contamination Exceeds the Maximum Contaminant Level (MCL)

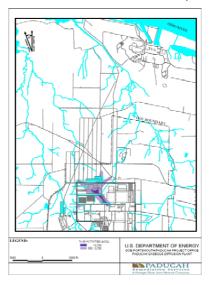


13



Tc-99 Plumes at PGDP

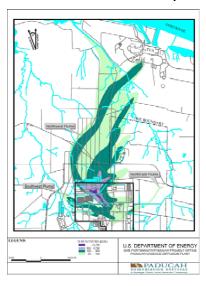
Area Where Tc-99 Contamination Exceeds the Maximum Contaminant Level (MCL)

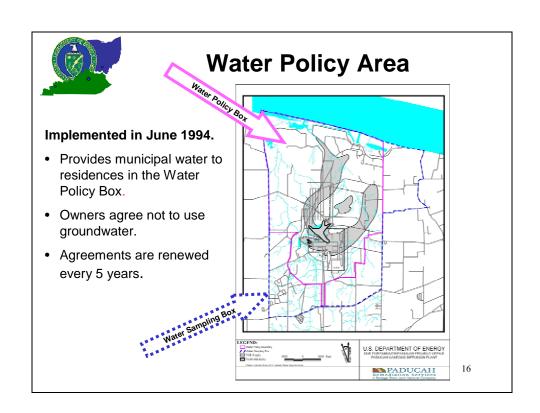




Tc-99 Plumes at PGDP

Area Where Tc-99 Contamination Has Been Detected Above 25 pCi/L







Project Tasks

- Identify property acquisition options
 - Fee simple (Outright purchase of title)
 - Life estates (Buy title; owner stays on property)
 - Easements (Purchase restrictions on use)
- Determine property acquisition costs
 - Properties will be evaluated as a group rather than individually
 - Fair market value (consider sales of comparable properties in all of McCracken County)
 - Best possible and expected future use
 - Follow appropriate federal guidelines

17



Project Tasks

- Catalogue a range of proposed remedial options and select a subset of options for evaluation
 - Groundwater Operable Unit Studies
 - Surface Water Operable Unit Studies
 - Burial Ground Operable Unit Studies
- Evaluate and predict how groundwater plumes may change over time using groundwater modeling
 - Changes in water use at the plant
 - Potential effect from clean-up actions
 - Potential effect from community use of groundwater
 - Natural phenomena



Project Tasks

- For each selected remedial option, identify which properties would need to be acquired to protect human health and the environment
- Complete an economic analysis of the potential property acquisition options
 - Determine cost of selected remedial options
 - Determine cost of property acquisition options
 - Total and compare costs

19



Project Tasks

- Public interaction support
 - Four presentations for CAB
 - (June, August, October, and November)
 - Two presentations for public
 - (June and October)
- Reporting
 - Draft report due to DOE on September 15, 2006
 - Final report due to DOE on October 31, 2006



Upcoming Activities

- August 15 Update Due to DOE-HQ
- August 17 Update to CAB
- September 15 Draft Report Due to PPPO
- October 19 Present Draft Results to CAB
- October Second Public Informational Meeting
- October 31 Final Report Due to PPPO
- November 16 Present Results to CAB
- November 19 Report Due to Congress

21



Contacts

Please send your comments or questions to:

- Dave Dollins
 - Email: Dave.Dollins@lex.doe.gov
 - Phone: 270/441-6819
- Rich Bonczek
 - Email: Rich.Bonczek@lex.doe.gov
 - Phone: 859/219-4008
- Laura Schachter
 - Email: Laura.Schachter@lex.doe.gov
 - Phone: 859/219-4010



PGDP Property Acquisition Study

Questions and Comments