



# **Radiation Protection Program NORM Remediation**

*October 7, 2024*

# Radiation Protection Program

- Radiation Protection Plan
  - Radiation Protection Procedures in place
  - Training of all workers
  - Personnel dosimetry program
  - Radiation monitoring and protection
  - Contamination control
    - Soil Management Plan
    - Dust Management Plan
- Records Retention



# Scanning and Decontamination

- Signage and access control
  - Restricted zones (URZ, CRZ, CCZ)
  - Workers required to complete Site-specific training
- Personnel, equipment, and tools scanned before release from CRZ/CCZ to URZ



# Scanning and Decontamination

- Dedicated Tri-axle Trucks
  - Drivers trained
  - Restricted to approved routes only
  - Truck bed equipped to be fully enclosed
  - Emergency procedures in place
- Truck release procedure
  - Loose soils removed
  - Truck load limited
  - Truck bed sealed
- Documentation
  - Every truck manifested, contamination survey



# Scanning and Decontamination

- Truck Scanning Procedure
  - All trucks scanned by Radiation Protection Technicians (RPTs) for fixed and loose contamination and load meets safe release standards



# -- Radiation Protection Program

## *Dust Control Measures and Airborne Monitoring*

- Dust monitoring and control
  - Monitoring assesses human health and ecological impacts to on-Site (workers) and off-Site (public) receptors
  - Continuous, real-time upwind/downwind monitoring (PM2.5, PM10, TSP)
  - Radiological scans of dust filters
  - Includes review of meteorological conditions
  - Monitoring documented



# -- Radiation Protection Program

## *Soil Management*

- All stockpile management measures in place
  - Placed on designed pad
  - Covered when not in use
  - Access restricted
  - Sediment and erosion controls
  - Stockpile contamination surveys by RPTs
- Haulage
  - Soil to approved sites only
  - Drivers trained
  - Dedicated, approved trucks only
  - Trucks scanned by RPTs before release



# PPE Requirements

- All workers trained
- Only required for workers
- RPTs on-Site to assist workers

PPE Items	Level One – URZ	Level Two – CRZ & CCZ	Level Three – CCZ (when in direct contact with soil)
Hard Hat	X	X	X
High-vis Clothing	X	X	X
CSA Approved Safety Boots	X	X	X
Protective Gloves (based on hazard of the operation)	X	X	X
Safety Glasses (that include side shields)	X	X	X
Hearing Protection, as required	X	X	X
Disposable Boot Covers		X	X
Secondary Disposable Gloves		X	X
Disposable Coveralls (e.g. Tyvek)			X

