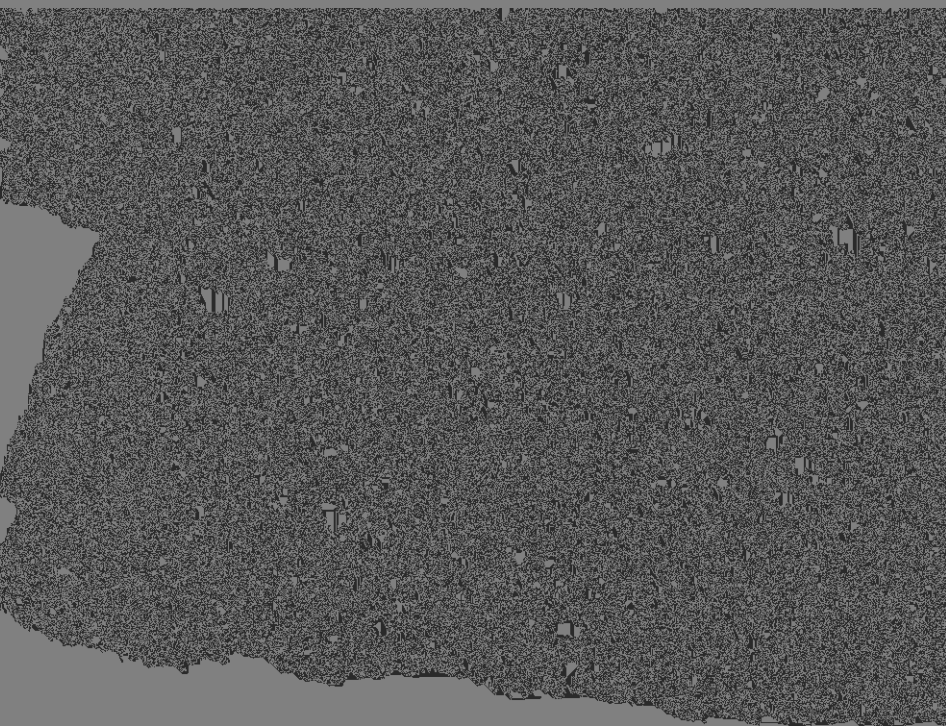


SHEA
Ms.
Mr. J
Sept
Page



Attac
MW
Pipel





BUILDING A BETTER WORLD

Hand Delivered

September 18, 2009

Mr. Art Lenox
Ms. Lori Blair
The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Road
Canoga Park, CA 91304

Subject: HVS-2A Soil Collapse Feature and Pipeline Removal Summary and Plan, Letter Amendment to the Final Interim Source Removal Action (ISRA) Work Plan, California Water Code Section 13304 Order (NPDES NO. CA0001309, CI NO. 6027, SCP NO. 1111, SITE ID NO. 2040109)

Dear Mr. Lenox and Ms. Blair:

MWH provides the following letter amendment to the Final Interim Source Removal Action (ISRA) Work Plan in response to the identification of a soil collapse area and metal pipeline within Outfall 008 in the vicinity of ISRA Area HVS-2A. This letter summarizes historical information and characterization results of the pipeline and collapse feature soils, in addition to the management, disposal, and confirmation plan for these features.

Background

A soil collapse feature and a metal pipeline were identified in the western portion of ISRA Area HVS-2A following vegetation clearance performed between August 18 and 19, 2009. The location of the soil collapse feature and metal pipeline are shown in Figure 1. The soil collapse feature is approximately 18 feet wide in the northwest-southeast direction, 10 feet wide in the northeast-southwest direction at the widest portion, with a maximum depth of 3 to 4 feet



