



Paducah Gaseous Diffusion Plant  
Citizens Advisory Board

November 19, 2009

## Agenda for the November Board Meeting

### Chair

Bobby Ann Lee

### Chair-Elect

Judy Clayton

### Board Members

John Anderson

Anna Brewer

Allen Burnett

Robert Coleman

Jonathan Hines

Shirley Lanier

Margaret Morgan

Dianne O'Brien

Elton Priddy

Alex Roman

Mark Sullivan

Don Swearingen

Ralph Young

### Board Liaisons

Reinhard Knerr

*DOE DDFO*

Buz Smith

*DOE Federal Coordinator*

Ed Winner

*Division of Waste*

*Management*

Turpin Ballard

*Environmental Protection*

*Agency*

Mike Hardin

*Fish and Wildlife Resources*

Stephanie Brock

Rob Gresham

*Radiation Health Branch*

### Support Services

EHI Consultants, Inc.

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[www.pgdpcab.org](http://www.pgdpcab.org)

[info@pgdpcab.org](mailto:info@pgdpcab.org)

**6:00**

Call to order, introductions

Review of agenda

**DDFO's Comments**

-- 20 minutes

**Federal Coordinator Comments**

-- 5 minutes

**Liaison Comments**

-- 10 minutes

**Subcommittee Chair Comments**

-- 10 minutes

**Presentations**

-- 10 minutes

**Administrative Issues**

-- 30 minutes

**Public Comments**

-- 15 minutes

**Final Comments**

**Adjourn**

Solving Cleanup Challenges Through Risk Reduction

# Progress at the Paducah Gaseous Diffusion Plant



## Presentation for Paducah CAB

Reinhard Knerr, Paducah Site Lead

November 17, 2009



**EM** Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

# Presentation Highlights

**C-400 Interim Remedial Action**



**Inactive Facilities**



**Waste Disposal Options**



**Waste Removal Status**

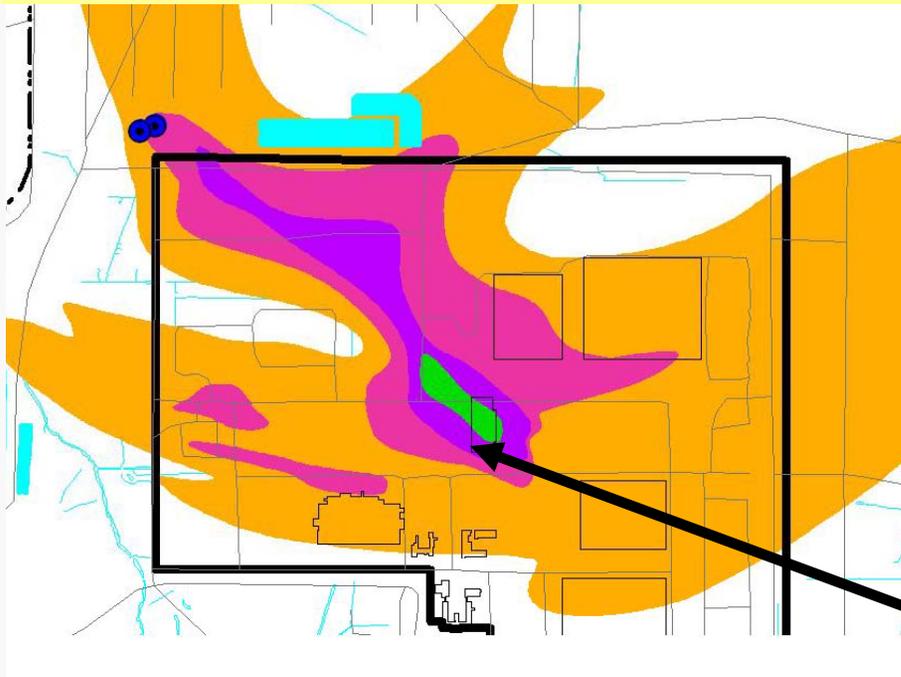


**Status of Other Projects**

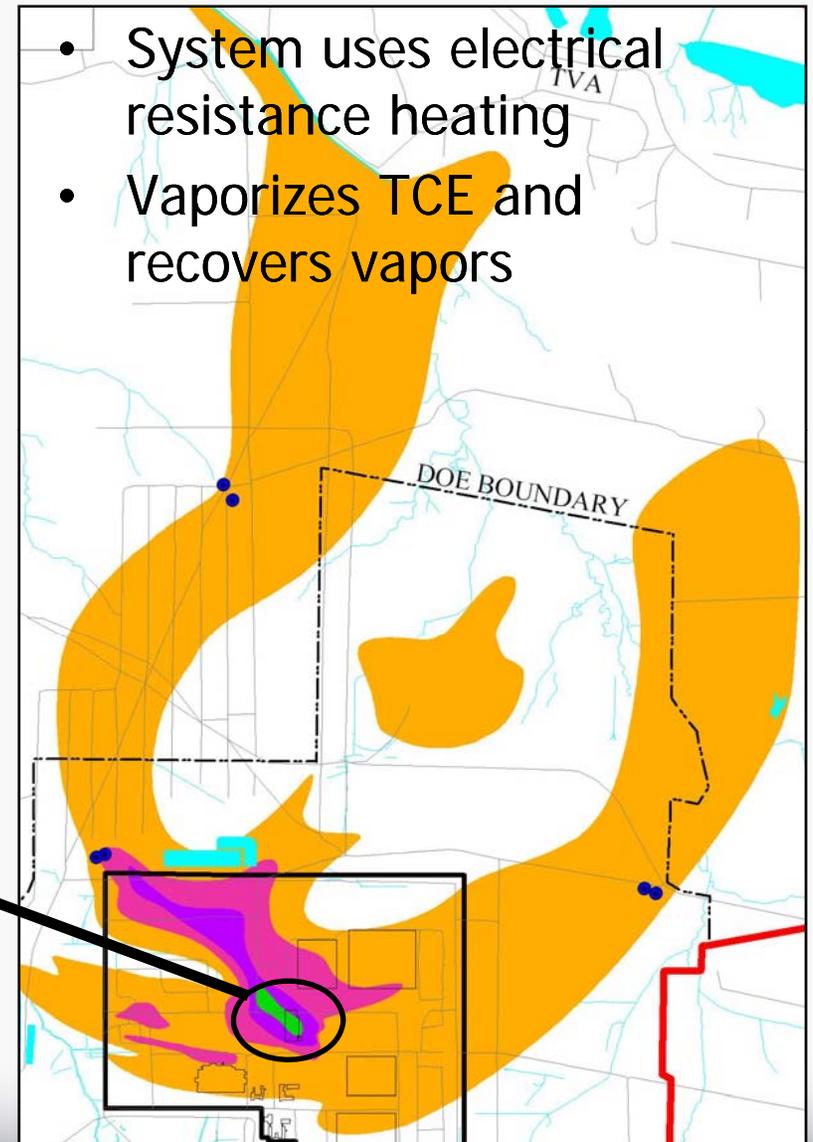


# C-400 TCE Source Reduction - Background

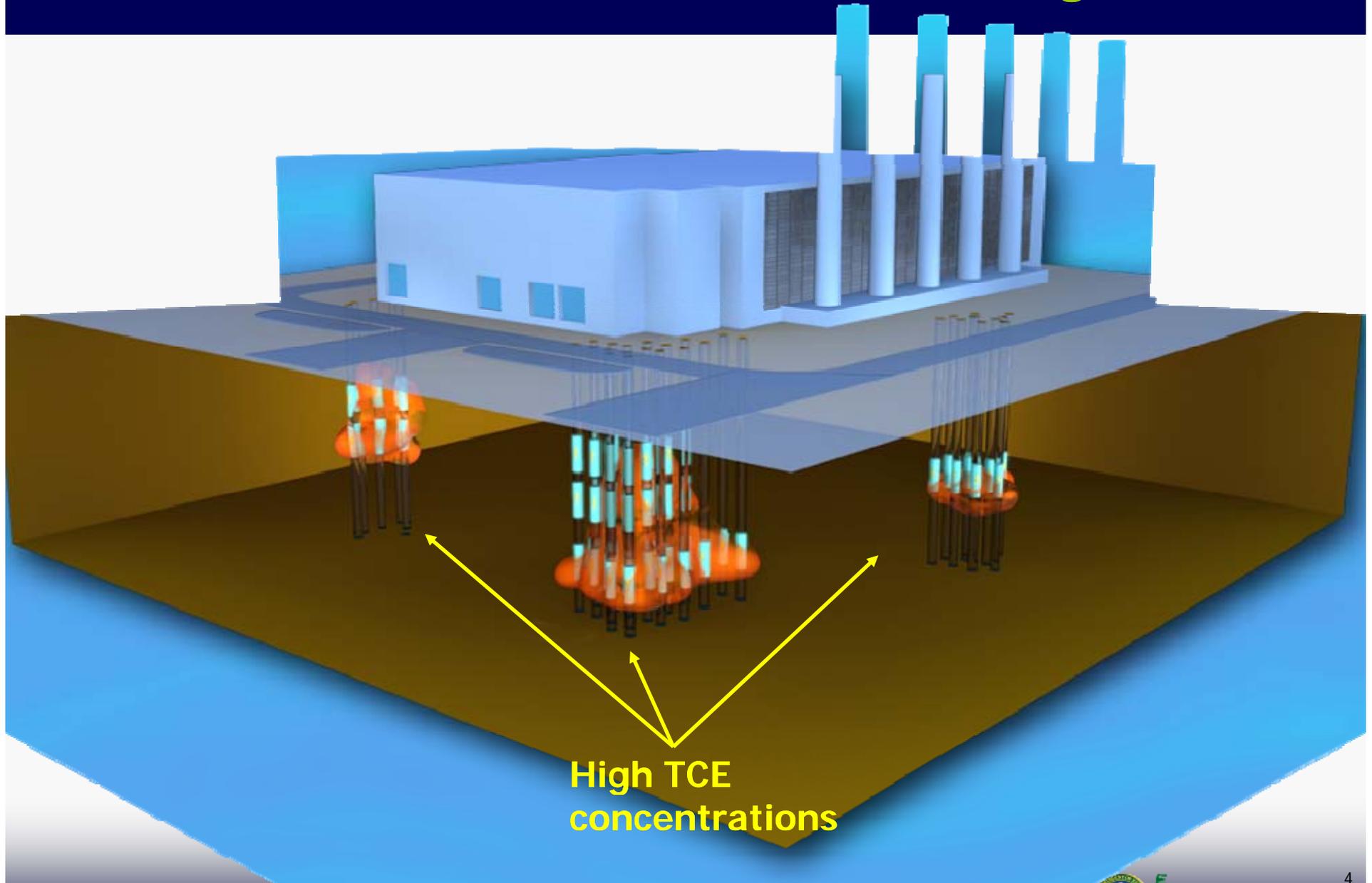
Action targets the largest off-site groundwater contamination plume in DOE complex



