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FEDERAL EXPRESS

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In reply refer to SHEA-107095

California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

BOEING

Attention: LB Nye, 401 Certification Program Unit Chief

Reference: CLEANUP AND ABATEMENT ORDER NO. R4-2007-0054

Subject: February 2008 Monthly Monitoring Report Submittal
Northern Drainage and LOX Area Debris Removal Project
Santa Susana Field Laboratory, Ventura County, California

Dear Ms. Nye,

The Boeing Company (Boeing) hereby submits the monthly monitoring report (MMR) for the Santa Susana Field Laboratory (SSFL) Northern Drainage and LOX Area Debris Removal Project (Northern Drainage/LOX Area Project), as required by Section B. xii of Cleanup and Abatement Order No. R4-2007-0054 (CAO). Monthly reports are to provide a summary of wet weather sampling activities and analytical results. Based on CAO requirements, MMRs will be submitted to the California Regional Water Quality Control Board-Los Angeles Region (RWQCB) by the 15th day of each calendar month for the previous month. This report covers wet weather sampling activities during February 2008.

Project History

As previously reported, two distinct debris areas have been identified in the northeast portion of the SSFL, along the Northern Drainage: the LOX Debris Area and the Former Shooting Range/Clay Target Debris Area. In addition to these specific areas, but still within the Northern Drainage, clay target debris has been observed extending westward from the Former Shooting Range down drainage, and foam insulation debris has been observed extending westward from the LOX Debris Area. Based on work scopes, the project has been divided into two specific task areas: the LOX Debris Area and the Northern Drainage Debris Area (including the Former Shooting Range).

Boeing submitted a mitigation work plan to the Department of Toxic Substances Control (DTSC) on September 10, 2007 (*Sage Ranch Debris/Asbestos Removal Work Plan*) for review and approval. In anticipation of commencing this project, Boeing submitted a *Request to Amend a Lake or Streambed Alteration Agreement* to the California Department of Fish and Game (CDFG) on August 15, 2007. Additionally, a site-specific storm water pollution prevention plan (SWPPP) was submitted to the RWQCB on October 10, 2007. Based on discussion and communication with the United States Army Corps of Engineers (ACOE), Clean

Water Act Section 404 authorization or permitting was not necessary or required for this project.

Project Implementation

Soil and debris removal began in the LOX Debris Area on November 14, 2007 and was completed on December 20, 2007. Although the Northern Drainage/LOX Area Project encompasses the LOX Area, the Former Shooting Range Area, and the Northern Drainage, debris removal has only been performed in the LOX Debris Area (this area was most conducive to field work during the rain season). Debris removal in the Former Shooting Range Area/Northern Drainage Debris Area will likely commence in the Spring of 2008 following the 2007-2008 rain season.

The LOX Debris Area removal action was performed in an area covering approximately 0.3 acres, with approximately 2,500 cubic yards of debris and soil removed, shipped off-site and appropriately managed. During field activities, approximately 30 soil confirmation samples were collected under the direction of the DTSC and chemically analyzed. Waste water was not generated during removal activities and, therefore, waste water was not transported off site. To minimize the potential for excessive erosion and impacts to the drainage, best management practices (BMPs) were deployed during field work. These BMPs included straw waddles, straw bales, silt fencing, coco matting, and hydromulch. Hydromulch is a semi-liquid organic binder blended with paper or wood fiber/pulp that is dispersed onto and adheres to the ground surface and soil surface to protect against soil erosion and aid in minimizing sediment transport. Field work was not performed during a rain or flow event.

Wet Weather Flow and Sampling

As required by the CAO, surface water samples are to be collected when wet weather flow discharging downstream of the cleanup area occurs. The samples are to be collected not more than 50 feet upstream or downstream of the work area. To establish whether a rain event resulted in wet weather flow, field inspections are conducted during and after rain events.

Following completion of the removal activities and field work in the LOX Debris Area and during the month of February, Boeing observed rain events on February 3, 2008 and February 20 through February 24, 2008 that resulted in surface water flow through the work area. The SSFL rain gauge recorded a total of 0.74 inches of rain between approximately 12:00 am and 10:00 am on February 3, 2008. The same rain gauge recorded a total of 1.74 inches of rain between approximately 3:00 am on February 20 and 1:00 pm on February 24, 2008.

Field inspections were conducted prior to and during each rain event. Flow was observed and surface water samples were collected on February 3, 2008 and February 22, 2008 from upstream and downstream of the LOX Debris Area, as required in the CAO.

Figure 1 is a site location map showing the LOX Debris Area. Samples were submitted to a state-certified analytical laboratory for chemical analysis in accordance with the requirements of the CAO.

Wet Weather Flow Sample Results Reporting
The following table is a summary of the wet weather flow samples collected during February 2008.

Table 1-Summary of Wet Weather Flow Samples

Sample ID	Description	Sample		Field Readings	
		Date	Time	Temp (deg F)	pH
NDSW0013	SR-downstream	2/3/2008	12:15	48.0	7.3
NDSW0014	LOX-downstream	2/3/2008	13:10	48.0	7.5
NDSW0013	SR downstream	2/22/2008	09:45	49.0	7.9
NDSW0014	LOX-downstream	2/22/2008	10:00	49.0	7.9

SR-Shooting Range Area (upstream of LOX Debris Area)
LOX-LOX Debris Area

All other analyses required in the CAO are being performed by a California-certified analytical laboratory. Analytical results will be submitted in a future MMR subsequent to analytical test completion, data validation, and QA/QC review.