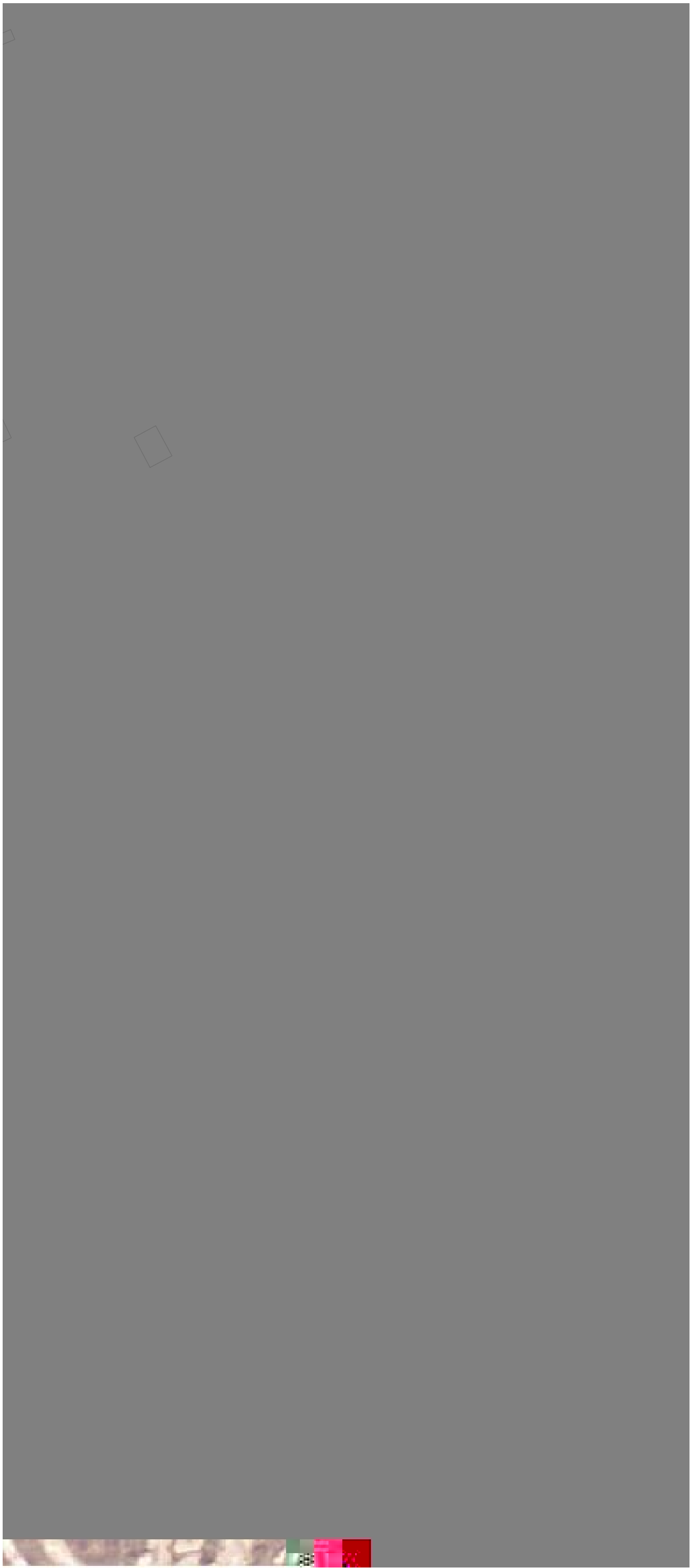
pit investigation on September 11, 2009 confirmed that the northern terminus of the pipeline is approximately 100 feet north-northeast of the collapse feature as shown in Figure 1.

