



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

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West Valley Demonstration Project
Citizens Task Force Meeting
March 23, 2016



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



NYSERDA

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*
- *CH2MHILL-B&W West Valley (2012) recommended for inventory in Tank 8D 4*

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



NYSERDA

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*

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STUDY 3 , TASK 1: REVIEW OF SELECTED PROJECTS



NYSERDA

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

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PATH FORWARD



NYSERDA

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.

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