

VIA FED EX

December 20, 2012

In reply refer to: SHEA-112836

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

Attention: Mr. Peter Raftery

Subject: Fourth Quarter Progress Report for September 15, 2012 - December 14, 2012 Activity,

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Dear Mr. Raftery:

In the Final ISRA Work Plan and the BMP Plan, Boeing and NASA proposed to provide the Los Angeles Regional Water Quality Control Board (RWQCB) with quarterly progress reports until work is complete. This Quarterly Progress Report is submitted for the fourth quarter 2012 and summarizes ISRA and BMP Plan activities performed during the period of September 15, 2012 through December 14, 2012.

ISRA activities at the Santa Susana Site are being conducted pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. The BMP Plan was prepared pursuant to the National Pollution Discharge Elimination System (NPDES) Permit (Order No. R4-2010-0090), adopted by the RWQCB on June 3, 2010. ISRA and BMP Plan activities are being implemented under oversight of the RWQCB with the objective of achieving compliance with the Waste Discharge Requirements (WDRs) for Outfalls 008 and 009 established in the NPDES Permit.

Per the RWQCB's request, Boeing provides monthly progress reports on the ISRA and BMP Plan activities to the RWQCB Executive Officer. This quarterly progress report is a compilation of the monthly progress reports for the period of September 15, 2012 through December 14, 2012, which are attached to provide the complete list of ISRA and BMP Plan activities performed during the period covered by this quarterly report.

The ISRA and BMP Plan Quarterly Reports are posted on the ISRA website at:

http://www.boeing.com/aboutus/environment/santa susana/isra.html

If you have any questions or require anything further, please contact Art Lenox at 818-466-8795.

Sincerely,

rt Lenox

Boeing Remediation

Environment, Health and Safety



Peter Raftery, RWQCB SHEA-112836 December 20, 2012

AL:jag

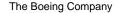
Attachments:

October 2012 Monthly Progress Report (September 15, 2012 – October 19, 2012) November 2012 Monthly Progress Report (October 20, 2012 – November 16, 2012) December 2012 Monthly Progress Report (November 17, 2012 – December 14, 2012)

cc: Ms. Cassandra Owens, RWQCB, w/ attachments

Mr. Mark Malinowski, DTSC, w/ attachments

Mr. Buck King, DTSC, w/ attachments Mr. Allen Elliott, NASA, w/ attachments Mr. Peter Zorba, NASA, w/ attachments



5800 Woolsey Canyon Road Canoga Park, CA 91304-1148



Date: 10/29/2012 No.: SHEA-112583

To: Sam Unger From: Art Lenox

Executive Officer Santa Susana

LA Regional Water Quality Control Environment, Health & Safety Board

Subject: October 2012 Monthly Progress Report for September 15, 2012 - October 19, 2012 Activity,

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of September 15, 2012 to October 19, 2012. In addition, a 30 day Look-Ahead is provided.

ISRA activities at the Santa Susana Site are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. To track the ISRA activities, meetings have been held on a weekly basis from April 16, 2009 through June 29, 2011, and biweekly since July 2011. During this reporting period, the meeting participants have consisted of RWQCB staff, DTSC staff, Surface Water Expert Panel Members, Boeing, and NASA. For the period from mid-September to mid-October, the primary activities have been continuing AP/STP ISRA implementation activities on NASA property, conducting waste characterization soil sampling at ISRA area ELV-1C on NASA property, and planning for ISRA implementation at ISRA area IEL-3 on Boeing property. In addition, inspections of erosion control BMPs were performed at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP, and Performance Monitoring and BMP Monitoring inspections were conducted.

A BMP Plan was prepared by Boeing and NASA, with considerable input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. A list of new BMP recommendations was developed based on a statistical evaluation performed on available data, which is presented in the 2010-2011 Rainy Season Summary Report. A BMP Plan Addendum was submitted to the RWQCB in September 2011 that provides additional detail on the new BMP recommendations and the implementation schedule. For the period from mid-September to mid-October, the primary activities associated with BMPs have been continuing construction of the Lower Parking Lot Sediment Basin and Biofilter, completing installation of structural BMPs for the Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP) channel stabilization measures, completing installation of the LOX BMPs, and submitting the 2012 BMP Work Plan Addendum to the RWQCB.

