

MOAB UMTRA PROJECT

URANIUM MILL TAILINGS REMEDIAL ACTION

MOAB, UTAH



Panoramic view of Moab UMTRA Site (3/27/2023)



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UMTRA Liaison/Technical Inspector

MTPSC Status Update

April 25, 2023

INTRODUCTION & PURPOSE

The UMTRA Liaison/Technical Inspector position, as established by Grand County Resolution 3198 and located within the Grand County Planning and Community Development Department (P&CD), serves as an independent and neutral figure regarding activities utilizing a conditional use permit (CUP) through Grand County.

The UMTRA Liaison/Technical Inspector provides observations, reports, and other applicable duties to the following sites:

- The Moab UMTRA Site and associated Crescent Junction Disposal Site
- Oilfield Water Logistics at Danish Flats
- Westwater Farms/Armada Water Solutions at Harley Dome
- IACX Helium Processing Plant at Harley Dome

The UMTRA Liaison/Technical Inspector works with a variety of entities and committees to ensure full transparency and accurate reporting. This position is currently funded through Grant DE-EM0005196 and has a period of performance through February 4, 2025.

UMTRA SITE MAP



Google Maps – Image not to scale

OBSERVATION POINT #1

JAN 2023



MAR 2023



OBSERVATION POINT #2

JAN 2023



MAR 2023



OBSERVATION POINT #3

JAN 2023



MAR 2023



OBSERVATION POINT #4

JAN 2023



MAR 2023



OBSERVATION POINT #6

FEB 2023