- System uses electrical resistance heating
- Vaporizes TCE and recovers vapors



# *C-400 TCE Source Reduction - Background*



**High TCE  
concentrations**

# *C-400 TCE Source Reduction - Status*



System testing began last week

# Accelerated D&D - Background



Paducah has received \$78 million in additional funding to accelerate the removal of 3 facilities:

**C-410 Feed Plant**

**C-340 Metals Plant**

**C-746-A East End Smelter**

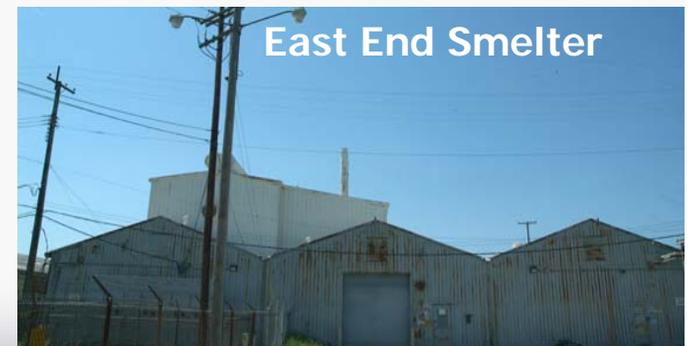
**Work has begun in two facilities**



**Metals Plant**



**Feed Plant**



**East End Smelter**

## *Accelerated D&D – Background*



- **Rapidly increasing remediation workforce**
  - 475 employees on April 30, 2009
  - 207 hired in past six months
  - Need for additional hires is being evaluated
- **Training and deploying new workers**
- **Accelerating scope of work to reduce D&D time from 2 years to 9 months**

