



# DDFO Presentation February 2009

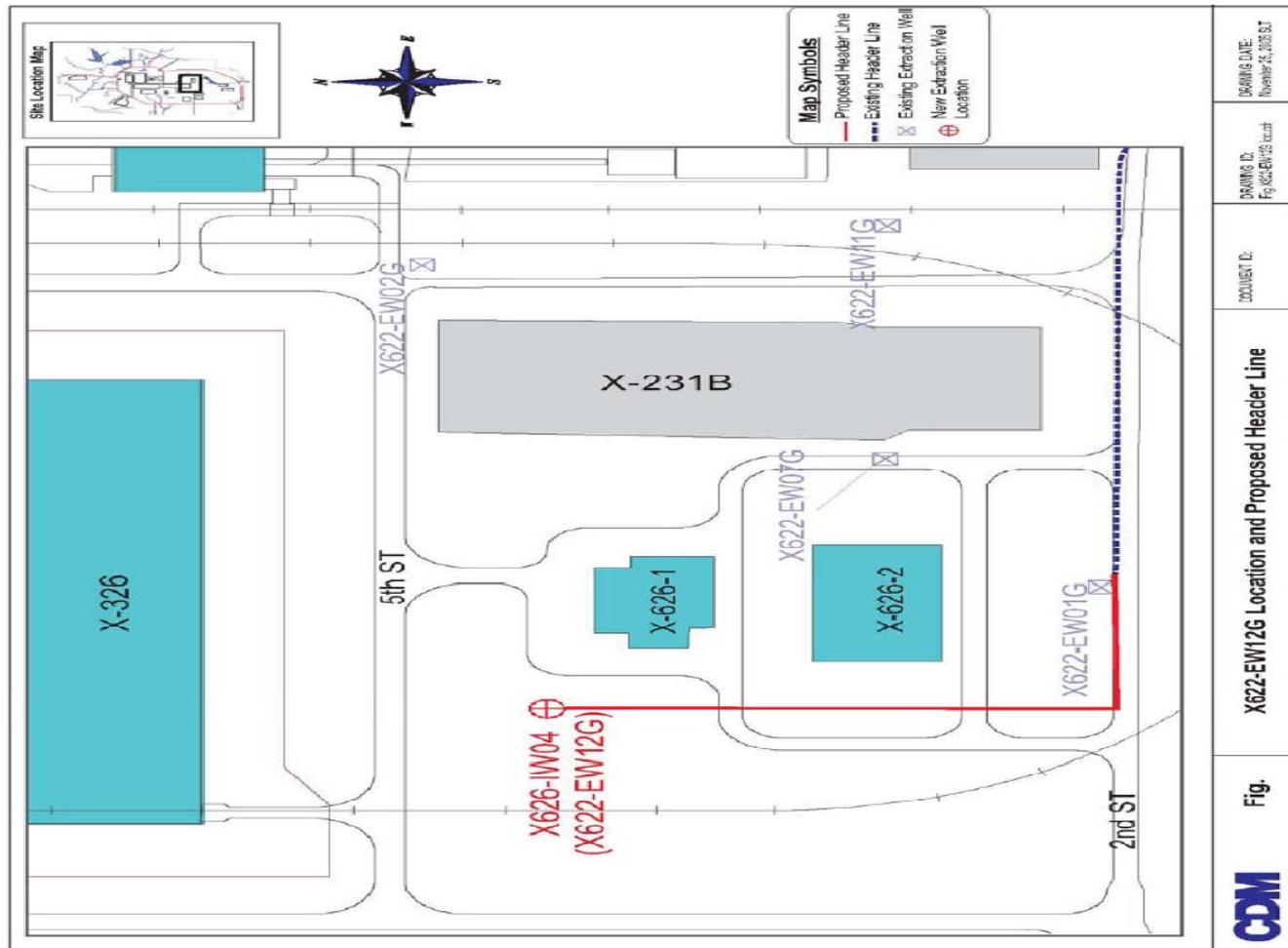
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# X-326 Extraction Well Installation Project

- In response to Ohio EPA comments on first Five-Year Review for 5-Unit Groundwater Investigative Area, DOE is installing an additional extraction well near monitoring well X326-09G to further augment the remedy in place.
- Planning and work package development is completed.
- Limited mobilization activities have been initiated.
- Well expected to be operational by April 30, 2009.