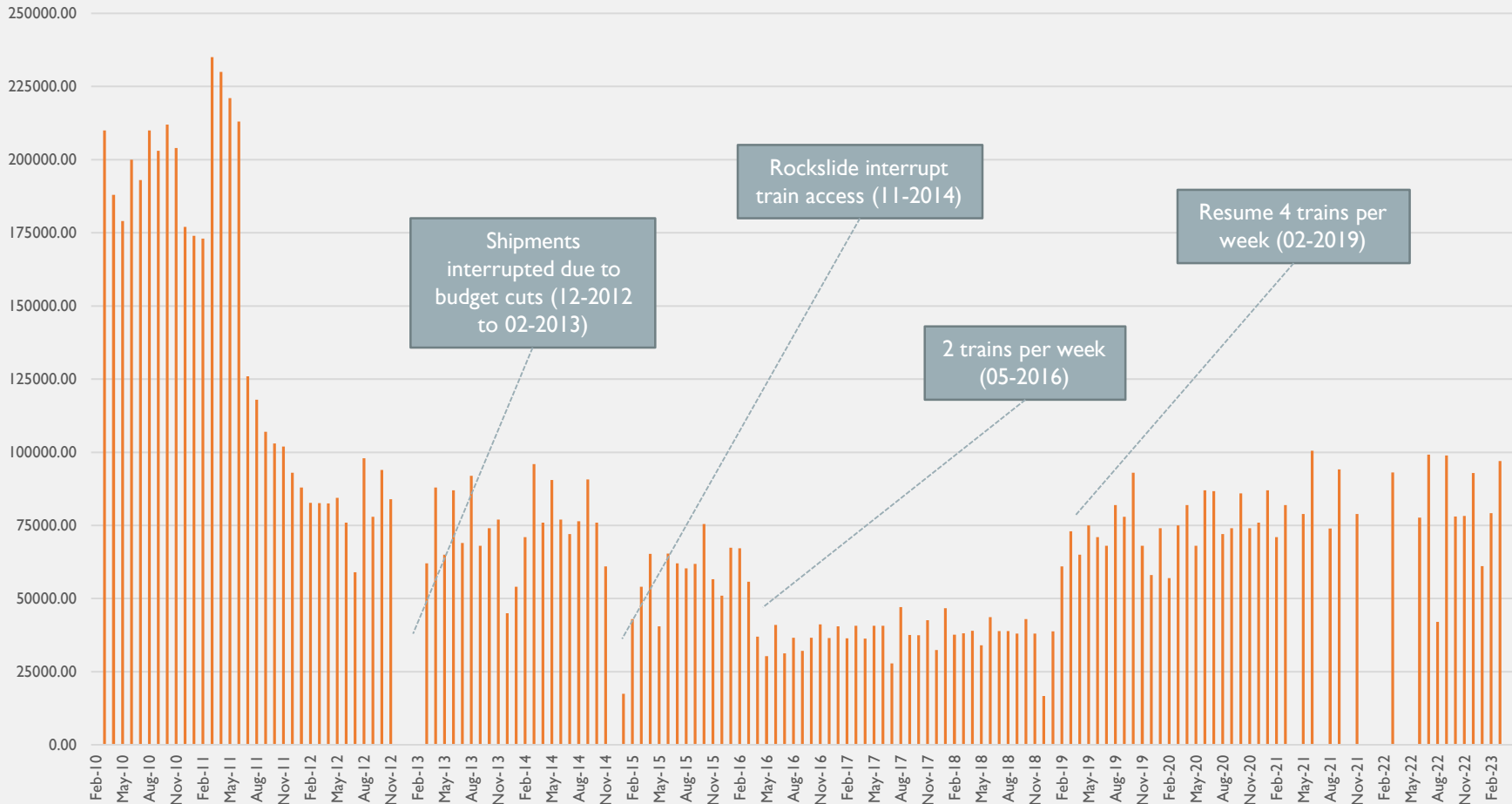


MAR 2023



TAILINGS SUMMARY

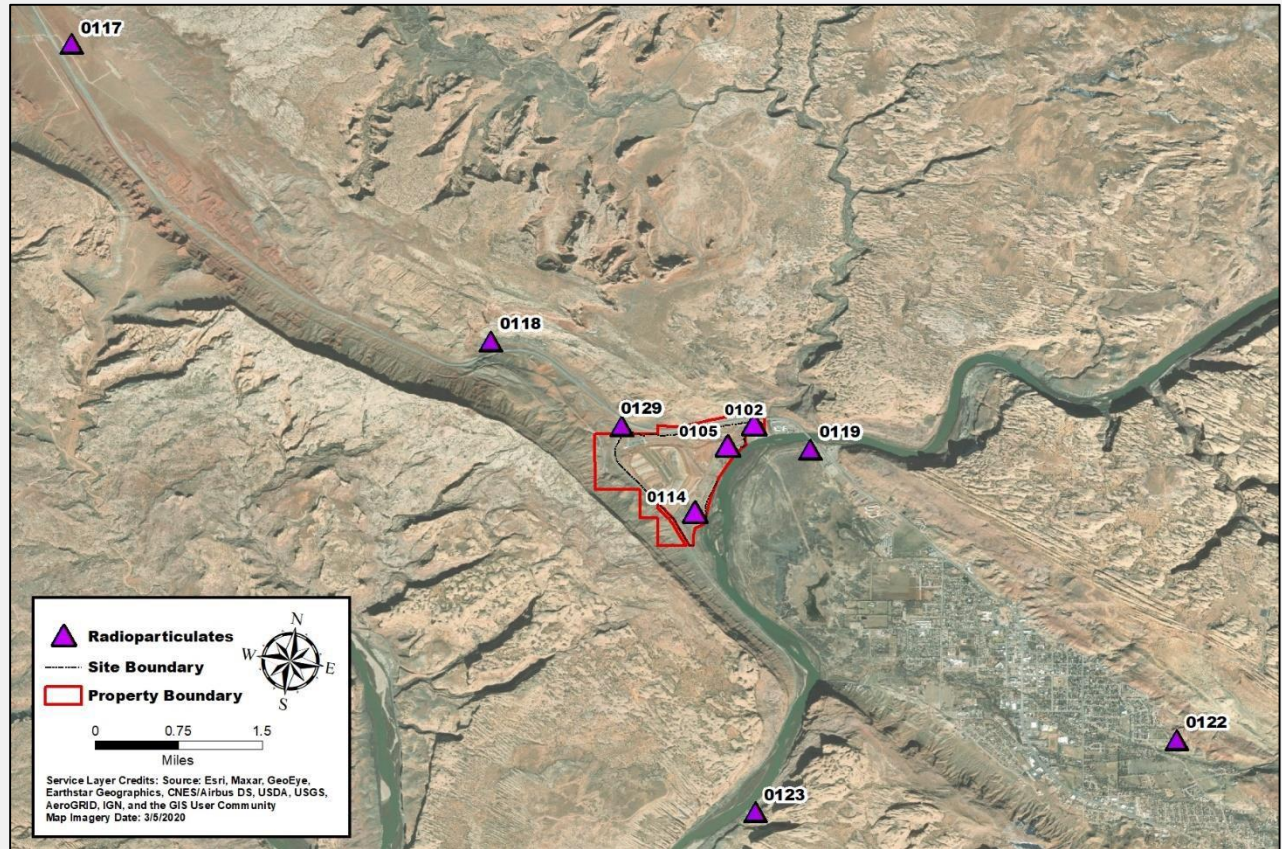
Tailings moved (in tons) over time



- At the end of March 2023, approximately 13.4 million tons of tailings and mill debris has been shipped to the Crescent Junction site for disposal. Approximately 96,991 tons of tailings and mill debris were moved in March 2023 (end of IQ23).
- Indicates that 83.7% of the estimated 16 million total tonnage contained at the Moab UMTRA site has been removed since the beginning of the project.
- The Moab UMTRA Project continues to operate on a regular schedule of four (4) trains per week.

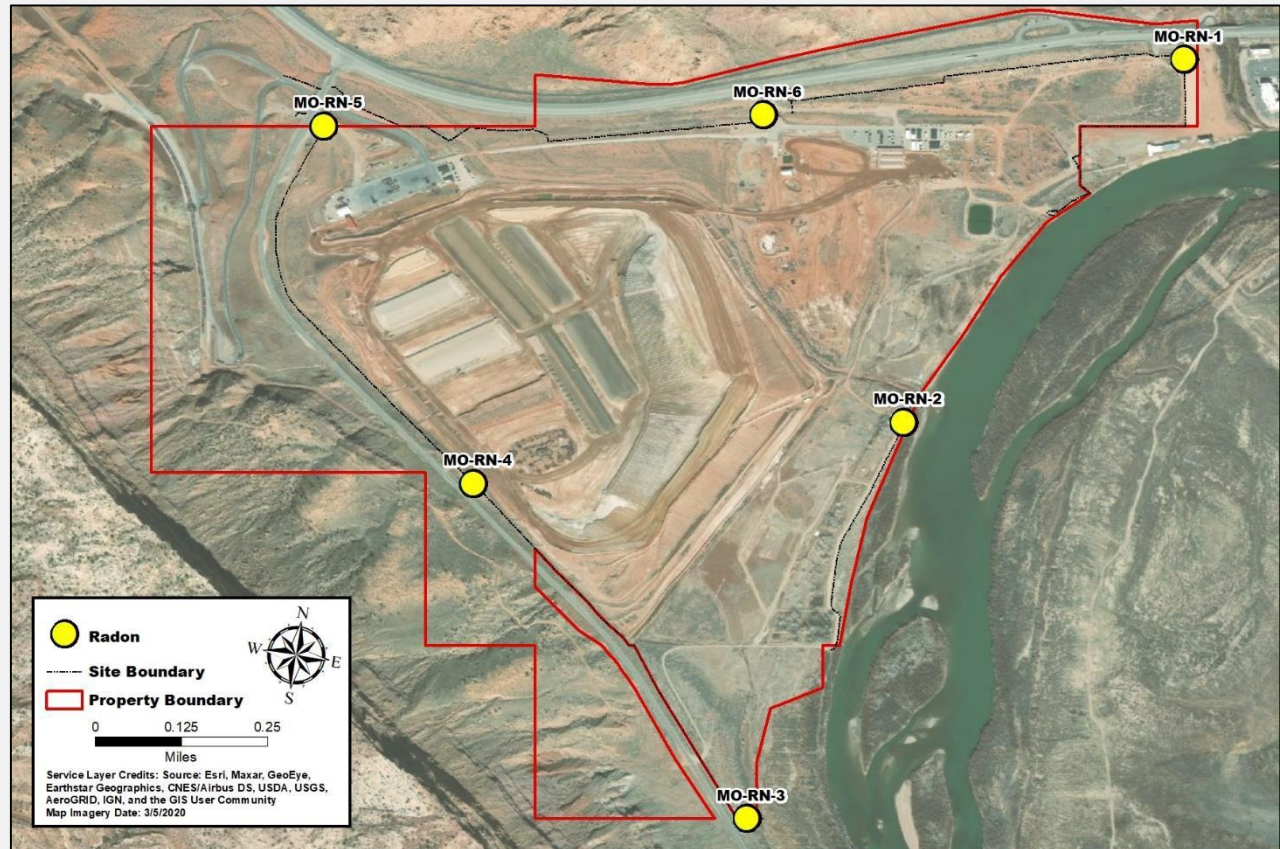
RADIOPARTICULATES 3 Q22 MONITORING STATIONS

