M-091 milestone series for Transuranic/Mixed Waste

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M-91 milestones: what work do they schedule?

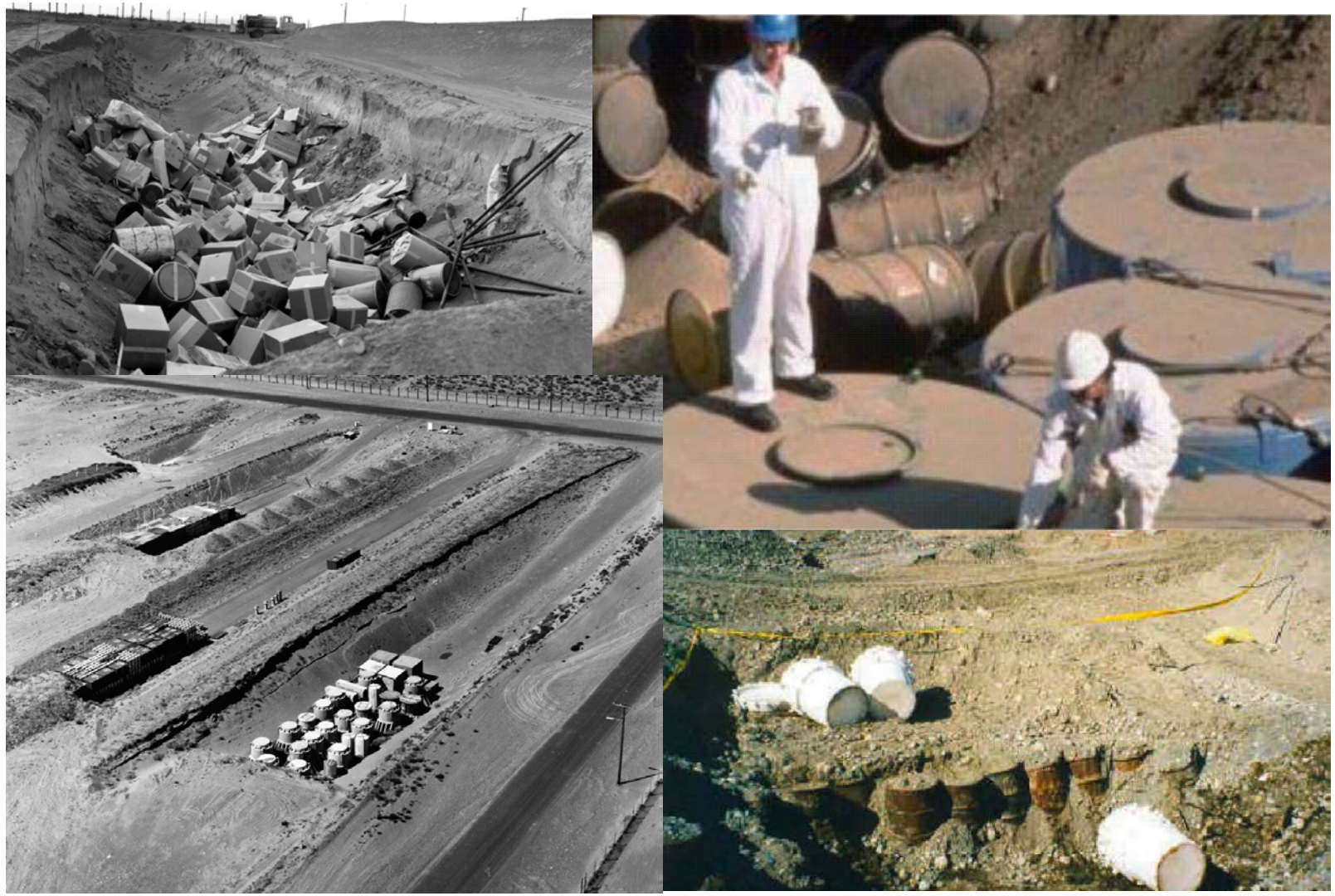
- Complete the treatment to Land Disposal Restriction (LDR) treatment standards for all Hanford Site Resource Conservation and Recovery Act of 1976 (RCRA) mixed low-level waste (MLLW) and RCRA transuranic mixed (TRUM) waste (in above ground storage as of June 30, 2009 and in retrievable storage).
- DOE may choose to complete certification and shipment of TRUM waste for disposal at the Waste Isolation Pilot Plant (WIPP) in lieu of LDR treatment if, as of the time of shipment, such waste is exempt from LDR treatment standards when disposed at WIPP.

M-91 Retrievably Stored Waste (RSW) vs. "Pre-1970" waste

- M-91 milestone-required work
- 3 burial grounds hold the remaining RSW
- 16 trenches hold the remaining RSW
- Waste Inventory
  - 12,000 retrievably stored containers waiting to be exhumed
  - 10,000+ previously retrieved containers stored in Central Waste Complex
- 4 prior pieces of HAB advice (143, 154, 231, 285); listed as priority in budget advice

- M-15 and M-16 milestones-required work
- 24 burial grounds in Hanford Central Plateau
- 361 total trenches
- 450 acres (7/10 of a square mile)
  - 43.5 linear miles of trenches within the burial grounds
    - 24 feet deep, 37-60 feet wide, 200 feet long
    - 15 million cubic feet of waste
- 17 pieces of prior HAB advice

