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Via FedEx

May 15, 2013

In reply, refer to SHEA-113505

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

Attention: Information Technology Unit

Gentlemen:

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

Subject: First Quarter 2013 NPDES Discharge Monitoring Report
Submittal – Santa Susana Site

The Boeing Company (Boeing) hereby submits this Discharge Monitoring Report (DMR) that includes the activities related to the Santa Susana Field Laboratory (Santa Susana Site) surface water outfalls (**Figure 1**) that occurred during the period of January 1 through March 31, 2013 (First Quarter 2013). This DMR is prepared as required by and in accordance with National Pollutant Discharge Elimination System (NPDES) Permit No. CA0001309 (Permit) and under regulatory oversight of the Los Angeles Regional Water Quality Control Board (Regional Board). Included are summary tables of Best Management Practices (BMP), surface water sample analytical results, rainfall summaries, liquid waste shipment summaries, and analytical laboratory reports of surface water samples.

Hard copies of this DMR are available to the public at California State University at Northridge Library; Simi Valley Library; and the Platt Branch of the Los Angeles Library. An electronic version of this DMR is located at:

http://www.boeing.com/aboutus/environment/santa_susana/ents/monitoring_reports.html

FIRST QUARTER 2013 DMR CONTENTS

This discharge monitoring report includes the following sections and appendices:

- **Discharge Summary:** This section describes the number of rain events, the number of samples collected, the sample date, and the sample location during the First Quarter

2013. **Table 1** summarizes the First Quarter 2013 sampling record by outfall, location and sample type collected per the requirements of the NPDES Permit.

- **First Quarter 2013 Summary of Non-Compliance:** This section provides a summary of the sample results that exceeded Permit limits in the First Quarter 2013.
- **First Quarter 2013 Site-wide Storm Water Pollution Prevention Plan (SWPPP)/BMP Activities:** This section presents site-wide SWPPP activities, demolition BMPs, Interim Source Removal Action (ISRA) BMPs, BMP Plan-related BMPs, Northern Drainage BMPs, and other BMP activities that were implemented in the First Quarter 2013. **Table 2** summarizes specific BMP activities by outfall location.
- **Data Validation and Quality Control:** This section discusses the data validation results and any laboratory or field corrective actions.
- **Appendix A** provides a summary of the First Quarter 2013 measured precipitation at the Santa Susana Site.
- **Appendix B** tabulates all sanitary waste and other liquid waste shipment details.
- **Appendices C and D** present chemical and radiological analytical results of the First Quarter 2013 stormwater samples in tabular form by outfall location, constituents evaluated (analytes), sample dates, and data validation qualifiers.
- **Appendix E** includes an exceedance summary table of the stormwater samples that exceeded the NPDES Permit limits.
- **Appendix F** provides the results of the RPA, utilizing updated monitoring data.
- **Appendix G** contains copies of the laboratory analytical reports, chains of custody, and data validation reports.

A compilation of notes, abbreviations, and data validation codes that are used in the analytical data summary tables are included in as a flysheet in **Appendices C** through **F**.

DISCHARGE SUMMARY

The Santa Susana Site experienced six rain events that produced greater than 0.1 inch of rainfall within a 24-hour period (see **Appendix A**). Two onsite stormwater related samples were collected at Outfall 009 and one offsite stormwater sample was collected at the Arroyo Simi – Frontier Park (RSW-002) location in Simi Valley. Four additional grab samples were collected at the Arroyo Simi – Frontier Park (RSW-002) following the collection of the annual stormwater samples. An annual sediment sample was also collected at the Arroyo Simi – Frontier Park (RSW-002) location. A discussion summarizing the analytical results of the samples collected at the Arroyo Simi – Frontier Park (RSW-002) is included in the **Summary of Non-Compliance** section below.

A non-stormwater sample was collected at the Outfall 019 Groundwater Extraction Treatment System (GETS) on March 13-14, 2013. Annual samples for the remaining outfalls will be collected during the first rain event when flow is observed. All samples are submitted to and analyzed by a California-certified analytical laboratory per the NPDES Permit requirements. **Table 1** summarizes the First Quarter 2013 sampling record by outfall, location, and sample type collected per the requirements of the NPDES Permit.

Table 1: Sampling Record during the First Quarter 2013

Date	Outfall/Location	Samples Collected (i.e., grab, composite)
1/25-1/26/2013	Outfall 009 (WS-13 Drainage) – Routine	Grab & Composite
2/11/2013	Arroyo Simi Frontier Park – (RSW-002) – Annual Sediment	Grab
3/8/2013	Outfall 009 (WS-13 Drainage) – Annual	Grab
3/8/2013	Arroyo Simi Frontier Park – (RSW-002) – Annual	Grab
3/13/2013	Arroyo Simi Frontier Park – (RSW-002) – Routine	Grab
3/14-3/15/2013	Outfall 019 (GETS) – Annual	Grab & Composite
3/18/2013	Arroyo Simi Frontier Park – (RSW-002) – Routine	Grab
3/22/2013	Arroyo Simi Frontier Park – (RSW-002) – Routine	Grab
3/27/2013	Arroyo Simi Frontier Park – (RSW-002) – Routine	Grab

FIRST QUARTER 2013 SUMMARY OF NON-COMPLIANCE

Stormwater and non stormwater discharges occurred from the Santa Susana Site during the First Quarter 2013 as noted in Table 1 above. Stormwater samples collected at Outfall 009 in the First Quarter 2013 did not exceed the Permit limits. In addition, non-stormwater discharges from the GETS did not exceed Permit limits. Therefore, all stormwater and non-stormwater discharges from the Santa Susana Site were in full compliance for the First Quarter 2013. Bacterial constituents in the annual sample collected off site at the Arroyo Simi – Frontier Park (RSW 002) on March 8, 2013 exceeded the receiving water limits for bacteria. Those results are summarized below.

Arroyo Simi Receiving Water Sample Location – Frontier Park (RSW 002)

The following is a summary of receiving water sample results that exceeded receiving water limits at Arroyo Simi – Frontier Park (RSW-002). The Permit limit exceedances are further detailed in **Appendix E and laboratory analytical results are included in Appendix G.**

Bacteria

In a sample collected on March 8, 2013, Escherichia Coli (E. Coli) and Fecal Coliform were both detected at $\geq 1,600$ MPN/100mL (greater than 1,600 most probable number per 100 milliliters) above the single sample maximum receiving water limit of 235 MPN/100mL and 400 MPN/100mL, respectively, at Arroyo Simi – Frontier Park (RSW 002). Samples collected at the Santa Susana Site during the same rain event did not exceed the permit limits for Bacteria. As a result of the exceedance at the Arroyo Simi – Frontier Park location (RSW-002), Boeing conducted additional monitoring for bacteria in accordance with the NPDES Permit (Boeing, 2011). All subsequent sample results were within the single sample daily maximum limits.

As stated in the NPDES Permit, E. Coli and Fecal Coliform are part of water quality objectives for monitoring of inland surface waters and include a geometric mean calculation. Five samples collected on March 8, 13, 18, 22, and 27, 2013, were used for the calculation of the geometric mean for E. Coli and Fecal Coliform. The calculated geometric mean for both E. Coli (125 MPN/100mL) and Fecal Coliform (145 MPN/100mL) were below the geometric mean receiving water limits for E. Coli and for Fecal Coliform of 126 MPN/100ml and 200 MPN/100ml, respectively. All results are included in **Appendix C.**

Additionally, all samples collected were analyzed for human-specific Bacteroides and these analyses confirmed that the bacteria present in the Arroyo Simi – Frontier Park (RSW 002) samples were not from human sources. Therefore the bacteria detected at Arroyo Simi – Frontier Park (RSW 002) must have originated from non-human, natural sources and were not related to the stormwater discharges from the Santa Susana Site. The laboratory results for the bacteria analysis are included in **Appendix G.**

FIRST QUARTER 2013 SITE-WIDE STORM WATER POLLUTION PREVENTION PLAN /BMP ACTIVITIES

Boeing conducted monthly, pre- and post-storm event inspections as required by the site-wide SWPPP to identify and mitigate any on-site conditions that may affect the quality of stormwater runoff from the Santa Susana Site.

Site-wide activities also included the inspections of outfalls, outfall perimeters, and the stormwater pumping and conveyance system. Inspection activities at each outfall location included assessments of erosion and sediment control BMPs, flume and sample box conditions, flow meter calibrations, surface water catchment or sedimentation basin conditions, liner

integrity, filter media condition, system pump and conveyance conditions, and retention tank condition. General maintenance and housekeeping of outfalls included the removal of sediment, removal of leaf litter, filter media replacement, liner repair or replacement, and weed abatement.

Table 2 below summarizes the specific BMP activities by outfall location that were conducted during the First Quarter 2013.

Table 2: Boeing's BMP Activities during the First Quarter 2013

OUTFALL (Location)	BMP ACTIVITIES DURING FIRST QUARTER 2013
001 (South Slope below Perimeter Pond)	Inspected the outfall and flume for any excess sediment/debris. Observed sediment and erosion controls around the perimeter of the outfall and Outfall 001 drainage. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement. Repaired the eroded bank at the Roca Avenue culvert by compacting soil, contouring the slope, and applying jute mat and hydroseed.
002 (South Slope below R-2 Pond)	Conducted sediment and erosion control inspections around the perimeter and at Outfall 002 drainage. Inspected outfall and flume for any excess sediment/debris. Drained and cleared flume, outfall, and sample box of sediment and debris. Checked flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Completed maintenance inspection and reset the automated composite sampling equipment (autosamplers). Cleaned sample box and the outfall area, and performed weed abatement.
003 Radioactive Material Handling Facility (RMHF)	Conducted sediment and erosion control inspections. Inspected flume and outfall for any excess sediment/debris. Conducted maintenance inspections of the structural BMPs, including the stormwater retention basin, and conveyance and filter systems. Checked sample box and flow meter control box for spiders and presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. The outfall area was cleaned and weeded, and vegetation was cleared.
004 Sodium Reactor Experiment (SRE)	Inspected the flume, outfall and liner for any excess sediment/debris. Conducted sediment and erosion control inspections near the outfall. Conducted maintenance inspections of the structural BMPs, including the stormwater retention system, and conveyance and filter systems.

OUTFALL (Location)	BMP ACTIVITIES DURING FIRST QUARTER 2013
	Completed inspection of dedicated retention tanks. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement. Conducted street sweeping and placed chains to prevent through traffic.
005 Former Sodium Disposal Facility (FSDF)-1	Conducted sediment and erosion control inspections. Inspected the outfall and flume for any excess sediment/debris. Completed maintenance inspections of structural BMPs, including the conveyance and stormwater retention systems, and sediment basin liner. Completed inspection of dedicated retention tanks. Cleaned sample box and the outfall area, and performed weed abatement.
006 (FSDF-2)	Inspected the flume, outfall and liner for any excess sediment/debris. Cleaned sample box and the outfall area, and performed weed abatement. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Conducted sediment and erosion control inspections near the outfall. Completed inspection of dedicated retention tanks. Completed maintenance inspections of the structural BMPs, including the stormwater retention and filter systems.
007 (Building 100)	Conducted sediment and erosion control inspections at the perimeter of Outfall 007. Observed sediment basin liner and outfall for any excess sediment/debris or deficiencies. Cleaned sample box and the outfall area, and performed weed abatement. Completed maintenance inspections of the conveyance system, stormwater retention system, and sediment basin liner. Checked high level float/switch in sedimentation basin. Completed inspection of dedicated retention tanks.
008 (Happy Valley)	Removed temporary BMPs (sand bags and fiber rolls) along the abandoned road and installed four rolling dips were installed to divert water from the road surface. Applied hydroseed to the length of the road. Modified rip rap apron at Outfall 008 for improved bank protection. Conducted sediment and erosion control inspections near the perimeter of the outfall and within the Outfall 008 drainage. Observed the outfall and flume for any excess sediment/debris, and cleared excess sediment from the flume. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape

OUTFALL (Location)	BMP ACTIVITIES DURING FIRST QUARTER 2013
	<p>replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement. Removed silt fences, spent fiber rolls, and hay bales from the drainage and constructed rip rap berms on both sides of the abandoned road at the drainage.</p>
<p>009 (WS-13 Drainage)</p>	<p><i>Outfall BMPs:</i> Checked sample box and flow meter control box for spiders and presence of rodents/animals. Flow meter reset and tape replaced on a monthly basis. The sample box and outfall area were cleaned, and weeding was conducted.</p> <p><i>Hydroseed:</i> Applied hydroseed at ISRA areas: Instrument Experimentation Lab (IEL)-3 and Ash Pile/Sewage Treatment Plant (AP/STP)-1E, AP/STP-1B, and AP/STP-1C. Also applied hydroseed to portions of former Building 1324 parking lot after selective weeding.</p> <p><i>B-1 BMPs:</i> Placed sand bags at the curb cuts and swales to direct runoff to the media bed for the duration of rain events. Placed sand bags over gopher holes and eroded gaps at the top of the gunite slope at the B-1 leach field. Removed a portion of the rip rap and gravel fill within the curb cuts to encourage drainage from the road.</p> <p><i>Culvert Modification (CM)-9:</i> Conducted biological inspection and vegetation clearance in preparation for construction activities. Construction a rip rap berm and installed an 8-inch perforated culvert pipe. Removed a spent hay bale from the drainage east of the culvert basin and replaced with a rip rap check dam. The site was restored with coco matting, fiber rolls, and hydroseed.</p> <p><i>IEL/Building 1436 Area:</i> Replaced the worn sand bag berm and fiber rolls at the base of the Atomic International (AI) tower, and bailed excess sediment from the sand bag berm southeast of Building 1436 and behind the 1408 yard. Completed excavation at ISRA area IEL-3 and backfilled with gravel. Removed temporary BMPs (plastic tarps, sand bags, fiber rolls, and fencing), and the area was graded and restored.</p>

OUTFALL (Location)	BMP ACTIVITIES DURING FIRST QUARTER 2013
	<p><i>Restoration, Monitoring and Mitigation Plan (RMMP) BMPs:</i> Inspected plantings and pole cuttings in the Northern Drainage. Replaced 10 walnut trees and replaced Driwater cartons at each plant.</p> <p><i>National Aeronautics and Space Administration (NASA) ISRA BMPs:</i> Temporary BMPs (sand bag berms, fiber rolls, and plastic tarps) at Expendable Launch Vehicle (ELV)-1C were maintained during ISRA implementation. Removed temporary BMPs (plastic tarps, sand bags, and fiber rolls) from the AP/STP-1E, AP/STP-1B, and AP/STP-1C ISRA areas, and sites were graded and restored.</p> <p><i>Lower Parking Lot BMP:</i> Construction of the Lower Lot Biofilter was completed. Inspected plantings and implemented a watering plan. Additional planting areas were cut in the asphalt east of the biofilter and compost, container plants. Installed Driwater cartons. Conducted a pumping test and a functional test of the cistern pump, alarms, and automated features.</p>
010 (Building 203)	<p>Conducted maintenance inspections of structural BMPs including the filter media, and conveyance and stormwater retention systems. Completed inspection of dedicated retention tanks. Maintained and inspected sediment and erosion controls within areas of disturbance or sparse vegetation. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement.</p>
011 (Perimeter Pond)	<p>Cleared brush, deadfall, and debris from the drainage downstream of Outfall 011 and constructed two rip rap check dams. Cleared foreign gravel downstream of the sample box outlet and installed a low-profile rip rap apron. Applied coco mat to slopes to cover disturbed soil near the stairs. Conducted maintenance inspections of structural BMPs including the weir, filter media, and pump and conveyance systems. Conducted sediment and erosion control inspections at flume, drainage area, perimeter of outfall, pond and around the conveyance system. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement.</p>

OUTFALL (Location)	BMP ACTIVITIES DURING FIRST QUARTER 2013
012 (ALFA Test Stand)	Conducted maintenance inspections of structural BMPs including pump, conveyance system and retention tank. Performed maintenance on transfer pumps. Observed condition of the sand bag berm. Inspected outfall and perimeter for presence of rodents/animals. Cleaned sample box and the outfall area, and performed weed abatement.
013 (BRAVO Test Stand)	Conducted maintenance inspections of structural BMPs including pump, conveyance system and retention tank. Observed condition of the sand bag berm. Inspected outfall and perimeter for presence of rodents/animals. Cleaned sample box and the outfall area, and performed weed abatement.
014 Advanced Propulsion Test Facility (APTF)	Conducted maintenance inspections of structural BMPs. Observed the condition and integrity of the liner and berm. Observed sediment and erosion control BMPs around outfall perimeter. Cleaned sample box and the outfall area, and performed weed abatement.
018 (R-2 Spillway)	Conducted maintenance inspections of structural BMPs including the filter media and conveyance system. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, and performed weed abatement. Applied hydroseed to hillside water tank in Area IV, and Area IV weather station, and implemented post-demo BMPs (fiber rolls and sand bags) and hydroseed to a portion of Building 4011 area.
019 (GETS)	Replaced Purolite media to prepare for the 30-day RD-10 pump test. The RD-10 pump test commenced on March 14, 2013. Replaced bag filters as needed. Performed annual NPDES sampling March 14 – 15, 2013. Removed the WS-9A pump and replaced the galvanized riser pipe with stainless steel. The pump was placed at 60 feet below ground surface (ft-bgs) and the transducer was set at 50 ft-bgs. Overall system operation is nominal. No water was pumped or discharged from WS-9A is the First Quarter 2013.
RSW-002 (Arroyo Simi Frontier Park)	Collected receiving water and sediment annual samples at Arroyo Simi – Frontier Park location. Conducted monthly receiving water inspection.

Boeing also continued to implement the individual SWPPPs during the First Quarter 2013. As part of the implementation of the SWPPPs, BMP inspections were completed in accordance with the State of California Construction General Permit (CGP) requirements.

Efforts to plan and implement BMPs for pre- and post-soil disturbance activities for construction/demolition and ISRA areas are discussed further below. Demolition projects comprise areas of disturbed soil from recent demolition, and post-demolition restoration. ISRA areas are those subject to ongoing soil removal and/or remediation, post-remediation, and restoration activities.

Demolition-Related BMP Activities

Previously active areas are being demolished and prepared for restoration in Boeing's continued efforts to the reinstatement of the site to its natural habitat. During the First Quarter 2013, demolition activities were completed at the former Empire State Atomic Development Authority (ESADA), in Area IV. Demolition activities at former Building 4011 and Building 4006 in Area IV started during the First Quarter 2013. Activities at Building 4011 and Building 4006 are on schedule to be completed by the end of the Second Quarter 2013 and will be discussed in the Second Quarter 2013 DMR. All debris, metal, concrete, and asphalt were segregated upon demolition and transported to a waste or recycling facility per Boeing's waste management plan, and in accordance with all local, state, and federal regulations. Construction BMPs were implemented before, during, and after demolition activities.

Upon completion of demolition activities, post-demolition and restoration efforts included the implementation of erosion and sediment control BMPs. In the First Quarter 2013, hydroseed and hydromulch were applied at the former Building 1324 Lot in Area I, ESADA, the former weather station, the Area IV water tank, and a portion of the former Building 4011 in Area IV. Once demolition activities are completed at former Building 4011, restoration efforts including BMPs and hydroseed and hydromulch will be implemented on the remaining area. Boeing will continue demolition activities to reduce run-off, implement BMPs to address erosion and sedimentation, and return the Santa Susana Site to its natural habitat.