Station ID	Result (mrem)
MSP-0102-RP	1.58
MSP-0105-RP	1.68
MSP-0114-RP	2.88
MSP-0117-RP	1.32
MSP-0118-RP	1.70
MSP-0119-RP	1.29
MSP-0122-RP	1.08
MSP-0123-RP	1.12
MSP-0129-RP	3.34



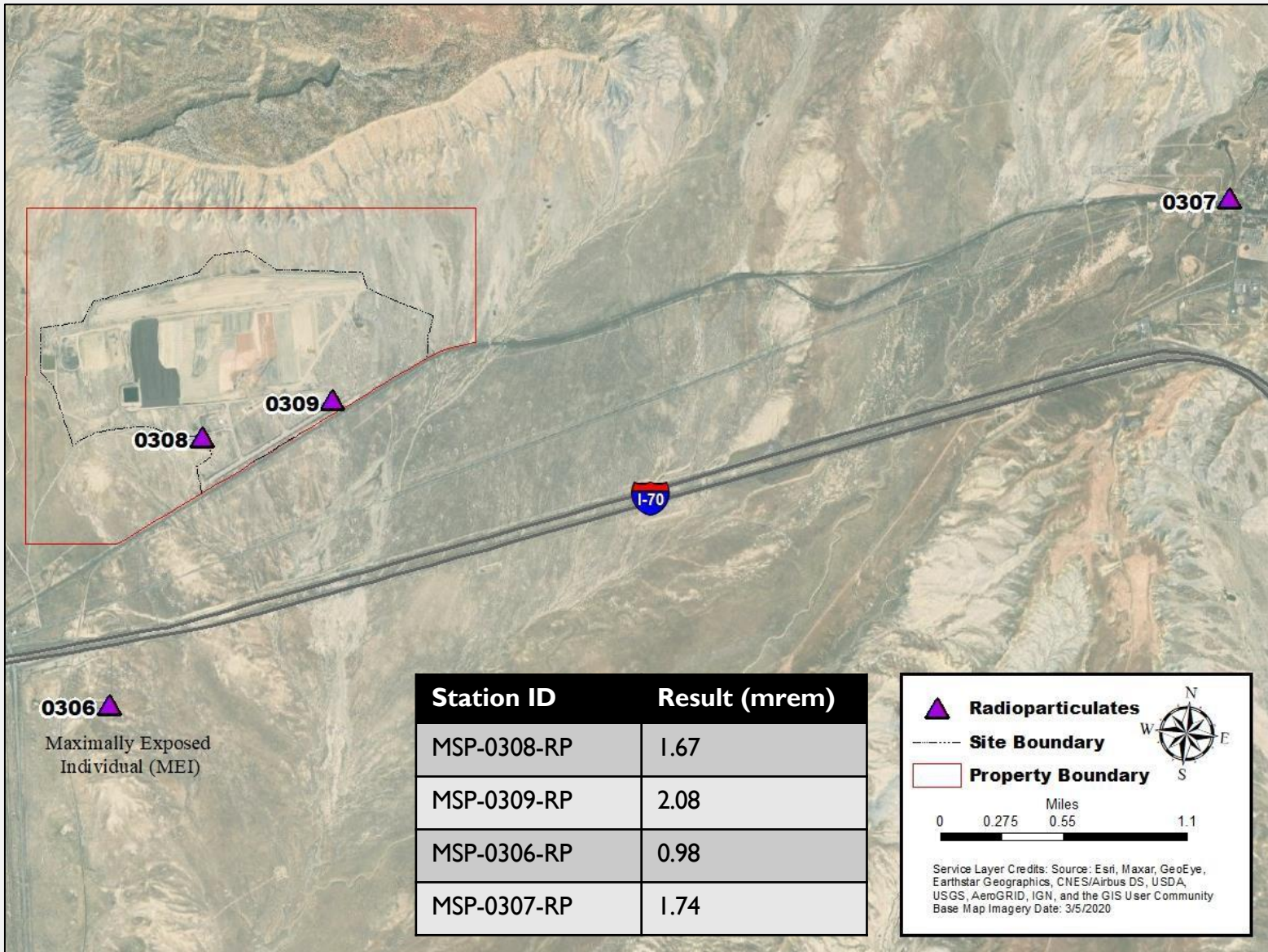
RADON - 3Q22 MONITORING STATIONS

Station ID	Result (pCi/L)
MO-RN-1	0.95
MO-RN-2	2.71
MO-RN-3	1.06
MO-RN-4	0.95
MO-RN-5	0.77
MO-RN-6	1.80



