

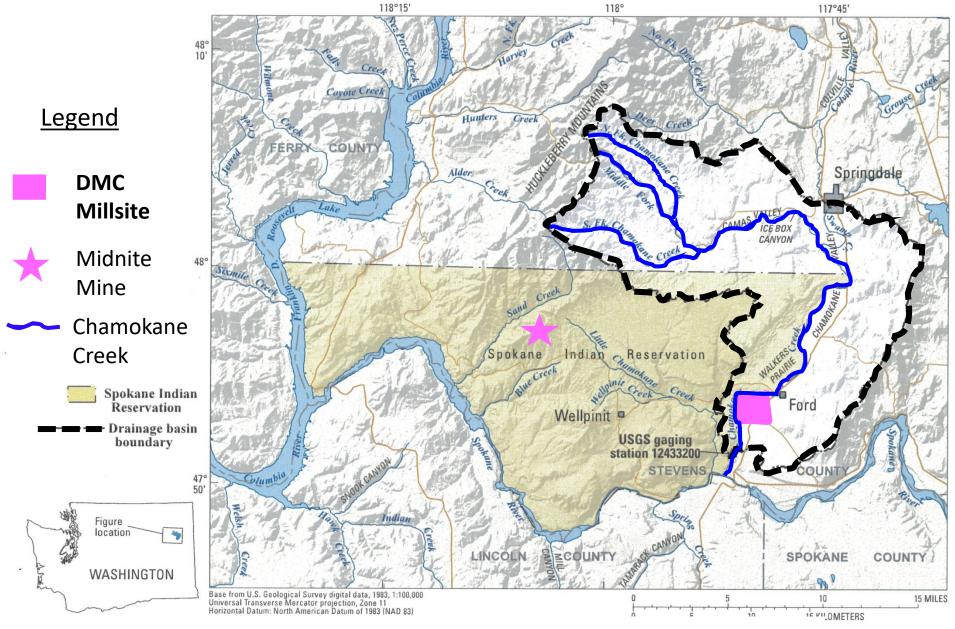


#### FORD URANIUM MILLSITE DECOMMISSIONING

Bryony Stasney, L.Hg. Waste Management, Office of Radiation Protection June 2023

# **Project Area**

City of \_\_\_\_\_ Spokane



**DMC Millsite Location** 

Adapted from Kahle et al, 2010 USGS Scientific Investigations Report 2010-5165

## DMC Millsite 1979

## EIS and 1995 Approved Closure Plan

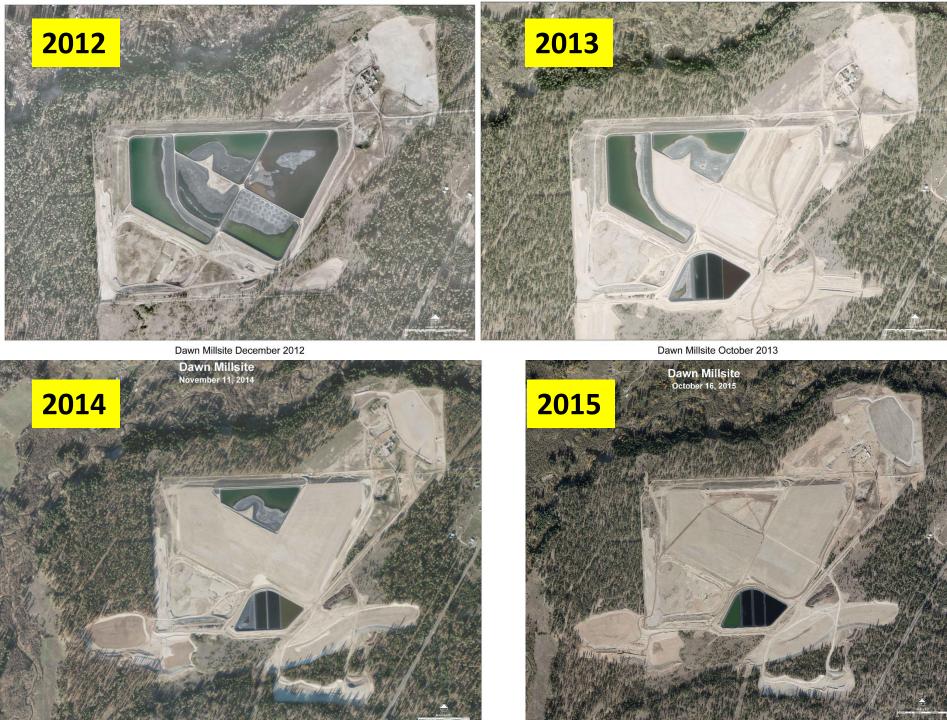
- Groundwater corrective action to address contamination from unlined tailings disposal areas
- Process water evaporation
- Oemolition, soil cleanup and waste disposal
- Surface reclamation (contour, cover and revegetate waste)



