

The Boeing Company
Santa Susana Field Laboratory
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Canyon Park, CA 91301-1107

Via FedEx

November 13, 2008

In reply refer to SHEA-108012

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



Attention: Information Technology Unit

Reference: Compliance File CI-6027 and NPDES No. CA0001309

Subject: Third Quarter 2008 NPDES Discharge Monitoring Report Submittal
Santa Susana Field Laboratory

Dear Sir/Madam:

The Boeing Company (Boeing) hereby submits the Discharge Monitoring Report (DMR) for the Santa Susana Field Laboratory (SSFL) for the Third Quarter of 2008. This DMR provides the results of the activities that occurred for the SSFL outfalls (Figure 1) for the period of July 1st through September 30th of 2008 as required by National Pollutant Discharge Elimination System (NPDES) Permit No. CA0001309 (NPDES Permit). This quarterly DMR provides information, including rainfall summaries and liquid waste shipment summaries. The DMR is provided for the SSFL outfalls authorized by the NPDES Permit. This document will be made available electronically at:

www.boeing.com/aboutus/environment/santa_susana/programs.html.

Additionally, hard copies of this DMR are available at the following: California State University at Northridge Library; Simi Valley Library; and the Platt Branch, Los Angeles Library.

THIRD QUARTER 2008 DISCHARGE MONITORING REPORT (DMR) CONTENTS AND DISCHARGE SUMMARY

Figure 1 is a site location map indicating the locations of the regulated outfalls at the SSFL. A summary of the Third Quarter 2008 precipitation measured at SSFL is presented in Appendix A. All sanitary wastes from the domestic sewage treatment plants (STPs I, II, and III) were shipped off-site. Details of all liquid waste shipments including the STP waste are summarized in Appendix B.

As detailed in Appendix A, no rain events occurred during the Third Quarter 2008. (The record of precipitation at 11:00 hrs. on September 16, 2008, in Appendix A, is considered a false precipitation record due to maintenance being performed on the station, as evidenced by the "D" qualifier on the rainfall data for the preceding hour.) Due to a power outage at

the facility, no rainfall depth measurements were recorded for parts of July 29, September 15, September 26, or September 30, 2008, but no storm events occurred during this time based on visual observations and recordings from offsite weather stations

A sample was collected for receiving water sampling at Arroyo Simi and submitted to and analyzed by a State of California-certified analytical laboratory. Appendix C contains a summary table of analytical results for the surface water sample collected during the Third Quarter 2008. This table identifies the sampling location, the constituents evaluated (analytes), the date of sampling, the analytical result, and data validation qualifiers.

Appendix D contains a copy of the data validation report, laboratory analytical results, and chain of custody. Quarterly Summary Notes are a compilation of notes, abbreviations, and data validation codes that are used in the analytical data summary table and are included as a supplement in Appendix C.

SUMMARY OF NONCOMPLIANCE

No surface water discharges occurred from the SSFL during the Third Quarter 2008. As such, there are no noncompliance issues to report for this period. Additionally, no constituents were detected in the receiving water sample greater than the receiving water limits for the Arroyo Simi.

THIRD QUARTER 2008 CORRECTIVE ACTIONS TAKEN

Despite having no on-site surface water monitoring events in the Third Quarter of 2008, Boeing continued to improve and upgrade multiple best management practices (BMPs) throughout the site. Specific activities by outfall are identified in Table 1. In addition, Boeing continued to implement the Storm Water Pollution Prevention Plan (SWPPP).

Table 1: BMP Activities during the Third Quarter 2008

OUTFALL	BMP ACTIVITIES DURING THIRD QUARTER 2008
001 (South Slope below Perimeter Pond)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location..
002 (South Slope below R-2 Pond)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location.. Removed concrete footing to allow for flow distribution through the flume.
003 (RMHF)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location. Increased height of Gabion Dam. Added flow control valves on dam and filtration beds to increase retention time in the system substantially. Performed hydroseeding of upland areas and media rinsing of filtration bed.
004 (SRE)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location. Performed media rinse. Installed sand bag berm on upstream area with flow control valve and perforated piping system to retain water, increase retention time in the filtration