RADIOPARTICULATES – 3Q22

CRESCENT JUNCTION SITE



0306 ▲
Maximally Exposed Individual (MEI)

Station ID	Result (mrem)
MSP-0308-RP	1.67
MSP-0309-RP	2.08
MSP-0306-RP	0.98
MSP-0307-RP	1.74

▲ Radioparticulates
 - - - Site Boundary
 □ Property Boundary

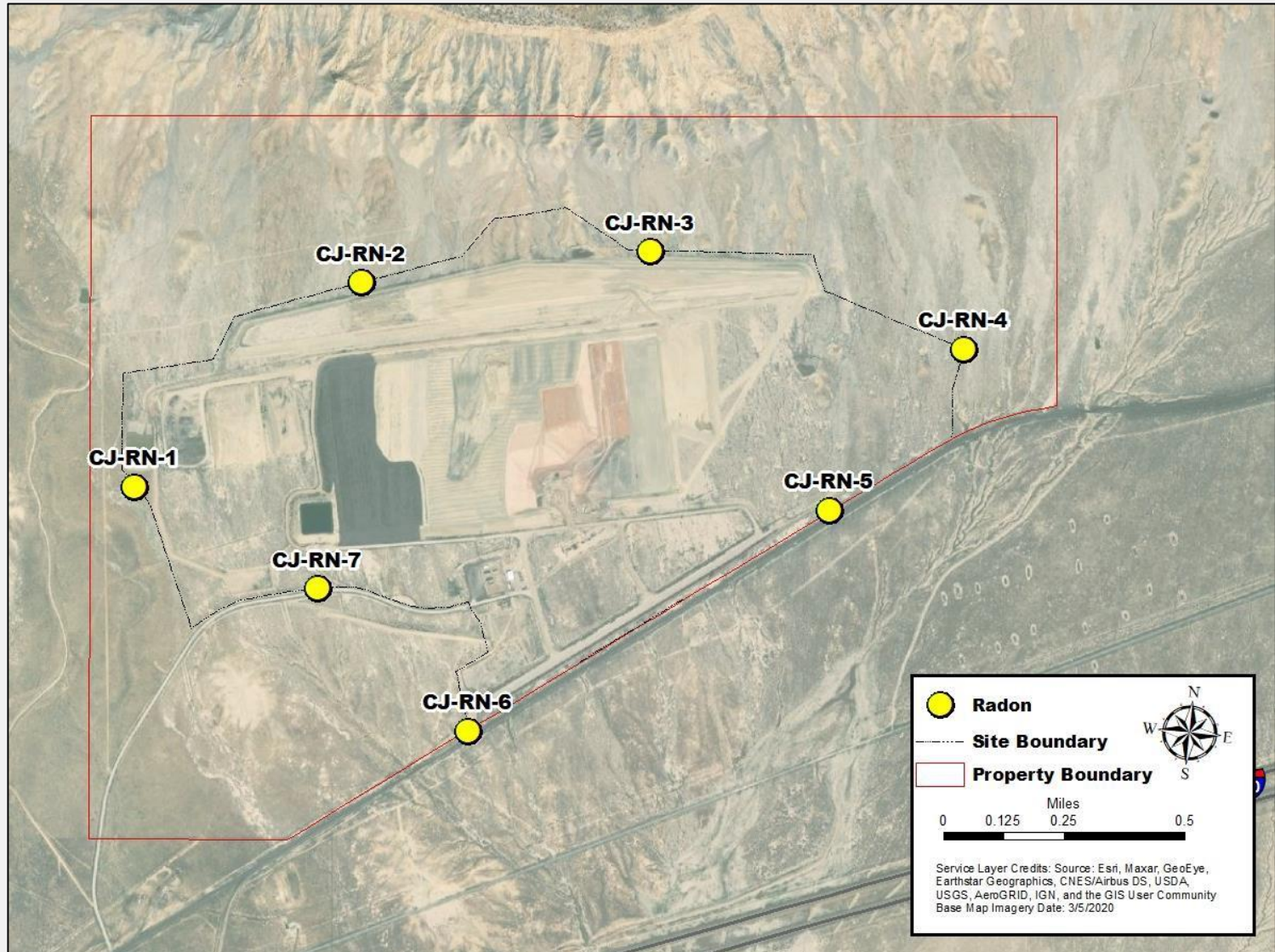
Miles
 0 0.275 0.55 1.1

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Base Map Imagery Date: 3/5/2020

