



US Army Corps  
of Engineers®

# RESPONSE TO PUBLIC COMMENTS ON THE NIAGARA FALLS STORAGE SITE REMEDIAL INVESTIGATION (RI)

## TOPICS TO BE ADDRESSED IN THE RI ADDENDUM

### Groundwater Contamination

(see Figure 1)

- Off-site extent of groundwater contamination in exposure units (EUs) 1, 4, 9 and 11
- Use boring logs and temporary well points to optimize selection of permanent well locations
- Include sample results from the Environmental Surveillance Program
- Revised RI plume maps

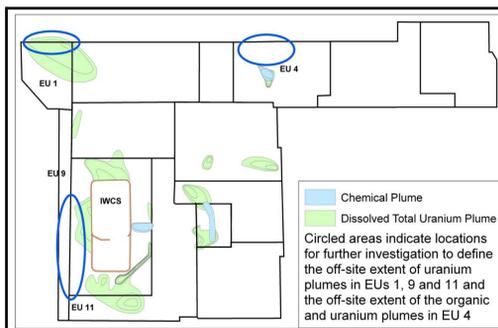


Figure 1. Areas where further investigations will be performed to define the extent of groundwater contamination

### Building 409 Groundwater

(see Figure 2)

- Building 409 history
- Uranium plume in Building 409 vicinity
- Correct uranium value at temporary well point 833 (TWP833)
- Remove data collected from manhole 06 (MH06)
- Evaluate data from observation well 18B (OW18B)
- Include recent data from Environmental Monitoring Program



Figure 2. Possible shape of modified plume (shaded) near Building 409 in EUs 10 and 11

### NFSS Background Values

- Comparison of NFSS background values with New York State 6 NYCRR 375 Brownfield Program
- Background levels for upper and lower water-bearing zones
- Report - "Utilizing Isotopic Uranium Ratios in Groundwater Evaluations"

### Interim Waste Containment Structure (IWCS)

- Details on IWCS construction
- LOOW Completion Report
- Detailed IWCS inventory

### Pipelines

- Lake Ontario Ordnance Works (LOOW) Completion Report sections on underground lines
- Pipeline schedule for IWCS cutoff wall construction
- Radiological samples from LOOW Underground Utilities RI

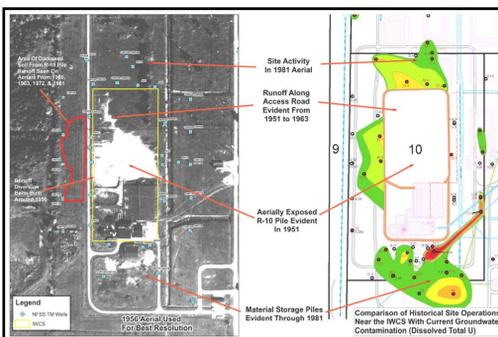


Figure 3. Historic aerial photo compared to current groundwater plume locations

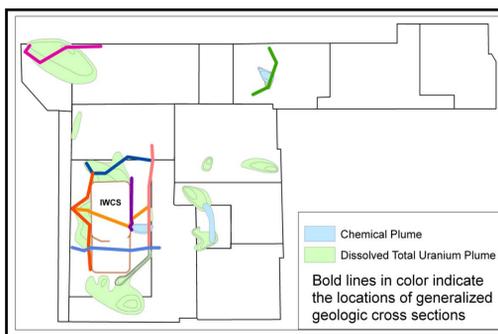


Figure 4. Locations of new cross-sections including information from Phase 3 soil borings

### Radiological Sampling Results

- Plutonium results and analytical uncertainty for 17 surface soil samples collected during the RI
- Plutonium results for 57 investigative derived waste drum samples
- Cesium, plutonium, strontium, tritium and technetium groundwater data from the fall 2008 Environmental Surveillance Program sampling
- LOOW radiological split sample results

### Surface Water and Sediments

- Potential surface water and groundwater connection in the ditches
- Environmental Surveillance Program data for the West Drainage Ditch and Central Drainage Ditch

### RI Supplemental Information

- Details on Environmental Surveillance Program monitoring of the site
- Railroad ballast and building and road core samples screening against surface soil criteria

### Historical Operational Areas

(see Figure 3)

- Overlay of historic aerial photos by Topographic Engineering Center on RI sampling locations to identify operational areas
- Comparison of historic operational photos with groundwater plumes
- Knolls Atomic Power Laboratory historic records and waste manifests

### Subsurface Geology

(see Figure 4)

- Phase 3 soil boring information included in the assessment of sand lenses
- Additional cross-sections showing extent of subsurface sand lenses
- Revised down-hole gamma logging results