OUTFALL	BMP ACTIVITIES DURING THIRD QUARTER 2008
	media, and spread flow more evenly over filtration system.
005 (FSDF-1)	Conducted BMP inspections, performed maintenance on flume, and conducted housekeeping activities at the sample location.. Removed tanks/treatment systems. Installed new fiber rolls. Increased height of Gabion Dam. Replaced fiber rolls, performed hydroseeding, and replaced liner. Initiated installation of a stormwater treatment system consisting of 3 stages of filtration, two stages of ion exchange, and activated carbon. Note this treatment system will treat water collected at impoundment at Outfalls 005 and 007.
006 (FSDF-2)	Conducted BMP inspections, performed maintenance on flume, and conducted housekeeping activities at the sample location.
007 (Building 100)	Conducted BMP inspections, performed maintenance flume and conducted housekeeping activities at the sample location.. Increased height of Gabion Dam. Replaced liner and fiber rolls. Initiated installation of a stormwater treatment system consisting of 3 stages of filtration, two stages of ion exchange, and activated carbon. Note this treatment system will treat water collected at impoundment at Outfalls 005 and 007.
008 (Happy Valley)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location.. Performed hydroseeding. Continued with design of Engineered Natural Treatment System (ENTS).
009 (WS-13 Drainage)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample location. Continued with design of Engineered Natural Treatment System (ENTS). Initiated installation of culvert maintenance within the 009 watershed.
010 (Building 203)	Conducted BMP inspections and performed maintenance on flume. Performed hydroseeding and media rinse.
011 (Perimeter Pond)	Conducted BMP inspections and performed maintenance on flume and conducted housekeeping activities at the sample location.. Modified media cell at Outfall 011 for the inclusion of Outfall 019. Initiated installation of a stormwater treatment system consisting of 3 stages of filtration, two stages of ion exchange, and activated carbon.
012 (ALFA Test Stand)	Conducted BMP inspections and conducted housekeeping activities at the sample location.
013 (BRAVO Test Stand)	Conducted BMP inspections and conducted housekeeping activities at the sample location.
014 (APTF Test Stand)	Conducted BMP inspections and conducted housekeeping activities at the sample location. Performed media rinse. Demolition activities are currently ongoing at APTF and are scheduled to be completed in 2009.
018 (R-2 Spillway)	Conducted BMP inspections, performed maintenance on flume and conducted housekeeping activities at the sample



OUTFALL	BMP ACTIVITIES DURING THIRD QUARTER 2008
	location. Initiated installation of new filter media in BMP and anchoring system to hold filter media in place during overflows. Initiated installation of stormwater treatment system consisting of 3 stages of filtration, two stages of ion exchange, and activated carbon.
019 (GETS)	In the process of installing GETS system (Pipeline being installed around CTL III). Modified media cell at Outfall 011 for the inclusion of Outfall 019. Treated groundwater hauled off-site – no discharges.

REASONABLE POTENTIAL ANALYSIS (RPA)

No surface water discharges occurred from the SSFL and no new surface water discharge data became available during the Third Quarter of 2008. Accordingly, the analytical results for this sampling period did not trigger reasonable potential. Therefore, RPA tables are not included in this report.

DATA VALIDATION AND QUALITY CONTROL DISCUSSION

In accordance with current EPA guidelines and procedures, or as specified in the monitoring program, chemical analyses of the receiving water sample were completed at a State of California-certified laboratory. Data validation was performed on the analytical results and quality control elements were found to be within acceptable limits for the analytical methods reported, except as noted on the analytical summary tables. As noted above, measures were implemented by the analytical laboratory to monitor and/or evaluate its low level detections, to analyze for interferences and to ensure that cross contamination does not occur in the future. Laboratory analytical reports, including validation reports and notes, are included in Appendix D. Attachment T-A of the NPDES Permit issued to the SSFL presents the State of California Water Resources Control Board (SWRCB or "State Board") minimum levels (MLs) for use in reporting and determining compliance with NPDES Permit limits.

The analytical laboratory achieved these MLs for this reporting period when technically possible. When the laboratory reporting limits (RLs) were elevated, the laboratory maximum detectable limits (MDLs) were below the State of California MLs. However, some constituents' daily maximum discharge limits in the NPDES Permit are less than their respective MLs, and less than the RL. In cases where the NPDES Permit limit is less than the RL and ML, the RL was used to determine compliance. The specific constituents that have NPDES Permit limits that are less than the RL and ML are: mercury, bis(2-ethylhexyl)phthalate, cyanide, polychlorinated biphenyls (PCBs) (Aroclor congeners), chlordane, DDD, DDE, DDT, dieldrin, toxaphene, and chlorpyrifos. None of these compounds were detected in the receiving water sample for the Third Quarter of 2008.

FACILITY CONTACT

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

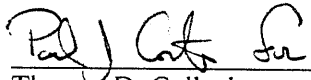
CERTIFICATION

I certify under penalty of law that this document and all appendices were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for a knowing violation.



Executed on the 13th of November 2008 at The Boeing Company, SSFL.

Signature: 
Name: Thomas D. Gallacher
Title: Director, Santa Susana Field Laboratory
Environment, Health and Safety
Date: 11/13/08

LB:bjc
Enclosures

Figure: 1 Storm Water Drainage System and Outfall Locations

Appendices: A Third Quarter 2008 Rainfall Data Summary
B Third Quarter 2008 Liquid Waste Shipment Summary Tables
C Third Quarter 2008 Summary Tables, Receiving Water Location
(Arroyo Simi – Frontier Park)
D Third Quarter 2008 Analytical Laboratory Report,
Chain-of-Custody, and Validation Report

cc: Mr. Jim Pappas, Department of Toxic Substances Control
Mr. Stephen Baxter, Department of Toxic Substances Control
Mr. Robert Marshall, California State University – Northridge, Library
Ms. Dale Redfield, Simi Valley Library
Ms. Lynn Light, Platt Branch, Los Angeles Library