# X-326 Extraction Well Installation Project

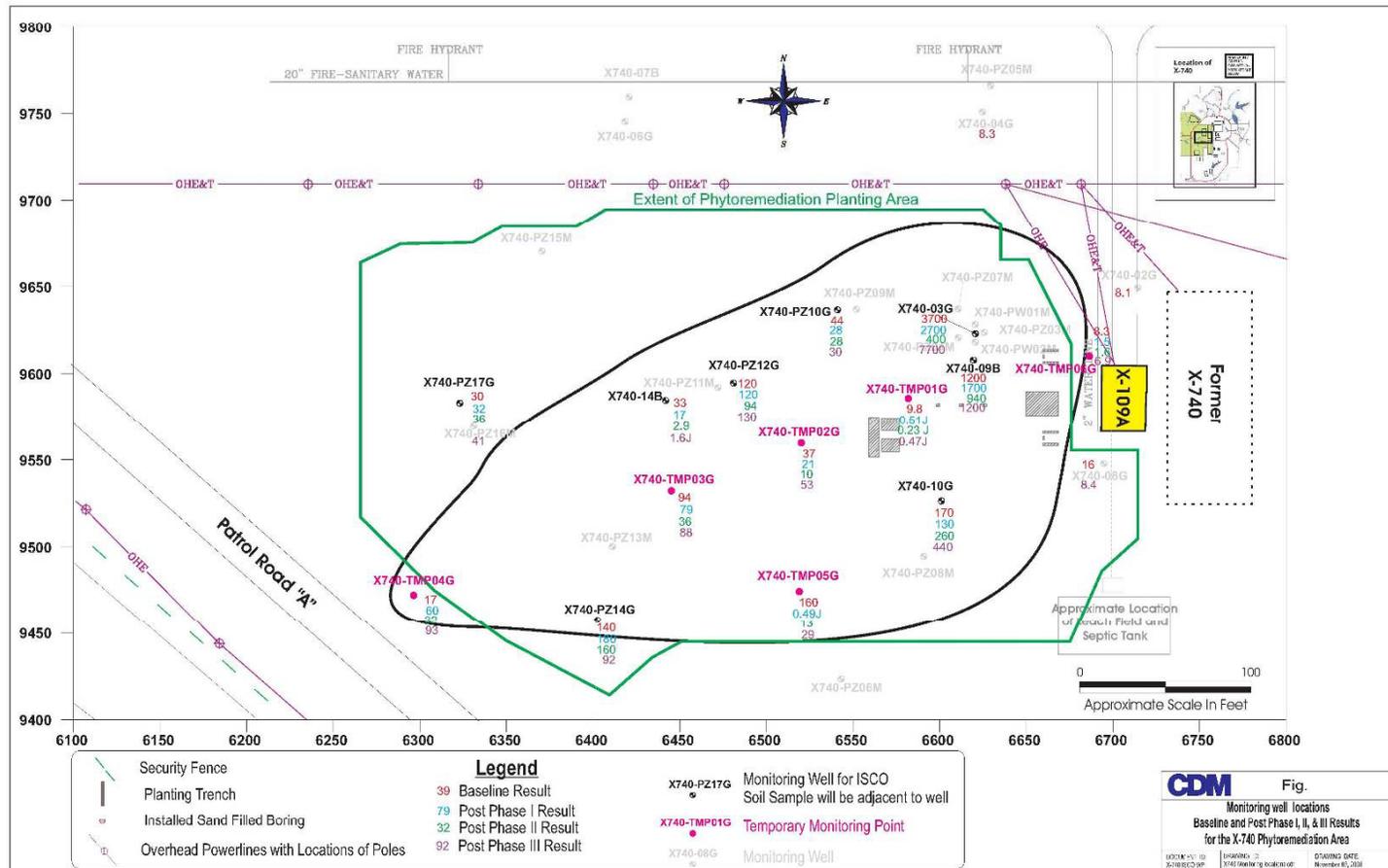


# Status of X-740 Groundwater Plume Area

- Performed groundwater sampling January 2009, and will sample again March 2009.
- Once results are received, the data will be reviewed with Ohio EPA before the next injection event in Spring 2009.
- The January 2009 groundwater samples were collected the week of January 26, 2009. Results expected late February 2009.

