

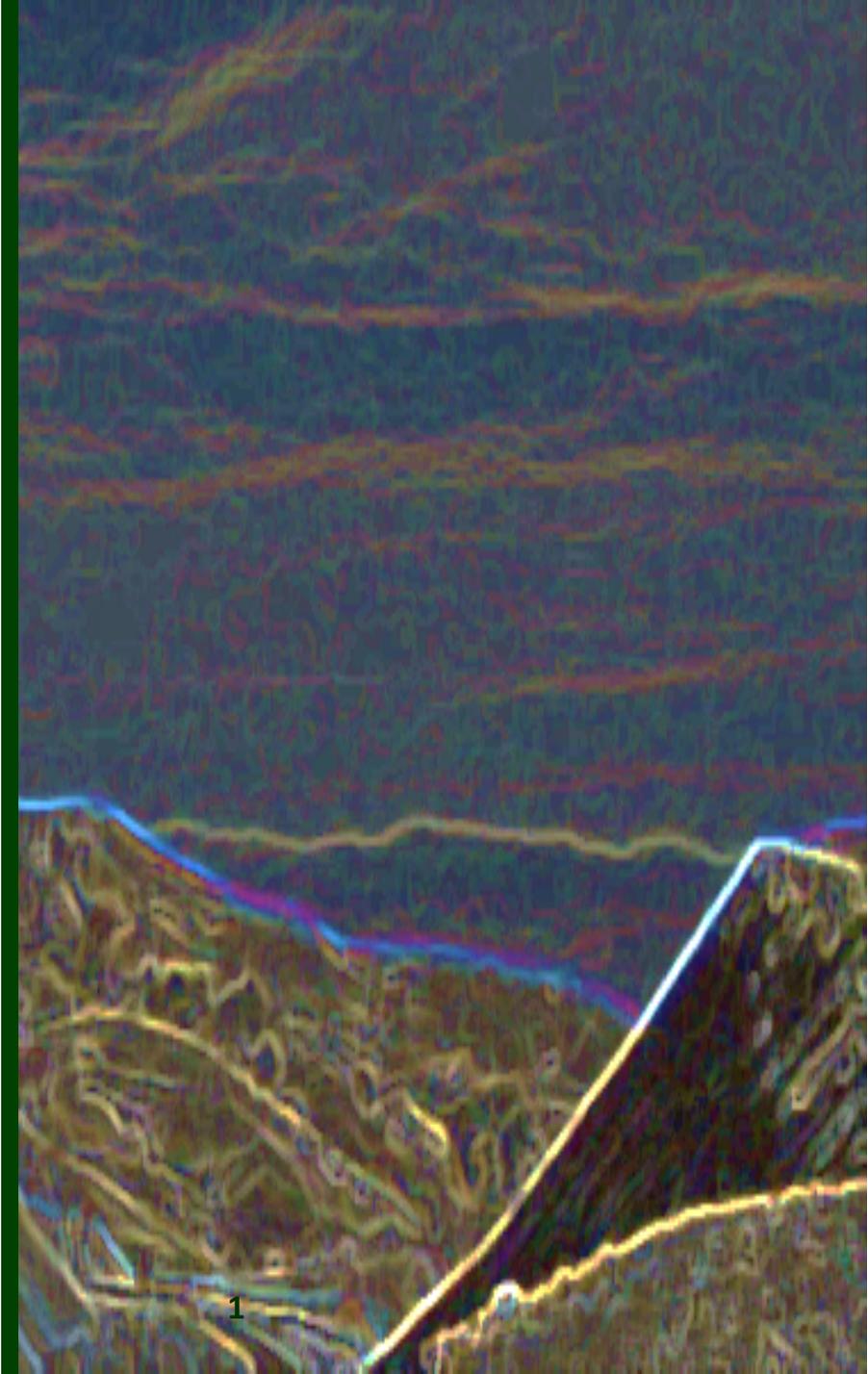
# Re-imagining Kennecott: Remediation and Maintenance

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# Kennecott Response Action – Overview

## General South Zone Actions:

- Excavation and removal of contaminated soil and solid mine waste from residential, commercial and other sensitive locations.
- Extraction, treatment, management of impacted groundwater.