Outfall 008/009 ISRA and BMP Plan Related Activities

Boeing has continued with ISRA activities in the Outfall 008 and 009 watersheds during the First Quarter 2013 to address constituents in soil that may have contributed to NPDES Permit limit/benchmark exceedances in surface water. ISRA soil removal within Outfall 008 was completed on October 19, 2009, and ISRA soil removal conducted within Outfall 009 continued during the First Quarter 2013. **Figure 2** shows the location and status of these ISRA soil removal activities within the Santa Susana Site. Annual ISRA Implementation reports are submitted to the Regional Board summarizing all ISRA activities for that respective year¹.

¹ Available at: http://www.boeing.com/boeing/aboutus/environment/santa_susana/isra.page

The Surface Water Expert Panel (Expert Panel) has prepared BMP plans and submittals on behalf of NASA and Boeing to meet 008/009 Permit limits/benchmarks established in the NPDES Permit (Order No. R4-2010-0090). These plans are considered conceptual designs and recommendations for BMPs and were identified based on an evaluation of NPDES compliance and ISRA/BMP surface water monitoring results. The following BMP plans have been submitted to the Regional Board and are located on Boeing's Santa Susana Site webpage under Outfall 008/009 ISRA and BMP related activities²:

- 2010 BMP Plan Outfalls 008 and 009 BMP Watersheds (MWH et al., 2010)
- 2011 BMP Plan Addendum (Geosyntec and the Expert Panel, 2011)
- 2012 BMP Plan Addendum (Geosyntec and the Expert Panel, 2012)

All completed Expert Panel recommended BMPs are discussed in the ISRA Performance Monitoring and BMP Monitoring Report for Outfalls 008 and 009 Watersheds and submitted to the Regional Board for each rainy season (Boeing, 2012a). In addition, these BMPs have been outlined in agency biweekly meetings and special onsite site walks with the public, Regional Board, and other agencies to demonstrate Boeing and NASA's commitment to achieving the water quality requirements of the NPDES Permit.

In coordination with the Expert Panel, the following BMP activities were performed or commenced during the First Quarter 2013: Lower Parking Lot BMP construction, B-1 curb cut modification, Happy Valley drainage and road upgrades, CM-9 BMP upgrades, and the NASA ELV Channel BMPs. BMP Plan-related activity areas are shown on **Figure 3** and a brief summary of these activities are described below:

Lower Parking Lot BMP

The Lower Parking Lot BMP is a stormwater treatment BMP that is designed and built to capture, convey, and treat stormwater runoff from the lower lot and IEL watersheds. The need for a treatment BMP at the Lower Parking Lot BMP was first proposed in the 2010 BMP Plan (MWH et al., 2010). The Lower Parking Lot BMP consists of a 30,000-gallon cistern, a stormwater conveyance line, a sediment basin, and a media biofilter.

Lower Parking Lot BMP construction activities continued during the First Quarter 2013 and were completed on March 15, 2013. Ventura County inspectors conducted building and grading inspections at various periods during the construction of the Lower Parking Lot BMP. The majority of the construction in the First Quarter 2013 was focused on the cistern assembly, electrical installation, pump test operation, fencing construction, maintenance of plantings, installation of additional container plants, and public artwork installation. Temporary

² Available at: http://www.boeing.com/boeing/aboutus/environment/santa_susana/isra.page

construction BMPs were also implemented during Lower Lot biofilter construction, including street sweeping, stockpile management, and installation of fiber rolls, silt fence, tarps, erosion control blankets and sand bags. A Regional Board and public tour of the completed Lower Parking Lot BMP was conducted on March 20, 2013.

B-1 Curb Cut Modification

The 2012 BMP Plan Addendum recommended the installation of 36-inch curb cuts with slope protection to increase the capture and conveyance of road runoff to the northern portion of the B-1 drainage. The purpose of the curb cuts is to reduce concentrated flows at the B-1 media filter and increase sedimentation in the drainage before the surface water reaches the B-1 media filter. In the First Quarter 2013, curb cuts were slightly modified to increase flow into the curb cuts.

NASA ELV Channel BMPs

Planning and design activities for the BMPs and drainage improvements at the ELV channel were completed in the First Quarter 2013. The bidding process has commenced for the BMPs planned at the ELV channel area and construction is anticipated in 2013.

CM-9 Upgrades

The 2012 BMP Plan Addendum recommended the installation of erosion control/slope protection along the existing roadway embankments, the addition of a rip rap berm upstream of CM-9, the installation of a perforated conveyance pipe between the road runoff inlet and the rip rap berm, and improvements to the CM-9 media filter. The purpose of these BMPs is to slow road runoff, reduce erosion along roadway slopes into the CM-9 runoff inlet, and provide additional infiltration upstream of CM-9. These BMPs have been installed to reduce surface water volumes, peak surface water flows, and overflows at the CM-9 media filter.

In the First Quarter 2013, a site walk at CM-9 was conducted with contractors to review installation of BMPs recommended in the 2012 BMP Plan Addendum. The construction of BMPs at CM-9 was completed on March 1, 2013. However the need for improvements to the CM-9 media filter will be further evaluated in the next rainy season.

First Quarter 2013 NASA and Boeing ISRA Activities

In addition to activities performed in coordination with the Expert Panel, the following ISRA activities were performed for Outfall 008/009 during the First Quarter 2013:

- Site visits:
 - Ventura County conducted site visits to inspect the Lower Parking Lot BMP construction activities on January 7, 10, and 29; February 7 and 22; and March 4 and 6, 2013
 - On March 20, 2013, the Regional Board and the public toured the Lower Parking Lot biofilter, the LOX slope berm and slope drains, and the B-1 media bed and curb cuts
- Sampling and ISRA Implementation:
 - Collected additional radiological waste characterization soil samples at ISRA area ELV-1C
 - Collected additional waste characterization soil samples at ISRA area IEL-3
 - Conducted ISRA Performance Monitoring and BMP Subarea Monitoring sampling
 - Conducted confirmation and Regional Board split soil sampling at ISRA area IEL-3 and ELV-1C
 - Conducted radiological delineation soil sampling and data gap sampling at ISRA area ELV-1D
 - Completed planned excavation at ISRA area IEL-3
 - Completed planned excavation and additional excavation activities at ISRA area ELV-1C (excluding soils with radiological restrictions)
- Surveys, Monitoring, and Inspections:
 - Performed weekly, pre-rain event, rain event, and post-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP
 - Inspected condition of plants installed within the Northern Drainage
 - Surveyed ISRA areas IEL-3, AP/STP-1B, AP/STP-1C-1, and ELV-1C, and the Soil Borrow Area
 - Conducted ISRA Performance Monitoring and BMP Subarea Monitoring inspections
 - Performed biological surveys of ISRA areas ELV-1C and ELV-1D
- ISRA BMPs Implemented:
 - Conducted maintenance activities, including removal of plant debris within the asphalt swale upstream/south of the B-1 Media Filter, and adjusted/secured plastic tarp covering ISRA area AP/STP-1C-2 with sand bags
 - Completed construction of structural BMPs within Outfall 008 per Regional Board-approved 401c Permit, including rip rap check dams, berms, and rolling dips along dirt road
 - Placed rip rap on area of erosion at the northeast side of Area II Road at the Lower Lot driveway and installed bollards to prevent vehicles from disturbing the area

- Completed restoration activities at ISRA areas IEL-3, AP/STP-1B, AP/STP-1C-1, AP/STP-1C-2, AP/STP-1E-1, AP/STP-1E-2, and AP/STP-1E-3
- Applied hydroseed at ISRA areas IEL-3, AP/STP-1B, AP/STP-1C-1, AP/STP-1C-2, AP/STP-1E-1, AP/STP-1E-2, and APSTP-1E-3

Boeing continues to conduct bi-weekly status meetings, and submit monthly and quarterly progress reports to Regional Board staff on the progress of ISRA activities and the BMP Plan³. Boeing is committed to the restoration of the ISRA areas immediately following clean-up activities and works closely with the Regional Board, Department of Toxic Substances Control (DTSC), and the Expert Panel to ensure that restoration is comprehensive.

Northern Drainage BMPs

Boeing has actively worked to restore the Northern Drainage following clean-up activities performed under the oversight of the DTSC and in accordance with the requirements of Regional Board Cleanup and Abatement Order (CAO) No. R4-2007-0054. The restoration and mitigation activities proposed in the RMMP plan⁴ were implemented in 2012.

Plant monitoring, geomorphic surveys, and plant maintenance was conducted in the First Quarter 2013. As a result of the plant monitoring, 10 walnut trees were planted to replace 10 walnut trees that died during the 2012 winter months. A geomorphic survey was performed to assess sediment deposition and stabilization conditions along the drainage. Driwater cartons were replenished to provide plants with a water source for three months. Plant monitoring will continue for a minimum of five years and supplemental baseline geomorphic surveys will continue for two to three years depending on the need to reassess the sediment conditions in the drainage. Driwater cartons will be replaced until the plants are well established.

Other BMP Activities

In October 2012, Boeing submitted a Clean Water Act Section 401 Water Quality Certification Application to the Regional Board for the authorization to place stormwater BMPs in several drainages at the Santa Susana Site. The Regional Board issued the 401 Certification on November 20, 2012, and Boeing commenced field activities shortly thereafter. Only a portion of the proposed and approved activities were started and/or completed in the Fourth Quarter 2012, and the following activities were completed in the First Quarter 2013 (**Figure 4**).

Outfall 001

- Compacted soil using hand tools and added jute matting to stabilize the drainage bank

³ Available at: http://www.boeing.com/boeing/aboutus/environment/santa_susana/isra.page

⁴ Available at: http://www.boeing.com/aboutus/environment/santa_susana/tech_reports.html

Outfall 008

- Placed rip rap berms to reduce sedimentation and turbidity
- Installed four earthen water bars along a dirt road to direct water into the vegetated areas and reduce erosion along the road

Outfall 011

- Removed foreign gravel material from drainage channel immediately downstream of the Outfall 011 monitoring location
- Installed a rip rap apron immediately downstream of the Outfall 011 monitoring location for energy dissipation
- Installed two rip rap check structures downstream of the Outfall 011 monitoring location
- Installed a biodegradable erosion control blanket along disturbed areas adjacent to the existing Outfall 011 media bed and proposed access area to reduce erosion and sedimentation into the drainage for Outfall 011

A 2012 Annual Compliance Report for Outfall 001, Outfall 008, Outfall 011, and R2A Pond was submitted to the Regional Board on December 19, 2012 (Boeing, 2012b). This letter report provided information for those activities that commenced subsequent to November 20, 2012 and were performed through December 14, 2012. Activities performed after December 14, 2012 will be included in the 2013 Annual Compliance Report.

REASONABLE POTENTIAL ANALYSIS (RPA)

Outfall monitoring data was collected and analytical results were evaluated during the First Quarter 2013 for Outfalls 009 and 019. Analytical results from this quarter were added to the RPA dataset as per the MWH and Flow Science RPA procedures for the outfall monitoring groups, Outfalls 003-007, 009-010 and Outfall 019 (MWH and Flow Science, 2006). RPA was not triggered for any constituent not already regulated under the current NPDES Permit. Complete RPA tables for the outfall monitoring group are provided in **Appendix F**.

DATA VALIDATION AND QUALITY CONTROL

In accordance with current federal and state Environmental Protection Agency guidelines and procedures, or as specified in the NPDES Monitoring and Reporting Program, chemical and radiological analyses of surface water discharge and receiving water samples 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 low level detections, to analyze for interferences, and to ensure that cross contamination does not occur. Laboratory analytical reports, including validation reports and notes, are included in

Appendix G. Attachment H of the NPDES Permit issued to the Santa Susana Site presents the 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 elevated laboratory reporting limits (RLs) were noted, the laboratory maximum detectable limits (MDLs) remained below the State of California MLs. However, some constituents' daily MDLs 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 daily maximum or monthly average Permit limits that are less than the RL and ML are: mercury, bis(2-ethylhexyl)phthalate, polychlorinated biphenyls (PCBs) (Aroclor congeners), chlordane, Dichlorodiphenyldichloroethane (DDD), Dichlorodiphenyldichloroethylene (DDE), Dichlorodiphenyltrichloroethane (DDT), dieldrin, toxaphene, and chlorpyrifos. These compounds were either not a required analyte or not detected above the RL in all of the surface water/receiving water samples collected during First Quarter 2013.

FACILITY CONTACT

If there are any questions regarding this DMR or its enclosures, you may contact Mr. Paul Costa at (818) 466-8778.

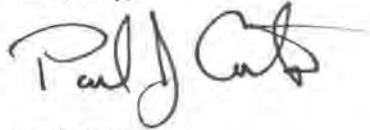
CERTIFICATION

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 15th of May 2013, at The Boeing Company, Santa Susana Site.

Sincerely,



Paul Costa,
Environmental Operations and Compliance Manager
Santa Susana Field Laboratory
Environment, Health and Safety

LB:jc

- Figures:
- 1 Stormwater Drainage System and Outfall Locations
 - 2 ISRA Site Location Figure
 - 3 BMP Plan Related Project Area Locations
 - 4 BMP Construction Project Area Locations

- Appendices:
- A First Quarter 2013 Rainfall Data Summary
 - B First Quarter 2013 Liquid Waste Shipment Summary Tables
 - C First Quarter 2013 Summary Tables, Discharge Monitoring Data
 - D First Quarter 2013 Radiological Monitoring Data
 - E First Quarter 2013 Exceedance Summary Table
 - F First Quarter 2013 RPA Summary Tables
 - G First Quarter 2013 Analytical Laboratory Reports, Chain-of- Custody, and Validation Reports

- cc:
- Ms. Cassandra Owens, Regional Water Quality Control Board
 - Mr. Rick Brausch, Department of Toxic Substances Control
 - Mr. Gerard Abrams, Department of Toxic Substances Control
 - Mr. Robert Marshall, California State University – Northridge, Library
 - Mr. Gabriel Lundeen, Simi Valley Library
 - Ms. Lynn Light, Platt Branch, Los Angeles Library

References Cited:

Boeing, 2011. Waste Discharge Requirements- The Boeing Company, Santa Susana Field Laboratory, Canoga Park, California, NPDES No. CA0001309, CI No. 6027, issued on June 16, 2010, and effective on July 19, 2010, Addendum. September 7.

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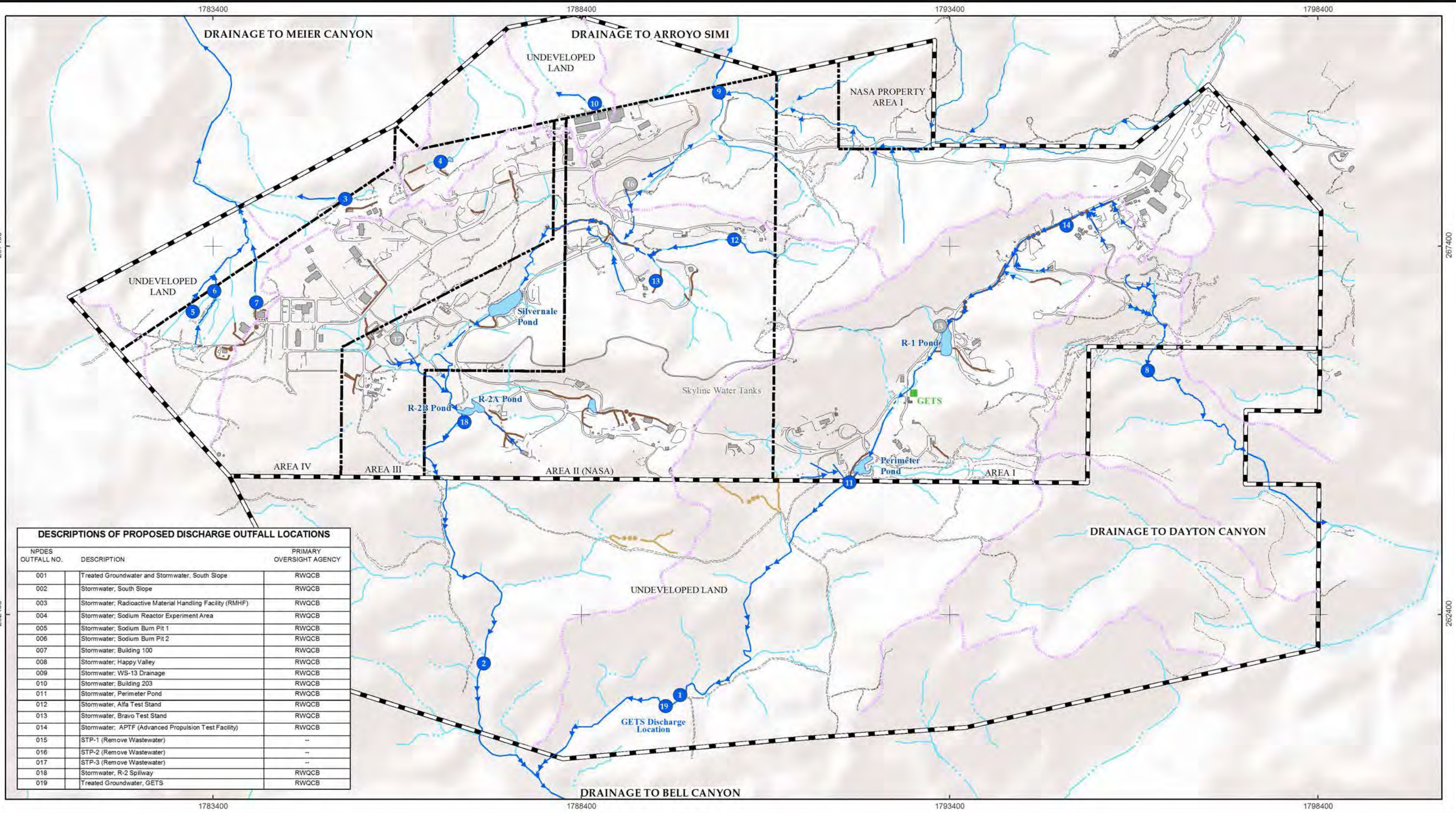
Haley & Aldrich, Inc., 2011. Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP), Santa Susana Field laboratory, Ventura County, California. October.

MWH Americas, Inc., and Flow Science, 2006. Reasonable Potential Analysis Methodology Technical Memo- Version 1, Final, Santa Susana Field Laboratory, Ventura County, California. April 28.

MWH Americas, Inc. et al, 2010. Best Management Practices (BMP) Plan, Outfalls 008 and 009 Watersheds, The Boeing Company, Santa Susana Field Laboratory, Canoga Park, California (Order No. R4-2010-0090; NPDES No. CA0001309, CI No. 6027). October 14.

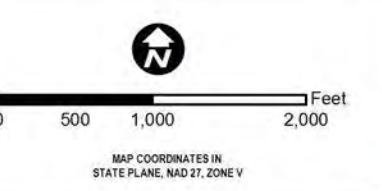
Ventura County Waterworks 2011. Annual Water Quality Report (Reporting Year 2011), Ventura County Waterworks – District No. 1. April 15.