RADON – 3Q22

CRESCENT JUNCTION SITE

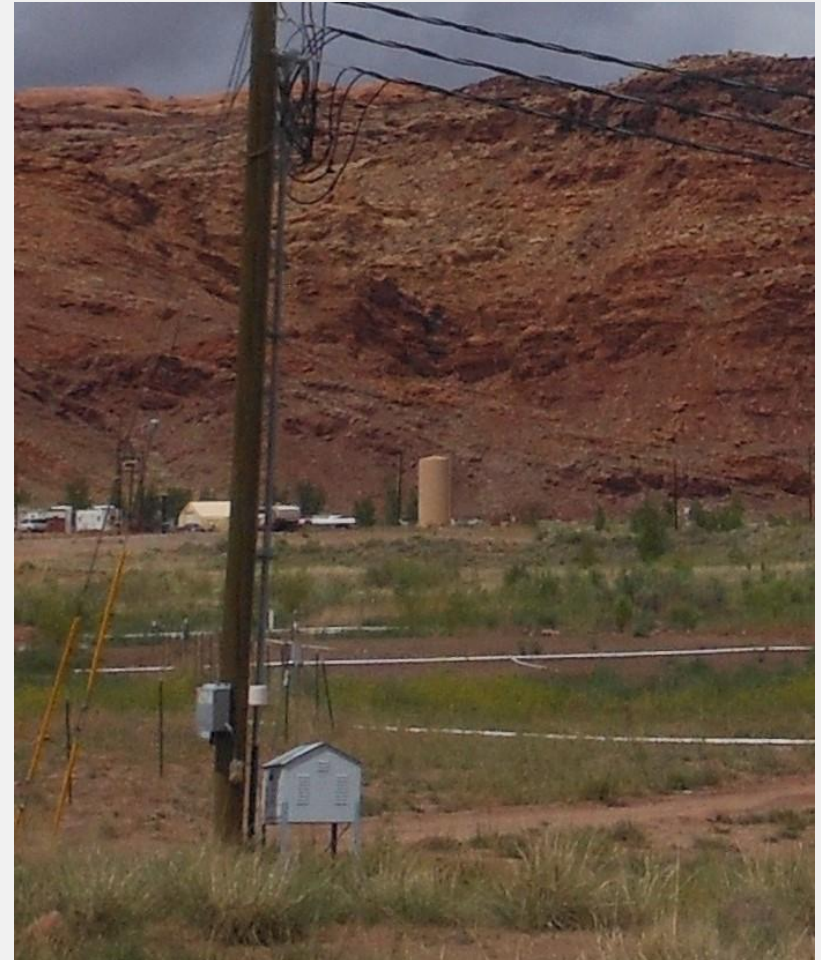
Station ID	Result (pCi/L)
CJ-RN-1	At or Below Background
CJ-RN-2	At or Below Background
CJ-RN-3	At or Below Background
CJ-RN-4	At or Below Background
CJ-RN-5	0.74
CJ-RN-6*	1.19
CJ-RN-7*	1.01



