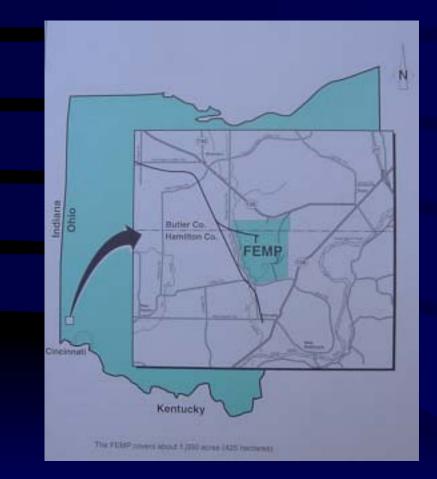
Groundwater Remedial Actions

Richard J. Abitz Project Geochemist Fluor Fernald, Inc. 513 648-4629 rich.abitz@fernald.gov

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Fernald site produced U metal for 40 years

U is the primary contaminant in soil and groundwater

CERCLA site being restored to recreational land use

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SOUNDARD

Plant 1 (dismantied)
Plant 2:3
Plant 2:3
Plant 2:4 (dismantied)
Plant 7 (dismantied)
Plant 7 (dismantied)
Plant 7 (dismantied)
Plant 1 (dismantied)
On Site Dispessit Facility (Cette 1,2,3)
Radroad
Material Handling Building Railcar
Londout Building
Waste Pits

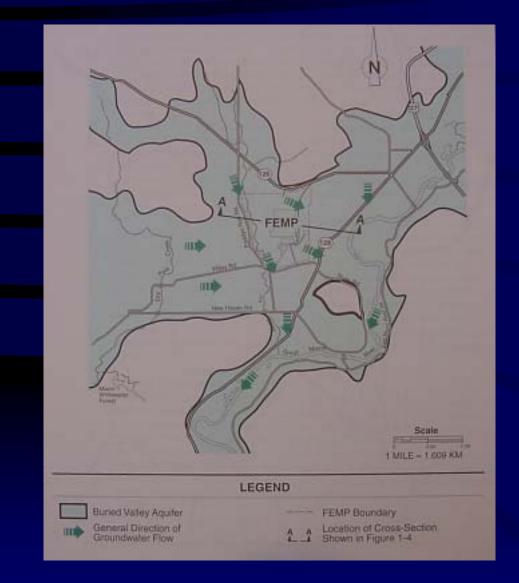
Paddys R

O.S. Son 1 and 3
Mines 1 and 3
Mines 1 and 3
Mines 1 and 4
Mines 1
Mine

APPECS PESCO Main

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Paleochannels form the Great Miami Aquifer

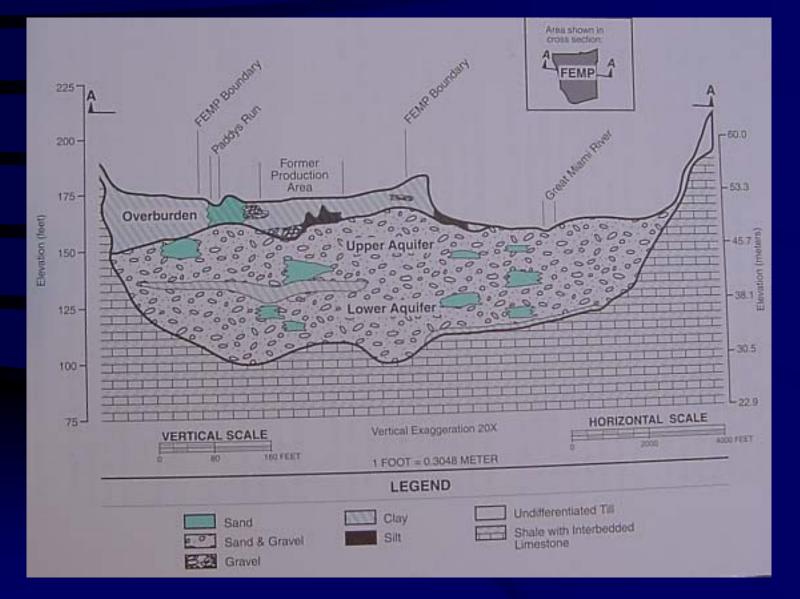
U exceeds 30 ug/L in parts of the aquifer below the site

Remedial activities include pump, treat and injection

Since 1993: extracted 9.4 billion gallons injected 974 million gallons removed 3,200 lbs of U

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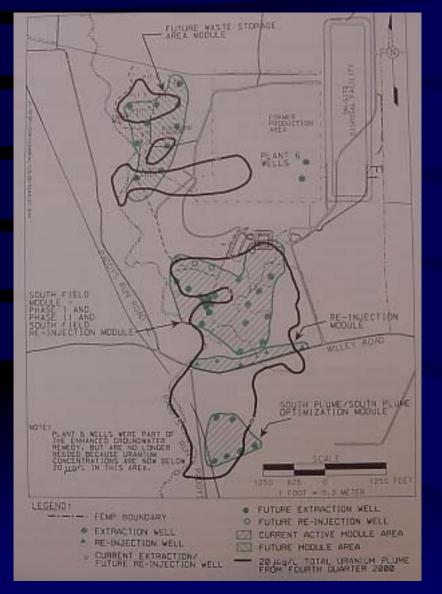
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Current activities: 17 wells pumping 100 - 500 gpm 4 wells injecting 150 - 200 gpm system totals pump 3,355 gpm inject 750 gpm discharge 2,605 gpm

U levels in the aquifer: less than 200 ug/L

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ACTIVITY	FY02			FY03				FY04				FY05				FY06				
	1 st	2 nd	3 rd	4^{th}	1 st	2 nd	3 rd	4 th	1 st	2^{nd}	3 rd	4 th	1 st	2 nd	3 rd	4 th	1 st	2 nd	3 rd	4 th
Provide modeling support																				
Prepare sampling & analysis plan																				
Install monitoring wells																				
Design extraction & injection wells																				
Install extraction & injection wells																				

Sediment samples can be obtained during well installation activities

Groundwater samples can be obtained during quarterly monitoring activities

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