# Accelerated D&D – Feed Plant



**Scope - Accelerate the ongoing dismantlement and disposal of major systems and complete structural demolition of the complex to slab**

- Additional personnel now working in the facility
- Removal of instrument and process lines is ahead of schedule



- Loose material removal completed

# Accelerated D&D – Metals Plant



**Scope -  
Accelerate  
dismantlement  
and disposal of  
major systems  
contained within the  
complex and  
complete structural  
demolition of the  
C-340-D and C-340-E  
Buildings to slab**



Removing debris to clear the way for D&D work

- Elevator refurbishment to support D&D underway
- Waste characterization has begun
- Asbestos abatement scheduled to start week of November 16



# Accelerated D&D – East End Smelter



**Scope -  
Accelerate  
dismantlement  
and disposal of  
systems and smelter  
equipment and  
complete structural  
demolition to slab**

- Field mobilization has begun
- D&D work scheduled to begin in December



# Waste Disposal Options Feasibility Study

## Threshold Criteria

### WASTE DISPOSAL ALTERNATIVES

NO CHANGE	ON-SITE	OFF-SITE
		
Continue existing process to dispose of waste on a project-by-project basis	Dispose of waste on-site in a new facility on DOE land	Ship waste to other states
Protective of human health and the environment? <b>✓ YES</b>	Protective of human health and the environment? <b>✓ YES</b>	Protective of human health and the environment? <b>✓ YES</b>
Meets applicable federal and state laws / regulations? <b>✓ YES</b>	Meets applicable federal and state laws / regulations? <b>✓ YES</b>	Meets applicable federal and state laws / regulations? <b>✓ YES</b>
<b>1</b>	<b>2</b>	<b>3</b>

**ALL MEET THRESHOLD CRITERIA**

- Project will evaluate how to dispose of future wastes generated
  - By CERCLA cleanup
  - By GDP D&D
- Two previous Public Information Exchanges
  - November 2008 at Cherry Civic Center
  - March 2009 at Maiden Alley Cinema

# Waste Disposal Options Feasibility Study

## Welcome!

**Thanks for  
taking time**  
to come to tonight's  
public information  
exchange about  
the future of the  
Paducah site.

Please visit the exhibits and let us know your suggestions and comments before you leave.

If you want more information on any DOE project, please ask a staff member for assistance.

*Please let us know what you think before you leave!*



- Work on Feasibility Study continues
- Plans for next public meeting are being finalized
- CAB subcommittee has provided input for planned exhibits; comments being incorporated

