X-701B Project

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U.S. Department of Energy

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Portsmouth
Site Specific
Advisory Board

X-701B Independent Review

Review Team Objectives:

•Objective 1: The Department of Energy requested an Independent Technical Review of the X-701B technology to determine if this treatment method was an effective technology.

•Objective 2: The review team would provide alternative treatment options if the team's findings determined the current technology is not an effective treatment method.

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X-701B Independent Review

Review Team Members:

Thomas O. Early – GeoConsultants, LLC, environmental geochemistry
Brian B. Looney – Savannah River National Lab, environmental clean-up methods
Joe Rossabi – Redox Tech, LLC, soil and groundwater contamination
Karen L. Skubal – DOE Groundwater and Soil Remediation, dechlorination processes
Claude Magnuson – DOE Groundwater and Soil Cleanup Technology
Carol Eddy-Dilek – Savannah River National Lab, environmental clean-up methods
Jed Costanza – U.S. Environmental Protection Agency, groundwater clean-up technologies

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Remedial Action Objectives for X-701B

- Achieve Preliminary Remediation Goals (PRGs) when practicable
- Prevent migration of chemical of concern (COCs) from groundwater into surface water
- Prevent exposure of future off-site residents to COCs
- Prevent exposure of on-site personnel to COCs

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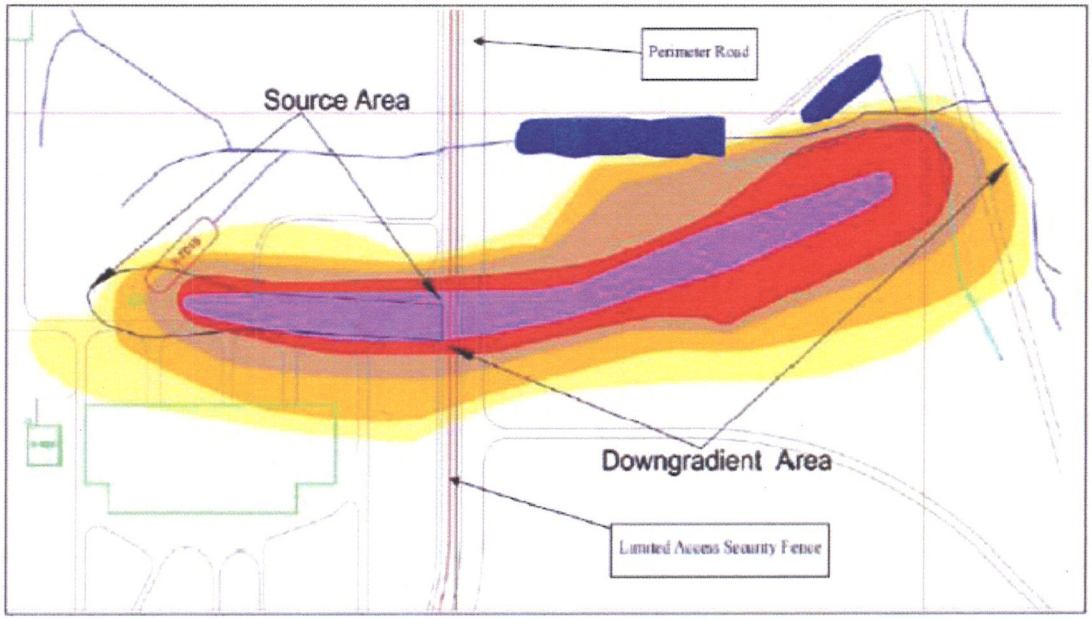
X-701B Plume



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X-701B Plume

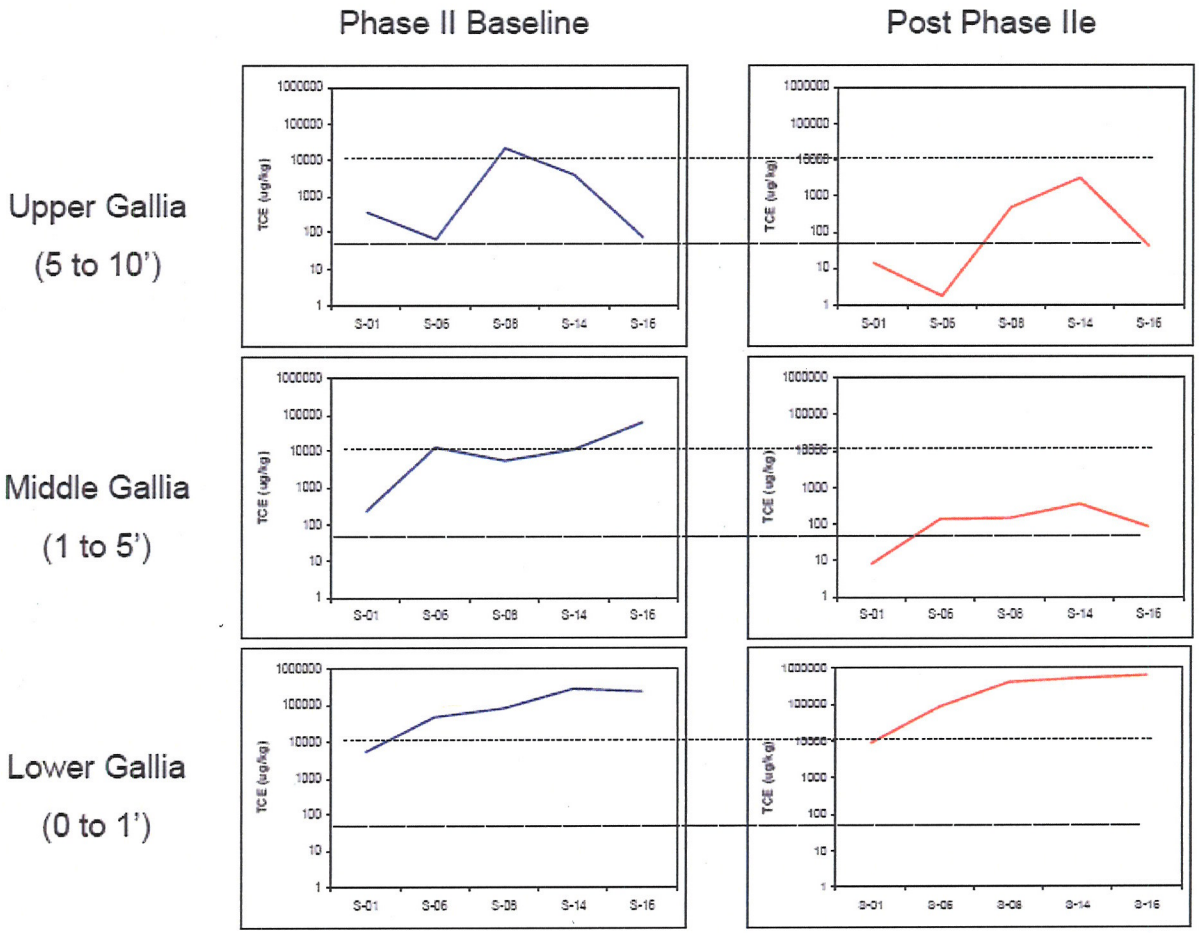

Figure 7. Soil concentration transects in the upper middle and lower Gallia from baseline data and samples collected after five rounds of Phase II oxidant injection. Guidelines are provided at approximately 10,000 µg/Kg and at the soil PRG of 48 µg/Kg

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