## General North Zone cleanup:

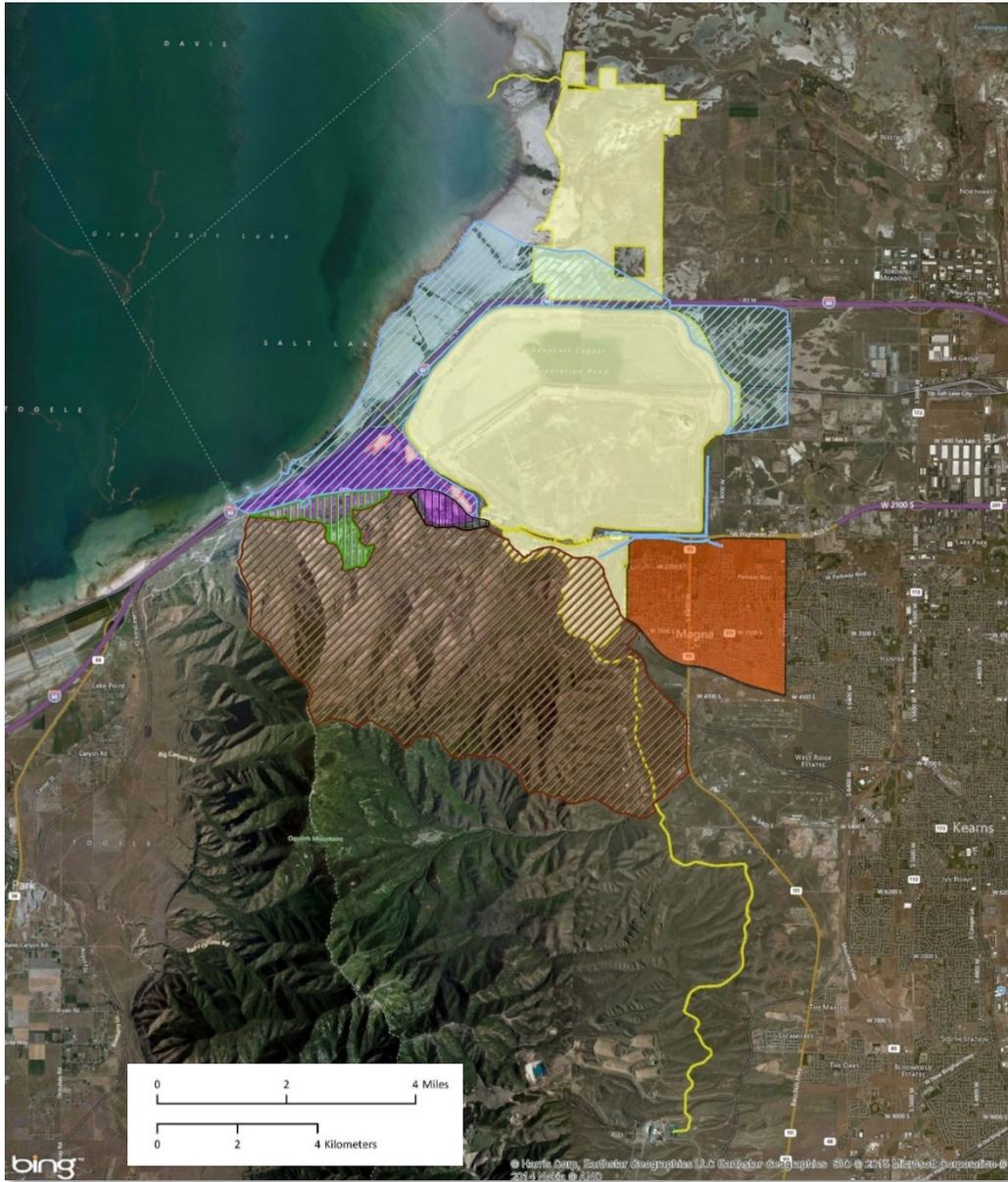
- Excavation and removal of contaminated soil and solid mine waste from accessible locations and during facility replacement or demolition.
- Excavation and removal of contaminate soils and solid mine waste from ecologically sensitive areas.
- Monitor natural attenuation and surface capture of groundwater.
- Wetlands monitoring including biological, water and sediment sampling.

