California Environmental Protection Agency
Regional Water Quality Control Board

SLAC National Accelerator Laboratory
Environmental Restoration Project
Fact Sheet 5 – November 2009

Introduction
This is the fifth in a series of fact sheets that is being distributed to inform the local community about Site Cleanup work being conducted at the SLAC National Accelerator Laboratory (SLAC), located at 2575 Sand Hill Road in Menlo Park, San Mateo County, California. This fact sheet discusses nine areas at SLAC where contaminated soil and sediment will be excavated and transported to permitted off-site commercial landfills. The contaminants include organics and metals released into the soil from former industrial operations at SLAC. Site characterization data and risk evaluations completed to date indicate that these releases to the soil do not pose a risk to nearby residents or workers at SLAC. However, under certain future land use scenarios, the contamination may pose a marginal risk to persons at the site.

In early 2007, the U.S. Department of Energy (DOE) developed the *Stanford Linear Accelerator Center Contingent Removal Action Engineering Evaluation/Cost Analysis* (EE/CA), which provided the public the opportunity to comment on a contingent removal approach to address isolated areas of soil contamination at SLAC that may pose a risk to human health and the environment. The EE/CA also provided the engineering basis for using excavation and off-site disposal to address contamination in these isolated areas. A series of removal actions were successfully completed in 2007 in five of the seven locations initially identified in the EE/CA, and additional removal actions are currently underway.

In the coming year, nine more locations at SLAC that have been identified as problems by using the problem identification methodology in the EE/CA are slated for excavation work. These removal actions are the focus of this fact sheet and are addressed in greater detail in the *Group 2 Removal Action Work Plan Addenda for the SLAC National Accelerator Laboratory*.

Each of these documents is available to the general public at the local Information Repository that has been established in the reference section at the Menlo Park Public Library, located at 800 Alma Street in Menlo Park, as well as at the Water Board office. An electronic version of this report is also available on the State's data management website at http://www.geotracker.swrcb.ca.gov. Open the website and click the "Advanced Search" link that is located under "TOOLS" on the left-hand side of the screen. Enter "2179.7052" (without the quotation marks) into the "CASE ID/GLOBAL ID" field and click the "Search" button at the bottom of the form. On the next screen, click "Report," then the tab labeled "Site Maps/Documents." Finally, click on the title of the report you wish to view.

SLAC Background and Location
Founded in 1962, SLAC is sited on property owned by Stanford University and leased to the U.S. Department of Energy (DOE). SLAC is operated by Stanford University under a contract with DOE. SLAC is home to a two-mile linear accelerator—the longest in the world. Originally a particle physics research center, SLAC is now a multipurpose laboratory for astrophysics, photon science, accelerator and particle physics research. The Regional Water Quality Control Board (RWQCB) is the lead administering regulatory agency for the State of California overseeing the Environmental Restoration Project at SLAC under Site Cleanup Requirements Order ("Order") R2-2009-0072, re-issued to Stanford and DOE in October 2009. The Order addresses the characterization and cleanup of historical releases of chemicals from past operations and materials management, and it consolidates remedial activities and requirements into a consistent regulatory framework.

Removal Action Objectives
Excavation and off-site disposal of constituent-impacted soil and sediment from the areas listed below will reduce or eliminate the direct exposure risk from contaminated soil to future users and/or residents and ecological receptors.

The overall objective of the contingent removal actions is to remove impacted soil and sediment such that the constituents remaining in the soil at these areas are at a level that meets, at a minimum, the established cleanup goals (i.e., human health or ecological Preliminary Remediation Goals, or background metal levels) for the specified constituents of concern.

Removal Action Site Descriptions
The following areas at SLAC have been selected for removal actions because of the presence of one or more constituents of concern at levels above cleanup goals.

Area	**Description of Action**
Casting Pad & Building 18 Area	Approximately 8 banked cubic yards of soil containing polychlorinated biphenyls (PCBs), lead, and benzo(a)pyrene will be removed.
Klystron Gallery Variable Voltage Substation Areas	Approximately 160 banked cubic yards of soil containing PCBs and total petroleum hydrocarbons (TPH) will be removed.
Sector 16 Storage Area Drainage Channel	Approximately 14 banked cubic yards of soil containing PCBs and TPH will be removed.
Interaction Region-8 Drainage Channel	Approximately 205 banked cubic yards of soil containing PCBs and metals will be removed.
Interaction Region-6 Secondary Drainage Channel	Approximately 765 banked cubic yards of soil containing PCBs and metals will be removed.
Building 007 Area	Approximately 31 banked cubic yards of soil containing PCBs, lead, TPH, and polynuclear aromatic hydrocarbons (PAHs) will be removed.
Interaction Region-8 Fill Area	Approximately 950 banked cubic yards of soil containing PCBs will be removed.
Interaction Region-8 Landscape Strip Area	Approximately 44 banked cubic yards of soil containing copper and lead will be removed.
Upper Salvage Yard Area	Approximately 82 banked cubic yards of soil containing PCBs, TPH, lead and copper will be removed.

Public comments on this fact sheet, or requests to be removed from the fact sheet mailing list, may be directed to:

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