Accomplishments and upcoming actions for both the ISRA and BMP programs are listed below.

Activities Performed - September 15, 2012 to October 19, 2012

- September 15, 2012 October 19, 2012:
 - In coordination with the Expert Panel, continued planning and design activities for the Helipad and ELV BMPs.
- September 17, 2012: Performed confirmation and RWQCB split soil sampling at ISRA area AP/STP-1C-1.
- September 19, 2012: Replaced plastic covering ELV-1C (eastern and western portions).
- September 19, 2012: Conducted biological monitoring of Northern Drainage RMMP channel stabilization measures.
- September 20, 2012: Completed installation of structural BMPs for the Northern Drainage RMMP channel stabilization measures.
- September 25, 2012: RWQCB conducted site visit to observe Lower Parking Lot BMP activities.
- September 25 26, 2012: Performed confirmation and RWQCB split soil sampling at ISRA area AP/STP-1C-1.
- September 26, 2012: NASA met with Dr. Gearheart and Dr. Stenstrom (Expert Panel members) to discuss BMP status and the Expert Panel's recommendations in NASA administered areas.
- September 28, 2012: Submitted the 2012 BMP Plan Addendum to the RWQCB.
- September 28, 2012: Conducted investigation of unknown feature east of ISRA area AP/STP-1C-1;
 DTSC on site to observe.
- September 28, 2012: Performed radiological waste characterization step-out sampling at ISRA area ELV-1C.
- September 28, 2012: Completed additional excavation activities at ISRA areas AP/STP-1B (east portion), AP/STP-1C-2, and AP/STP-1E-2.
- October 1, 2012: Performed confirmation and RWQCB split soil sampling at ISRA areas AP/STP-1B (east portion), AP/STP-1C-2, and AP/STP-1E-2.
- October 2, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.
- October 3, 2012: Submitted memorandum prepared by Padre Associates concerning Oak Trees in AP/STP ISRA areas to RWQCB.
- October 3, 2012: Performed weekly BMP inspections at 2010 and 2011/2012 ISRA areas, per the ISRA SWPPP.
- October 3, 2012: Removed excess sediment from culvert basins at CM-1, CM-2, CM-3, CM-4, CM-8, CM-9, CM-10, and CM-11, and cleaned and re-secured fabric covering weir boards at CM-1, CM-3, and CM-9.
- October 3, 2012: Reviewed AP/STP-1C-1 confirmation sample metals results and additional excavation plan with RWQCB and DTSC.
- October 4, 2012: Submitted the 401c permit application for remaining BMP work within the Outfall 008 drainages to the RWQCB.

- October 5, 2012: Completed planned excavation at ISRA area AP/STP-1B.
- October 8, 2012: Performed confirmation and RWQCB split soil sampling at ISRA area AP/STP-1B.
- October 8, 2012: RWQCB conducted site visit to observe Lower Parking Lot BMP activities.
- October 9, 2012: Conducted biological survey at the Lower Parking Lot BMP construction area.
- October 9, 2012: Installed temporary BMPs at the Lower Parking Lot BMP prior to forecasted rain event.
- October 10, 2012: Installed temporary BMPs at AP/STP ISRA areas prior to forecasted rain event.
- October 10, 2012: Performed pre-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- October 11, 2012: Conducted rain event Performance Monitoring and BMP Monitoring inspections; no flow observed (note that monitoring activities limited by lightning).
- October 12, 2012: Performed post-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- October 12, 2012: Completed offsite disposal of AP/STP ISRA area waste soils from planned excavation areas.
- October 16, 2012: Met with Ventura County to review responses to Ventura County comments on the Building Permit Application for the Lower Parking Lot BMP cistern.
- October 17, 2012: Conducted biological survey at the Lower Parking Lot BMP construction area.
- October 17, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.
- October 17, 2012: Performed weekly SWPPP inspections at 2010 and 2011 ISRA areas per the ISRA SWPPP.

