

FY24 TrU Advice

Reprise

Hanford Advisory Board

5/7-8/24

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TRU = Transuranic

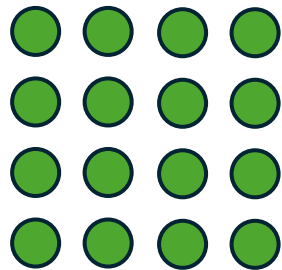
- Waste that has transuranic elements in sufficient quantity that it belongs in a deep geologic repository
- Waste Isolation Pilot Plant in Carlsbad is that repository, and they just refreshed their RCRA permit (next revision in 2032)
- All of the TRU in the country has to go there, unless another repository comes online (it took more than 20 years and an act of Congress to site, permit, and build WIPP).

Highlights of the WIPP Permit

- Site is permitted through 2032 – will likely be extended further
- Adds “Panels” (rooms cut out of salt) to replace storage lost during the 2014 event. Sets aside Panel 12 for “Legacy waste” to the extent practicable.
 - Legacy waste is not defined, and it is up to us to help.
- Tasks DOE with identifying an alternate repository site.

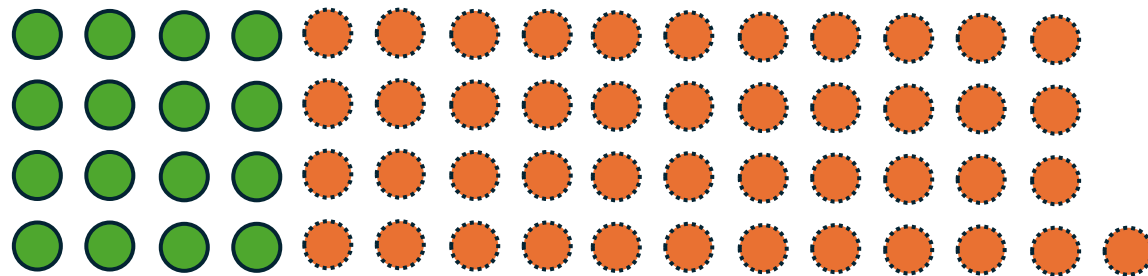
TrU/M of a certain vintage

- Waste that was “stored” after 1970 is “retrievably stored.” At Hanford, that is about 16,000 cubic meters of material, which has milestones for when it needs to go to WIPP (M-091). WIPP has this material on their list of waste to expect.



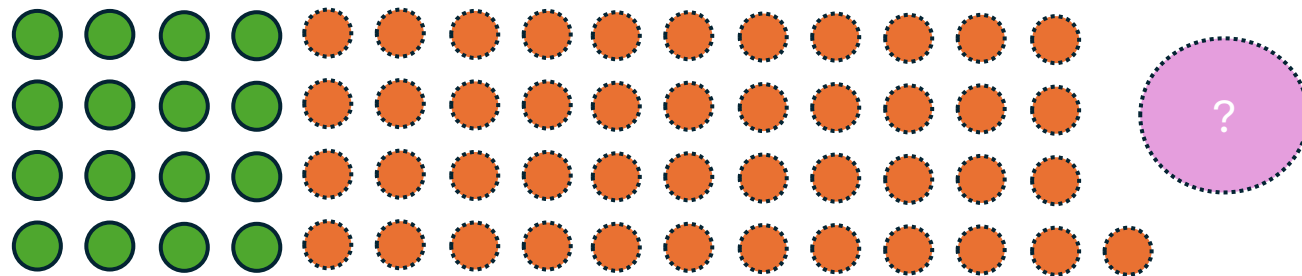
TrU/M of a certain vintage

- Waste that was “stored” **before** 1970 is “suspect TrU.” This material might be considered TrU once it is dug up, but we won't know until it is done. The Project Management Plan tracks waste sites that have suspect TrU and estimates the volume at 45,000 cubic meters. This material does not show up on WIPP's list of what to expect from Hanford and has no milestone for disposal.