# X-740 Groundwater Plume Area

## January 2009 Baseline, Post Phase I, II, and III Groundwater Results



# X-749/X-120 Optimization Project

- Quarterly sampling results for the 3 new permanent off-site monitoring wells completed in the 4<sup>th</sup> quarter 2008 indicate contaminant levels were non-detect for TCE in each of the wells.
- The seven new groundwater monitoring wells installed at and around the X-749 Landfill were sampled for VOCs and Tc-99 on October 20, 2008.

# X-749/X-120 Optimization Project

- Preliminary sample results indicate elevated TCE levels existed in one of the monitoring wells (X749-120G). The monitoring wells will be sampled 2<sup>nd</sup> Quarter 2009 to further evaluate the TCE levels.
- Refinements to the X-749/X-120 groundwater flow and mass transport model have commenced. The model refinements will directly support remedy evaluation and optimization for the plume.

# X-344C Deferred Unit Investigation

- An Investigation Work Plan was submitted to Ohio EPA on November 24, 2008.
- Preliminary comments were discussed with Ohio EPA on December 8, 2008.
- A revised Work Plan was submitted to Ohio EPA on January 5, 2009. Updated Work Plan was provided to DOE on February 5, 2009.



X-344C HF Storage Building Area After  
Building Removal

# 7-Unit Groundwater Plume Investigation

- Investigation work plan submitted to Ohio EPA on November 24, 2008.
- Purpose of investigation is to identify potential source areas that may be contributing to Quadrant II Groundwater Investigative Area.
- Ohio EPA provided comments on January 14, 2009. A discussion with Ohio EPA was held on February 5, 2009 and revised work plan is expected to be re-submitted in mid-February.

# X-770 Concrete Pad Removal / Investigation Status January 2009

- Field investigation work began on September 24, 2008, to sample soils beneath the concrete pad remaining from the X-770 building demolition. Sampling activities were completed on October 2, 2008.
- A meeting was conducted on November 18, 2008, with Ohio EPA to review sampling results and it was decided 13 additional sampling locations were needed to delineate VOC contamination.
- Sampling activities for the 13 additional locations were started on December 16, 2008 and completed on December 17, 2008.
- Results for the 13 additional locations were received and a meeting was held on February 5, 2009, to discuss data with Ohio EPA.



# Small Cylinders Phase II Project

- 118 cylinders transferred to USEC – 102 returned; 32 awaiting processing.
- Phase II cylinder stabilization currently scheduled to begin in May 2009.
- Once stabilized, waste will be shipped to NTS
- Project scheduled for completion by end of September 2009.



# Cleanout of DMSAs 11&12 in X-326 Building

- Initiating Cleanout of DOE Material Storage Areas (DMSAs) 11&12.
  - Completed 220 of 250 Non-Destructive Assays (NDA).
  - Completed work packages for Phase I disposition and oil draining.
  - PCB sampling is 50% complete.
  - September 2009: Projected completion date.
  - Transportation Security approved (Jan. 5, 2008).
  - Submitted Processing Security Plan (Level C&D).
  - Termination of Safeguards Request submitted.

# X-345 Building Cleanout

- LPP provided project briefing to SSAB D&D Subcommittee on February 2, 2009.
- Field mobilization on March 10, 2009, for HAISP.
- Field mobilization on April 28, 2009, for HASA.
- Waste shipments to start March 31, 2009, by truck, to Nevada Test Site.
- Completion of both work packages by September 15, 2009.





## Portsmouth/Paducah Project Office



# Backup Slide

# 7-Unit Groundwater Plume Investigation Status January 2009

- The 7-Unit Groundwater Plume is located beneath several buildings inside the Quadrant II area of the gaseous diffusion plant. Sumps in the X-700 and X-705 building basements are currently being pumped and groundwater is being treated at the X-627 Groundwater Treatment Facility.