30-Day Look ahead – through November 16, 2012

- Boeing/NASA Continue inspections of erosion control BMPs at ISRA areas, per the ISRA SWPPP.
- Boeing/NASA Continue Performance Monitoring and BMP Monitoring during rain events, per the 2012-2013 Rainy Season SAP.
- Boeing Continue planning activities for ISRA implementation at ISRA area IEL-3, including collection of waste characterization samples.
- Boeing/NASA Begin planning activities for ISRA implementation at ISRA area ELV-1C.
- Boeing/Expert Panel Install native plants to complete the Northern Drainage RMMP channel stabilization measures, tentatively scheduled for early November.
- Boeing/NASA/Expert Panel Continue BMP planning and design activities for the Helipad and ELV BMPs.
- Boeing Continue construction of the Lower Parking Lot BMP and receive the Building/Piping/Electrical permit from Ventura County.

Mr. S. Unger, RWQCB (SHEA-112583) October 29, 2012 Page 4

Approved By:

Art Lenox

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Environment, Health and Safety

Distribution:

Mr. Peter Raftery, RWQCB

Ms. Cassandra Owens, RWQCB

Mr. Buck King, DTSC

Mr. Allen Elliott, NASA

Mr. Peter Zorba, NASA



The Boeing Company Santa Susana Field Laborator 5800 Woolsey Canyon Road Canoga Park, CA 91304-1148

Date:

11/27/2012

No.:

SHEA-112748

To:

Sam Unger

Executive Officer

LA Regional Water Quality Control

Board

From:

Art Lenox

Santa Susana

Environment, Health & Safety

November

Subject:

October 2012 Monthly Progress Report for October 20, 2012 - November 16, 2012 Activity,

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of October 20, 2012 to November 16, 2012. In addition, a 30 day Look-Ahead is provided.

ISRA activities at the Santa Susana Site are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. To track the ISRA activities, meetings have been held on a weekly basis from April 16, 2009 through June 29, 2011, and biweekly since July 2011. During this reporting period, the meeting participants have consisted of RWQCB staff, DTSC staff, Surface Water Expert Panel Members, Boeing, and NASA. For the period from mid-October to mid-November, the primary activities have been performing data gap and radiological waste characterization soil sampling at ISRA area ELV-1C, continuing AP/STP ISRA implementation activities, starting ISRA implementation activities at ISRA area ELV-1C (western portion only), conducting waste characterization soil sampling at ISRA area IEL-3, and preparing the 2012/2013 Rainy Season SAP. In addition, inspections of erosion control BMPs were performed at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP, and Performance Monitoring and BMP Monitoring inspections were conducted.

A BMP Plan was prepared by Boeing and NASA, with considerable input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. BMP recommendations were developed based on statistical evaluations performed on a yearly basis, which are presented in the 2010-2011 and 2011-2012 Rainy Season Summary Reports. BMP Plan Addenda were submitted to the RWQCB in September 2011 and 2012 that provide additional detail on the BMP recommendations in the yearly summary reports, and the implementation schedule. For the period from mid-October to mid-November, the primary activities associated with BMPs have been continuing construction of the Lower Parking Lot Sediment Basin and Biofilter, completing the Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP) channel stabilization measures, and installing BMPs in the B-1 area as recommended in the 2012 BMP Plan Addendum.

Accomplishments and upcoming actions for both the ISRA and BMP programs are listed below.