FIGURES



DESCRIPTIONS OF PROPOSED DISCHARGE OUTFALL LOCATIONS

NPDES OUTFALL NO.	DESCRIPTION	PRIMARY OVERSIGHT AGENCY
001	Treated Groundwater and Stormwater, South Slope	RWQCB
002	Stormwater, South Slope	RWQCB
003	Stormwater, Radioactive Material Handling Facility (RMHF)	RWQCB
004	Stormwater, Sodium Reactor Experiment Area	RWQCB
005	Stormwater, Sodium Burn Pit 1	RWQCB
006	Stormwater, Sodium Burn Pit 2	RWQCB
007	Stormwater, Building 100	RWQCB
008	Stormwater, Happy Valley	RWQCB
009	Stormwater, WS-13 Drainage	RWQCB
010	Stormwater, Building 203	RWQCB
011	Stormwater, Perimeter Pond	RWQCB
012	Stormwater, Alfa Test Stand	RWQCB
013	Stormwater, Bravo Test Stand	RWQCB
014	Stormwater, APTF (Advanced Propulsion Test Facility)	RWQCB
015	STP-1 (Remove Wastewater)	--
016	STP-2 (Remove Wastewater)	--
017	STP-3 (Remove Wastewater)	--
018	Stormwater, R-2 Spillway	RWQCB
019	Treated Groundwater, GETS	RWQCB



**NPDES Permit Compliance
1st Quarter 2013
Discharge Monitoring Report**



ISRA Site Location Map

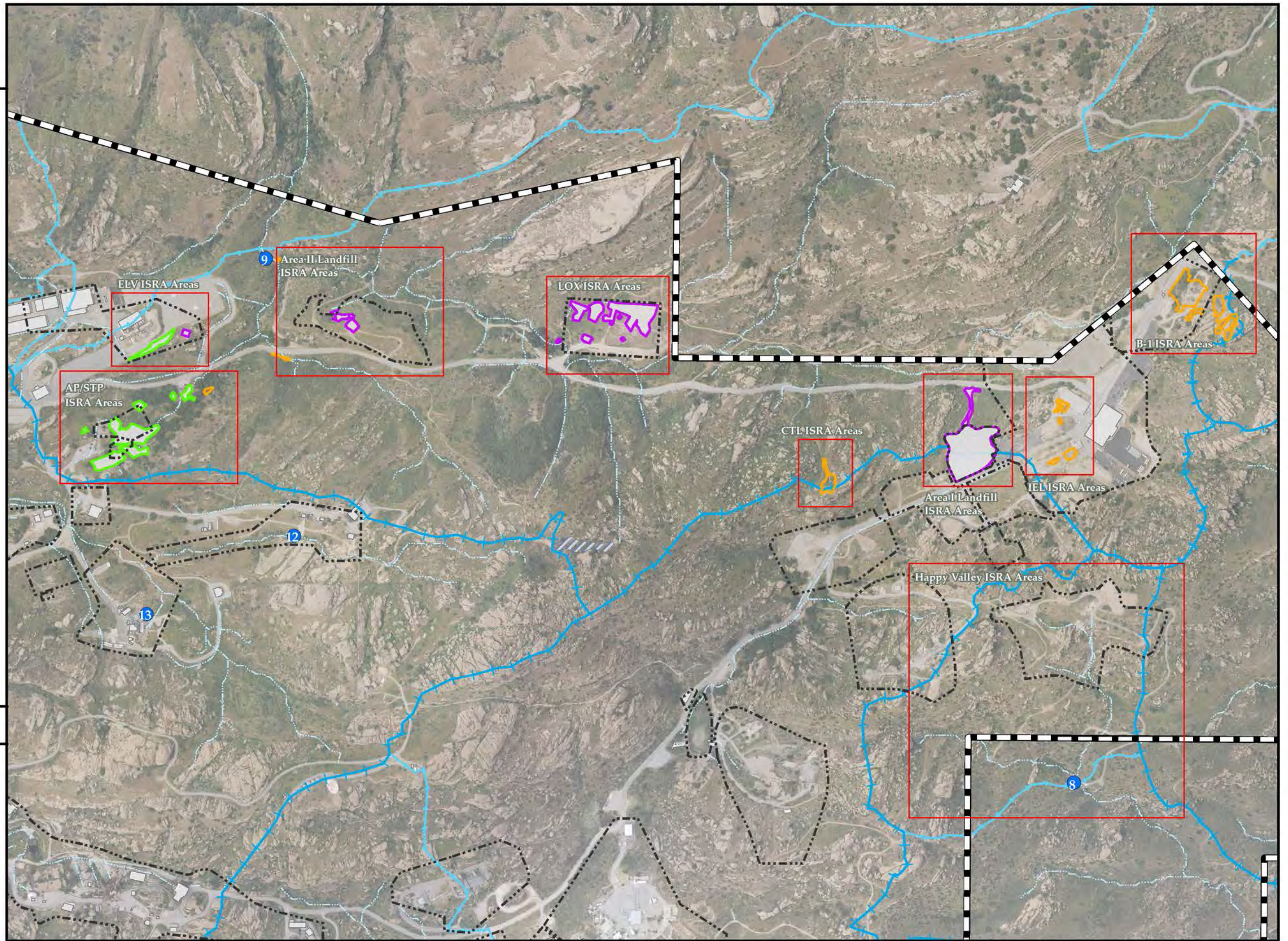
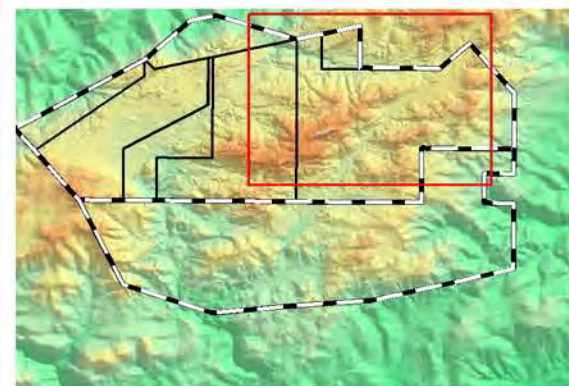
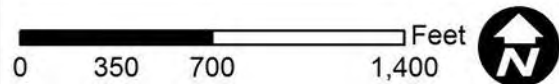
Base Map Legend

-  Administrative Area Boundary
-  RFI Site Boundary
-  ISRA Completed Excavation Area
-  Planned ISRA Excavation Area
-  ISRA Area with Remediation In-Progress
-  ISRA Soil Borrow Area
-  Existing Building or Structure
-  Major Surface Water Divide
-  Minor Surface Water Divide
-  Surface Water Drainage
-  NPDES Outfall

CTL - Component Testing Lab
 LOX - Liquid Oxygen
 ELV - Expandable Launch Vehicle
 IEL - Instrument and Equipment Lab
 AP/STP - Ashpile / Sewage Treatment Plant

Aerial imagery from 2010 Sage Consulting.

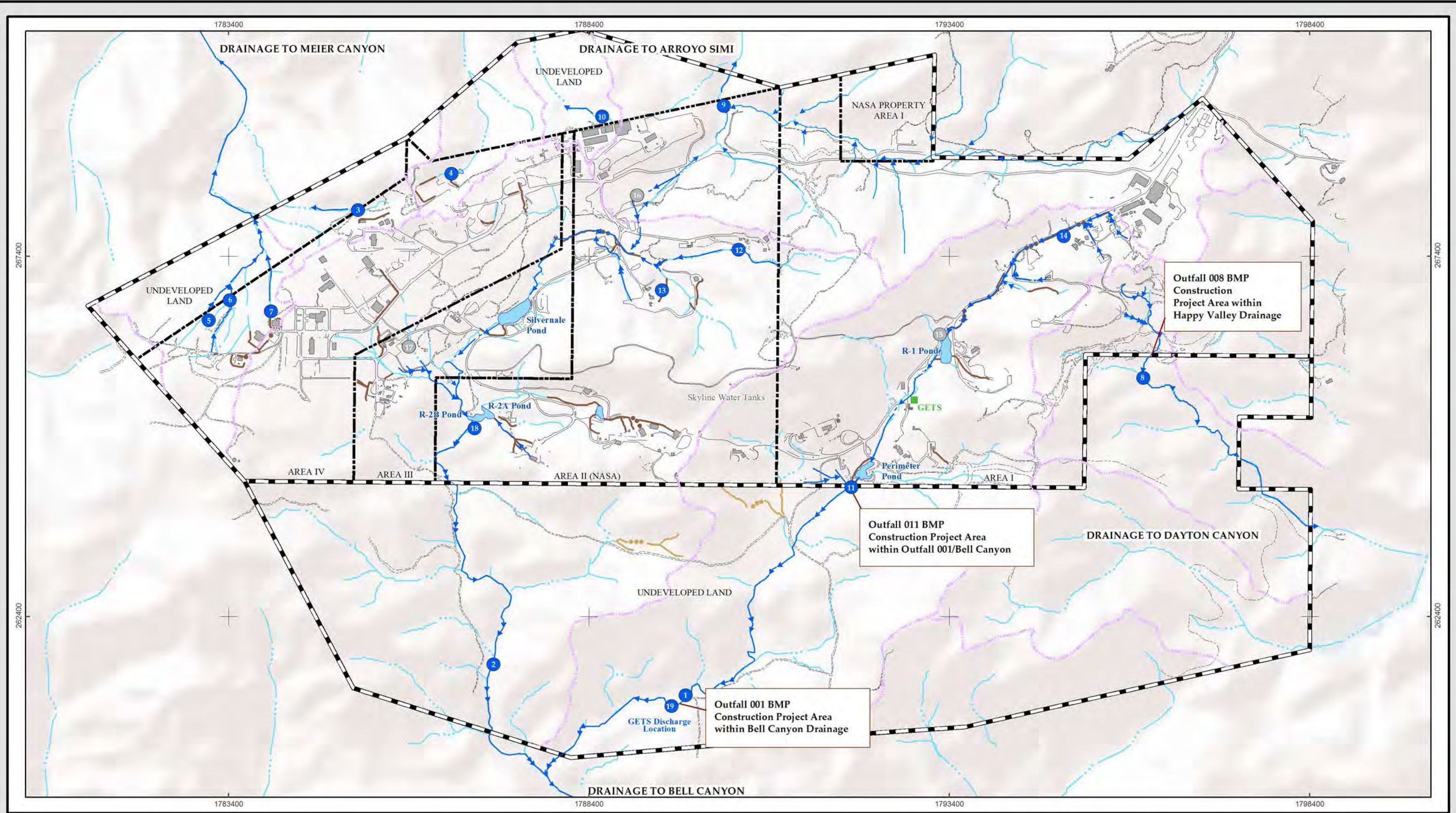
Date: May 1, 2013



SANTA SUSANA FIELD LABORATORY

NPDES COMPLIANCE
 1st QUARTER 2013 DMR

 **MWH** FIGURE 2



Outfall 008 BMP
Construction
Project Area within
Happy Valley Drainage

Outfall 011 BMP
Construction Project Area
within Outfall 001/Bell Canyon

Outfall 001 BMP
Construction Project Area
within Bell Canyon Drainage



Legend	
●	NPDES Outfalls (RWQCB Primary Oversight Authority)
●	Historical NPDES Outfalls
■	Groundwater Extraction Treatment System (GETS)
■	Surface Water Reclamation Ponds
→	Effluent Pathways
—	Surface Water Drainage Divide
—	Natural Drainage
—	Concrete Lined Drainage
—	Graded Drainage

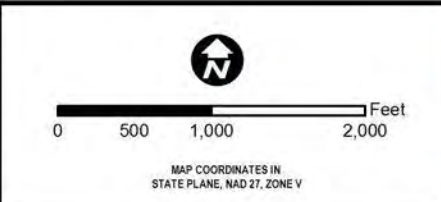
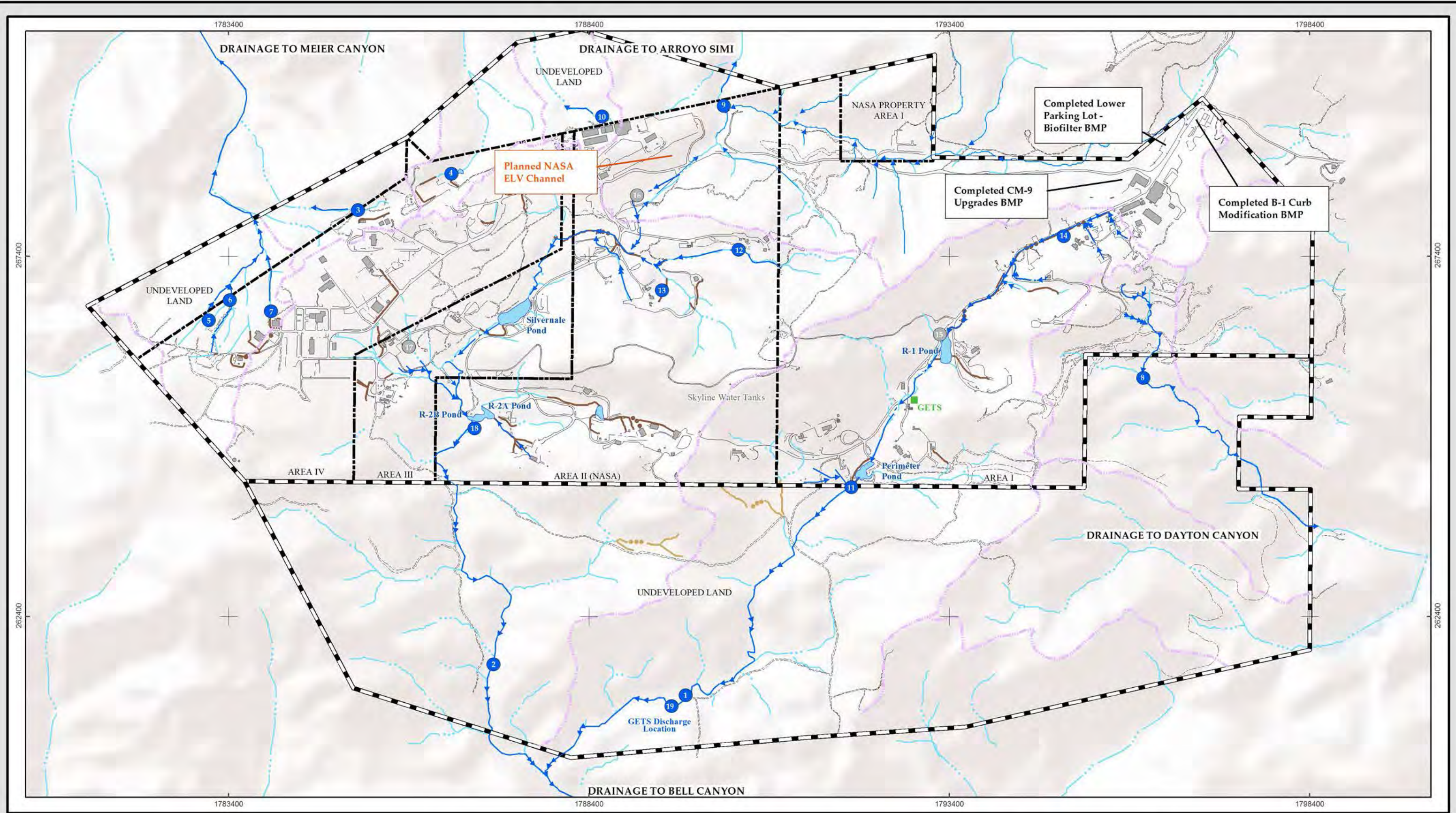
NPDES Permit Compliance 1st Quarter 2013 Discharge Monitoring Report

Base Map Legend	
	SSFL Property Boundary
	Administrative Area Boundary
	Ground Elevation Contours
	Drainage Pathways
	A/C Curbing
	Dirt Road
	Existing Building or Structure

**Site Map with BMP Construction Areas,
Outfall Locations and Storm Water Drainages**

Date: April 26, 2013
 File: \\Lispas101\del\rock\rdy\ne.gis\MasterGISFiles\Site\Map\Projects\NPDES\DMR\1Q2013\NPDES_DMR_1Q2013_Fig3.mxd

FIGURE 3



Legend	
● NPDES Outfalls (RWQCB Primary Oversight Authority)	→ Effluent Pathways
● Historical NPDES Outfalls	— Surface Water Drainage Divide
■ Groundwater Extraction Treatment System (GETS)	— Natural Drainage
■ Surface Water Reclamation Ponds	— Concrete Lined Drainage
	— Graded Drainage

NPDES Permit Compliance 1st Quarter 2013 Discharge Monitoring Report

Base Map Legend	
	SSFL Property Boundary
	Administrative Area Boundary
	Ground Elevation Contours
	Drainage Pathways
	A/C Curbing
	Dirt Road
	Existing Building or Structure

**Site Map with BMP Plan Areas
Outfall Locations and Storm Water Drainages**

Date: April 26, 2013
 File: \\Lispas101\del\rock\rdy\ne.gis\MasterGISFiles\Site\SiteProjects\NPDES\DMR\1Q2013\NPDES_DMR_1Q2013_Fig3.mxd

	FIGURE 4
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APPENDIX A

FIRST QUARTER 2013 RAINFALL DATA SUMMARY

**TABLE A
DAILY RAINFALL SUMMARY**

**THE BOEING COMPANY
NPDES PERMIT NUMBER
CA0001309**

Station: AREA4
Parameter: Rain
Month/Year: January 2013

HOUR OF THE DAY

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
6	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00p	0	0	0	0	0	0	0	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.1	0.11
24	0.12	0.11	0.04	0.1	0.12	0.13	0.14	0.18	0.05	0.04	0.02	0.04	0.01	0	0	0	0	0	0	0	0	0	0.01	0	1.11	
25	0.01	0	0	0.01	0	0	0	0	0.03	0.03	0.05	0.05	0.03	0	0.02	0.01	0	0.01	0.01	0	0.02	0.03	0.02	0.03	0.36	
26	0	0	0.02	0.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.06	
27	0.01	0	0.03	0	0	0	0	0.01	0	0	0	0	0	0.01	0.08	0	0	0	0	0	0	0	0	0	0.14	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	
29	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	
30	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	
31	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	INV	0.00	

p = Power failure, invalid hour
INV = Negative under range, invalid hour

**TABLE A
DAILY RAINFALL SUMMARY**

**THE BOEING COMPANY
NPDES PERMIT NUMBER
CA0001309**

Station: AREA4
Parameter: Rain
Month/Year: March 2013

HOUR OF THE DAY

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	0.15	0.23	0.15	0.07	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.08	0.04	0.13	0.26
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
19	0	0	0	0	0	0	0	0	0	0	0.15d	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
26	0	0	0	0	0	0	0	0	0.00p	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
27	0	0	0	0	0	0	0	0	0	0.00p	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.01

D
A
Y

O
F

T
H
E

M
O
N
T
H

d = Marked down, invalid hour
p = Power failure, invalid hour

APPENDIX B

FIRST QUARTER 2013 LIQUID WASTE SHIPMENTS SUMMARY
TABLES

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

January 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
1/2/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/2/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/2/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
1/4/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4700	G	Clean Harbors Environmental Services 2500 West Lockern Road, Buttonwillow, CA 93206	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/7/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4840	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/7/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	23825	P	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029
1/7/2013	WASTE FLAMMABLE LIQUIDS (METHANOL)	34	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/7/2013	WASTE CORROSIVE LIQUIDS (SODIUM HYDROXIDE, SODIUM CYANIDE)	35	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/7/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	11	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/7/2013	WASTE FLAMMABLE LIQUIDS (BENZENE, OIL)	6	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/7/2013	WASTE FLAMMABLE LIQUIDS (METHANOL)	263	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/7/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (NON-PCB BALLASTS)	458	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/8/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/8/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/8/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
1/10/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4692	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

January 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
1/14/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4091	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/14/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	2537	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/15/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/15/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/15/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
1/22/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/22/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/22/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
1/23/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/24/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4983	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/25/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	67	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
1/25/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	29928	P	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029
1/28/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4285	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
1/29/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/29/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
1/29/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