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# DMC Millsite 2005

TIME



## Final Radon Barrier / ET Cover

• Design guided by regulation (radon emanation, groundwater protection, waste isolation, self-sustaining vegetation)

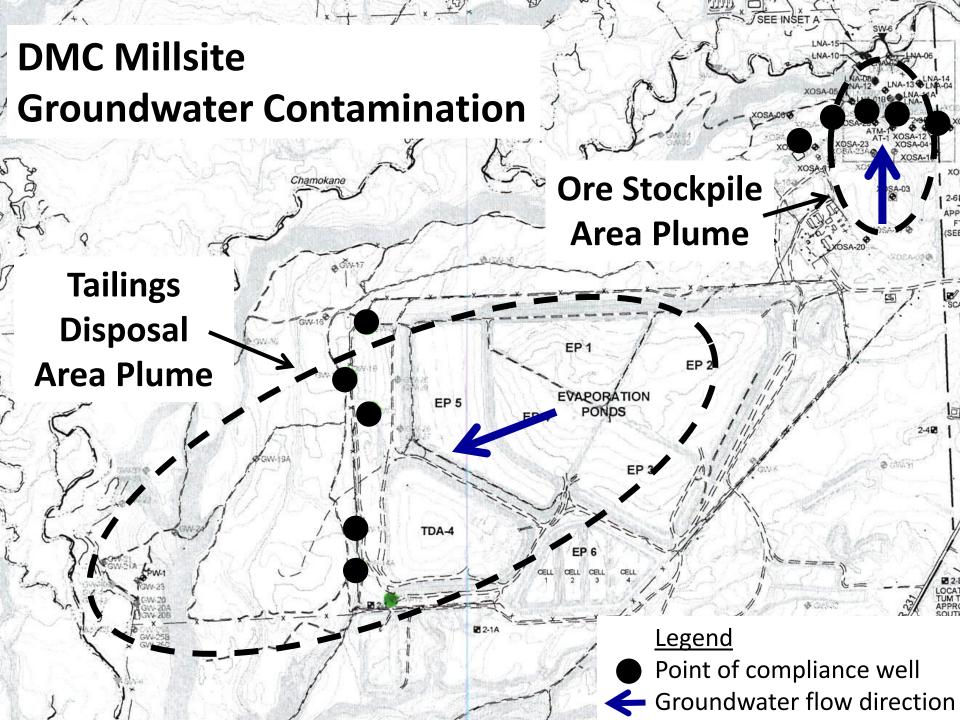
Borrow source on-site

- Average thickness about 10 ft (< 2 15 ft)</p>
- Contoured to minimize run-on, run-off and surface ponding
- ET cover (2-inches infiltration with grass)
- Performance Monitoring 2018 2025
  Settlement, erosion, vegetative cover

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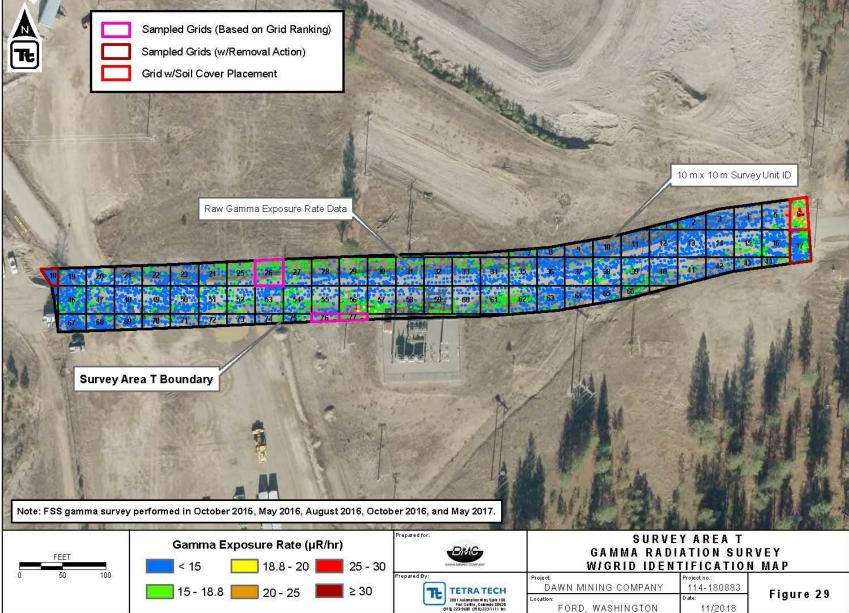


