Fluor Hanford
Soil & Groundwater Remediation Project

The Challenge
- 450 billion gallons of contaminated liquids were discharged to Hanford soils
- 80 square miles of groundwater are contaminated
- Nearly 50 miles of contaminated soil trenches in Central Hanford
- Acids, chemicals, metals, nitrates, cyanide, solvents and various radionuclides in Hanford’s soil and groundwater need to be remediated

Accomplishments
- Drilling 23 additional wells to expand treatment of contaminated groundwater in 100-K Area, Current
  - Triples treatment capability of existing pump-and-treat system (100-KR-4)
- Placed multiple additional aquifer tubes at Columbia River shore, Spring 2008
  - Measures contamination at shore line
- Completed five major Work Plans for soil and groundwater Operable Units, February 2008
  - Work-plan investigations support cleanup decisions

Overview
- Groundwater Remediation Project established in 1998
- Fluor Hanford began managing groundwater work in 2002
- Soil Waste Sites added to project in 2007
- 8 major pump-and-treat operations running currently
- Additional scientific trials of new remediation methods installed in at least 5 locations

Contaminated reactor effluent seeps into soil, 100-K Area, 1960s
Wells are drilled along Columbia River to control contamination, 2006
SGRP wins VPP Star status, 2007
Slanted borehole is drilled under a plutonium-bearing soil site, 2006

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Spring 2008
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Completed drilling new wells in Hanford’s “horn” between 100-H and 100-D areas, Autumn 2007
- 21 new wells drilled

Exceeded commitments for drilling new wells and decommissioning old wells, every year
- Drilled over 60 new wells; decommissioned 90 old wells in 2007

Drilled high-risk boreholes deep into plutonium-contaminated soil, 2006-2008
- Some boreholes are nearly 400 feet deep

Collected more than 2,300 well samples, 2007
- Exceeded collection rate for any previous year at Hanford

What’s Next

Inject additional chemical solution into test wells in 100-N Area to intercept strontium contamination, Summer 2008

Construct addition to 200-ZP-1 treatment system, Summer 2008

Perform initial portion of treatability tests in BC Cribs (remove 1/3 of B-26 Trench), Spring - Summer 2008

Sample Tank 241-CX-72 and other pipelines, September 2008

Dramatically improved safety since Fluor Hanford began managing the project, 2002-2008
- Reduced recordable accident rate by more than six times

Our Goal Is Zero Accidents!