February 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
2/5/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/5/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/5/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
2/5/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5058	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
2/7/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4858	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
2/12/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/12/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/12/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
2/12/2013	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL (WATER)	5289	G	SOUTHWEST TREATMENT SYSTEMS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	SOUTHWEST TREATMENT SYSTEMS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058
2/12/2013	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL (WATER)	5009	G	NEXEO SOLUTIONS LLC	SOUTHWEST TREATMENT SYSTEMS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058
2/13/2013	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL (WATER)	5053	G	NEXEO SOLUTIONS LLC	SOUTHWEST TREATMENT SYSTEMS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058
2/14/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	1777	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
2/14/2013	WASTE CYANIDE SOLUTIONS (POTASSIUM CYANIDE, POTASSIUM BORATE)	12	P	Clean Harbors Environmental Services 309 American Circle, El Dorado, AR 71730	Clean Harbors Environmental Services 309 American Circle, El Dorado, AR 71730
2/14/2013	WASTE AMINES, LIQUID, CORROSIVE, FLAMMABLE (DIETHYLETHANOLAMINE, TRIETHANOLAMINE)	14	P	Clean Harbors Environmental Services 309 American Circle, El Dorado, AR 71730	Clean Harbors Environmental Services 309 American Circle, El Dorado, AR 71730
2/14/2013	WASTE CORROSIVE LIQUIDS (SODIUM HYDROXIDE, SODIUM CYANIDE)	27	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
2/15/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4862	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

February 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
2/19/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/19/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/19/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
2/19/2013	NON-DOT REGULATED MATERIAL (STORM WATER, GROUND WATER)	8923	P	NEXEO SOLUTIONS LLC	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058
2/19/2013	NON-HAZARDOUS WASTEWATER (STORM WATER, GROUND WATER)	145	P	NEXEO SOLUTIONS LLC	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058
2/20/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4551	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
2/25/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	2036	P	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029	Clean Harbors Environmental Services 11600 North Aptus Road, Grantsville, UT 84029
2/26/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/26/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
2/26/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
2/27/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (NON-PCB CAPACITORS)	49	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
2/27/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (DEBRIS, SULFURIC ACID)	22	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
2/27/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL)	127	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
2/27/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4920	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
2/28/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5122	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

March 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
3/5/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/5/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/5/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
3/5/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5170	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
3/11/2013	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5060	G	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Siemens Industry Inc. 5375 South Boyle Avenue, Los Angeles, CA 90058
3/12/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/12/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/12/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
3/13/2013	WASTE CORROSIVE LIQUIDS (SODIUM HYDROXIDE, SODIUM CYANIDE)	28	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
3/13/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (DEBRIS, SULFURIC ACID)	88	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
3/13/2013	NON-RCRA HAZARDOUS WASTE LIQUIDS (IRON REAGENT, WATER)	37	P	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Environmental Services 1737 East Denni Street, Wilmington, CA 90744
3/19/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/19/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/19/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson
3/26/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS**

March 2013

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
3/26/2013	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Saugus
3/26/2013	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	G	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA 90058	LACSD Carson

APPENDIX C

FIRST QUARTER 2013 SUMMARY TABLES, DISCHARGE
MONITORING DATA

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Notes:

1. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 37 of the NPDES permit.
2. pH was determined with a field instrument and was noted as such. These results were not validated.
3. The NPDES monthly average permit limit for mercury of 0.05 µg/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 µg/L was used to determine compliance.
4. All of the following abbreviations and/or notes may not occur on every table.

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
\$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	initial and or continuing calibration recoveries were outside acceptable control limits
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit
*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
* II *III	Unusual problems found with the data that have been described in Section II, "sample management", or Section III, "method analysis". The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed over the reporting period (annual, semi-annual, etc.)
B	laboratory method blank contamination
BA	relative percent difference out of control
BEF	bioaccumulation equivalency factor
BU	analyzed out of holding time
BV	sample received after holding time expired
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less then the laboratory reporting limit)
E	duplicates show poor agreement
ft/sec	feet per second
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value, result lower than the detection limit
J, DX	estimated value, value < lowest standard (MQL), but > than MDL
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
LQ	LCS/LCSD recovery above method control limits
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDA	minimum detectable activity
MDL	method detection limit
MGD	million gallons per day

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
MPN/100 ml	most probable number per 100 milliliters
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU _c	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume
#	Per ORDER NO. R4-2010-0090 page 23 Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inches of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2013			3/8/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Asbestos	MFL	-/-	ANR	ANR	ANR	Grab	ND < 2.0	*
Chloride	mg/L	150/-	Comp	2.1	--	Grab	2.3	*
Chlorpyrifos	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.077	*
E. Coli	MPN/100mL	-/-	ANR	ANR	ANR	Grab	23	*
Fecal Coliform	MPN/100mL	-/-	ANR	ANR	ANR	Grab	30	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	Grab	0.12	*
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	Comp	0.55	--	Grab	0.59	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	U	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	ANR	ANR	ANR	Grab	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	6.7	*	Grab	6.65	*
Sulfate	mg/L	250/-	Comp	3.8	--	Grab	6.0	*
Temperature	deg. F	86/-	Grab	54	*	Grab	51	*
Total Cyanide	ug/L	9.5/-	Comp	ND < 3.0	U	Grab	ND < 3.0	*
Total Dissolved Solids	mg/L	850/-	Comp	83	--	Grab	87	*
Hardness	mg/L	-/-	ANR	ANR	ANR	Grab	32	--
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	30	--
Total Suspended Solids	mg/L	-/-	Comp	ND < 10	U	Grab	ND < 10	*
Volume Discharged	MGD	17.8/-	Meas	0.10509	*	Meas	0.020885	*
METALS								
Aluminum	ug/L	-/-	ANR	ANR	ANR	Grab	370	J (Q)
Aluminum, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	99	--
Antimony	ug/L	6.0/-	Comp	0.66	J (DNQ)	Grab	0.79	J,DX* (DNQ)
Antimony, dissolved	ug/L	-/-	Comp	0.62	J (DNQ)	Grab	0.45	J,DX* (DNQ)
Arsenic	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 7.0	U
Beryllium	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.90	U
Boron	mg/L	1.0/-	ANR	ANR	ANR	Grab	0.041	J (DNQ)
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.056	U (B)
Cadmium	ug/L	4.0/-	Comp	ND < 0.10	U	Grab	0.43	J,DX* (DNQ)
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Grab	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR	Grab	8.4	--
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	8.2	--
Chromium	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Chromium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Chromium VI	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.25	*
Copper	ug/L	14/-	Comp	8.0	--	Grab	5.1	*
Copper, dissolved	ug/L	-/-	Comp	3.0	--	Grab	3.0	*
Iron	mg/L	-/-	ANR	ANR	ANR	Grab	0.46	--
Iron, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	0.11	--
Lead	ug/L	5.2/-	Comp	1.7	--	Grab	1.5	*
Lead, dissolved	ug/L	-/-	Comp	0.47	J (DNQ)	Grab	0.35	*
Magnesium	mg/L	-/-	ANR	ANR	ANR	Grab	2.6	--
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	2.4	--
Mercury	ug/L	0.13/-	Comp	ND < 0.10	U	Grab	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Grab	ND < 0.10	U
Nickel	ug/L	100/-	ANR	ANR	ANR	Grab	2.3	J (DNQ)
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Selenium	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	0.64	*
Silver	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 6.0	U
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 6.0	U
Thallium	ug/L	2.0/-	Comp	ND < 0.20	U	Grab	0.43	J,DX* (DNQ)
Thallium, dissolved	ug/L	-/-	Comp	ND < 0.20	U	Grab	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 3.0	U

See attached notes for abbreviations, definitions, and other explanations for the data presented.

OUTFALL 009 (WS-13 Drainage)

FIRST QUARTER 2013 REPORTING SUMMARY
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2013			3/8/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 3.0	U
Zinc	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 9.0	U
Zinc, Dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	9.7	J (DNQ)
ORGANICS								
Benzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	*
Chloroform	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
1,2-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	*
1,1,1-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.42	*
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	*
Toluene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	*
Trichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.34	*
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
ADDITIONAL ANALYTES								
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	*
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
1,2,3-Trichloropropane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
1,2-Dibromoethane (EDB)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	*
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	*
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	UJ (C)
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	*
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.37	*
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
2,4-dimethylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	U
2,4-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.853	U
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
2-Butanol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 6.5	*
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.8	*
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
2-chlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	UJ (C)
2-Methylnaphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
2-Methylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
2-nitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.474	U
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0038	*
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0029	*
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0038	*
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
4-Chloroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	U
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2013			3/8/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
4-nitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.37	U
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Acrolein	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 4.0	*
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.2	*
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	Grab	100	*
Aldrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0014	*
alpha-BHC	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0024	*
Aniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	U
Anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Aroclor 1016	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1221	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1232	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1242	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1248	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1254	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Aroclor 1260	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
Benzidine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.948	UJ (C)
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Benzo(g,h,i)Perylene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Benzoic acid	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.84	U
Benzyl alcohol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
beta-BHC	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0038	*
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.61	U
Bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Bis(2-Chloroisopropyl) Ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	*
Bromoform	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
Bromomethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.42	*
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.664	U
Chlordane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.076	*
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.36	*
Chloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
Chloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
Chronic Toxicity	TUC	1/-	Comp	1.0	*	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	*
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.22	*
delta-BHC	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0033	*
Diazinon	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.097	*
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Dibenzofuran	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	*
Dieldrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	*
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	0.257	J (DNQ)
Diisopropyl ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.25	*
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	U
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2013			3/8/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0029	*
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	*
Endosulfan Sulfate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0029	*
Endrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	*
Endrin Aldehyde	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	*
Ethyl tert-Butyl Ether (ETBE)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	*
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Fluorene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Heptachlor	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0029	*
Heptachlor Epoxide	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0024	*
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	UJ (C)
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Isophorone	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0029	*
Methylene chloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.95	*
Methyl-tert-butyl ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	*
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.948	U
Naphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Naphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.41	*
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
N-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
o-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
p-Cresol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.190	U
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.379	U
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
Phenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.284	U
p-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.474	U
Pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0948	U
tert-Amyl Methyl Ether (TAME)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.33	*
Toxaphene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	*
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	*
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	*

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

**Sample Type Composite
Sample Date January 25, 2013**

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	8.90E-07	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	6.30E-07	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	8.50E-07	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	3.30E-07	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	7.60E-07	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.50E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	2.10E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.00E-06	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	2.60E-07	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	6.20E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	3.90E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	2.00E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	4.00E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	3.60E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	1.10E-06	1.00E-05	ND	U	0.1	0.8	ND
OCDD	1.40E-06	1.00E-04	2.20E-04	--	0.0001	0.01	2.20E-10
OCDF	8.60E-07	1.00E-04	ND	UJ (*III)	0.0001	0.02	ND

TCDD TEQ w/out DNQ Values	2.20E-10
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See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

**Sample Type Grab
Sample Date March 8, 2013**

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	1.70E-06	5.00E-05	1.70E-05	J (DNQ)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	1.00E-06	5.00E-05	3.30E-06	J (DNQ)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.60E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	5.50E-07	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	4.60E-07	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	9.80E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	4.00E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	7.80E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	5.70E-07	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	7.80E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	5.80E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	4.00E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	6.10E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	4.90E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	4.20E-07	1.00E-05	ND	U	0.1	0.8	ND
OCDD	1.00E-05	1.00E-04	2.50E-04	--	0.0001	0.01	2.50E-10
OCDF	1.20E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND

TCDD TEQ w/out DNQ Values	2.50E-10
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See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

OUTFALL 009 (WS-13 Drainage)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2013			3/8/2013		
			Sample Type	Result	Concentration Result Validation Qualifier	Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	17.8	Meas	0.10509		Meas	0.020885	
Chloride	LBS/DAY	22,268/-	Comp	1.84	--	Grab	0.40	*
Fluoride	LBS/DAY	238/-	ANR	ANR	ANR	Grab	0.02	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	Comp	0.48	--	Grab	0.10	*
Oil & Grease	LBS/DAY	2,227/-	Grab	ND	U	Grab	ND	*
Perchlorate	LBS/DAY	0.89/-	ANR	ANR	ANR	Grab	ND	U
Sulfate	LBS/DAY	37,113/-	Comp	3.33	--	Grab	1.05	*
Total Cyanide	LBS/DAY	1.4/-	Comp	ND	U	Grab	ND	*
Total Dissolved Solids	LBS/DAY	126,184/-	Comp	72.75	--	Grab	15.15	*
Antimony	LBS/DAY	0.89/-	Comp	0.001	J (DNQ)	Grab	0.0001	J,DX* (DNQ)
Boron	LBS/DAY	148/-	ANR	ANR	ANR	Grab	0.01	J (DNQ)
Cadmium	LBS/DAY	0.59/-	Comp	ND	U	Grab	0.0001	J,DX* (DNQ)
Copper	LBS/DAY	2.1/-	Comp	0.01	--	Grab	0.001	*
Lead	LBS/DAY	0.77/-	Comp	0.001	--	Grab	0.0003	*
Mercury	LBS/DAY	0.02/-	Comp	ND	U	Grab	ND	U
Nickel	LBS/DAY	14.9/-	ANR	ANR	ANR	Grab	0.0004	J (DNQ)
Thallium	LBS/DAY	0.3/-	Comp	ND	U	Grab	0.0001	J,DX* (DNQ)
TCDD TEQ_NoDNQ	LBS/DAY	4.20E-09/-	Comp	1.93E-13	--	Grab	4.35E-14	--

OUTFALL 019 (Treatment System)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/1.96	Comp	0.280	J (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/20	Comp	ND < 0.50	U
Chloride	mg/L	150/-	Comp	120	--
Dissolved Oxygen	mg/L	-/-	Grab	4.28	*
E. Coli	MPN/100mL	-/-	Grab	ND < 2.0	U
Fecal Coliform	MPN/100mL	-/-	Grab	ND < 2.0	U
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	1500	BU*
Surfactants (MBAS)	mg/L	0.5/-	Comp	0.12	--
Fluoride	mg/L	1.6/-	Comp	0.31	--
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.11	U
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	ND < 0.080	U
Nitrite as Nitrogen (N)	mg/L	-/-	Comp	ND < 0.11	U
Oil & Grease	mg/L	15/10	Grab	ND < 1.3	U
Perchlorate	ug/L	6.0/-	Comp	ND < 0.95	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.50	*
Total Settleable Solids	ml/L	0.3/0.1	Grab	ND < 0.10	U
Sulfate	mg/L	300/-	Comp	250	--
Temperature	deg. F	86/-	Grab	72	*
Total Cyanide	ug/L	8.5/4.3	Comp	ND < 3.0	U
Hardness	ug/L	-/-	Comp	110000	*
Total Dissolved Solids	mg/L	950/-	Comp	890	--
Total Organic Carbon	mg/L	-/-	Comp	ND < 0.75	U
Total Residual Chlorine (Field)	mg/L	0.1/-	Grab	0.0	*
Total Suspended Solids	mg/L	45/15	Comp	ND < 10	U
Turbidity	NTU	-/-	Comp	1.1	--
Volume Discharged	MGD	160/-	Meas	0.023872	*
METALS					
Antimony	ug/L	6.0/-	Comp	ND < 0.30	U
Antimony, dissolved	ug/L	-/-	Comp	ND < 0.30	U
Arsenic	ug/L	10/-	Comp	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	Comp	ND < 7.0	U
Barium	mg/L	1.0/-	Comp	ND < 0.0060	U
Barium, dissolved	mg/L	-/-	Comp	ND < 0.0060	U
Beryllium	ug/L	4.0/-	Comp	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	Comp	ND < 0.90	U
Boron	mg/L	-/-	Comp	0.021	J (DNQ)
Boron, dissolved	mg/L	-/-	Comp	ND < 0.020	U
Cadmium	ug/L	3.1/2.0	Comp	0.12	J (DNQ)
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Chromium	ug/L	16/8	Comp	ND < 2.0	U
Chromium, dissolved	ug/L	-/-	Comp	ND < 2.0	U
Chromium VI	ug/L	16/8	Comp	1.1	--
Cobalt	ug/L	-/-	Comp	ND < 2.0	U

OUTFALL 019 (Treatment System)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Cobalt, dissolved	ug/L	-/-	Comp	ND < 2.0	U
Copper	ug/L	14/7.1	Comp	ND < 5.2	U (B)
Copper, dissolved	ug/L	-/-	Comp	ND < 2.0	U (B)
Iron	mg/L	0.3/-	Comp	0.075	--
Iron, dissolved	mg/L	-/-	Comp	ND < 0.040	U (B)
Lead	ug/L	5.2/2.6	Comp	0.37	J (DNQ)
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	U
Manganese	ug/L	50/-	Comp	24	--
Manganese, dissolved	ug/L	-/-	Comp	ND < 7.0	U
Mercury	ug/L	0.10/0.05	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	96/35	Comp	ND < 2.0	U
Nickel, dissolved	ug/L	-/-	Comp	ND < 2.0	U
Selenium	ug/L	8.2/4.1	Comp	ND < 0.50	U
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	U
Silver	ug/L	4.1/2.0	Comp	ND < 6.0	U
Silver, dissolved	ug/L	-/-	Comp	ND < 6.0	U
Thallium	ug/L	2.0/-	Comp	ND < 0.20	U
Thallium, dissolved	ug/L	-/-	Comp	ND < 0.20	U
Vanadium	ug/L	-/-	Comp	3.3	J (DNQ)
Vanadium, dissolved	ug/L	-/-	Comp	3.2	J (DNQ)
Zinc	ug/L	119/54	Comp	14	J (DNQ)
Zinc, Dissolved	ug/L	-/-	Comp	15	J (DNQ)
ORGANICS					
Benzene	ug/L	-/-	Grab	ND < 0.28	U
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	U
Chloroform	ug/L	-/-	Grab	ND < 0.33	U
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	U
1,2-Dichloroethane	ug/L	-/-	Grab	ND < 0.28	U
1,1-Dichloroethene	ug/L	6.0/3.2	Grab	ND < 0.42	U
1,4-Dioxane	ug/L	-/-	Comp	ND < 1.0	U
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	U
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	U
Toluene	ug/L	-/-	Grab	ND < 0.36	U
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	U
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	U
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	U
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	U
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	U
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	U
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	U
TPH					
DRO (C13 - C28)	mg/L	-/-	Grab	ND < 0.098	U
GRO (C4 - C12)	mg/L	-/-	Grab	ND < 0.025	U
ADDITIONAL ANALYTES					

