EXHUMATION WORKING GROUP
RECAP OF UPDATE PROVIDED AT FEBRUARY 24, 2016 QPM

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West Valley Demonstration Project
Citizens Task Force Meeting
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ACTIVE TASKS

Study 1 – Waste Inventory: Analysis and Application
   ➢ Task 1.1: Comparison of Previous Inventories

Study 2 – Correlation Study: Waste Inventories vs. Field Study Results
   ➢ Task 2.1: Evaluation of Previous Surveys and Modeling
   ➢ Task 2.2: Geophysics Study

Study 3 – Review of Precedent Projects: Application to West Valley
   ➢ Task 3.1: Review of Seven Selected Sites

Path Forward
Questions and Answers
STUDY 1, TASK 1: COMPARISON OF PREVIOUS INVENTORIES

Key Findings: State-Licensed Disposal Area
- Total waste volumes consistent
- Differences in total activity driven by assumed waste profiles
- URS (2002) most refined with respect to waste profiles and considered best for use going forward

Key Findings: NRC-Licensed Disposal Area
- Good agreement in waste volumes across inventories
- Basis and methods of activity estimates varied over the years
- Study results support continued use of the URS (2000) inventory

Key Findings: Waste Tank Farm
- WVNS (2005) recommended for inventories in Tanks 8D-1 and 8D-2
- CH2MILL-B&W West Valley (2012) recommended for inventory in Tank 8D 4

STUDY 2, TASK 1: EVALUATION OF PREVIOUS SURVEYS AND MODELING

Key Findings
- Gamma radiation levels on the surface of the SDA and NDA were indistinguishable from ambient background.
- Based on Microshield modelling, gamma levels would not be discernable in borings at distances of more than 6 feet from even the largest expected activity source in the SDA trenches
- Study Plan for Task 2.3 will be revised following evaluation of waste inventory at a scale of less than 50 feet
**STUDY 3, TASK 1: REVIEW OF SELECTED PROJECTS**

**Key Findings to Date: General**

- Standard excavation equipment used to exhume buried waste
- Special technologies used to process exhumed waste
- Remote technologies used to remove tank waste
- Standard excavation equipment used within tent-like structures at some sites; no structure used at most sites

**PATH FORWARD**

**Study 1:**
- Finalize Task 1.1 Report
- Complete Task 1.2 – Inventory Update

**Study 2:**
- Finalize revised strategy for field studies
- Revise Study Plan for field studies
- Select Geophysics Contractor and perform prove-out study
- Based on results, implement full-scale geophysics study.

**Study 3:**
- Complete remaining work and reports on seven targeted sites
- Continue evaluation of progressive findings as to relevancy to West Valley waste units in support of Task 3.3.