If there are any questions regarding this report, you may contact Ms. Lori Blair at (818) 466-8741.

Sincerely,

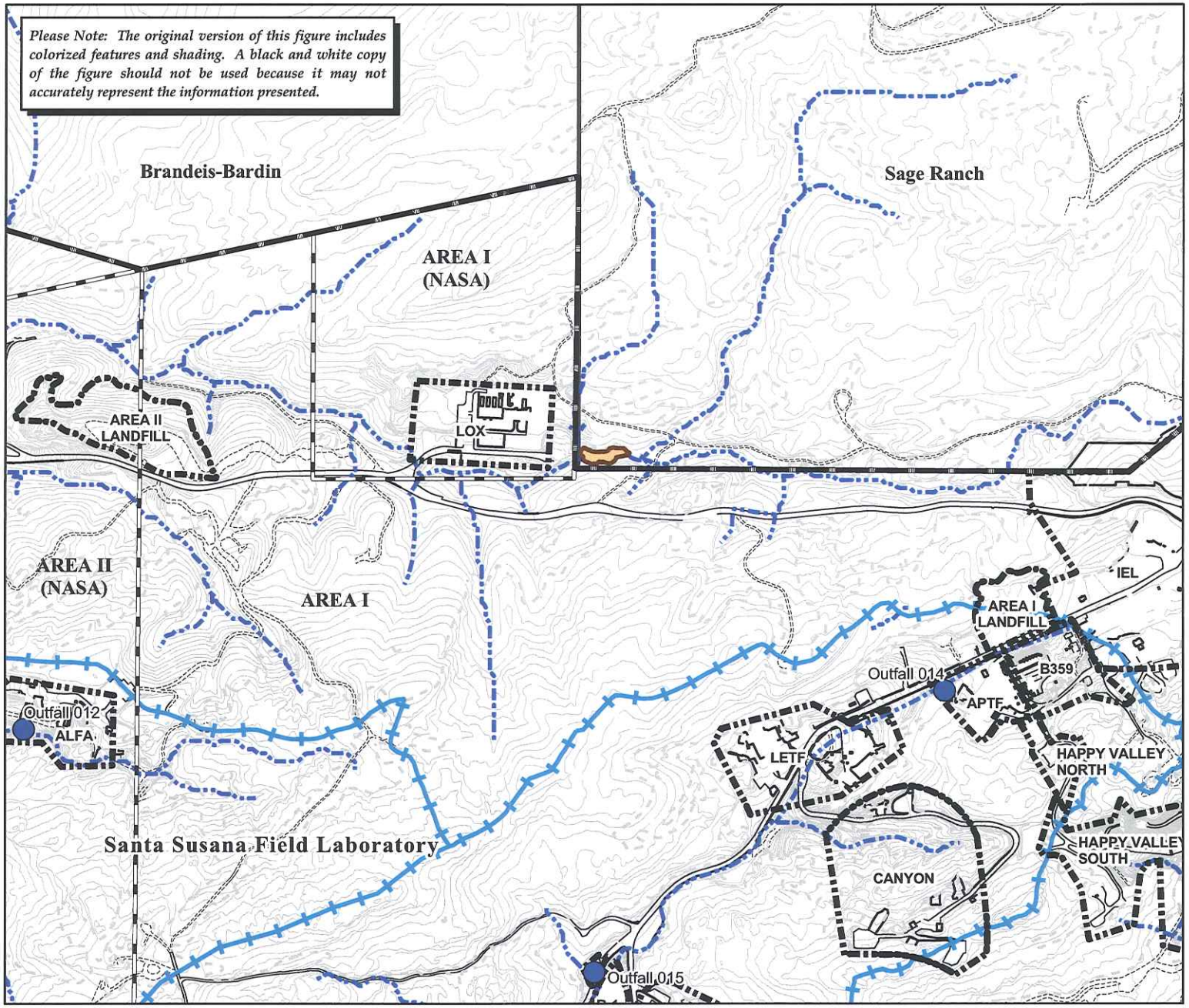
Paul Costa, Manager
Environmental Protection

PC/bjw

Attachments:

Figure 1 – SSFL Northern Drainage LOX Debris Area Location Map

cc: Norm Riley, DTSC
Gerard Abrams, DTSC
Cassandra Owens, RWQCB
Allen Elliott, NASA
Dixie Hambrick, MWH



Base Map Legend

- SSFL Boundary
- Administrative Area Boundary
- A/C Curbing
- Dirt Road
- Rock Outcrop
- Elevation Contour
- Drainage
- NPDES Outfall

Extent of LOX Debris/Asbestos

SSFL - NORTHERN DRAINAGE LOX DEBRIS AREA LOCATION MAP

Date: Jan 08, 2008
Document: LOX_AsbestosLocation.mxd

1 inch equals 700 feet

0 700 1,400 Feet

SANTA SUSANA FIELD LABORATORY

MWH

FIGURE 1