OUTFALL 019 (Treatment System)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	Grab	ND < 1.1	U
1,1,2,2-Tetrachloroethane	ug/L	-/-	Grab	ND < 0.30	U
1,2,4-Trichlorobenzene	ug/L	-/-	Comp	ND < 2.37	U
1,2-Dichlorobenzene	ug/L	-/-	Comp	ND < 2.84	U
1,2-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.32	U
1,2-Dichloropropane	ug/L	-/-	Grab	ND < 0.35	U
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	Comp	ND < 2.37	U
1,3-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.35	U
1,3-Dichlorobenzene	ug/L	-/-	Comp	ND < 2.84	U
1,4-Dichlorobenzene	ug/L	-/-	Comp	ND < 2.37	U
1,4-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.37	U
2,4,6-Trichlorophenol	ug/L	13/6.5	Comp	ND < 4.27	U
2,4-Dichlorophenol	ug/L	-/-	Comp	ND < 3.32	U
2,4-dimethylphenol	ug/L	-/-	Comp	ND < 3.32	U
2,4-dinitrophenol	ug/L	-/-	Comp	ND < 7.58	U
2,4-Dinitrotoluene	ug/L	18/9.1	Comp	ND < 3.32	U
2,6-Dinitrotoluene	ug/L	-/-	Comp	ND < 1.90	U
2-Chloroethylvinylether	ug/L	-/-	Grab	ND < 1.8	U
2-Chloronaphthalene	ug/L	-/-	Comp	ND < 2.84	U
2-chlorophenol	ug/L	-/-	Comp	ND < 2.84	U
2-Methyl-4,6-dinitrophenol	ug/L	-/-	Comp	ND < 3.79	U
2-Methylnaphthalene	ug/L	-/-	Comp	ND < 1.90	U
2-Methylphenol	ug/L	-/-	Comp	ND < 2.84	U
2-nitrophenol	ug/L	-/-	Comp	ND < 3.32	U
3,3'-Dichlorobenzidine	ug/L	-/-	Comp	ND < 7.11	U
4,4'-DDD	ug/L	-/-	Comp	ND < 0.0038	U
4,4'-DDE	ug/L	-/-	Comp	ND < 0.0028	U
4,4'-DDT	ug/L	-/-	Comp	ND < 0.0038	U
4-Bromophenylphenylether	ug/L	-/-	Comp	ND < 2.84	U
4-Chloro-3-methylphenol	ug/L	-/-	Comp	ND < 2.37	U
4-Chloroaniline	ug/L	-/-	Comp	ND < 1.90	U
4-Chlorophenylphenylether	ug/L	-/-	Comp	ND < 2.37	U
4-nitrophenol	ug/L	-/-	Comp	ND < 5.21	U
Acenaphthene	ug/L	-/-	Comp	ND < 2.84	U
Acenaphthylene	ug/L	-/-	Comp	ND < 2.84	U
Acrolein	ug/L	-/-	Grab	ND < 4.0	U
Acrylonitrile	ug/L	-/-	Grab	ND < 1.2	U
Acute Toxicity	% SURVIVAL	70-100/-	Comp	100	*
Aldrin	ug/L	-/-	Comp	ND < 0.0014	U
alpha-BHC	ug/L	0.03/0.01	Comp	ND < 0.0024	U
Aniline	ug/L	-/-	Comp	ND < 3.32	U
Anthracene	ug/L	-/-	Comp	ND < 2.37	U
Aroclor 1016	ug/L	-/-	Comp	ND < 0.24	U
Aroclor 1221	ug/L	-/-	Comp	ND < 0.24	U
Aroclor 1232	ug/L	-/-	Comp	ND < 0.24	U

OUTFALL 019 (Treatment System)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aroclor 1242	ug/L	-/-	Comp	ND < 0.24	U
Aroclor 1248	ug/L	-/-	Comp	ND < 0.24	U
Aroclor 1254	ug/L	-/-	Comp	ND < 0.24	U
Aroclor 1260	ug/L	-/-	Comp	ND < 0.24	U
Benzidine	ug/L	-/-	Comp	ND < 9.48	UJ (*III)
Benzo(a)anthracene	ug/L	-/-	Comp	ND < 2.37	U
Benzo(a)pyrene	ug/L	-/-	Comp	ND < 2.84	U
Benzo(b)fluoranthene	ug/L	-/-	Comp	ND < 1.90	U
Benzo(g,h,i)Perylene	ug/L	-/-	Comp	ND < 3.79	U
Benzo(k)fluoranthene	ug/L	-/-	Comp	ND < 2.37	U
Benzoic acid	ug/L	-/-	Comp	ND < 9.48	U
Benzyl alcohol	ug/L	-/-	Comp	ND < 3.32	U
beta-BHC	ug/L	-/-	Comp	ND < 0.0038	U
bis (2-Chloroethyl) ether	ug/L	-/-	Comp	ND < 2.84	U
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 3.79	U
Bis(2-Chloroethoxy) methane	ug/L	-/-	Comp	ND < 2.84	U
Bis(2-Chloroisopropyl) Ether	ug/L	-/-	Comp	ND < 2.37	U
Bromodichloromethane	ug/L	-/-	Grab	ND < 0.30	U
Bromoform	ug/L	-/-	Grab	ND < 0.40	U
Bromomethane	ug/L	-/-	Grab	ND < 0.42	U
Butylbenzylphthalate	ug/L	-/-	Comp	ND < 3.79	U
Chlordane	ug/L	-/-	Comp	ND < 0.075	U
Chlorobenzene	ug/L	-/-	Grab	ND < 0.36	U
Chloroethane	ug/L	-/-	Grab	ND < 0.40	U
Chloromethane	ug/L	-/-	Grab	ND < 0.40	U
Chronic Toxicity	TUC	1.0/-	Comp	1.0	*
Chrysene	ug/L	-/-	Comp	ND < 2.37	U
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.32	U
cis-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.22	U
Cyclohexane	ug/L	-/-	Grab	ND < 0.40	U
delta-BHC	ug/L	-/-	Comp	ND < 0.0033	U
Dibenzo(a,h)anthracene	ug/L	-/-	Comp	ND < 2.84	U
Dibenzofuran	ug/L	-/-	Comp	ND < 3.79	U
Dibromochloromethane	ug/L	-/-	Grab	ND < 0.40	U
Dieldrin	ug/L	-/-	Comp	ND < 0.0019	U
Diethylphthalate	ug/L	-/-	Comp	ND < 3.32	U
Dimethylphthalate	ug/L	-/-	Comp	ND < 2.37	U
Di-n-butylphthalate	ug/L	-/-	Comp	ND < 2.84	U
Di-n-octylphthalate	ug/L	-/-	Comp	ND < 3.32	U
Endosulfan I	ug/L	-/-	Comp	ND < 0.0028	U
Endosulfan II	ug/L	-/-	Comp	ND < 0.0019	U
Endosulfan Sulfate	ug/L	-/-	Comp	ND < 0.0028	U
Endrin	ug/L	-/-	Comp	ND < 0.0019	U
Endrin Aldehyde	ug/L	-/-	Comp	ND < 0.0019	U
Fluoranthene	ug/L	-/-	Comp	ND < 2.84	U

OUTFALL 019 (Treatment System)

FIRST QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Fluorene	ug/L	-/-	Comp	ND < 2.84	U
Heptachlor	ug/L	-/-	Comp	ND < 0.0028	U
Heptachlor Epoxide	ug/L	-/-	Comp	ND < 0.0024	U
Hexachlorobenzene	ug/L	-/-	Comp	ND < 2.84	U
Hexachlorobutadiene	ug/L	-/-	Comp	ND < 3.79	U
Hexachlorocyclopentadiene	ug/L	-/-	Comp	ND < 4.74	UJ (C)
Hexachloroethane	ug/L	-/-	Comp	ND < 3.32	U
Hydrazine	ug/L	-/-	Comp	ND < 0.510	UJ (H)
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	Comp	ND < 2.05	UJ (H)
Indeno(1,2,3-cd)pyrene	ug/L	-/-	Comp	ND < 3.32	U
Isophorone	ug/L	-/-	Comp	ND < 2.84	U
Lindane (gamma-BHC)	ug/L	-/-	Comp	ND < 0.0028	U
Methylene chloride	ug/L	-/-	Grab	ND < 0.95	U
m-Nitroaniline	ug/L	-/-	Comp	ND < 2.84	U
Monomethyl Hydrazine	ug/L	-/-	Comp	ND < 3.41	UJ (H)
Naphthalene	ug/L	-/-	Comp	ND < 2.84	U
Nitrobenzene	ug/L	-/-	Comp	ND < 2.84	U
n-Nitrosodimethylamine	ug/L	16/8.1	Comp	ND < 2.37	U
n-Nitroso-di-n-propylamine	ug/L	-/-	Comp	ND < 3.32	U
N-Nitrosodiphenylamine	ug/L	-/-	Comp	ND < 1.90	U
o-Nitroaniline	ug/L	-/-	Comp	ND < 1.90	U
p-Cresol	ug/L	-/-	Comp	ND < 2.84	U
Pentachlorophenol	ug/L	16.5/8.2	Comp	ND < 3.32	U
Phenanthrene	ug/L	-/-	Comp	ND < 3.32	U
Phenol	ug/L	-/-	Comp	ND < 1.90	U
p-Nitroaniline	ug/L	-/-	Comp	ND < 3.79	U
Pyrene	ug/L	-/-	Comp	ND < 3.79	U
Toxaphene	ug/L	-/-	Comp	ND < 0.24	U
trans-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.30	U
trans-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.32	U

Outfall 019 (Treatment System)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

**Sample Type Grab
Sample Date March 15, 2013**

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	7.40E-07	5.00E-05	ND	U	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	5.40E-07	5.00E-05	ND	U	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	8.00E-07	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	2.00E-06	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	3.20E-07	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	5.60E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	2.80E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	5.40E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	4.00E-07	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	7.80E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	7.30E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	2.80E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	7.80E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	4.80E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	3.40E-07	1.00E-05	ND	U	0.1	0.8	ND
OCDD	9.70E-07	1.00E-04	ND	U (B)	0.0001	0.01	ND
OCDF	9.90E-07	1.00E-04	ND	U	0.0001	0.02	ND
TCDD TEQ w/out DNQ Values							ND

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

OUTFALL 019

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.023872	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/2615	Comp	0.06	J (DNQ)
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/26,700	Comp	ND	U
Chloride	LBS/DAY	200,160/-	Comp	23.89	--
Surfactants (MBAS)	LBS/DAY	667/-	Comp	0.02	--
Fluoride	LBS/DAY	2,135/-	Comp	0.06	--
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	U
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	U
Nitrite as Nitrogen (N)	LBS/DAY	1,334/-	Comp	ND	U
Oil & Grease	LBS/DAY	20,016/13,344	Grab	ND	U
Perchlorate	LBS/DAY	8.0/-	Comp	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	49.77	--
Total Cyanide	LBS/DAY	11/5.7	Comp	ND	U
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	177.19	--
Total Residual Chlorine (Field)	LBS/DAY	133/-	Grab	0.0	*
Total Suspended Solids	LBS/DAY	60,048/20,016	Comp	ND	U
Antimony	LBS/DAY	8.0/-	Comp	ND	U
Arsenic	LBS/DAY	67/-	Comp	ND	U
Barium	LBS/DAY	1,330/-	Comp	ND	U
Beryllium	LBS/DAY	5.3/-	Comp	ND	U
Cadmium	LBS/DAY	4.1/2.7	Comp	0.00002	J (DNQ)
Chromium VI	LBS/DAY	22/11	Comp	0.0002	--
Copper	LBS/DAY	19/9.5	Comp	ND	U (B)
Iron	LBS/DAY	400/-	Comp	0.01	--
Lead	LBS/DAY	6.9/3.5	Comp	0.0001	J (DNQ)
Manganese	LBS/DAY	66.7/-	Comp	0.005	--
Mercury	LBS/DAY	0.13/0.07	Comp	ND	U
Nickel	LBS/DAY	128/47	Comp	ND	U
Selenium	LBS/DAY	11/5.5	Comp	ND	U
Silver	LBS/DAY	5.5/2.7	Comp	ND	U
Thallium	LBS/DAY	2.7/-	Comp	ND	U
Zinc	LBS/DAY	159/72	Comp	0.003	J (DNQ)
1,1-Dichloroethene	LBS/DAY	8.0/4.3	Grab	ND	U
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	U
2,4,6-Trichlorophenol	LBS/DAY	17/8.7	Comp	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/12	Comp	ND	U
alpha-BHC	LBS/DAY	0.04/0.013	Comp	ND	U
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	U
n-Nitrosodimethylamine	LBS/DAY	22/10.8	Comp	ND	U

OUTFALL 019

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/14/2013-03/15/2013		
			Sample Type	Result	Concentration Result Validation Qualifier
Pentachlorophenol	LBS/DAY	22/10.9	Comp	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	3.70E-08/1.9E-08	Comp	ND	--

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly	3/8/2013			3/13/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chlorpyrifos	ug/L	0.02/-	Grab	ND < 0.077	U	ANR	ANR	ANR
E. Coli	MPN/100 ml	235/-	Grab	>=1600	--	Grab	37	*
Fecal Coliform	MPN/100 ml	400/-	Grab	>=1600	--	Grab	80	*
pH (Field)	pH Units	6.5-8.5/-	Grab	7.31	*	ANR	ANR	ANR
Temperature	F	-/-	Grab	60	*	ANR	ANR	ANR
Total Cyanide	ug/L	-/-	Grab	ND < 3.0	U	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	210	R (D)	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	210	--	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	Grab	180	--	ANR	ANR	ANR
Total Suspended Solids	mg/L	-/-	Grab	310	--	ANR	ANR	ANR
Water Velocity	ft/sec	-/-	Meas	0.3	*	ANR	ANR	ANR
METALS								
Aluminum	ug/L	-/-	Grab	6000	--	ANR	ANR	ANR
Aluminum, dissolved	ug/L	-/-	Grab	ND < 40	U	ANR	ANR	ANR
Antimony	ug/L	-/-	Grab	0.87	J (DNQ)	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	Grab	0.52	J (DNQ)	ANR	ANR	ANR
Arsenic	ug/L	-/-	Grab	ND < 7.0	U	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	Grab	ND < 7.0	U	ANR	ANR	ANR
Beryllium	ug/L	-/-	Grab	ND < 0.90	U	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	Grab	ND < 0.90	U	ANR	ANR	ANR
Boron	mg/L	-/-	Grab	0.20	--	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	Grab	0.22	--	ANR	ANR	ANR
Cadmium	ug/L	-/-	Grab	0.68	J (Q, DNQ)	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	Grab	0.11	J (DNQ)	ANR	ANR	ANR
Calcium	mg/L	-/-	Grab	58	--	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	Grab	51	--	ANR	ANR	ANR
Chromium	ug/L	-/-	Grab	14	--	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	Grab	ND < 2.0	U	ANR	ANR	ANR
Chromium VI	ug/L	-/-	Grab	0.39	J (H, DNQ)	ANR	ANR	ANR
Copper	ug/L	-/-	Grab	15	--	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	Grab	4.3	--	ANR	ANR	ANR
Iron	mg/L	-/-	Grab	9.3	--	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	Grab	0.033	J (DNQ)	ANR	ANR	ANR
Lead	ug/L	-/-	Grab	4.9	J (Q)	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	Grab	ND < 0.20	U	ANR	ANR	ANR
Magnesium	mg/L	-/-	Grab	17	--	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	Grab	13	--	ANR	ANR	ANR
Mercury	mg/L	-/-	Grab	ND < 0.10	U	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	Grab	ND < 0.10	U	ANR	ANR	ANR
Nickel	ug/L	-/-	Grab	14	--	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	Grab	2.7	J (DNQ)	ANR	ANR	ANR
Selenium	ug/L	-/-	Grab	3.2	J (DNQ)	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	Grab	2.1	--	ANR	ANR	ANR
Silver	ug/L	-/-	Grab	ND < 6.0	U	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	Grab	ND < 6.0	U	ANR	ANR	ANR
Thallium	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	Grab	ND < 0.20	U	ANR	ANR	ANR
Vanadium	ug/L	-/-	Grab	28	--	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	Grab	ND < 3.0	U	ANR	ANR	ANR
Zinc	ug/L	-/-	Grab	52	--	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	Grab	ND < 9.0	U	ANR	ANR	ANR
ORGANICS								
Benzene	ug/L	-/-	Grab	ND < 0.28	U	ANR	ANR	ANR

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly	3/8/2013			3/13/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	U	ANR	ANR	ANR
Chloroform	ug/L	-/-	Grab	ND < 0.33	U	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	Grab	ND < 0.28	U	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	Grab	ND < 0.42	U	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	U	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	U	ANR	ANR	ANR
Toluene	ug/L	-/-	Grab	ND < 0.36	U	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	U	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	U	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	U	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	Grab	ND < 0.26	U	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	U	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
ADDITIONAL ANALYTES								
1,1,2,2-Tetrachloroethane	ug/L	-/-	Grab	ND < 0.30	U	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
1,2,3-Trichloropropane	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
1,2-Dibromoethane (EDB)	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	Grab	ND < 0.32	U	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	Grab	ND < 0.35	U	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	Grab	ND < 0.190	UJ (C)	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.35	U	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.37	U	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	Grab	ND < 0.284	U	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	Grab	ND < 0.853	U	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
2-Butanol	ug/L	-/-	Grab	ND < 6.5	U	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	Grab	ND < 1.8	U	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	Grab	ND < 0.284	UJ (C)	ANR	ANR	ANR
2-Methylnaphthalene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
2-Methylphenol	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	Grab	ND < 0.474	U	ANR	ANR	ANR
4,4'-DDD	ug/L	0.0014/-	Grab	ND < 0.0038	UJ (C)	ANR	ANR	ANR
4,4'-DDE	ug/L	0.001/-	Grab	ND < 0.0028	U	ANR	ANR	ANR
4,4'-DDT	ug/L	0.001/-	Grab	ND < 0.0038	U	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
4-Chloroaniline	ug/L	-/-	Grab	ND < 0.284	U	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	Grab	ND < 2.37	U	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Acrolein	ug/L	-/-	Grab	ND < 4.0	U	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	Grab	ND < 1.2	U	ANR	ANR	ANR
Aldrin	ug/L	-/-	Grab	ND < 0.0014	U	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	Grab	ND < 0.0024	U	ANR	ANR	ANR

