



# **PGDP Property Acquisition Study**

**PGDP Citizens Advisory Board  
June 15, 2006**

Presented by Lindell Ormsbee,  
Director; Kentucky Research Consortium for Energy and  
Environment (KRCEE)



# Congressional Directive to DOE

*“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)*



# Project Mission

Evaluate a range of remedial alternatives relative to the purchase of properties impacted or potentially impacted by contamination from the PGDP. Evaluation criteria are:

- Protection of public health and the environment and
- Cost of implementation.

*Information developed will be used in decision documents in a manner consistent with applicable requirements and procedures.*



# Project Tasks/Responsibilities

- **Task #1:**
  - Identification of property overlying and immediately adjacent to the contaminated groundwater plumes and the potential surface water contaminant pathways near the Paducah facility.
  - Performed by KRCEE, UK Ag Economics, UK Ag Engineering, and UK Civil Engineering.
- **Task #2:**
  - Delineation of approaches for either property purchase, or obtaining options to purchase, the properties identified in Task #1.
  - Performed by UK College of Law.



# Project Tasks/Responsibilities

- **Task #3:**
  - Development of cost estimates to acquire interests in property based upon the approaches developed for purchasing the property/options as part of Task 2.
  - Performed by KRCEE, UK Ag Economics.
- **Task #4:**
  - Completion of sensitivity analyses to determine groundwater flow paths that might result upon cessation of enrichment operations.
  - Performed by KRCEE and UK Civil Engineering.



# Project Tasks/Responsibilities

- **Task #5:**
  - Identification of current remedial action assumptions for sources contributing contamination to groundwater and surface water migration pathways and changes in assumptions that could result from implementation of sustainable restrictions of human exposure to contaminated media.
  - Performed by KRCEE.
- **Task #6:**
  - Identification of conditions necessary to render property acquisition cost-effective while still ensuring protection for human health and the environment.
  - Performed by KRCEE



# Project Tasks/Responsibilities

- **Task #7:**
  - Completion of an economic analysis of the potential purchase options.
  - Performed by KRCEE, UK Ag Economics.
- **Task #8:**
  - Public interaction support.
    - Three presentations for CAB (May, July, September).
    - Two presentations for public (June and October).
  - Performed by KRCEE.
- **Task #9:**
  - Reporting.
    - Draft report due September 15, 2006.
    - Final report due October 31, 2006.
  - Performed by KRCEE.



# Study Schedule

ID	Task Name	Start	End	Duration	Mar 2006		Apr 2006			May 2006			Jun 2006			Jul 2006			Aug 2006			Sep 2006			Oct 2006						
					3/19	3/26	4/2	4/9	4/16	4/23	4/30	5/7	5/14	5/21	5/28	6/4	6/11	6/18	6/25	7/2	7/9	7/16	7/23	7/30	8/6	8/13	8/20	8/27	9/3	9/10	9/17
1	Project Scoping	3/15/2006	5/19/2006	9.60w	↔ KRCEE																										
2	Project Kickoff	5/19/2006	5/19/2006	0.04w	↕ PROJECT TEAM & DOE																										
3	Task #1 Identification of properties	5/19/2006	7/12/2006	7.80w	↔ UK Ag Engr, KRCEE																										
4	Task #2 Delineation of property of acquisition options	5/19/2006	7/27/2006	10w	↔ UK Law																										
5	Task #3 Development of cost estimates	5/19/2006	7/13/2006	8w	↔ UK BE & UK Ag Ext																										
6	Task #4 Completion of groundwater sensitivity analyses	5/19/2006	7/6/2006	7w	↔ UKCE																										
7	Task #5 Identification of remedial action assumptions	5/19/2006	6/8/2006	3w	↔ KRCEE																										
8	Task #6 Identification of cost-effective property acquisition conditions	6/20/2006	7/17/2006	4w	↔																										
9	Task #7 Completion of economic analysis of potential purchase options	7/17/2006	8/11/2006	4w	↔																										
10	Task #8 Public interaction support	4/20/2006	9/21/2006	22.20w	↔ KRCEE & DOE PPPO																										
11	Task #9 Reporting	5/19/2006	10/31/2006	23.60w	↔																										
12																															
13	Brown = UK Ag Engineering	3/15/2006	3/15/2006	0w	◆																										
14	Gray = UK Ag Econ	3/15/2006	3/15/2006	0w	◆																										
15	Cyan = KRCEE	9/5/2005	9/5/2005	0w																											
16	red = Project Team	9/5/2005	9/5/2005	0w																											
17	green = UK Law	9/5/2005	9/5/2005	0w																											
18	yellow = UK Civil Engineering	9/5/2005	9/5/2005	0w																											
19	Blue = DOE PPPO	9/5/2005	9/5/2005	0w																											



# Upcoming Activities

- **Public Briefing**
  - June 29, 2006.
  - Place to be announced.
- **CAB Briefing #2 – Status Update**
  - July 20, 2006.