# Waste Removal

Disposition of 615,000 ft<sup>3</sup> of waste from storage areas



Completed characterization of DMSA material ahead of milestone



Key regulatory milestone met

# Waste Removal



Final shipment of  
legacy waste  
scheduled for  
December 2009

## *Other Projects*

### **Burial Grounds Operable Unit Feasibility Study**

- D1 submittal to EPA/KY scheduled for December 29

### **Surface Water Removal Action (Hot Spots)**

- Mobilization underway; removal work starts next month

### **Soils Removal Action**

- Mobilization underway; removal work starts next month

### **Southwest Plume Focused Feasibility Study**

- Document revisions are in process
- Proposed Plan will follow approval

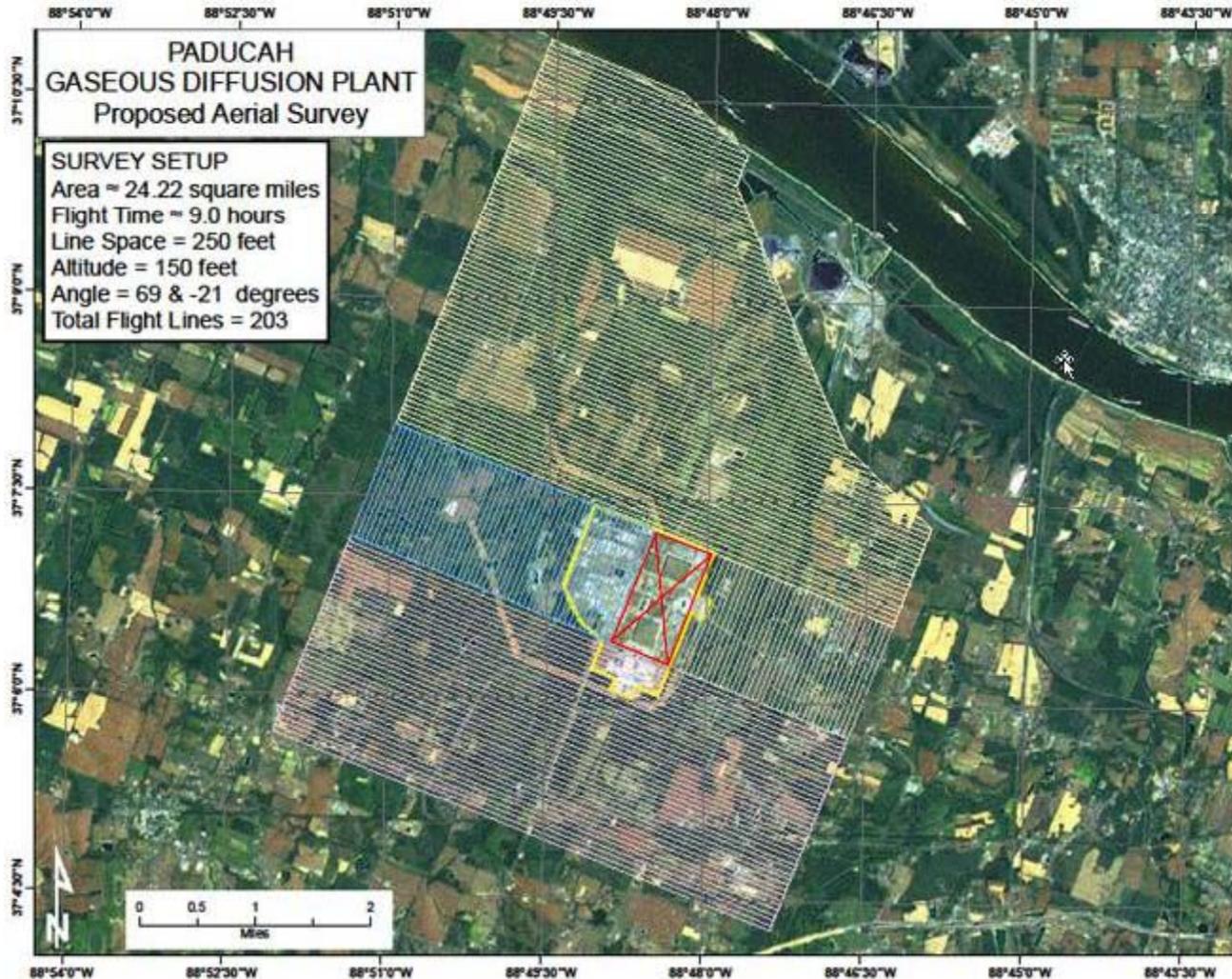
# *New Groundwater Monitoring Wells*



- 36 new groundwater monitoring wells in 25 days
- 33 more wells to be installed



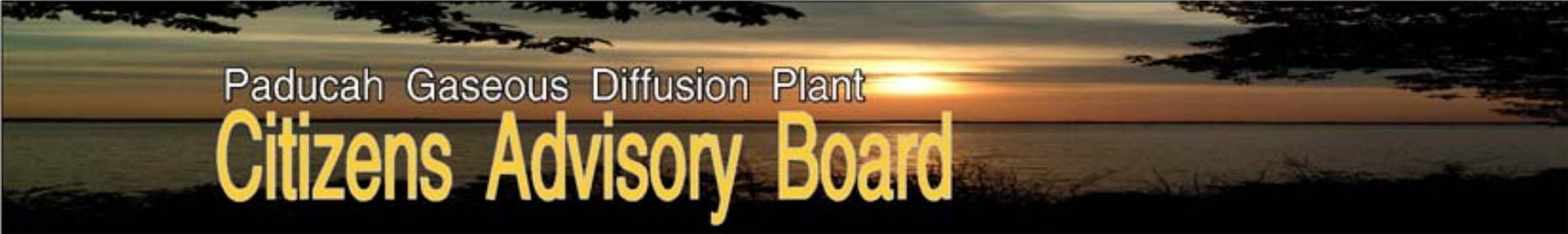
# Site Radiological Flyover



- Flyover completed November 9
- Preliminary data shows no unexpected radiation readings
- Final data expected in December