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly	3/8/2013			3/13/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aniline	ug/L	-/-	Grab	ND < 0.284	U	ANR	ANR	ANR
Anthracene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Aroclor 1016	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1221	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1232	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1242	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1248	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1254	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Aroclor 1260	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
Benzidine	ug/L	-/-	Grab	ND < 0.948	UJ (C)	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Benzoic acid	ug/L	-/-	Grab	ND < 2.84	U	ANR	ANR	ANR
Benzyl alcohol	ug/L	-/-	Grab	1.00	J (DNQ)	ANR	ANR	ANR
beta-BHC	ug/L	-/-	Grab	ND < 0.0038	U	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	Grab	ND < 1.61	U	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	Grab	ND < 0.30	U	ANR	ANR	ANR
Bromoform	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
Bromomethane	ug/L	-/-	Grab	ND < 0.42	U	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	Grab	ND < 0.664	U	ANR	ANR	ANR
Chlordane	ug/L	0.001/-	Grab	ND < 0.075	U	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	Grab	ND < 0.36	U	ANR	ANR	ANR
Chloroethane	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
Chloromethane	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
Chrysene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.32	U	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.22	U	ANR	ANR	ANR
delta-BHC	ug/L	-/-	Grab	ND < 0.0033	U	ANR	ANR	ANR
Diazinon	ug/L	0.16/-	Grab	ND < 0.096	U	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Dibenzofuran	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	Grab	ND < 0.40	U	ANR	ANR	ANR
Dieldrin	ug/L	0.0002/-	Grab	ND < 0.0019	U	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Diisopropyl ether	ug/L	-/-	Grab	ND < 0.25	U	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	Grab	ND < 0.284	U	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	Grab	ND < 0.190	J (DNQ)	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	Grab	ND < 0.0028	U	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	Grab	ND < 0.0019	U	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	Grab	ND < 0.0028	UJ (C)	ANR	ANR	ANR
Endrin	ug/L	-/-	Grab	ND < 0.0019	UJ (C)	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	Grab	ND < 0.0019	U	ANR	ANR	ANR
Ethyl tert-Butyl Ether (ETBE)	ug/L	-/-	Grab	ND < 0.28	U	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Fluorene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Heptachlor	ug/L	-/-	Grab	ND < 0.0028	U	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	Grab	ND < 0.0024	U	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly	3/8/2013			3/13/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hexachlorocyclopentadiene	ug/L	-/-	Grab	ND < 0.0948	UJ (C)	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Isophorone	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	Grab	ND < 0.0028	U	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	Grab	ND < 0.95	U	ANR	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	Grab	ND < 0.32	U	ANR	ANR	ANR
m-Nitroaniline	ug/L	-/-	Grab	ND < 0.948	U	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ND < 0.41	U	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
o-Nitroaniline	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
p-Cresol	ug/L	-/-	Grab	ND < 0.190	U	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	Grab	ND < 0.379	U	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
Phenol	ug/L	-/-	Grab	ND < 0.284	U	ANR	ANR	ANR
p-Nitroaniline	ug/L	-/-	Grab	ND < 0.474	U	ANR	ANR	ANR
Pyrene	ug/L	-/-	Grab	ND < 0.0948	U	ANR	ANR	ANR
tert-Amyl Methyl Ether (TAME)	ug/L	-/-	Grab	ND < 0.33	U	ANR	ANR	ANR
Toxaphene	ug/L	0.0003/-	Grab	ND < 0.24	U	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	Grab	ND < 0.30	U	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	Grab	ND < 0.32	U	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/18/2013			3/22/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chlorpyrifos	ug/L	0.02/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
E. Coli	MPN/100 ml	235/-	Grab	Grab	130	*	Grab	30	*
Fecal Coliform	MPN/100 ml	400/-	Grab	Grab	130	*	Grab	30	*
pH (Field)	pH Units	6.5-8.5/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Temperature	F	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Total Cyanide	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Total Suspended Solids	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Water Velocity	ft/sec	-/-	Meas	ANR	ANR	ANR	ANR	ANR	ANR
METALS									
Aluminum	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aluminum, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Antimony	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Boron	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Calcium	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chromium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chromium VI	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Copper	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Iron	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Lead	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Mercury	mg/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Nickel	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Silver	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
ORGANICS									
Benzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/18/2013			3/22/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Carbon Tetrachloride	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
ADDITIONAL ANALYTES									
1,1,2,2-Tetrachloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2,3-Trichloropropane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dibromoethane (EDB)	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Butanol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylphenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	0.0014/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	0.001/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	0.001/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloroaniline	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/18/2013			3/22/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aniline	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1016	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1221	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1232	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1242	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1248	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1254	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor 1260	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzoic acid	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Benzyl alcohol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chlordane	ug/L	0.001/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Diazinon	ug/L	0.16/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Dieldrin	ug/L	0.0002/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Diisopropyl ether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Ethyl tert-Butyl Ether (ETBE)	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/18/2013			3/22/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hexachlorocyclopentadiene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
m-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
o-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
p-Cresol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
p-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
tert-Amyl Methyl Ether (TAME)	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	0.0003/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	Grab	ANR	ANR	ANR	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/27/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Chlorpyrifos	ug/L	0.02/-	Grab	ANR	ANR	ANR
E. Coli	MPN/100 ml	235/-	Grab	Grab	130	*
Fecal Coliform	MPN/100 ml	400/-	Grab	Grab	130	*
pH (Field)	pH Units	6.5-8.5/-	Grab	ANR	ANR	ANR
Temperature	F	-/-	Grab	ANR	ANR	ANR
Total Cyanide	ug/L	-/-	Grab	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	ANR	ANR	ANR
Hardness	mg/L	-/-	Grab	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR
Total Suspended Solids	mg/L	-/-	Grab	ANR	ANR	ANR
Water Velocity	ft/sec	-/-	Meas	ANR	ANR	ANR
METALS						
Aluminum	ug/L	-/-	Grab	ANR	ANR	ANR
Aluminum, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Antimony	ug/L	-/-	Grab	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Arsenic	ug/L	-/-	Grab	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Beryllium	ug/L	-/-	Grab	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Boron	mg/L	-/-	Grab	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR
Cadmium	ug/L	-/-	Grab	ANR	ANR	ANR
Cadmium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Calcium	mg/L	-/-	Grab	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	Grab	ANR	ANR	ANR
Chromium	ug/L	-/-	Grab	ANR	ANR	ANR
Chromium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Chromium VI	ug/L	-/-	Grab	ANR	ANR	ANR
Copper	ug/L	-/-	Grab	ANR	ANR	ANR
Copper, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Iron	mg/L	-/-	Grab	ANR	ANR	ANR
Iron, dissolved	mg/L	-/-	Grab	ANR	ANR	ANR
Lead	ug/L	-/-	Grab	ANR	ANR	ANR
Lead, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Magnesium	mg/L	-/-	Grab	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	Grab	ANR	ANR	ANR
Mercury	mg/L	-/-	Grab	ANR	ANR	ANR
Mercury, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Nickel	ug/L	-/-	Grab	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Selenium	ug/L	-/-	Grab	ANR	ANR	ANR
Selenium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Silver	ug/L	-/-	Grab	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Thallium	ug/L	-/-	Grab	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Vanadium	ug/L	-/-	Grab	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
Zinc	ug/L	-/-	Grab	ANR	ANR	ANR
Zinc, Dissolved	ug/L	-/-	Grab	ANR	ANR	ANR
ORGANICS						
Benzene	ug/L	-/-	Grab	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/27/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Carbon Tetrachloride	ug/L	-/-	Grab	ANR	ANR	ANR
Chloroform	ug/L	-/-	Grab	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	Grab	ANR	ANR	ANR
Toluene	ug/L	-/-	Grab	ANR	ANR	ANR
Xylenes (Total)	ug/L	-/-	Grab	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	Grab	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	Grab	ANR	ANR	ANR
ADDITIONAL ANALYTES						
1,1,2,2-Tetrachloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,2,3-Trichloropropane	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Dibromoethane (EDB)	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	Grab	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	Grab	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	Grab	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	Grab	ANR	ANR	ANR
2-Butanol	ug/L	-/-	Grab	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	Grab	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	Grab	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR
2-Methylnaphthalene	ug/L	-/-	Grab	ANR	ANR	ANR
2-Methylphenol	ug/L	-/-	Grab	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	Grab	ANR	ANR	ANR
4,4'-DDD	ug/L	0.0014/-	Grab	ANR	ANR	ANR
4,4'-DDE	ug/L	0.001/-	Grab	ANR	ANR	ANR
4,4'-DDT	ug/L	0.001/-	Grab	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	Grab	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	Grab	ANR	ANR	ANR
4-Chloroaniline	ug/L	-/-	Grab	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	Grab	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	Grab	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	Grab	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	Grab	ANR	ANR	ANR
Acrolein	ug/L	-/-	Grab	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	Grab	ANR	ANR	ANR
Aldrin	ug/L	-/-	Grab	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	Grab	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/27/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Aniline	ug/L	-/-	Grab	ANR	ANR	ANR
Anthracene	ug/L	-/-	Grab	ANR	ANR	ANR
Aroclor 1016	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1221	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1232	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1242	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1248	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1254	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Aroclor 1260	ug/L	0.0003/-	Grab	ANR	ANR	ANR
Benzidine	ug/L	-/-	Grab	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	Grab	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	Grab	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	Grab	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR
Benzoic acid	ug/L	-/-	Grab	ANR	ANR	ANR
Benzyl alcohol	ug/L	-/-	Grab	ANR	ANR	ANR
beta-BHC	ug/L	-/-	Grab	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	Grab	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	Grab	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	Grab	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	Grab	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	Grab	ANR	ANR	ANR
Bromoform	ug/L	-/-	Grab	ANR	ANR	ANR
Bromomethane	ug/L	-/-	Grab	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR
Chlordane	ug/L	0.001/-	Grab	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
Chloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
Chloromethane	ug/L	-/-	Grab	ANR	ANR	ANR
Chrysene	ug/L	-/-	Grab	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	Grab	ANR	ANR	ANR
delta-BHC	ug/L	-/-	Grab	ANR	ANR	ANR
Diazinon	ug/L	0.16/-	Grab	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	Grab	ANR	ANR	ANR
Dibenzofuran	ug/L	-/-	Grab	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	Grab	ANR	ANR	ANR
Dieldrin	ug/L	0.0002/-	Grab	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR
Diisopropyl ether	ug/L	-/-	Grab	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	Grab	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	Grab	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	Grab	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	Grab	ANR	ANR	ANR
Endrin	ug/L	-/-	Grab	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	Grab	ANR	ANR	ANR
Ethyl tert-Butyl Ether (ETBE)	ug/L	-/-	Grab	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	Grab	ANR	ANR	ANR
Fluorene	ug/L	-/-	Grab	ANR	ANR	ANR
Heptachlor	ug/L	-/-	Grab	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	Grab	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	Grab	ANR	ANR	ANR

ARROYO SIMI (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly	SAMPLE TYPE	3/27/2013		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hexachlorocyclopentadiene	ug/L	-/-	Grab	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	Grab	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	Grab	ANR	ANR	ANR
Isophorone	ug/L	-/-	Grab	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	Grab	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	Grab	ANR	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	Grab	ANR	ANR	ANR
m-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ANR	ANR	ANR
Naphthalene	ug/L	-/-	Grab	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	Grab	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	Grab	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	Grab	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	Grab	ANR	ANR	ANR
o-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR
p-Cresol	ug/L	-/-	Grab	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	Grab	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	Grab	ANR	ANR	ANR
Phenol	ug/L	-/-	Grab	ANR	ANR	ANR
p-Nitroaniline	ug/L	-/-	Grab	ANR	ANR	ANR
Pyrene	ug/L	-/-	Grab	ANR	ANR	ANR
tert-Amyl Methyl Ether (TAME)	ug/L	-/-	Grab	ANR	ANR	ANR
Toxaphene	ug/L	0.0003/-	Grab	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	Grab	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	Grab	ANR	ANR	ANR

Arroyo Simi (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Sample Date March 8, 2013

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	2.70E-06	5.00E-05	3.70E-05	J (DNQ)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	1.50E-06	5.00E-05	ND	UJ (*III)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	2.40E-06	5.00E-05	ND	U	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	7.20E-07	5.00E-05	ND	U	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	9.00E-07	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	6.50E-07	5.00E-05	1.50E-06	J (DNQ)	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	8.00E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	6.10E-07	5.00E-05	ND	U	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	1.10E-06	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	9.70E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	7.00E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	8.10E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	7.70E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	5.80E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	5.20E-07	1.00E-05	ND	U	0.1	0.8	ND
OCDD	1.20E-05	1.00E-04	3.00E-04	--	0.0001	0.01	3.00E-10
OCDF	1.80E-06	1.00E-04	ND	U (B)	0.0001	0.02	ND

TCDD TEQ w/out DNQ Values	3.00E-10
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See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

ARROYO SIMI SEDIMENT (Frontier Park Receiving Water)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	2/11/2013		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Water Velocity	ft/sec	-/-	Meas	0.10	*
Ammonia as Nitrogen (N)	mg/Kg	-/-	Grab	4.37	J (DNQ)
Conductivity (Field)	ms/cm	-/-	Grab	9.7	*
Dissolved Oxygen	mg/L	-/-	Grab	10.40	*
pH (Field)	pH Units	-/-	Grab	7.9	*
Temperature	F	-/-	Grab	53	*
Total Organic Carbon	mg/L	-/-	Grab	ND < 1700	*
4,4'-DDD	ug/kg	14/-	Grab	ND < 1.5	U
4,4'-DDE	ug/kg	170/-	Grab	2.2	NJ (DNQ, *III)
4,4'-DDT	ug/kg	25/-	Grab	ND < 1.5	U
Aroclor 1016	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1221	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1232	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1242	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1248	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1254	ug/kg	25700/-	Grab	ND < 12	*
Aroclor 1260	ug/kg	25700/-	Grab	ND < 12	*
Chlordane	ug/kg	3.3/-	Grab	ND < 10	U
Dieldrin	ug/L	-/-	Grab	ND < 1.5	U
Toxaphene	ug/kg	230/-	Grab	ND < 50	U
Sediment toxicity	%	-/-	Grab	100	*
Bivalve Embryo toxicity	%	-/-	Grab	100	*
PARTICLE SIZE DISTRIBUTION					
Gravel	%	-/-	Grab	0	*
Coarse Sand	%	-/-	Grab	0	*
Medium Sand	%	-/-	Grab	18.47	*
Fine Sand	%	-/-	Grab	24.74	*
Silt/Clay	%	-/-	Grab	56.79	*

APPENDIX D

FIRST QUARTER 2013 RADIOLOGICAL MONITORING DATA

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Notes:

1. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 37 of the NPDES permit.
2. pH was determined with a field instrument and was noted as such. These results were not validated.
3. The NPDES monthly average permit limit for mercury of 0.05 µg/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 µg/L was used to determine compliance.
4. All of the following abbreviations and/or notes may not occur on every table.

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
\$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	initial and or continuing calibration recoveries were outside acceptable control limits
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit
*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
* II *III	Unusual problems found with the data that have been described in Section II, "sample management", or Section III, "method analysis". The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed over the reporting period (annual, semi-annual, etc.)
B	laboratory method blank contamination
BA	relative percent difference out of control
BEF	bioaccumulation equivalency factor
BU	analyzed out of holding time
BV	sample received after holding time expired
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less then the laboratory reporting limit)
E	duplicates show poor agreement
ft/sec	feet per second
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value, result lower than the detection limit
J, DX	estimated value, value < lowest standard (MQL), but > than MDL
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
LQ	LCS/LCSD recovery above method control limits
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDA	minimum detectable activity
MDL	method detection limit
MGD	million gallons per day

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
MPN/100 ml	most probable number per 100 milliliters
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU _c	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume
#	Per ORDER NO. R4-2010-0090 page 23 Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inches of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.

OUTFALL 009 (WS-13 Drainage)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	01/25/2013 (Comp)			03/08/2013 (Grab)		
			RESULT	MDA	VALIDATION QUALIFIER	RESULT	MDA	VALIDATION QUALIFIER
RADIOACTIVITY								
Gross Alpha	pCi/L	15/-	0.532 ± 0.24	0.28	J (DNQ)	0.672 ± 0.641	0.981	UJ (C)
Gross Beta	pCi/L	50/-	1.58 ± 0.60	0.945	J (E, DNQ)	0.900 ± 0.641	0.973	U
Strontium-90	pCi/L	8.0/-	0.174 ± 0.45	0.968	U	-0.0854 ± 0.182	0.342	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.18 ± 0.37	1.05	U	0.37 ± 0.28	0.58	U
Tritium	pCi/L	20000/-	3.66 ± 110	181	U	79.7 ± 73.8	108	U
Potassium-40	pCi/L	-/-	-9.21 ± 22	39.3	U	-31.6 ± 175	194	U
Uranium, Total	pCi/L	20/-	0.056 ± 0.009	0.014	J (DNQ)	0.0836 ± 0.1045	0.140	U
Cesium 137	pCi/L	200/-	0.44 ± 0.76	1.38	U	0.0224 ± 4.52	8.75	U

OUTFALL 019 (Treatment System)

**FIRST QUARTER 2013 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through March 31, 2013

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/15/2013 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER
RADIOACTIVITY					
Gross Alpha	pCi/L	15/-	1.29 ± 1.61	2.56	UJ (C)
Gross Beta	pCi/L	50/-	1.57 ± 1.19	1.81	U
Strontium-90	pCi/L	8.0/-	-0.155 ± 0.180	0.347	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.17 ± 0.22	0.51	U
Tritium	pCi/L	20000/-	44.1 ± 79.1	133	U
Potassium-40	pCi/L	-/-	-68.3 ± 474	185	U
Uranium, Total	pCi/L	20/-	0.0185 ± 0.1013	0.155	U
Cesium 137	pCi/L	200/-	-1.58 ± 6.97	12.4	U

APPENDIX E

FIRST QUARTER 2013 SUMMARY OF PERMIT LIMIT
EXCEEDANCES

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Notes:

1. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 37 of the NPDES permit.
2. pH was determined with a field instrument and was noted as such. These results were not validated.
3. The NPDES monthly average permit limit for mercury of 0.05 µg/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 µg/L was used to determine compliance.
4. All of the following abbreviations and/or notes may not occur on every table.

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
\$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	initial and or continuing calibration recoveries were outside acceptable control limits
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit
*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
* II *III	Unusual problems found with the data that have been described in Section II, "sample management", or Section III, "method analysis". The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed over the reporting period (annual, semi-annual, etc.)
B	laboratory method blank contamination
BA	relative percent difference out of control
BEF	bioaccumulation equivalency factor
BU	analyzed out of holding time
BV	sample received after holding time expired
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less then the laboratory reporting limit)
E	duplicates show poor agreement
ft/sec	feet per second
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value, result lower than the detection limit
J, DX	estimated value, value < lowest standard (MQL), but > than MDL
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
LQ	LCS/LCSD recovery above method control limits
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDA	minimum detectable activity
MDL	method detection limit
MGD	million gallons per day

**FIRST QUARTER 2013
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
MPN/100 ml	most probable number per 100 milliliters
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU _c	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume
#	Per ORDER NO. R4-2010-0090 page 23 Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inches of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.

SUMMARY OF PERMIT LIMIT EXCEEDANCES

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

DAILY MAX PERMIT LIMIT EXCEEDANCES - ARROYO SIMI						
LOCATION	SAMPLE DATE	ANALYTE	PERMIT LIMIT DAILY MAX	DAILY MAX RESULT	UNITS	RESULT CONCENTRATION VALIDATION QUALIFIER
Arroyo Simi Receiving Water - Frontier Park (RSW-002)	03/08/13	Fecal Coliform	400	>=1600	MPN/100mL	--
Arroyo Simi Receiving Water - Frontier Park (RSW-002)	03/08/13	E. Coli	235	>=1600	MPN/100mL	--

APPENDIX F

FIRST QUARTER 2013 REASONABLE POTENTIAL
ANALYSIS (RPA) SUMMARY TABLES

**FIRST QUARTER 2013
REASONABLE POTENTIAL ANALYSIS SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

1. The following Reasonable Potential Analysis (RPA) provides the analytical results as performed by the procedures outlined in *Reasonable Potential Analysis Methodology Technical Memo* (MWH and Flow Science, 2006).
2. The monitoring data set utilized to conduct the RPA consists of all applicable and relevant data from the present reporting quarter.
3. As directed by the CTR and the Regional Water Control Board 2,3,7,8-TCDD (Dioxin) values are to be expressed in NPDES permitting and this RPA as TCDD Total Equivalence units (TEQs). A TCDD TEQ is determined by multiplying each of the seventeen dioxin and furan congeners by their respective toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF), and summing the results of those products. For the purposes of this RPA, the resulting TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 37, of the NPDES Permit Effective June 3, 2010.
4. In calculating the average, standard deviation, coefficient of variation, and projected maximum effluent concentration (99/99), one-half of the MDL was used for concentration results reported as ND. Data reported with qualifiers were not included in this RPA as Boeing believes qualified data are not “appropriate, valid, relevant, (nor) representative”¹ of storm water constituents and are therefore not utilized in its RPA.
5. All of the following abbreviations and/or notes may not occur on every table.

Definition of Acronyms, Abbreviations, and Terminology Used

>=	Greater than or equal to
*	Freshwater aquatic life criteria for metals are expressed as a function of total hardness (mg/L) in the water body. The equations are provided in the CTR, (US EPA, 2000). Values displayed correspond to a total hardness of 100 mg/l.
µg/L	Concentration units, micrograms per liter
All Data Qualified	All available monitoring data are qualified and no statistical analysis is performed.
Annually	The 2010 NPDES Permit requires annual monitoring.
Available Data < DL	All available monitoring data that are not qualified are below detection limits.
B	Background
C	Concentration
CCC	Criterion Continuous Concentration
CMC	Criterion Maximum Concentration
CTR	California Toxics Rule
CV	Coefficient of Variation
DL	Detection Limit
EPA TSD	EPA's Technical Support Document for Water Quality Based Toxics Control, (see references).

¹ SIP, p. 5.