Activities Performed – October 20, 2012 to November 16, 2012

- October 20, 2012 November 16, 2012:
 - In coordination with the Expert Panel, continued planning and design activities for the Helipad and ELV BMPs.
- October 22 23, 2012: Performed waste characterization sampling at ISRA area IEL-3.
- October 23, 2012: Enhanced the sand bag berm at the Helipad by raising the height and covering the berm with plastic sheeting.
- October 24, 2012: Performed weekly SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- October 24, 2012: Received approval from Ventura County on building permit for the Lower Lot BMP.
- October 25, 2012 November 1, 2012: Performed soil removal at go-back locations at ISRA area AP/STP-1C-1.
- October 26 29, 2012: Installed BMPs in the B-1 area recommended in the 2012 BMP Plan Addendum including curb cuts, installing rip rap check dams, and installing container plants.
- October 30, 2012: Performed weekly SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- October 30, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.
- November 2, 2012: Performed confirmation and RWQCB split soil sampling at ISRA area AP/STP-1C-1.
- November 2, 2012: Performed data gap and additional radiological waste characterization soil sampling at ISRA area ELV-1C.
- November 2, 2012: Finalized the 2012/2013 ISRA Performance Monitoring and BMP Subarea Monitoring Rainy Season SAP (figures and tables only).
- November 2 7, 2012: Performed soil removal at go-back locations at ISRA area AP/STP-1B.
- November 5, 2012: Surveyed excavation boundaries of AP/STP ISRA areas.
- November 6, 2012: Performed weekly SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- November 7, 2012: Replaced sand bag berm at foot of former CTLI-1 access road, adjacent to CM-6.
- November 8, 2012: Performed confirmation soil sampling at go-back locations at ISRA area AP/STP-1B.
- November 9, 2012: Completed the Northern Drainage RMMP channel stabilization measures.
- November 12, 2012: Began ISRA implementation at ISRA area ELV-1C (western portion).
- November 12, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.

Mr. S. Unger, RWQCB (SHEA-112748) November 27, 2012 Page 3

 November 15, 2012: Performed weekly SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.

30-Day Look ahead - through December 14, 2012

- Boeing/NASA Continue inspections of erosion control BMPs at ISRA areas, per the ISRA SWPPP.
- Boeing/NASA Continue Performance Monitoring and BMP Monitoring during rain events, per the 2012-2013 Rainy Season SAP.
- Boeing/NASA Complete ISRA implementation activities at AP/STP ISRA areas.
- Boeing/NASA Continue ISRA implementation activities at ISRA area ELV-1C.
- Boeing Continue planning activities for ISRA implementation at ISRA area IEL-3.
- Boeing/NASA/Expert Panel Continue BMP planning and design activities for the Helipad and ELV BMPs.
- Boeing Continue construction of the Lower Parking Lot BMP, including cistern and piping area excavation and installation of the cistern.

Approved By:

And Lenox

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Distribution:

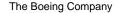
Mr. Peter Raftery, RWQCB

Ms. Cassandra Owens, RWQCB

Mr. Buck King, DTSC

Mr. Allen Elliott, NASA

Mr. Peter Zorba, NASA



5800 Woolsey Canyon Road Canoga Park, CA 91304-1148



Date: 12/20/2012 No.: SHEA-112846

To: Sam Unger From: Art Lenox
Executive Officer Santa Susana

LA Regional Water Quality Control Environment, Health & Safety

Board

Subject: December 2012 Monthly Progress Report for November 17, 2012 - December 14, 2012

Activity, Interim Source Removal Action (ISRA) and Best Management Practices (BMP)

Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of November 17, 2012 to December 14, 2012. In addition, a 30 day Look-Ahead is provided.

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A BMP Plan was prepared by Boeing and NASA, with considerable input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. BMP recommendations were developed based on statistical evaluations performed on a yearly basis, which are presented in the 2010-2011 and 2011-2012 Rainy Season Summary Reports. BMP Plan Addenda were submitted to the RWQCB in September 2011 and 2012 that provide additional detail on the BMP recommendations in the yearly summary reports, and the implementation schedule. For the period from mid-November to mid-December, the primary activities associated with BMPs have been continuing construction of the Lower Parking Lot BMP, augmenting the temporary BMP at the Helipad, starting installation of BMPs within Outfall 008 drainages, and installing slope protection BMPs along the north side of Area II Road east of CM-9 as recommended in the 2012 BMP Plan Addendum. In addition, BMP monitoring was performed during rain events.

Accomplishments and upcoming actions for both the ISRA and BMP programs are listed below.