**DOE Portsmouth/Paducah Project Office**



Paducah Gaseous Diffusion Plant

# Citizens Advisory Board

## Fall Chair's Report Activities of the Citizens Advisory Board

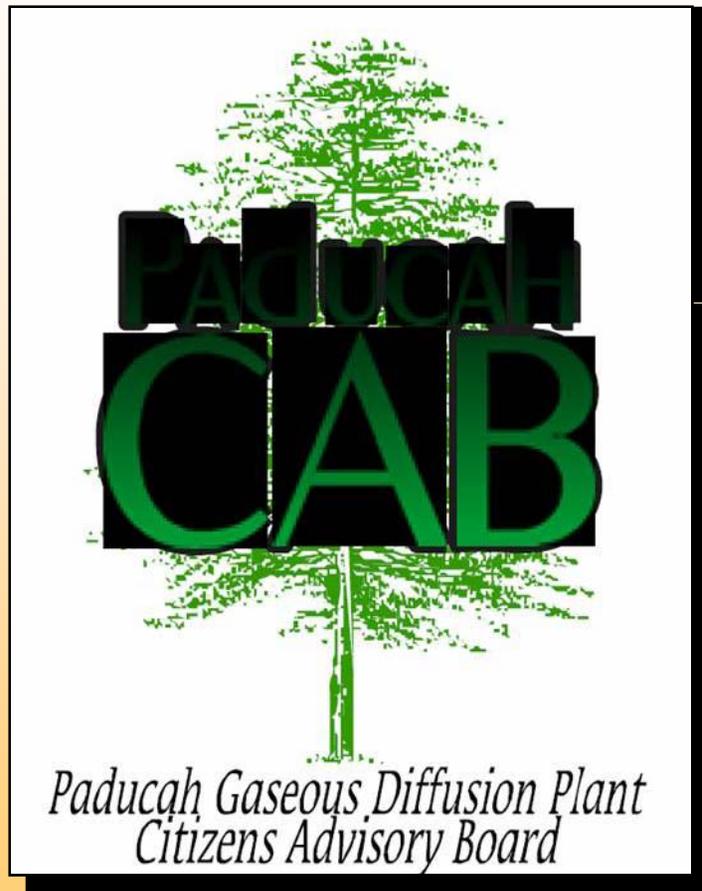
Judy Clayton, Chair  
Paducah Citizens Advisory Board  
November 19, 2009

# Paducah Gaseous Diffusion Plant Citizens Advisory Board



***The Paducah Citizens Advisory Board (CAB) is a stakeholder group that provides advice and recommendations to the DOE on environmental cleanup issues at the Paducah Gaseous Diffusion Plant (PGDP) site***

Paducah Gaseous Diffusion Plant  
**Citizens Advisory Board**



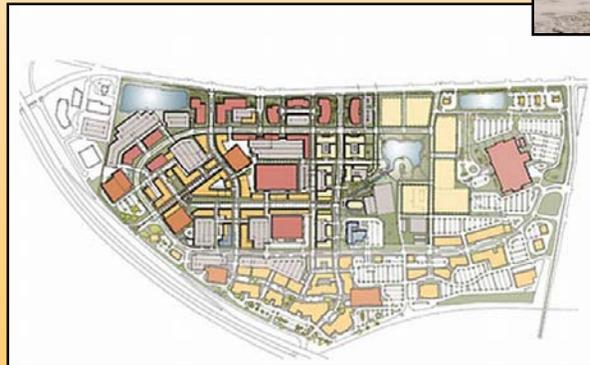
**2009-2010  
ANNUAL WORK PLAN  
September 2009**

*The primary purpose  
of the CAB annual  
retreat is to develop  
the coming year work  
plan*

