

US Department of Energy Groundwater Database Groundwater Master Report

Installation Name, State: Green River
Responsible DOE Office: Office of Legacy Management

Plume Name: Green River
Remediation Contractor: Unknown

Report Last Updated: 2009

Contaminants

Halogenated VOCs/SVOCs Present? **No**

Fuel Present? **No**

Metals Present? **Yes**

Metal Name	Metal Concentration (ppb)	Regulatory Driver	Cleanup Requirement
As	0.037	Yes	5
Se	0.39	Yes	5
U	0.1062	Yes	4.4

Isotopes Present? **No**

Explosives Present? **Yes**

Other Contaminants? **No**

Tritium Present? **No**

Nitrates Present? **Yes** Concentration: **260** (ppb) Regulatory Driver: **Yes** Cleanup Requirement: **1000** (pCi/l)

Sulfates Present? **Yes** Concentration: **7400** (ppb)

Hydrogeology

Conduit Flow? **Yes**

Depth (feet): **30**

Multiple Units Affected? **Yes**

Avg Velocity (feet/year): **150**

Plume Information (no source)

Source

Area of Plume (acres): **48**

Plume Status **No Response**

Remedial Approach

Groundwater Use / Exit Strategy

Potable? **No**

Does an Exit Strategy Exist?

Sole Source Aquifer? **No**

Basis for Exit Strategy: **No Response**

Environmental Indicators (EIs)

Groundwater Migration Under Control? **Need More Info**
Confirmed by Lead Regulator?

Current Human Exposure Acceptable? **Yes**
Confirmed by Lead Regulator? **No**

Regulatory

Decision Document? **Remedial Approach Proposed**
Date Approved

Lead Regulatory Agency: **Federal**
Regulatory Driver: **Other**

Regulatory Position on Groundwater Use Same as Site?

Comments

Alluvial groundwater and the uppermost aquifer were contaminated during uranium processing. A risk analysis indicated no unacceptable risk to human health or the environment. A proposed groundwater compliance action plan has been submitted by DOE to NRC and the state of Utah for concurrence. It recommends application of supplemental standards for the alluvial groundwater (not an aquifer due to low yield), and no remedial action for the uppermost aquifer and the use risk based alternate concentration limits for arsenic, nitrate, selenium, and uranium. The plume area was estimated in 2003.