**FIRST QUARTER 2013
REASONABLE POTENTIAL ANALYSIS SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Definition of Acronyms, Abbreviations, and Terminology Used (Continued)

Fibers/L	Units for asbestos concentration, fibers per liter
HH O	Human Health criteria for consumption of Organisms only
HH W&O	Human Health criteria for consumption of Water and Organisms
MEC	Maximum Observed Effluent Concentration
Min	Minimum
NA	Not Applicable
Narrative	Water quality criteria are expressed as a narrative objective rather than a numeric objective, and therefore are not part of the statistical RPA calculations.
None	No available CTR or Basin Plan criteria.
pH Dependent	CTR Criteria are based on pH.
Once Per Discharge	The 2010 NPDES Permit requires monitoring once per discharge event.
Qualified Data	Data qualifier definitions are: (a) J- The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit (EDL), (b) U/UJ- The analyte was not detected in the sample at the detection limit /estimated detection limit (EDL), (c) B- Analyte found in sample and associated blank, and (d) DNQ- Detected Not Quantified.
Reserved	EPA has reserved the CTR criteria.
RPA	Reasonable Potential Analysis
SIP	The State Water Resources Control Board "Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California," (see references).
Tot	Total

Priority Pollutant RPA Column Explanation

CTR	Provides CTR constituent reference number.
Constituent	Provides CTR constituent common name.
Units	Provides the data set's concentration units as referenced by 2010 NPDES Permit.
MEC	Provides the outfall monitoring group's maximum value from the applicable data set.
CV	Equal to the standard deviation divided by the average of the applicable data set. If the number of samples is less than 10, the CV is assumed to be 0.6.
<i>Step 1 identifies all applicable water quality criteria.</i>	
CTR Criteria	Concentration criteria as listed in the CTR.
CMC = Acute	The Freshwater CMC is listed as the acute concentration criterion.
CCC = Chronic	The Freshwater CCC is listed as the chronic concentration criterion.
HH W& O(Not App)	The HH W&O is deemed not applicable based on past Regional Board RPAs.
HH O = HH	The HH O is listed as the CTR human health concentration criterion.
Basin Plan Criteria	Applicable Basin Plan Criteria are listed for the Los Angeles River and/or Calleguas Creek watersheds.

**FIRST QUARTER 2013
REASONABLE POTENTIAL ANALYSIS SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

C = Lowest Criteria	The comparison concentration (C) is equal to the lowest criterion for a constituent based on the CMC, CCC, HH O, and Basin Plan Criteria listed.
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Priority Pollutant RPA Column Explanation (Continued)

<i>Step 2 defines the applicable data set.</i>	
Is Effluent Data Available	If there is available monitoring data that is not qualified and above DL, then YES. If not, then NO.
<i>Step 3 determines the maximum observed effluent concentration.</i>	
Was Constituent Detected in Effluent Data	If the constituent was detected, then YES. If all monitoring data are non-detect or qualified then NO.
Are all DL >C	If constituent was detected in effluent data then not applicable (NA). If constituent was not detected and all analysis detection limits are less than the comparison concentration, then YES, if not then NO.
If DL > C MEC = Min (DL)	If the previous cell answer was yes, then the MEC is equal to the minimum detection limit. If not, then NA.
<i>Step 4 compares the MEC to the lowest applicable water quality criteria.</i>	
MEC >= C	If the MEC is greater than or equal to the comparison concentration then YES, if not then NO.

Note: Steps 5 and 6 of the Priority Pollutant RPA do not apply to Boeing SSFL because the Regional Board gives no consideration for receiving water background constituent concentrations. Furthermore, Boeing SSFL defers the application of best professional judgment in Step 7 and final determination of reasonable potential in Step 8 to the Regional Board Staff.

Nonpriority Pollutant RPA Column Explanation

Constituent	Provides the Non Priority Pollutant constituent common name
Monitoring	Provides the 2010 NPDES Permit directed monitoring frequency
Units	Provides the data set's concentration units as referenced by 2009 NPDES Permit
Number of Samples	Provides the number of available samples that are not qualified
MEC	Provides the outfall monitoring group's maximum value from the applicable data set
CV	Equal to the standard deviation divided by the average of the applicable data set. If the number of samples is less than 10, the CV is assumed to be 0.6.
Multiplier	Utilizes the EPA's TSD calculation to determine multiplier for which the maximum effluent concentration is calculated. (MWH and Flow Science, 2006, or EPA TSD, 1991)
Projected Maximum Effluent Concentration	Utilizes the product of the multiplier and the MEC as an estimate for the projected maximum effluent concentration.
Dilution Ratio	The Regional Board allocates no dilution ratio to Boeing SSFL.
Background Concentration	The Regional Board allocates no background concentration to Boeing SSFL.
Projected Maximum Receiving Water Concentration	The Regional Board estimates the projected maximum receiving water concentration as equal to the projected maximum effluent concentration.

**FIRST QUARTER 2013
 REASONABLE POTENTIAL ANALYSIS SUMMARY
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309**

Nonpriority Pollutant RPA Column Explanation (Continued)

Step 1, Determine Water Quality Objectives	The water quality objective is based on appropriate Basin Plan criteria.
BU – Beneficial Use Protection, NC – Human noncarcinogen, AP- Aquatic Life Protection, TMDL – Total Maximum Daily Load	This is the Regional Board’s Basis for determining if reasonable potential should be evaluated for a non-priority pollutant.

Note: Boeing SSFL has completed appropriate statistical calculations, but defers the application of best professional judgment and the final determination of reasonable potential to the Regional Board Staff.

References

Los Angeles Regional Water Quality Control Board, “Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties, (Basin Plan).” June 13, 1994.

MWH and Flow Science, “Reasonable Potential Analysis Methodology Technical Memo- Version 1, Final, Santa Susan Field Laboratory, Ventura County, California.” April 28, 2006.

State Water Resources Control Board, “Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, (SIP)” Resolution No. 2005-0019, February 24, 2005.

US EPA, *40CFR part 131, Water Quality Standards; Establishment of numeric Criteria for Priority Toxic Pollutants for the State of California*,(CTR) Federal Registry, May 18, 2000, pp. 31682-31719.

US EPA, “Technical Support Document for Water Quality-based Toxics Control.” EPA/505/2-90-001, PB-91-127415, March 1991.

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALL 019)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4		
						CTR CRITERIA						Basin Plan	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health		Title 22 GWR								
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
19	001	Antimony	ug/L	All Data Qualified	0.6	NONE	NONE	14	4300	6	6	No	No	No	NA	No		
19	002	Arsenic	ug/L	All Data Qualified	0.6	340	150	NONE	NONE	10	50	No	No	No	NA	No		
19	003	Beryllium	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No		
19	004	Cadmium	ug/L	All Data Qualified	0.6		2.46	Narrative	Narrative	5	2.46	No	No	No	NA	No		
19	005a	Chromium	ug/L	All Data Qualified	0.6		206	Narrative	Narrative		207	No	No	No	NA	No		
19	005b	Chromium VI	ug/L	1.1	0.6	16.3	11.4	Narrative	Narrative	50	11.43	Yes	Yes	NA	NA	No		
19	006	Copper	ug/L	All Data Qualified	0.6		9.3	1300	NONE		9.33	No	No	No	NA	No		
19	007	Lead	ug/L	All Data Qualified	0.6		3.18	Narrative	Narrative		3.18	No	No	No	NA	No		
19	008	Mercury	ug/L	All Data Qualified	0.6	Reserved	Reserved	0.05	0.051	2	0.051	No	No	No	NA	No		
19	009	Nickel	ug/L	All Data Qualified	0.6		52	610	4600	100	52	No	No	No	NA	No		
19	010	Selenium	ug/L	All Data Qualified	0.6	Reserved	5	Narrative	Narrative	50	5	No	No	No	NA	No		
19	011	Silver	ug/L	All Data Qualified	0.6	4.06	none	NONE	NONE		4.06	No	No	No	NA	No		
19	012	Thallium	ug/L	All Data Qualified	0.6	NONE	NONE	1.7	6.3	2	2	No	No	No	NA	No		
19	013	Zinc	ug/L	All Data Qualified	0.6	120	120	none	NONE		120	No	No	No	NA	No		
19	014	Total Cyanide	ug/L	All Data Qualified	0.6	22	5.2	700	220000	200	5.2	No	No	No	NA	No		
19	015	Asbestos	Fibers/L	All Data Qualified	0.6	NONE	NONE	7000000	NONE	7000000	700000	No	No	No	NA	No		
19	016	TCDD TEQ_NoDNQ	ug/L	Available Data <DL	0.6	NONE	NONE	1.30E-08	1.40E-08	3.00E-05	1.40E-08	Yes	No	No	NA	No		
19	017	Acrolein	ug/L	All Data Qualified	0.6	NONE	NONE	320	780		780	No	No	No	NA	No		
19	018	Acrylonitrile	ug/L	All Data Qualified	0.6	NONE	NONE	0.059	0.66		0.66	No	No	No	NA	No		
19	019	Benzene	ug/L	All Data Qualified	0.6	NONE	NONE	1.2	71	1	1	No	No	No	NA	No		
19	020	Bromoform	ug/L	All Data Qualified	0.6	NONE	NONE	4.3	360		360	No	No	No	NA	No		
19	021	Carbon Tetrachloride	ug/L	All Data Qualified	0.6	NONE	NONE	0.25	4.4	600	4.4	No	No	No	NA	No		
19	022	Chlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	680	21000		21000	No	No	No	NA	No		
19	023	Dibromochloromethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.401	34		34	No	No	No	NA	No		
19	024	Chloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	025	2-Chloroethylvinylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	026	Chloroform	ug/L	All Data Qualified	0.6	NONE	NONE	Reserved	Reserved		NONE	No	No	No	NA	No		
19	027	Bromodichloromethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.56	46		46	No	No	No	NA	No		
19	028	1,1-Dichloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE	5	5	No	No	No	NA	No		
19	029	1,2-Dichloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.38	99	0.5	0.5	No	No	No	NA	No		
19	030	1,1-Dichloroethene	ug/L	All Data Qualified	0.6	NONE	NONE	0.057	3.2	6	3.2	No	No	No	NA	No		
19	031	1,2-Dichloropropane	ug/L	All Data Qualified	0.6	NONE	NONE	0.52	39	5	5	No	No	No	NA	No		
19	032	cis-1,3-Dichloropropene	ug/L	All Data Qualified	0.6	NONE	NONE	10	1700	0.5	0.5	No	No	No	NA	No		
19	032a	trans-1,3-Dichloropropene	ug/L	All Data Qualified	0.6	NONE	NONE	10	1700	0.5	0.5	No	No	No	NA	No		
19	033	Ethylbenzene	ug/L	All Data Qualified	0.6	NONE	NONE	3100	29000	0.7	0.7	No	No	No	NA	No		
19	034	Bromomethane	ug/L	All Data Qualified	0.6	NONE	NONE	48	4000		4000	No	No	No	NA	No		
19	035	Chloromethane	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative		NONE	No	No	No	NA	No		
19	036	Methylene chloride	ug/L	All Data Qualified	0.6	NONE	NONE	4.7	1600		1600	No	No	No	NA	No		
19	037	1,1,2,2-Tetrachloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.17	11	1	1	No	No	No	NA	No		
19	038	Tetrachloroethene	ug/L	All Data Qualified	0.6	NONE	NONE	0.8	8.85	5	5	No	No	No	NA	No		
19	039	Toluene	ug/L	All Data Qualified	0.6	NONE	NONE	6800	200000	150	150	No	No	No	NA	No		
19	040	trans-1,2-Dichloroethene	ug/L	All Data Qualified	0.6	NONE	NONE	700	140000	10	10	No	No	No	NA	No		
19	041	1,1,1-Trichloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative	200	200	No	No	No	NA	No		
19	042	1,1,2-trichloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.6	42	5	5	No	No	No	NA	No		
19	043	Trichloroethene	ug/L	All Data Qualified	0.6	NONE	NONE	2.7	81	5	5	No	No	No	NA	No		
19	044	Vinyl chloride	ug/L	All Data Qualified	0.6	NONE	NONE	2	525	0.5	0.5	No	No	No	NA	No		
19	045	2-chlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	120	400		400	No	No	No	NA	No		
19	046	2,4-Dichlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	93	790		790	No	No	No	NA	No		

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALL 019)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4			
						CTR CRITERIA				Basin Plan		C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data		Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health										
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
19	047	2,4-dimethylphenol	ug/L	All Data Qualified	0.6	NONE	NONE	540	2300		2300	No	No	No	NA	No		
19	048	2-Methyl-4,6-dinitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	13.4	765		765	No	No	No	NA	No		
19	049	2,4-dinitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	70	14000		14000	No	No	No	NA	No		
19	050	2-nitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	051	4-nitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	052	4-Chloro-3-methylphenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	053	Pentachlorophenol	ug/L	All Data Qualified	0.6	pH dependent	pH dependent	0.28	8.2	1	1	No	No	No	NA	No		
19	054	Phenol	ug/L	All Data Qualified	0.6	NONE	NONE	21000	4600000		4600000	No	No	No	NA	No		
19	055	2,4,6-Trichlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	2.1	6.5		6.5	No	No	No	NA	No		
19	056	Acenaphthene	ug/L	All Data Qualified	0.6	NONE	NONE	1200	2700		2700	No	No	No	NA	No		
19	057	Acenaphthylene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	058	Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	9600	110000		110000	No	No	No	NA	No		
19	059	Benzidine	ug/L	All Data Qualified	0.6	NONE	NONE	0.00012	0.00054		0.00054	No	No	No	NA	No		
19	060	Benzo(a)Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	061	Benzo(a)Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	062	Benzo(b)Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	063	Benzo(g,h,i)Perylene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	064	Benzo(k)Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	065	Bis(2-Chloroethoxy) methane	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	066	bis (2-Chloroethyl) ether	ug/L	All Data Qualified	0.6	NONE	NONE	0.031	1.4		1.4	No	No	No	NA	No		
19	067	Bis(2-Chloroisopropyl) Ether	ug/L	All Data Qualified	0.6	NONE	NONE	1400	170000		170000	No	No	No	NA	No		
19	068	bis (2-ethylhexyl) Phthalate	ug/L	All Data Qualified	0.6	NONE	NONE	1.8	5.9	4	4	No	No	No	NA	No		
19	069	4-Bromophenylphenylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	070	Butylbenzylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	3000	5200		5200	No	No	No	NA	No		
19	071	2-Chloronaphthalene	ug/L	All Data Qualified	0.6	NONE	NONE	1700	4300		4300	No	No	No	NA	No		
19	072	4-Chlorophenylphenylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	073	Chrysene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	074	Dibenzo(a,h)Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	075	1,2-Dichlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	2700	17000	600	600	No	No	No	NA	No		
19	076	1,3-Dichlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	400	2600		2600	No	No	No	NA	No		
19	077	1,4-Dichlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	400	2600	5	5	No	No	No	NA	No		
19	078	3,3'-Dichlorobenzidine	ug/L	All Data Qualified	0.6	NONE	NONE	0.04	0.077		0.077	No	No	No	NA	No		
19	079	Diethylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	23000	120000		120000	No	No	No	NA	No		
19	080	Dimethylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	313000	2900000		2900000	No	No	No	NA	No		
19	081	Di-n-butylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	2700	12000		12000	No	No	No	NA	No		
19	082	2,4-Dinitrotoluene	ug/L	All Data Qualified	0.6	NONE	NONE	0.11	9.1		9.1	No	No	No	NA	No		
19	083	2,6-Dinitrotoluene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	084	Di-n-octylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	085	1,2-Diphenylhydrazine	ug/L	All Data Qualified	0.6	NONE	NONE	0.04	0.54		0.54	No	No	No	NA	No		
19	086	Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	300	370		370	No	No	No	NA	No		
19	087	Fluorene	ug/L	All Data Qualified	0.6	NONE	NONE	1300	14000		14000	No	No	No	NA	No		

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALL 019)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4			
						CTR CRITERIA				Basin Plan		C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data		Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health										
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
19	088	Hexachlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	0.00075	0.00077		0.00077	No	No	No	NA	No		
19	089	Hexachlorobutadiene	ug/L	All Data Qualified	0.6	NONE	NONE	0.44	50		50	No	No	No	NA	No		
19	090	Hexachlorocyclopentadiene	ug/L	All Data Qualified	0.6	NONE	NONE	240	17000		17000	No	No	No	NA	No		
19	091	Hexachloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	1.9	8.9		8.9	No	No	No	NA	No		
19	092	Indeno(1,2,3-cd)Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No		
19	093	Isophorone	ug/L	All Data Qualified	0.6	NONE	NONE	8.4	600		600	No	No	No	NA	No		
19	094	Naphthalene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	095	Nitrobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	17	1900		1900	No	No	No	NA	No		
19	096	N-Nitrosodimethylamine	ug/L	All Data Qualified	0.6	NONE	NONE	0.00069	8.1		8.1	No	No	No	NA	No		
19	097	n-Nitroso-di-n-propylamine	ug/L	All Data Qualified	0.6	NONE	NONE	0.005	1.4		1.4	No	No	No	NA	No		
19	098	N-Nitrosodiphenylamine	ug/L	All Data Qualified	0.6	NONE	NONE	5	16		16	No	No	No	NA	No		
19	099	Phenanthrene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	100	Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	960	11000		11000	No	No	No	NA	No		
19	101	1,2,4-Trichlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	102	Aldrin	ug/L	All Data Qualified	0.6	3	NONE	0.00013	0.00014		0.00014	No	No	No	NA	No		
19	103	alpha-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.0039	0.013		0.013	No	No	No	NA	No		
19	104	beta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.014	0.046		0.046	No	No	No	NA	No		
19	105	Lindane (gamma-BHC)	ug/L	All Data Qualified	0.6	0.95	NONE	0.019	0.063	0.2	0.063	No	No	No	NA	No		
19	106	delta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No		
19	107	Chlordane	ug/L	All Data Qualified	0.6	2.4	0.0043	0.00057	0.00059		0.00059	No	No	No	NA	No		
19	108	4,4'-DDT	ug/L	All Data Qualified	0.6	1.1	0.001	0.00059	0.00059		0.00059	No	No	No	NA	No		
19	109	4,4'-DDE	ug/L	All Data Qualified	0.6	NONE	NONE	0.00059	0.00059		0.00059	No	No	No	NA	No		
19	110	4,4'-DDD	ug/L	All Data Qualified	0.6	NONE	NONE	0.00083	0.00084		0.00084	No	No	No	NA	No		
19	111	Dieldrin	ug/L	All Data Qualified	0.6	0.24	0.056	0.00014	0.00014		0.00014	No	No	No	NA	No		
19	112	Endosulfan I	ug/L	All Data Qualified	0.6	0.22	0.056	110	240		0.056	No	No	No	NA	No		
19	113	Endosulfan II	ug/L	All Data Qualified	0.6	0.22	0.056	110	240		0.056	No	No	No	NA	No		
19	114	Endosulfan Sulfate	ug/L	All Data Qualified	0.6	NONE	NONE	110	240		240	No	No	No	NA	No		
19	115	Endrin	ug/L	All Data Qualified	0.6	0.086	0.036	0.76	0.81		0.036	No	No	No	NA	No		
19	116	Endrin Aldehyde	ug/L	All Data Qualified	0.6	NONE	NONE	0.76	0.81		0.81	No	No	No	NA	No		
19	117	Heptachlor	ug/L	All Data Qualified	0.6	0.52	0.0038	0.00021	0.00021		0.00021	No	No	No	NA	No		
19	118	Heptachlor Epoxide	ug/L	All Data Qualified	0.6	0.52	0.0038	0.0001	0.00011		0.00011	No	No	No	NA	No		
19	119	Aroclor-1016	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	120	Aroclor-1221	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	121	Aroclor-1232	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	122	Aroclor-1242	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	123	Aroclor-1248	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	124	Aroclor-1254	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	125	Aroclor-1260	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No		
19	126	Toxaphene	ug/L	All Data Qualified	0.6	0.73	0.0002	0.0073	0.00075		0.0002	No	No	No	NA	No		
19	127	E. Coli	MPN/100 ml	All Data Qualified	0.6	NA	NA	NA	NA	235	MPN/100 ml	No	No	No	NA	No		

