

Santa Susana Field Laboratory  
Interagency Workgroup Meeting  
September 16, 2010

Status of EPA Radiological Studies in Area IV and Northern Buffer Zone

**Radiological Background Study:**

**Purpose:** Determine level of ambient or background levels of radiation in surface and subsurface soil so that they can be compared to levels found during the radiological investigation at SSFL. Note that soils at least 4-5 miles from SSFL were tested to avoid potential impacts from operations at the Lab.

<u>Activity</u>	<u>Completion Date</u>
Background location evaluation and selection	June 2009
Final Sampling Plan	July 2009
Sampling –Mobilization 1	August 2009
Sampling –Mobilization 2	November 2009
Laboratory analyses	In Progress
Data validation	In Progress
Tech Memo/Data Summary	December 2010
Data evaluation and statistical analysis	Nov 2010-Feb 2011
Final Report	April 2011

**Area IV Radiological Studies:**

**Purpose:** Determine the level of residual radiological contamination that remains at Area IV and the Northern Buffer Zone above background levels. There are 3 elements of the EPA's Area IV study described below.

**Historical Site Assessment:** EPA will research historical activities to determine where best to collect soil and water samples. EPA has divided Area IV and the Northern Buffer Zone into 10 areas and will issue reports by area.

<u>Activity</u>	<u>Completion Date</u>
Tech Memo on HSA-5C	July 2010
Tech Memo for HSA-5B	October 2010
Tech Memo for HSA-5A	November 2010
Tech Memo for HSA-6	December 2010
Remaining Tech Memos	Monthly to July 2011

**Surface Gamma Scanning:** EPA is using 4 types of scanning technologies to scan the soil to determine the level of gamma radiation in surface soils.

<u>Activity</u>	<u>Completion Date</u>
Final Gamma Scanning Workplan	February 2010
Gamma Scanning Equipment at SSFL	May/June 2010
July 2010 Gamma scanning begins in HSA-5C	July 2010
Completed 89% of HSA- 5C	August 2010
Began survey of HSA- 5B	August 2010
Complete survey of HSA-5C, 5B, 5A, and 5D	December 2010
Complete gamma scanning of remaining 6 areas	July 2011

**Surface and Subsurface Soil Sampling and Testing:** EPA will be collecting surface and subsurface soils to test for radiological constituents. These samples will be sent to a laboratory for analysis. The following presents

<u>Activity</u>	<u>Completion Date</u>
Soil sampling under NPDES outfall filter media	July 2010
Issue Master Soil Sampling Plan	September 2010
Issue Soil Sample Plan for Area 5C	September 2010
Stakeholder Tech Meeting on Area 5C	September 23, 2010
Start Round 1 sampling in Area 5C	October 14, 2010
Complete procurement of analytical lab	November 2010
Issue Soil Sample Plan for Area 5B	November 2010
Stakeholder Tech Meeting on Area 5B	December 2010
Start Round 1 sampling in Area 5B	December 2010

**Groundwater, Surface Water and Sediment Sampling and Testing:** EPA will be collecting water samples from on-site and off-site groundwater wells and testing surface water and associated sediments for radiological constituents.

<u>Activity</u>	<u>Completion Date</u>
Final Phase I Workplan	August 2010
Phase I Groundwater Sampling	September 2010
Phase I Surface Water and Sediment Sampling	December/January 2010-11
Phase II Groundwater Sampling	Spring 2011

Please visit EPA's website at <http://www.epa.gov/region09/SantaSusana>. EPA places all presentations given to the public on this website as well as workplans and reports.

If you are interested in observing EPA's work at SSFL, we are offering public visitations the 2<sup>nd</sup> and 4<sup>th</sup> Wednesday of each month. Information on how to sign up for visits is on EPA's website.