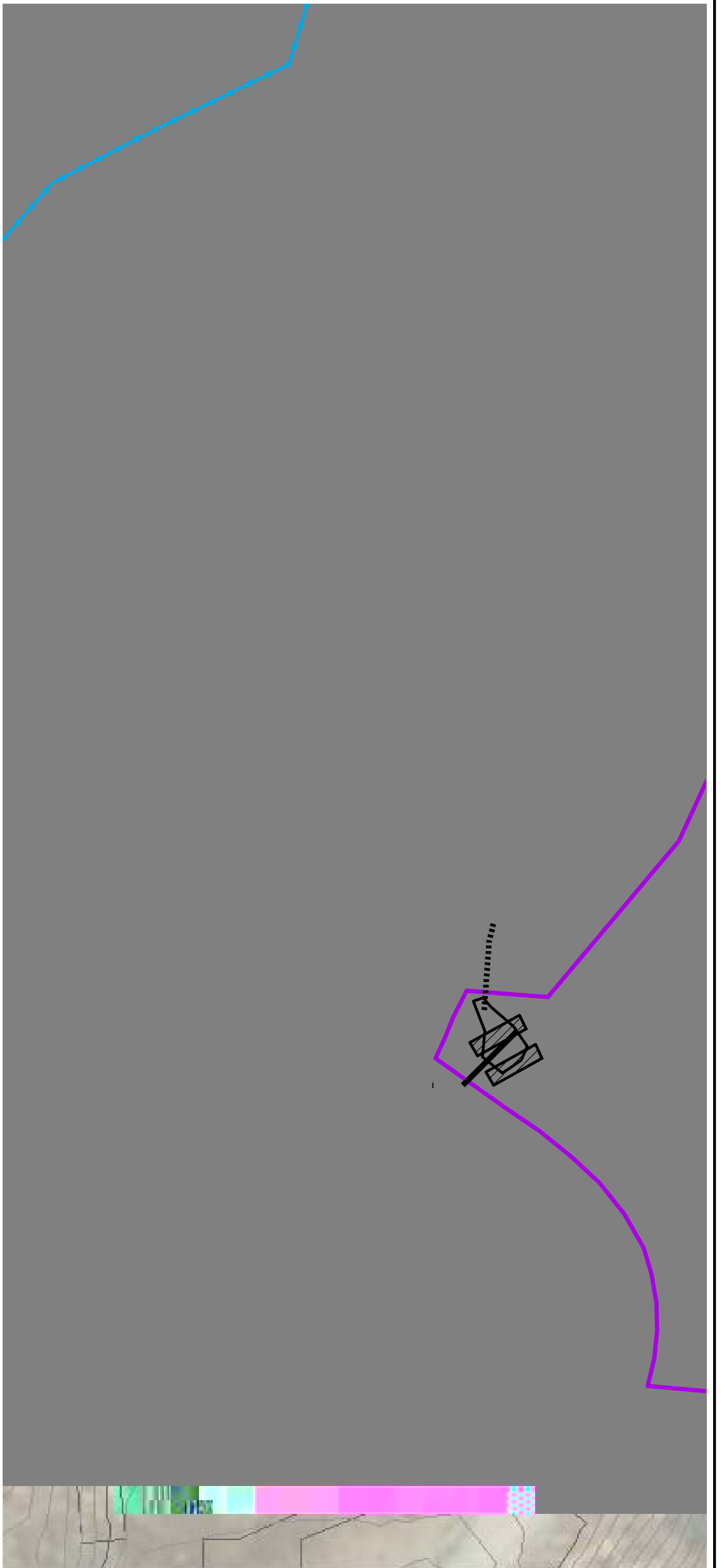
A review of historical records suggests that this pipeline may have been a natural gas

characterize soils within the collapse feature and analyzed for metals, energetics, perchlorate, total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), and asbestos. Bedrock was encountered at 4 feet bgs in the southeast portion of the soil collapse feature, and was about 6 feet deep near the exposed pipeline. In addition, three samples of the coal tar pipe wrap were collected and analyzed for asbestos and one for PCBs. The soil sampling, laboratory analysis, and quality control samples were conducted according to Department of Toxic Substances Control (DTSC)-approved RFI field Standard Operating Procedures and Quality Assurance Project Plan (QAPP) requirements.

Sampling results are presented in Table 1, along with a comparison of detected results to the DTSC-approved 2005 background comparison concentrations and current characterization risk-based screening levels (RBSLs) submitted to DTSC in March 2009. For detected constituents where both Human Health and Ecological RBSLs exist, the lower RBSL is shown. Soil sample results are either non-detect or if detected, below background concentrations (in the case of metals), or less than RBSLs, except for PCBs in the subsurface sample collected from HZBS0174, located near the pipeline terminus. Aroclor-1248, Aroclor-1254, and Aroclor-1260 were detected in the sample at concentrations of 274, 222, and 91.5 microgram

- Soils covering the buried pipeline are cons





**TABLE 1
INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 008**

**SOIL COLLAPSE FEATURE AND PIPELINE SAMPLING RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

HZBS0135	HZBS0173	HZBS0173	HZBS0174	HZBS0174	HZSO0001	--	--	--
HZBS0135S001	HZBS0173S001	HZBS0173S002	HZBS0174S001	HZBS0174S002	HZSO0001S001	SSFL-HV-090209-1	SSFL-HV-090209-2	SSFL-HV-090209-3
7/14/2009	8/20/2009	8/20/2009	8/20/2009	8/20/2009	9/3/2009	9/2/2009	9/2/2009	9/2/2009
0.0 - 0.5	0.5 - 1.0	3.5 - 4.0	0.5 - 1.0	4.5 - 5.0	--	--	--	--

