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Five-Year Review for South Air Force Research Laboratory (AFRL) Sites 37, 120, 133, and 321

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South AFRL Five-Year Review



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- **The U.S. EPA is required to review the remedies at sites where hazardous substances remain at levels that potentially pose unacceptable risk**
 - Such reviews are conducted at least every five years
 - The Air Force is conducting a five-year review for South AFRL Sites because the Record of Decision for the area was signed in September 2007
 - The U.S. EPA will provide concurrence with the protectiveness determination in the review or will develop its own determinations



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Five-Year Review Process



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- **Components include:**
 - Community involvement and notification
 - Document review
 - Data review and analysis
 - Site inspections
 - Interviews



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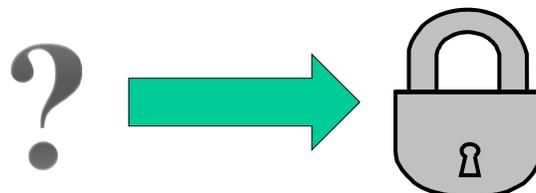


Questions Used to Determine Protectiveness



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- Is the remedy functioning as intended?
- Are the exposure assumptions, toxicity data, cleanup levels, and Remedial Action Objectives still valid?
- Has any other information come to light that could call into question the protectiveness of the remedy?



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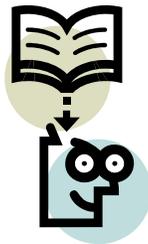


Five-Year Review Report



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- Once the Five-Year Review Report is signed and placed in the local Information Repositories in September 2012, the Air Force will notify community members that the review is complete and the report is available



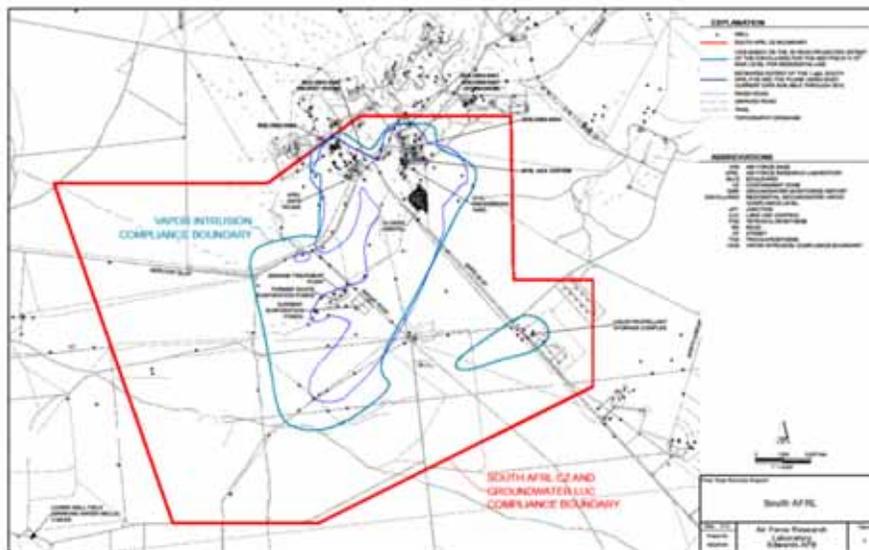
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South AFRL



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South AFRL Remedy



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- **A groundwater monitoring program was put in place to confirm groundwater contamination does not migrate outside an established area called the containment zone (CZ)**

- The geology at South AFRL is fractured granitic bedrock, and remediation of groundwater contaminants within the bedrock has proven to be technically infeasible



- The main contaminants of concern are tetrachloroethene (PCE) and trichloroethene (TCE), two solvents historically used to clean engine and metal parts in support of rocket propulsion activities conducted at South AFRL

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South AFRL Remedy



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- **Land use controls (LUCs) prohibit the Air Force from installing new drinking water wells or extracting groundwater from inside the CZ**
 - The LUCs also require the Air Force to maintain access to the groundwater monitoring wells so that contaminant concentrations can be monitored
- **A program was initiated to evaluate if soil vapor containing contaminants volatilized from the groundwater affects the indoor air inside buildings (vapor intrusion pathway)**
 - LUCs were put in place to require that any new buildings constructed in areas that lie over the highest groundwater concentrations (i.e., inside the vapor intrusion compliance boundary) include engineering controls to minimize the intrusion of subsurface soil vapor into the building

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Contact Information



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- **The public may contact Mr. Gary Hatch, Public Affairs, with any questions or comments related to the South AFRL Five-Year Review**
 - Phone: (661) 277-8707
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Questions or Comments?