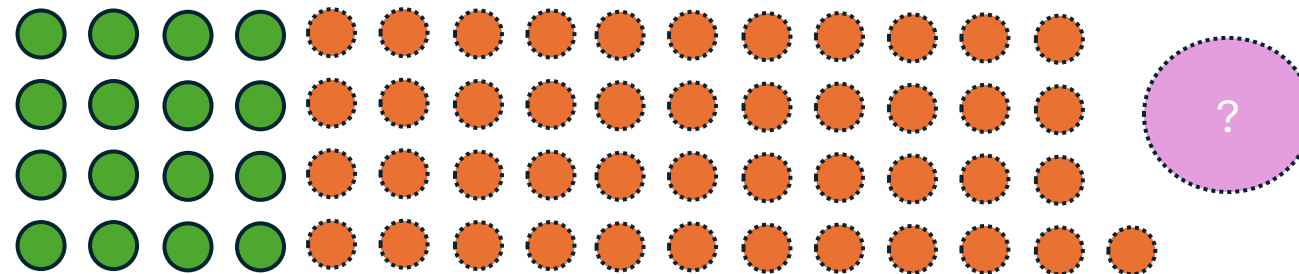
TrU and nothing but the TrU

- There is also waste that is not mixed, but might be associated with building materials, tank infrastructure, or pre-1970 burial grounds without a CERCLA component.



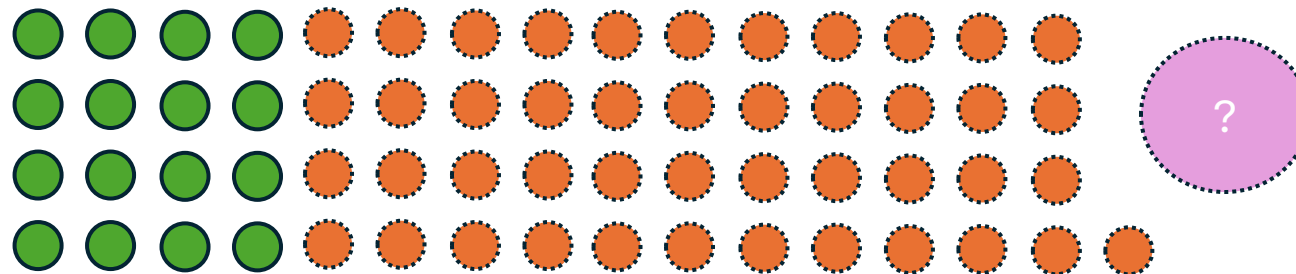
Get a clearer picture on what we have

- Advice point – refine our estimate of what we have and develop a Tru waste system plan to efficiently and safely get the waste to the repository. The plan should describe waste in a manner that is consistent with Carlsbad’s terminology and can be used in Carlsbad’s Legacy Tru Waste Disposal Plan.



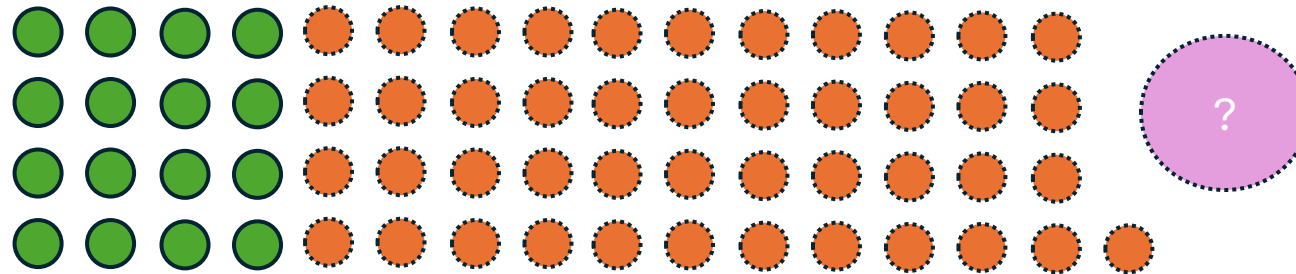
Consider setting a timeline

- Advice point – once the estimated amount is refined a bit, the TPA agencies should consider setting some goals/milestones for the wastes not currently in M-091 to make sure there is progress towards risk reduction.



This is Hanford's "Panel 12 Waste"

- Advice point – The TrU waste system plan should call out in no uncertain terms that this waste should be eligible for Panel 12 – without having Hanford try to define what “legacy waste” is.



Leave no waste behind

- Advice point – since it can take decades to permit site and build a repository, we are asking the DOE office we advise to advocate to HQ. We ask them to pursue a second repository in case WIPP fills up or shuts down before all our Tru Waste gets there.