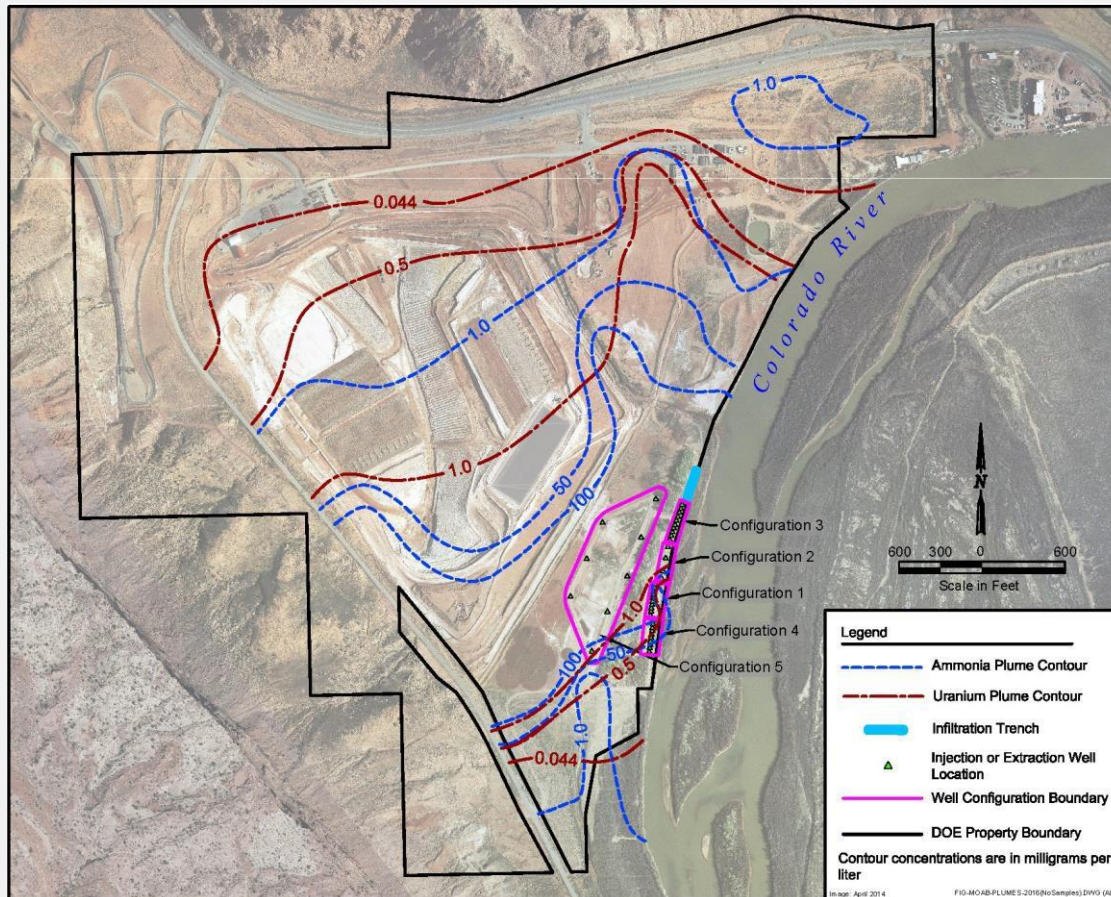
*CJ-RN-6 and CJ-RN-7 averages are based on past 3 quarters, not 4. (4Q21 did not have any data).

AIR MONITORING DATA SUMMARY

- **Radioparticulates (for both sites):**
 - All monitoring stations up from 2Q22
- **Radon (for both sites):**
 - 8 monitoring stations down from 2Q22 results
 - No monitoring stations up from 2Q22 results
 - 2 monitoring stations added from 2Q22 results – previously did not have enough data to present results
- **Environmental Compliance and Plans for the Moab UMTRA Project can be found here:**
<https://www.energy.gov/em/moab/environmental-compliance-and-plans>



GROUNDWATER REMEDIATION



- In 2003, DOE implemented an interim action system at the Moab site to address concerns regarding elevated ammonia and uranium concentrations in groundwater discharging to the Colorado River. A total of five well configurations are used to reduce the amount of ammonia and uranium that discharges to the river.
- Groundwater extraction is through Configuration 5 wells, which are located closer to the tailings pile.
- Over the life of the Project, extraction has prevented 979,335 pounds of ammonia and 5,578 pounds of uranium from reaching the river.
- Freshwater (diverted river water) is injected through wells in Configuration 4 as an additional way of minimizing the discharge of ammonia to the Colorado River. So far in 2023, more than 4,811,065 gallons of water has been injected.

RESOURCES

Online

- <https://www.energy.gov/em/moab/moab-umtra-homepage>
- <https://www.grandcountyutah.net/257/Moab-UMTRA-Project>
- <https://www.grandcountyutah.net/206/Moab-Tailings-Project-Site-Futures-Commi>
- Moab UMTRA Project Five-Year Site Plan FY's 2022-2026 (DOE):
<https://www.gjem.energy.gov/documents/Five-YearSitePlan22.pdf>
- Moab UMTRA Project Surface Water and Groundwater Project Documents
<https://www.energy.gov/em/moab/surface-water-and-groundwater>
- **Public meetings**
- *Moab Tailings Project Steering Committee, quarterly (July 25 and Oct 24, 2023)*
- *Site Futures Committee, 2013 and 2018*
- **UMTRA Reading Room (Library)**
- **Contact Grand County's UMTRA Liaison at jthacker@grandcountyutah.net**

QUESTIONS?