Ongoing re-assessment of remedy performance



**Bingham Canyon Mine** (Source: Rio Tinto Kennecott)

# Kennecott North Zone



 **OU 8** Waste Water Treatment Plant and Sludge Ponds

 **OU 9** Magna Soils

 **OU 13** Smelter and Acid Plants

 **OU 14** Refinery

 **OU 15** Mills and Tailings Pond

 **OU 19** Smelter Fallout

 **OU 22** Great Salt Lake Wetlands

 **OU 23** North End Groundwater

# North Zone Remediation



**Consolidate, Cap, and Monitor**  
*(Source: UDEQ)*



**Excavation & Removal**  
*(Source: UDEQ)*



**Operational Compliance with State Permits**  
*(Source: UDEQ)*



**Source Assessment**  
*(Source: UDEQ)*



**Demolition and Soil Management**  
*(Source: UDEQ)*



**Source Control - Habitat Management**  
*(Source: UDEQ)*

# North Zone Remediation Success



**Preservation of Habitat**  
*(Source: UDEQ)*



**Revitalization of wetlands in the North Zone**  
*(Source: Rio Tinto Kennecott)*



**Revitalization of Range Habitat**  
*(Source: UDEQ)*



# South Zone Remediation – General Solids Strategies

- Excavation and Removal
- Capping
- Re-grading / Land Contouring
- Institutional Controls



