



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

Via e-mail

March 30, 2012
In reply refer to: SHEA-111906

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

Attention: Mr. Peter Raftery

Subject: First Quarter Progress Report for December 17, 2011 – March 16, 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 first quarter 2012 and summarizes ISRA and BMP Plan activities performed during the period of December 17, 2011 through March 16, 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 December 17, 2011 through March 16, 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



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

Sincerely,

A handwritten signature in black ink, appearing to read 'Art Lenox', written over a light blue horizontal line.

Art Lenox
Boeing Remediation
Environment, Health and Safety

Attachments:

January 2012 Monthly Progress Report (December 17, 2011 – January 18, 2012)
February 2012 Monthly Progress Report (January 19, 2012 – February 17, 2012)
March 2012 Monthly Progress Report (February 18, 2012 – March 16, 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



Date: 01/26/2012 No.: SHEA-111739

To: Sam Unger
Executive Officer
LA Regional Water Quality Control
Board

From: Tom Gallacher
Director
Santa Susana
Environment, Health & Safety

Subject: January 2012 Monthly Progress Report for December 17, 2011 - January 18, 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 December 17, 2011 to January 18, 2012. In addition, a 30 day Look-Ahead is also 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-December to mid-January, the primary activities associated with 2011 ISRA areas were inspections of erosion control BMPs that were conducted at 2009, 2010, and 2011 ISRA areas per the ISRA Storm Water Pollution Prevention Plan (SWPPP).

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-December to mid-January, the primary activities associated with BMPs have been completing B-1 culvert modification reconstruction activities and continuing planning activities for the BMPs at the Lower Parking Lot, the Helipad, and the ELV.

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

Activities Performed – December 17, 2011 to January 20, 2012

- December 17, 2011 – January 20, 2012:
 - Lower Parking Lot Biofilter – Southern California Edison (SCE) has reviewed the lower lot design and responded that they will not allow the proposed work within their easement. Geosyntec is currently working with the Expert Panel to develop a revised design concept that will be located outside this easement.

- In coordination with the Expert Panel, continued review of BMP designs for the Helipad and ELV hillside areas on NASA property.
- In coordination with the Expert Panel, completed reconstruction activities at the B-1 culvert modification on December 16, 2011 and applied hydromulch/hydroseed in the surrounding area on December 27, 2011.
- In coordination with the Expert Panel, Geosyntec reviewed areas of localized erosion in the 008 watershed and made recommendations for new dirt road maintenance, channel bank erosion controls, and in-channel sediment controls. The channel BMPs are being evaluated for permitting needs while the dirt road erosion controls are being implemented by on-site contractors.
- December 16, 2011: Completed reconstruction activities at the B-1 culvert modification.
- December 16, 2011: Conducted post-rain ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- December 22, 2011: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- December 27, 2011: Applied hydromulch/hydroseed in the B-1 drainage.
- December 27, 2011: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- January 5, 2011: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- January 5, 2012: Southern California Edison denies Boeing permission to work in their easement.
- January 12, 2011: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.

30-Day Look ahead – through February 17, 2012

- Boeing/NASA – Continue inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- Boeing/NASA – Continue Performance Monitoring and BMP Monitoring during rain events, per the 2011-2012 Rainy Season SAP.
- Boeing – Select alternative layout of treatment BMP at the Lower Parking Lot outside the SCE easement and begin design activities.
- NASA/Expert Panel – Continue design review for the BMPs at the Helipad and ELV near the corner of Helipad Road and Area 2 Road.
- Resumption of ISRA soil excavation will occur following the end of the rainy season.

Approved By:



Thomas D. Gallacher
Director, Santa Susana
Environment, Health and Safety

Mr. S. Unger, RWQCB (SHEA 111739)
January 23, 2012
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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



Date: 02/23/2012 No.: SHEA-111835

To: Sam Unger
Executive Officer
LA Regional Water Quality Control
Board

From: Tom Gallacher
Director
Santa Susana
Environment, Health & Safety

Subject: February 2012 Monthly Progress Report for January 19, 2012 - February 17, 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 January 19, 2012 to February 17, 2012. In addition, a 30 day Look-Ahead is also 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-January to mid-February, the primary activities have been conducting inspections of erosion control BMPs at 2009, 2010, and 2011 ISRA areas per the ISRA Storm Water Pollution Prevention Plan (SWPPP).

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-January to mid-February, the primary activities associated with BMPs have been continuing planning activities for additional BMPs within the Outfall 008 watershed along the well access roads and drainage, and additional BMPs in the Outfall 009 watershed at the Lower Parking Lot, the Helipad, and the ELV channel.