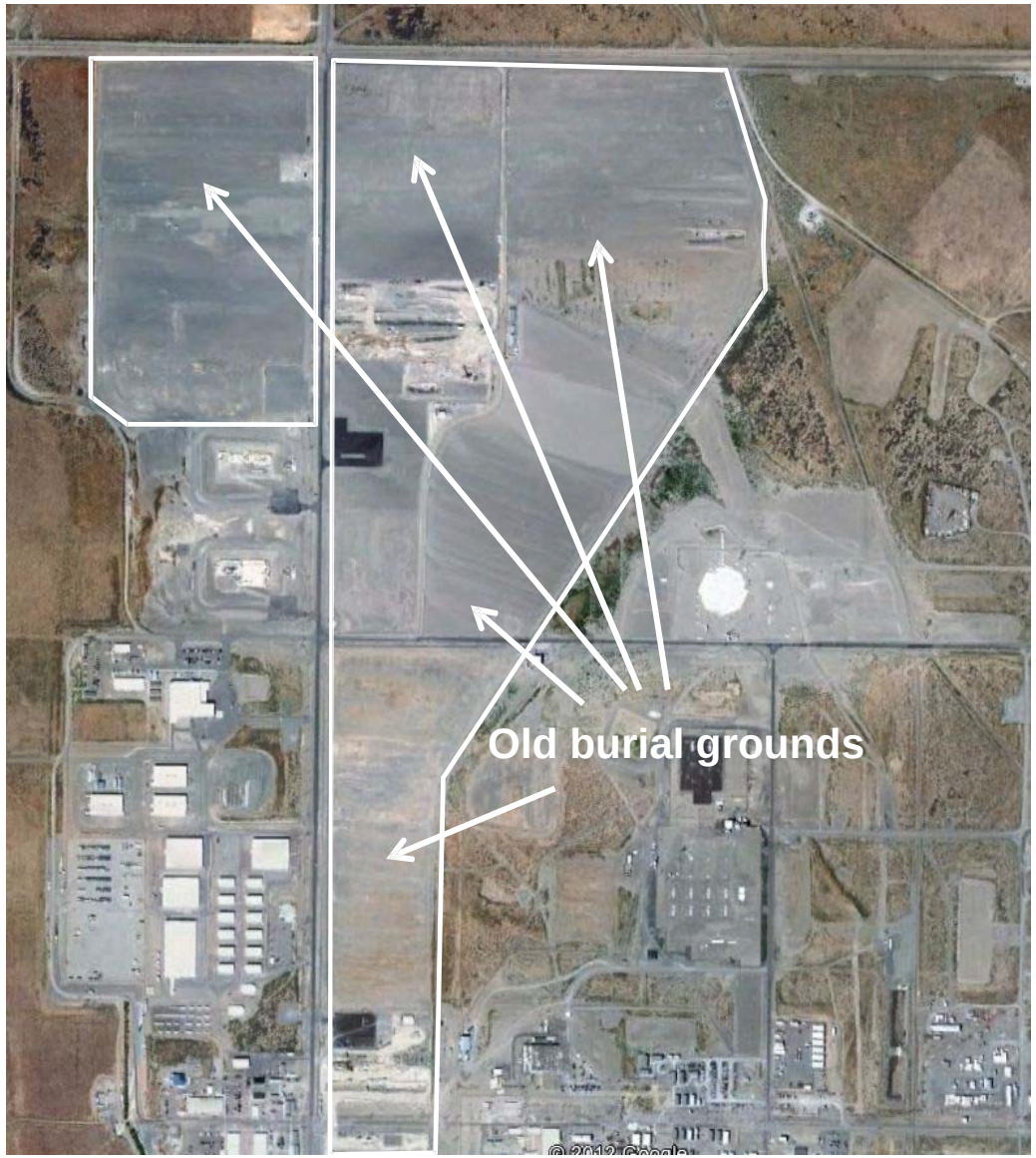
Retrievably Stored vs. pre-1970 disposal



Why does it matter?

- 2030 is the existing M-91 end date, set per prior WIPP closing date
  - Hanford shipments to Waste Isolation Pilot Plant (WIPP) have been, and will be, affected by WIPP shutdown, slow-down after accidents
  - WIPP closing has been extended to 2050
- Proposed milestones would ship 99% of M-91 TRU waste to WIPP by 2040
  - Start shipping 2028 when WIPP is ready
  - A few large boxes would be dealt with post-2040
  - a small number of remote handled waste containers, to be shipped after 2040 would benefit from 20 years of radioactive decay
  - Waste stored outdoors at the Central Waste Complex would be moved by 9/30/2026

Central Waste Complex



200 West Area

Central Waste Complex

What's next?

- Ecology, the U.S Department of Energy, and the U.S Environmental Protection Agency (the Tri-Parties) will sign a tentative agreement on proposed milestone changes
- The Tri-Parties will issue a notice of upcoming public comment period, ~30 days before the start of public comment on the changes
- The Tri-Parties will hold a 45-day public comment period
  - A public meeting can be held during the public comment period
- After considering public comments, the Tri-Parties will finalize and approve any milestone changes

How can you be involved?

- Look for a ListServ notice about the public comment period
- Review a fact sheet that will accompany the draft milestone changes
- Attend the public meeting
- Submit your comments by email

Questions?

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