**Bingham Creek Removal Action, 1995-1997** (Source: RTKC)



**Lark Tailings Reclamation Action, 1995 – 1997** (Source: RTKC)

# South Zone Remediation – General Groundwater Strategies



**Source Control Measures – Collection System Cut-off walls**  
*(Source: UDEQ)*

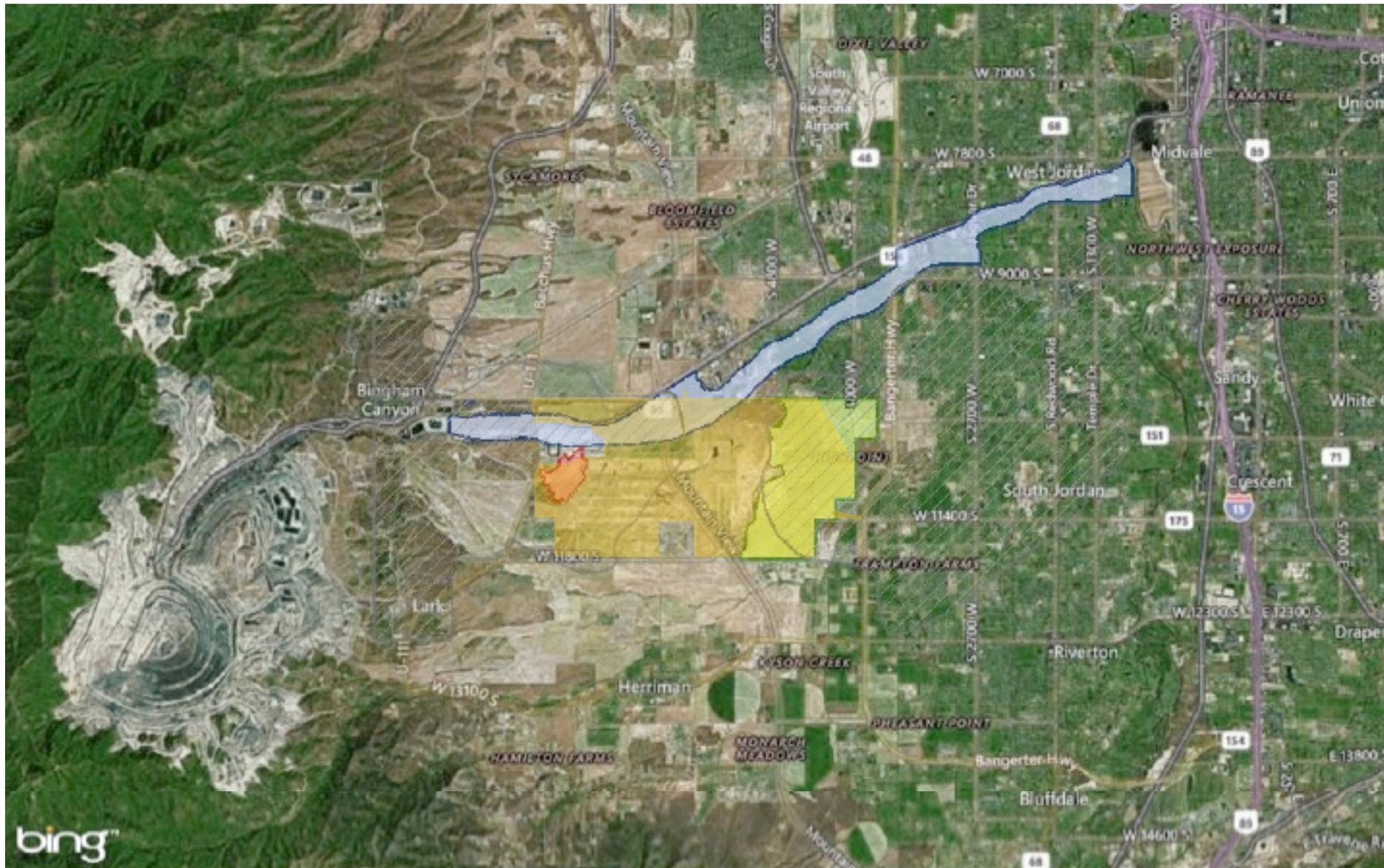


**Reverse Osmosis Treatment System**  
*(Source: UDEQ)*



**Management of Extracted Core Waters**  
*(Source: UDEQ)*

# Daybreak – Master Planned Community



OU 2



OU 17



OU 1



OU 7



Daybreak



# Daybreak Soil Management – Ongoing Efforts



**South Jordan Evaporation Ponds,  
1994-95**  
*(Source: Kennecott)*



**South Jordan Evaporation Ponds,  
1996**  
*(Source: Kennecott)*



**Daybreak, 2006-07**  
*(Source: Kennecott)*



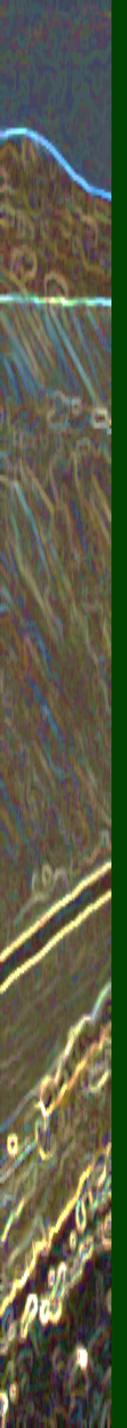
**Bingham Creek (OU1) Channel  
Trail**  
*(Source: EPA)*



**Mid Jordan Trax Line**  
*(Source: UDEQ)*



**Near Bastian Sink**  
*(Source: UDEQ)*



# For More Information, Contact

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