## ACL Application

- 2018: DMC's initial ACL application
- 2019: DMC's ACL application Rev 1
- 2022: WA detailed review comments
- O2023: DMC performing field work and additional assessments
- WA is collaborating with the Spokane Tribe of Indians during this review process
- Anticipate Supplemental EIS with decision

### Final Status Survey

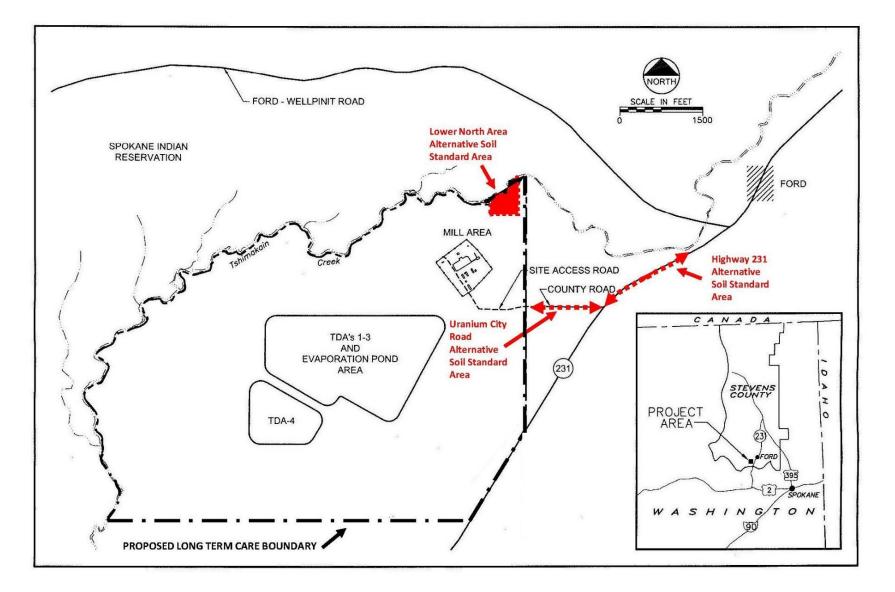
- U-nat, Ra-226, Th-230 and Th-232
- Gamma Ra-226 correlation to establish gamma exposure rate screening of 18.8 uR/hr
- O100 % GPS gamma survey at 2 m spacing
- •450+ soil samples from highest gamma grids
- Phase 1 Completion Report submitted 2022
- WA review comments to DMC this week







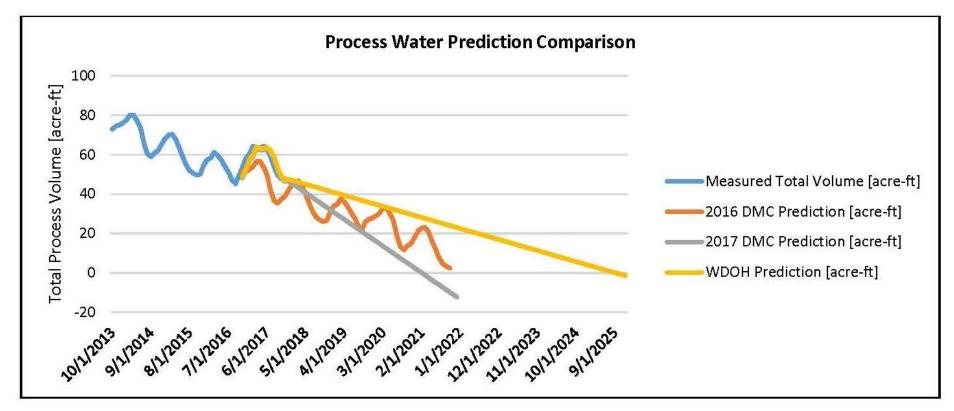
#### Alternative Soil Standards Areas



#### **Process Water Evaporation**

#### OMC initially predicted evaporation would be complete by 2014

○550 acre-feet (1996) to 18.6 acre-feet (2023)





#### EVAPORATION POND 6 (EP-6) Cell 4 Floating Cover

## Financial Assurance / Surety

- WA performs annual closure cost review
- 2023 closure cost estimate is \$81.5 million
- Primary cost is process water disposal
- Standby Trust and Corporate Guarantee
- Some decommissioning costs deferred:
  - Verification of soil cleanup
  - ACL and SEPA processes, including potential groundwater corrective action

## Closure Status

- Surface reclamation almost complete
- Ongoing activities
  - Monitoring stability and revegetation
  - Oroundwater corrective actions / ACL Process
  - Final Status Survey (soil cleanup)
  - Process water evaporation
  - Surety review
- License termination tentatively in 2028

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#### Questions?



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