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

Activities Performed – January 19, 2012 to February 17, 2012

- January 19, 2012 – February 17, 2012:
 - In coordination with the Expert Panel, developed alternative layouts for the Lower Parking Lot Biofilter outside the Southern California Edison (SCE) easement; the evaluation of the alternatives is underway. Once the conceptual design is selected, work will begin on the redesign. The revised grading permit application will be submitted when the redesign is complete.
 - In coordination with the Expert Panel, continued design of BMPs at the Helipad and ELV channel in NASA administered Area II.
 - In coordination with the Expert Panel, continue planning the additional BMPs to be installed within the Outfall 008 watershed to address areas of localized erosion, including dirt roads, channel banks, and channels.
- January 19, 2012: Conducted pre-rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- January 19-20, 2012: Installed fabric over the weir boards at CM-1, -2, -3, -4, -6, -8, -9, and -11 to promote flow through the media beds.
- January 21-23, 2012: Conducted rain event Performance Monitoring and BMP Monitoring inspections and sampling.
- January 21-23, 2012: Conducted rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- January 30, 2012: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- February 6-7, 2012: Conducted rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- February 7, 2012: Conducted rain event Performance Monitoring and BMP Monitoring inspections. No runoff was observed.
- February 14, 2012: Placed rip rap at the B-1 culvert modification.
- February 15, 2012: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- February 15, 2012: Hosted a site walk with the RWQCB, the Expert Panel, and NASA to discuss the details of the Restoration, Mitigation, and Monitoring Plan (RMMP), completed BMPs, and planned BMPs.

30-Day Look ahead – through March 16, 2012

- Boeing/NASA – Continue inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- Boeing/NASA – Continue Performance Monitoring and BMP Monitoring during rain events, per the 2011-2012 Rainy Season SAP.
- Boeing/Expert Panel – Select alternative layout for the Lower Parking Lot BMP outside the SCE easement and begin redesign activities.
- NASA/Expert Panel – Continue design of the BMPs at the Helipad and ELV channel in NASA administered Area II.
- Boeing/Expert Panel - Continue planning the additional BMPs to be installed within the Outfall 008 watershed to address areas of localized erosion, including dirt roads, channel banks, and channels.
- Boeing/NASA – Resume ISRA soil removal after the 2011-2012 rainy season.

Approved By:



Thomas D. Gallacher
Director, Santa Susana
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



Date: 03/30/2012

No.: SHEA-111905

To: Sam Unger
Executive Officer
LA Regional Water Quality Control
BoardFrom: Art Lenox
Santa Susana
Environment, Health & SafetySubject: March 2012 Monthly Progress Report for February 18, 2012 - March 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 February 18, 2012 to March 16, 2012. In addition, a 30 day Look-Ahead is also 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-February to mid-March, the primary activities have been planning for ISRA activities to resume after the rainy season ends and conducting inspections of erosion control BMPs at 2009, 2010, and 2011 ISRA areas per the ISRA Storm Water Pollution Prevention Plan (SWPPP).

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-February to mid-March, the primary activities associated with BMPs have been continuing planning activities for additional BMPs within the Outfall 008 watershed along the well access roads and drainage, and additional BMPs in the Outfall 009 watershed at the Lower Parking Lot, the Helipad, and the ELV channel.

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

Activities Performed – February 18, 2012 to March 16, 2012

- February 18, 2012 – March 16, 2012:
 - Developed alternative layout for the Lower Parking Lot Biofilter outside the Southern California Edison (SCE) easement. A biological survey of the potential sediment basin and biofilter location was performed on March 5, 2012 and a geophysical survey is currently planned for the week of

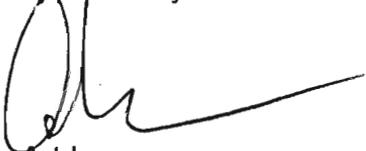
March 26, 2012. Once the conceptual design is selected, the Panel will review, and redesign will proceed. The revised grading permit application will be submitted when the redesign is complete.

- In coordination with the Expert Panel, continued design of BMPs and drainage improvements at the Helipad and ELV channel in NASA administered Area II.
- In coordination with the Expert Panel, continue planning the additional dirt road erosion controls to be installed after the end of the rainy season within the Outfall 008 watershed to address areas of localized erosion.
- February 22, 2012: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- February 27, 2012: Conducted pre-rain and rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- February 27, 2012: Conducted rain event Performance Monitoring and BMP inspections and sampling.
- February 28, 2012: Conducted post-rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- March 5, 2012: Conducted weekly ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- March 7, 2012: Reviewed excavation and confirmation sampling plans for remaining AP/STP ISRA activities with RWQCB and DTSC.
- March 15, 2012: Conducted pre-rain event ISRA SWPPP inspections at 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.

30-Day Look ahead – through April 13, 2012

- Boeing/NASA – Continue inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- Boeing/NASA – Continue Performance Monitoring and BMP Monitoring during rain events, per the 2011-2012 Rainy Season SAP.
- Boeing – Perform a geophysical survey of potential locations for the Lower Parking Lot sediment basin and biofilter.
- Boeing/Expert Panel – Select alternative layout for the Lower Parking Lot sediment basin and biofilter outside the SCE easement and begin redesign of the system.
- NASA/Expert Panel – Continue design of the BMPs and drainage improvements at the Helipad and ELV channel in NASA administered Area II.
- Boeing/NASA – Resume ISRA soil removal after the 2011-2012 rainy season (tentatively late April/early May).

Approved By:



Art Lenox
Boeing Remediation
Environment, Health and Safety

Mr. S. Unger, RWQCB (SHEA-111905)
March 30, 2012
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