Activities Performed – November 17, 2012 to December 14, 2012

- November 17, 2012 December 14, 2012:
 - In coordination with the Expert Panel, continued planning and design activities for the Helipad and ELV BMPs.
- November 17, 2012: Conducted ISRA Performance Monitoring and BMP Subarea Monitoring inspections and sampling.
- November 17, 2012: Performed rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- November 19, 2012: Performed post-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- November 14 20, 2012: Applied hydroseed to B-1, A2LF, LOX, CM-5, and Northern Drainage areas.
- November 19, 2012: Installed slope protection BMPs (jute matting, fiber rolls, and sand bags) along the north side of Area II Road east of CM-9 as recommended in the 2012 BMP Plan Addendum.
- November 20, 2012: Reviewed ELV-1C confirmation sampling plan with DTSC and the RWQCB.
- November 20, 2012: Received 401c permit approval to install BMPs within Outfall 008 drainages.
- November 21, 2012: Completed planned excavation activities at ISRA area ELV-1C within non-hazardous and non-radiological areas (western portion).
- November 27, 2012: Collected confirmation and RWQCB split soil samples from ISRA area ELV-1C (western portion).
- November 27, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.
- November 27, 2012: Augmented the temporary BMP at the Helipad, including raising Berm A
 (eastern berm) with additional sand bags and installing a pump and HDPE conveyance line to pump
 stormwater captured behind this berm to storage tanks at Outfall 010. Water collected in the
 storage tanks is then pumped to Silvernale.
- November 27 30, 2012: Performed street sweeping at the Lower Parking Lot and along Area II Road from Helipad Road to CM-1.
- November 28, 2012: Collected soil samples from the stockpile of soil excavated from the Lower Parking Lot BMP (Biofilter) to evaluate potential onsite reuse of the soil.
- November 28, 2012: Performed pre-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- November 29, 2012 December 3, 2012: Performed rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- November 29, 2012

 December 3, 2012: Conducted ISRA Performance Monitoring and BMP Subarea Monitoring inspections and sampling.
- November 30, 2012: Installed an additional two rows of sand bags upstream of ISRA area ELV-1C.

- December 1, 2012: Performed maintenance of BMPs, including adding supplemental gravel to cover exposed edges of geocell at LOX and installing additional sand bags and fiber rolls at western corner of wooden retaining wall at the Lower Lot to address sediment washing out from beneath structure.
- December 3, 2012: Performed post-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- December 3 4, 2012: Installed jute matting and fiber rolls to cover exposed soil along slope west of Helipad Road and cleared away small boulders and swept loose sediment within asphalt swale along Helipad Road.
- December 7, 2012: Ventura County conducted site visit to inspect Lower Parking Lot BMP activities.
- December 10, 2012: Ventura County conducted site visit to inspect the Lower Parking Lot BMP activities.
- December 10 11, 2012: Installed additional slope protection BMPs (jute matting, fiber rolls, and gravel) along the north side of Area II Road east of CM-9 as recommended in the 2012 BMP Plan Addendum.
- December 11, 2012: Added supplemental gravel to road into Happy Valley and installed two rip rap check dams in tributaries upstream of Outfall 008 flume.
- December 11 12, 2012: Conducted street sweeping at the Lower Parking Lot.
- December 12, 2012: Performed pre-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP.
- December 13, 2012: Performed rain event SWPPP inspections at 2010 and 2011/2-12 ISRA areas per the ISRA SWPPP.
- December 13, 2012: Conducted ISRA Performance Monitoring and BMP Subarea Monitoring inspections.

30-Day Look ahead – through January 18, 2012

- Boeing/NASA Continue inspections of erosion control BMPs at ISRA areas, per the ISRA SWPPP.
- Boeing/NASA Continue Performance Monitoring and BMP Monitoring during rain events, per the 2012-2013 Rainy Season SAP.
- Boeing/NASA Conduct restoration activities and hydroseeding at AP/STP ISRA areas.
- Boeing/NASA Complete excavation activities at ISRA area ELV-1C (western portion) and begin site restoration.
- Boeing Perform implementation activities at ISRA area IEL-3.
- Boeing/NASA/Expert Panel Continue BMP planning and design activities for the Helipad and ELV BMPs.
- Boeing Continue construction of the Lower Parking Lot BMP, including cistern and piping area excavation and installation of the cistern; project scheduled to be complete in late January.

Mr. S. Unger, RWQCB (SHEA-112846) December 20, 2012 Page 4

Approved By:

Art Lenox

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Environment, Health and Safety

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