Lowest

ANALYTE

UNITS Background ^a

**TABLE 1
INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 008**

**SOIL COLLAPSE FEATURE AND PIPELINE SAMPLING RESULTS
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

		<table border="1"> <tr> <td>Object Name:</td> <td>HZBS0135</td> <td>HZBS0173</td> <td>HZBS0173</td> <td>HZBS0174</td> <td>HZBS0174</td> <td>HZSO0001</td> <td>--</td> <td>--</td> <td>--</td> </tr> <tr> <td>Sample Name:</td> <td>HZBS0135S001</td> <td>HZBS0173S001</td> <td>HZBS0173S002</td> <td>HZBS0174S001</td> <td>HZBS0174S002</td> <td>HZSO0001S001</td> <td>SSFL-HV-090209-1</td> <td>SSFL-HV-090209-2</td> <td>SSFL-HV-090209-3</td> </tr> <tr> <td>Collection Date:</td> <td>7/14/2009</td> <td>8/20/2009</td> <td>8/20/2009</td> <td>8/20/2009</td> <td>8/20/2009</td> <td>9/3/2009</td> <td>9/2/2009</td> <td>9/2/2009</td> <td>9/2/2009</td> </tr> <tr> <td>Sample Depth (feet bgs):</td> <td>0.0 - 0.5</td> <td>0.5 - 1.0</td> <td>3.5 - 4.0</td> <td>0.5 - 1.0</td> <td>4.5 - 5.0</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </table>											Object Name:	HZBS0135	HZBS0173	HZBS0173	HZBS0174	HZBS0174	HZSO0001	--	--	--	Sample Name:	HZBS0135S001	HZBS0173S001	HZBS0173S002	HZBS0174S001	HZBS0174S002	HZSO0001S001	SSFL-HV-090209-1	SSFL-HV-090209-2	SSFL-HV-090209-3	Collection Date:	7/14/2009	8/20/2009	8/20/2009	8/20/2009	8/20/2009	9/3/2009	9/2/2009	9/2/2009	9/2/2009	Sample Depth (feet bgs):	0.0 - 0.5	0.5 - 1.0	3.5 - 4.0	0.5 - 1.0	4.5 - 5.0	--	--	--	--
Object Name:	HZBS0135	HZBS0173	HZBS0173	HZBS0174	HZBS0174	HZSO0001	--	--	--																																											
Sample Name:	HZBS0135S001	HZBS0173S001	HZBS0173S002	HZBS0174S001	HZBS0174S002	HZSO0001S001	SSFL-HV-090209-1	SSFL-HV-090209-2	SSFL-HV-090209-3																																											
Collection Date:	7/14/2009	8/20/2009	8/20/2009	8/20/2009	8/20/2009	9/3/2009	9/2/2009	9/2/2009	9/2/2009																																											
Sample Depth (feet bgs):	0.0 - 0.5	0.5 - 1.0	3.5 - 4.0	0.5 - 1.0	4.5 - 5.0	--	--	--	--																																											
ANALYTE	UNITS	Background ^a	Lowest Characterization RBSL ^b	RBSL Type	RESULT	RESULT ^c	RESULT ^c	RESULT ^c	RESULT ^c	RESULT ^c	RESULT ^c	RESULT ^c																																								
Chrysotile ^d	%	--	--	--	--	ND	ND	ND	ND	--	20	20	20																																							
PERCHLORATE																																																				
Perchlorate	µg/L	--	--	--	--	<4	<40	<4	<4	--	--	--	--																																							
PCBs																																																				
Aroclor-1016	µg/kg	--	--	--	--	<3.42	<3.54	<3.49	<34.9	<2,880	--	--	--																																							
Aroclor-1221	µg/kg	--	--	--	--	<3.42	<3.54	<3.49	<34.9	<2,880	--	--	--																																							
Aroclor-1232	µg/kg	--	--	--	--	<3.42	<3.54	<3.49	<34.9	<2,880	--	--	--																																							
Aroclor-1242	µg/kg	--	--	--	--	<3.42	<3.54	<3.49	<34.9	<2,880	--	--	--																																							

