

## US Department of Energy Groundwater Database Groundwater Master Report

**Installation Name, State:** Salmon  
**Responsible DOE Office:** Office of Legacy Management

**Plume Name:** Alluvial  
**Remediation Contractor:** SM Stoller Corporation

**Report Last Updated:** 2009

### Contaminants

Halogenated VOCs/SVOCs Present? **Yes**

VOC Name	Concentration (ppb)	Regulatory Driver	Cleanup Requirement
TCE	190	Yes	5
cis-1,2-DCE	130	Yes	70

Fuel Present? **No**

Metals Present? **Yes**

Metal Name	Metal Concentration (ppb)	Regulatory Driver	Cleanup Requirement
As	19	Yes	10
Cr (total)	120	Yes	100
Pb	16	Yes	15

Isotopes Present? **No**

Explosives Present? **Yes**

Other Contaminants? **No**

Tritium Present? **Yes**

Activity: **5000** (pCi/l)

Nitrates Present? **No**

Sulfates Present? **No**

### Hydrogeology

Conduit Flow? **Yes**

Depth (feet): **10**

Multiple Units Affected? **Yes**

Avg Velocity (feet/year): **3**

### Plume Information (no source)

Source **Active**

Area of Plume (acres): **2**

Plume Status **Plume static or shrinking in size**

### Remedial Approach

Remedy Name	Status	Start Date	End Date
monitored natural attenuation	Confirmed	1972	

### Groundwater Use / Exit Strategy

Potable? **No**

Does an Exit Strategy Exist? **No**

Sole Source Aquifer? **No**

### Environmental Indicators (EIs)

Groundwater Migration Under Control? **Yes**

Current Human Exposure Acceptable? **Yes**

Confirmed by Lead Regulator? **Yes**

Confirmed by Lead Regulator? **Yes**

### Regulatory

Decision Document? **Decision Document in Place**

Lead Regulatory Agency: **Other**

Date Approved **09/15/2003**

Regulatory Driver: **Other**

Regulatory Position on Groundwater Use Same as Site? **No**

**Comments**

The purpose of the groundwater monitoring program at the Salmon site is to monitor radionuclide leakage from the salt dome cavity created by detonation of a nuclear device 2,710 feet below ground surface. Non-radiological VOCs and metals are fugitive contamination from a mudpit and rat hole. The arsenic detected is not traceable to DOE (or predecessor agency) activities.