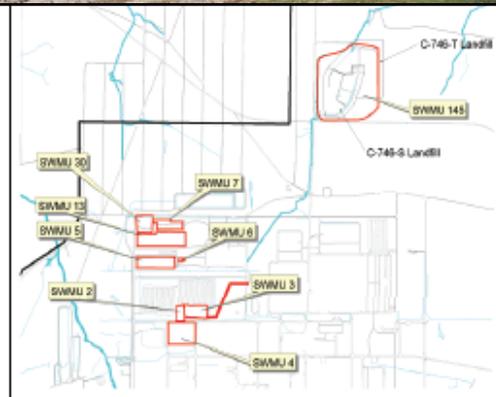
# Paducah Gaseous Diffusion Plant Citizens Advisory Board



Waste Disposal Options



Future Land Use



Names & Locations of Burial Grounds

***Major decisions this year are related to future waste disposal, burial grounds, and future land use at the site***

Paducah Gaseous Diffusion Plant  
**Citizens Advisory Board**



**EM** Environmental Management

safety ❖ performance ❖ cleanup ❖ closure



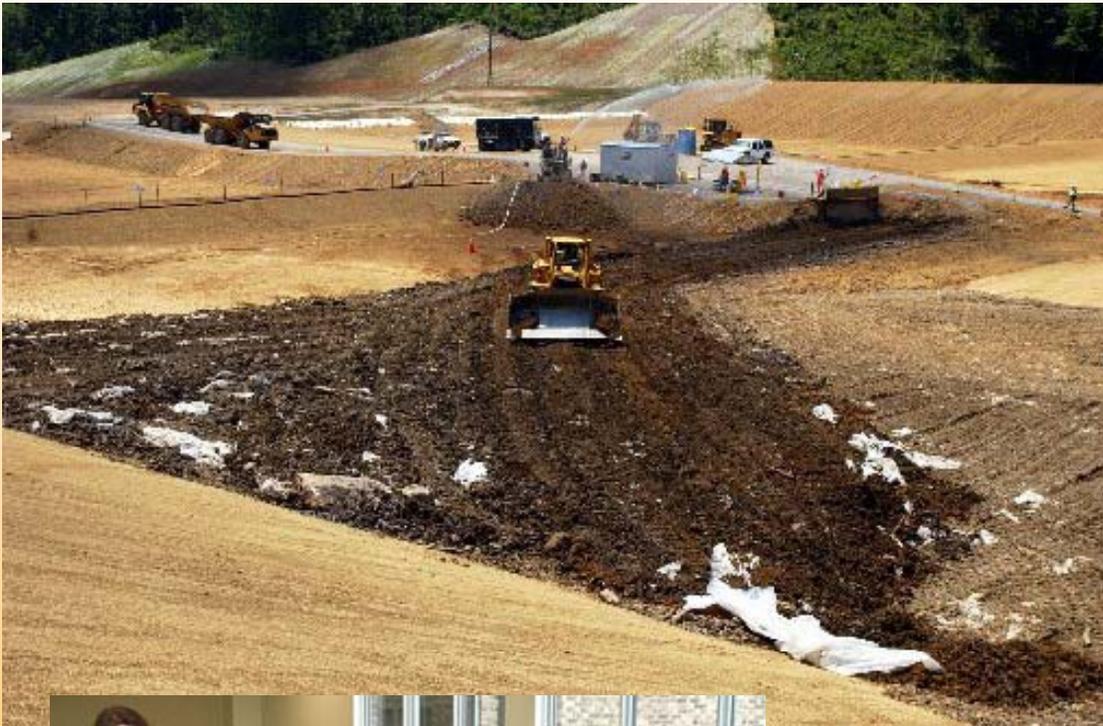
***DOE's National SSAB  
Chairs Meeting was  
held in September to  
provide education and  
information to SSAB  
members from the  
DOE complex and to  
seek input in complex  
wide decisions***

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**DOE's  
Intergovernmental  
Affairs Meeting brings  
together various forms  
of local, state and  
national governments  
to discuss impacts  
DOE's environmental  
cleanup**

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*The Waste Subcommittee toured the Oak Ridge Waste Cell and met with representatives from the decision making organizations regarding the construction and operations of an on site waste cell*

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**Citizens Advisory Board**



***The Portsmouth Site Specific Advisory Board is home to a sister site that faces some of the same cleanup challenges as Paducah***

Paducah Gaseous Diffusion Plant

# Citizens Advisory Board

