

ISR URANIUM EXTRACTION

In Situ Recovery (ISR), also known as In Situ Leaching (ISL)

VERTICAL OR HORIZONTAL, THE RISK IS GROUNDWATER CONTAMINATION
ACROSS THE SOUTHWEST

VERTICAL ISR

Lixiviant / chemical preparation
Water + bicarbonate
or sulfuric acid

Uranium recovery /
processing
Uranium removed from
recovered solution

Upper
aquifer
(drinking water)

Ore zone

Lower
aquifer
(deeper groundwater)

— Injection (lixiviant down)
— Recovery (uranium solution up)

Downgradient groundwater flow

Contaminant plume

HORIZONTAL ISR

Lixiviant / chemical preparation
Water + bicarbonate
or sulfuric acid

Uranium recovery /
processing
Uranium removed from
recovered solution

Fractures, faults,
and old mine workings



**DRINKING
WATER WELLS**



**SPRINGS
& SEEPS**



**STREAMS
& WASHES**



LIVESTOCK



**RURAL
HOMES**

NAVAJO, PUEBLO, AND LOCAL COMMUNITIES DESERVE CLEAN, SAFE WATER.

WHETHER VERTICAL OR HORIZONTAL, ISR/ISL CHEMICALLY ALTERS GROUNDWATER TO EXTRACT URANIUM.