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003-007, 009 and 010)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4
						CTR CRITERIA				Basin Plan	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
Outfall	CTR	Constituent	Units	MEC	CV	Freshwater	Human Health		Title 22 GWR							
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
3_7,9-10	001	Antimony	ug/L	0.79	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	No
3_7,9-10	002	Arsenic	ug/L	All Data Qualified	0.6	340	150	NONE	NONE	10	50	No	No	No	NA	No
3_7,9-10	003	Beryllium	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No
3_7,9-10	004	Cadmium	ug/L	0.43	0.6		2.462013793	Narrative	Narrative	5	2.46	Yes	Yes	NA	NA	No
3_7,9-10	005a	Chromium	ug/L	All Data Qualified	0.6		206	Narrative	Narrative		207	No	No	No	NA	No
3_7,9-10	005b	Chromium VI	ug/L	Available Data <DL	0.6	16.3	11.4	Narrative	Narrative	50	11.43	Yes	No	No	NA	No
3_7,9-10	006	Copper	ug/L	8	0.6		9.3	1300	NONE		9.33	Yes	Yes	NA	NA	No
3_7,9-10	007	Lead	ug/L	1.7	0.6		3.18	Narrative	Narrative		3.18	Yes	Yes	NA	NA	No
3_7,9-10	008	Mercury	ug/L	All Data Qualified	0.6	Reserved	Reserved	0.05	0.051	2	0.051	No	No	No	NA	No
3_7,9-10	009	Nickel	ug/L	All Data Qualified	0.6		52	610	4600	100	52	No	No	No	NA	No
3_7,9-10	010	Selenium	ug/L	Available Data <DL	0.6	Reserved	5	Narrative	Narrative	50	5	Yes	No	No	NA	No
3_7,9-10	011	Silver	ug/L	All Data Qualified	0.6		none	NONE	NONE		4.06	No	No	No	NA	No
3_7,9-10	012	Thallium	ug/L	0.43	0.6	NONE	NONE	1.7	6.3	2	2	Yes	Yes	NA	NA	No
3_7,9-10	013	Zinc	ug/L	All Data Qualified	0.6		119.8	none	NONE		120	No	No	No	NA	No
3_7,9-10	014	Total Cyanide	ug/L	Available Data <DL	0.6	22	5.2	700	220000	200	5.2	Yes	No	No	NA	No
3_7,9-10	015	Asbestos	Fibers/L	Available Data <DL	0.6	NONE	NONE	7000000	NONE	7000000	700000	Yes	No	No	NA	No
3_7,9-10	016	TCDD TEQ_NoDNQ	ug/L	2.50E-10	0.6	NONE	NONE	1.30E-08	1.40E-08	3.00E-05	1.40E-08	Yes	Yes	NA	NA	No
3_7,9-10	017	Acrolein	ug/L	Available Data <DL	0.6	NONE	NONE	320	780		780	Yes	No	No	NA	No
3_7,9-10	018	Acrylonitrile	ug/L	Available Data <DL	0.6	NONE	NONE	0.059	0.66		0.66	Yes	No	Yes	0.66	No
3_7,9-10	019	Benzene	ug/L	Available Data <DL	0.6	NONE	NONE	1.2	71	1	1	Yes	No	No	NA	No
3_7,9-10	020	Bromoform	ug/L	Available Data <DL	0.6	NONE	NONE	4.3	360		360	Yes	No	No	NA	No
3_7,9-10	021	Carbon Tetrachloride	ug/L	Available Data <DL	0.6	NONE	NONE	0.25	4.4	600	4.4	Yes	No	No	NA	No
3_7,9-10	022	Chlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	680	21000		21000	Yes	No	No	NA	No
3_7,9-10	023	Dibromochloromethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.401	34		34	Yes	No	No	NA	No
3_7,9-10	024	Chloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE		NONE	Yes	No	No	NA	No
3_7,9-10	025	2-Chloroethylvinylether	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE		NONE	Yes	No	No	NA	No
3_7,9-10	026	Chloroform	ug/L	Available Data <DL	0.6	NONE	NONE	Reserved	Reserved		NONE	Yes	No	No	NA	No
3_7,9-10	027	Bromodichloromethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.56	46		46	Yes	No	No	NA	No
3_7,9-10	028	1,1-Dichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	5	5	Yes	No	No	NA	No
3_7,9-10	029	1,2-Dichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.38	99	0.5	0.5	Yes	No	No	NA	No
3_7,9-10	030	1,1-Dichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	0.057	3.2	6	3.2	Yes	No	No	NA	No
3_7,9-10	031	1,2-Dichloropropane	ug/L	Available Data <DL	0.6	NONE	NONE	0.52	39	5	5	Yes	No	No	NA	No
3_7,9-10	032	cis-1,3-Dichloropropene	ug/L	Available Data <DL	0.6	NONE	NONE	10	1700	0.5	0.5	Yes	No	No	NA	No
3_7,9-10	032a	trans-1,3-Dichloropropene	ug/L	Available Data <DL	0.6	NONE	NONE	10	1700	0.5	0.5	Yes	No	No	NA	No
3_7,9-10	033	Ethylbenzene	ug/L	Available Data <DL	0.6	NONE	NONE	3100	29000	0.7	0.7	Yes	No	No	NA	No
3_7,9-10	034	Bromomethane	ug/L	Available Data <DL	0.6	NONE	NONE	48	4000		4000	Yes	No	No	NA	No
3_7,9-10	035	Chloromethane	ug/L	Available Data <DL	0.6	NONE	NONE	Narrative	Narrative		NONE	Yes	No	No	NA	No
3_7,9-10	036	Methylene chloride	ug/L	Available Data <DL	0.6	NONE	NONE	4.7	1600		1600	Yes	No	No	NA	No
3_7,9-10	037	1,1,2,2-Tetrachloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.17	11	1	1	Yes	No	No	NA	No
3_7,9-10	038	Tetrachloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	0.8	8.85	5	5	Yes	No	No	NA	No
3_7,9-10	039	Toluene	ug/L	Available Data <DL	0.6	NONE	NONE	6800	200000	150	150	Yes	No	No	NA	No
3_7,9-10	040	trans-1,2-Dichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	700	140000	10	10	Yes	No	No	NA	No
3_7,9-10	041	1,1,1-Trichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	Narrative	Narrative	200	200	Yes	No	No	NA	No
3_7,9-10	042	1,1,2-trichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.6	42	5	5	Yes	No	No	NA	No
3_7,9-10	043	Trichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	2.7	81	5	5	Yes	No	No	NA	No
3_7,9-10	044	Vinyl chloride	ug/L	Available Data <DL	0.6	NONE	NONE	2	525	0.5	0.5	Yes	No	No	NA	No
3_7,9-10	045	2-chlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	120	400		400	No	No	No	NA	No
3_7,9-10	046	2,4-Dichlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	93	790		790	No	No	No	NA	No

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003-007, 009 and 010)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4	
						CTR CRITERIA				Basin Plan	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
Outfall	CTR	Constituent	Units	MEC	CV	Freshwater	Human Health		Title 22 GWR							
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
3_7,9-10	047	2,4-dimethylphenol	ug/L	All Data Qualified	0.6	NONE	NONE	540	2300		2300	No	No	No	NA	No
3_7,9-10	048	2-Methyl-4,6-dinitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	13.4	765		765	No	No	No	NA	No
3_7,9-10	049	2,4-dinitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	70	14000		14000	No	No	No	NA	No
3_7,9-10	050	2-nitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	051	4-nitrophenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	052	4-Chloro-3-methylphenol	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	053	Pentachlorophenol	ug/L	All Data Qualified	0.6	pH dependent	pH dependent	0.28	8.2	1	1	No	No	No	NA	No
3_7,9-10	054	Phenol	ug/L	All Data Qualified	0.6	NONE	NONE	21000	4600000		4600000	No	No	No	NA	No
3_7,9-10	055	2,4,6-Trichlorophenol	ug/L	All Data Qualified	0.6	NONE	NONE	2.1	6.5		6.5	No	No	No	NA	No
3_7,9-10	056	Acenaphthene	ug/L	All Data Qualified	0.6	NONE	NONE	1200	2700		2700	No	No	No	NA	No
3_7,9-10	057	Acenaphthylene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	058	Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	9600	110000		110000	No	No	No	NA	No
3_7,9-10	059	Benzenidine	ug/L	All Data Qualified	0.6	NONE	NONE	0.00012	0.00054		0.00054	No	No	No	NA	No
3_7,9-10	060	Benzo(a)Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	061	Benzo(a)Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	062	Benzo(b)Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	063	Benzo(g,h,i)Perylene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	064	Benzo(k)Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	065	Bis(2-Chloroethoxy) methane	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	066	bis (2-Chloroethyl) ether	ug/L	All Data Qualified	0.6	NONE	NONE	0.031	1.4		1.4	No	No	No	NA	No
3_7,9-10	067	Bis(2-Chloroisopropyl) Ether	ug/L	All Data Qualified	0.6	NONE	NONE	1400	170000		170000	No	No	No	NA	No
3_7,9-10	068	bis (2-ethylhexyl) Phthalate	ug/L	All Data Qualified	0.6	NONE	NONE	1.8	5.9	4	4	No	No	No	NA	No
3_7,9-10	069	4-Bromophenylphenylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	070	Butylbenzylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	3000	5200		5200	No	No	No	NA	No
3_7,9-10	071	2-Chloronaphthalene	ug/L	All Data Qualified	0.6	NONE	NONE	1700	4300		4300	No	No	No	NA	No
3_7,9-10	072	4-Chlorophenylphenylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	073	Chrysene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	074	Dibenzo(a,h)Anthracene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	075	1,2-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	2700	17000	600	600	Yes	No	No	NA	No
3_7,9-10	076	1,3-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	400	2600		2600	Yes	No	No	NA	No
3_7,9-10	077	1,4-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	400	2600	5	5	Yes	No	No	NA	No
3_7,9-10	078	3,3'-Dichlorobenzidine	ug/L	All Data Qualified	0.6	NONE	NONE	0.04	0.077		0.077	No	No	No	NA	No
3_7,9-10	079	Diethylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	23000	120000		120000	No	No	No	NA	No
3_7,9-10	080	Dimethylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	313000	2900000		2900000	No	No	No	NA	No
3_7,9-10	081	Di-n-butylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	2700	12000		12000	No	No	No	NA	No
3_7,9-10	082	2,4-Dinitrotoluene	ug/L	All Data Qualified	0.6	NONE	NONE	0.11	9.1		9.1	No	No	No	NA	No
3_7,9-10	083	2,6-Dinitrotoluene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	084	Di-n-octylphthalate	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	085	1,2-Diphenylhydrazine	ug/L	All Data Qualified	0.6	NONE	NONE	0.04	0.54		0.54	No	No	No	NA	No
3_7,9-10	086	Fluoranthene	ug/L	All Data Qualified	0.6	NONE	NONE	300	370		370	No	No	No	NA	No
3_7,9-10	087	Fluorene	ug/L	All Data Qualified	0.6	NONE	NONE	1300	14000		14000	No	No	No	NA	No
3_7,9-10	088	Hexachlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	0.00075	0.00077		0.00077	No	No	No	NA	No
3_7,9-10	089	Hexachlorobutadiene	ug/L	All Data Qualified	0.6	NONE	NONE	0.44	50		50	No	No	No	NA	No
3_7,9-10	090	Hexachlorocyclopentadiene	ug/L	All Data Qualified	0.6	NONE	NONE	240	17000		17000	No	No	No	NA	No
3_7,9-10	091	Hexachloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	1.9	8.9		8.9	No	No	No	NA	No
3_7,9-10	092	Indeno(1,2,3-cd)Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	0.0044	0.049		0.049	No	No	No	NA	No
3_7,9-10	093	Isophorone	ug/L	All Data Qualified	0.6	NONE	NONE	8.4	600		600	No	No	No	NA	No
3_7,9-10	094	Naphthalene	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE		NONE	Yes	No	No	NA	No

**Table F1
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS, (OUTFALLS 003-007, 009 and 010)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4	
						CTR CRITERIA				Basin Plan	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
Outfall	CTR	Constituent	Units	MEC	CV	Freshwater	Human Health		Title 22 GWR							
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
3_7,9-10	095	Nitrobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	17	1900		1900	No	No	No	NA	No
3_7,9-10	096	N-Nitrosodimethylamine	ug/L	All Data Qualified	0.6	NONE	NONE	0.00069	8.1		8.1	No	No	No	NA	No
3_7,9-10	097	n-Nitroso-di-n-propylamine	ug/L	All Data Qualified	0.6	NONE	NONE	0.005	1.4		1.4	No	No	No	NA	No
3_7,9-10	098	N-Nitrosodiphenylamine	ug/L	All Data Qualified	0.6	NONE	NONE	5	16		16	No	No	No	NA	No
3_7,9-10	099	Phenanthrene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	100	Pyrene	ug/L	All Data Qualified	0.6	NONE	NONE	960	11000		11000	No	No	No	NA	No
3_7,9-10	101	1,2,4-Trichlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE		NONE	No	No	No	NA	No
3_7,9-10	102	Aldrin	ug/L	Available Data <DL	0.6	3	NONE	0.00013	0.00014		0.00014	Yes	No	Yes	0.00014	No
3_7,9-10	103	alpha-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	0.0039	0.013		0.013	Yes	No	No	NA	No
3_7,9-10	104	beta-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	0.014	0.046		0.046	Yes	No	No	NA	No
3_7,9-10	105	Lindane (gamma-BHC)	ug/L	Available Data <DL	0.6	0.95	NONE	0.019	0.063	0.2	0.063	Yes	No	No	NA	No
3_7,9-10	106	delta-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE		NONE	Yes	No	No	NA	No
3_7,9-10	107	Chlordane	ug/L	Available Data <DL	0.6	2.4	0.0043	0.00057	0.00059		0.00059	Yes	No	Yes	0.00059	No
3_7,9-10	108	4,4'-DDT	ug/L	Available Data <DL	0.6	1.1	0.001	0.00059	0.00059		0.00059	Yes	No	Yes	0.00059	No
3_7,9-10	109	4,4'-DDE	ug/L	Available Data <DL	0.6	NONE	NONE	0.00059	0.00059		0.00059	Yes	No	Yes	0.00059	No
3_7,9-10	110	4,4'-DDD	ug/L	Available Data <DL	0.6	NONE	NONE	0.00083	0.00084		0.00084	Yes	No	Yes	0.00084	No
3_7,9-10	111	Dieldrin	ug/L	Available Data <DL	0.6	0.24	0.056	0.00014	0.00014		0.00014	Yes	No	Yes	0.00014	No
3_7,9-10	112	Endosulfan I	ug/L	Available Data <DL	0.6	0.22	0.056	110	240		0.056	Yes	No	No	NA	No
3_7,9-10	113	Endosulfan II	ug/L	Available Data <DL	0.6	0.22	0.056	110	240		0.056	Yes	No	No	NA	No
3_7,9-10	114	Endosulfan Sulfate	ug/L	Available Data <DL	0.6	NONE	NONE	110	240		240	Yes	No	No	NA	No
3_7,9-10	115	Endrin	ug/L	Available Data <DL	0.6	0.086	0.036	0.76	0.81		0.036	Yes	No	No	NA	No
3_7,9-10	116	Endrin Aldehyde	ug/L	Available Data <DL	0.6	NONE	NONE	0.76	0.81		0.81	Yes	No	No	NA	No
3_7,9-10	117	Heptachlor	ug/L	Available Data <DL	0.6	0.52	0.0038	0.00021	0.00021		0.00021	Yes	No	Yes	0.00021	No
3_7,9-10	118	Heptachlor Epoxide	ug/L	Available Data <DL	0.6	0.52	0.0038	0.0001	0.00011		0.00011	Yes	No	Yes	0.00011	No
3_7,9-10	119	Aroclor-1016	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	120	Aroclor-1221	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	121	Aroclor-1232	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	122	Aroclor-1242	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	123	Aroclor-1248	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	124	Aroclor-1254	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	125	Aroclor-1260	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017		0.00017	No	No	No	NA	No
3_7,9-10	126	Toxaphene	ug/L	Available Data <DL	0.6	0.73	0.0002	0.00073	0.00075		0.0002	Yes	No	Yes	0.0002	No
3_7,9-10	127	E. Coli	MPN/100 ml	23	0.6	NA	NA	NA	NA	235	235	Yes	Yes	NA	NA	No

**Table F2
REASONABLE POTENTIAL ANALYSIS FOR SECONDARY POLLUTANTS, (OUTFALL 019)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Outfall	Constituent	Monitoring	Units	Number of Samples	MEC	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Concentration	Projected Maximum Receiving Water Concentration	Step 1, Determine Water Quality Objectives	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection
19	Barium	Annual	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	1000	BU
19	Biochemical Oxygen Demand (BOD 5 day)	Discharge	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	20	BU
19	Chloride	Discharge	mg/L	1	120	0.6	13.2	1583.6	0	0	1583.63	150	BU
19	Fluoride	Discharge	mg/L	1	0.31	0.6	13.2	4.1	0	0	4.09	1.6	BU
19	Nitrate + Nitrite as Nitrogen (N)	Discharge	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	8	BU/TMDL
19	Oil & Grease	Discharge	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	10	BU
19	Sulfate	Discharge	mg/L	1	250	0.6	13.2	3299.2	0	0	3299.22	300	BU
19	Surfactants (MBAS)	Discharge	mg/L	1	0.12	0.6	13.2	1.6	0	0	1.58	0.5	BU
19	Total Dissolved Solids	Discharge	mg/L	1	890	0.6	13.2	11745.2	0	0	11745.22	150	BU
19	Total Settleable Solids	Discharge	ml/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	0.3	BU
19	Total Suspended Solids	Discharge	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	45	BU

**Table F2
REASONABLE POTENTIAL ANALYSIS FOR SECONDARY POLLUTANTS, (OUTFALLS 003-007, 009 and 010)**

**FIRST QUARTER 2013
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

Outfall	Constituent	Monitoring	Units	Number of Samples	MEC	CV	Multiplier	Projected Maximum Effluent Concentration (99/99)	Dilution Ratio	Background Concentration	Projected Maximum Receiving Water Concentration	Step 1, Determine Water Quality Objectives	BU - Beneficial use protection NC-Human noncarcinogen AP-Aquatic life protection
3_7,9-10	Boron	Annual	mg/L	0	All Data Qualified	0.6	All Data Qualified	All Qualified Data	0	0	NA	1	BU
3_7,9-10	Chloride	Discharge	mg/L	2	2.3	0.6	7.4	17.0	0	0	17.01	150	BU
3_7,9-10	Fluoride	Annual	mg/L	1	0.12	0.6	13.2	1.6	0	0	1.58	1.6	BU
3_7,9-10	Nitrate + Nitrite as Nitrogen (N)	Discharge	mg/L	2	0.59	0.6	7.4	4.4	0	0	4.36	8	BU/TMDL
3_7,9-10	Oil & Grease	Discharge	mg/L	1	Available Data <DL	0.6	13.2	Available Data < DL	0	0	NA	10	BU
3_7,9-10	Sulfate	Discharge	mg/L	2	6	0.6	7.4	44.4	0	0	44.36	300	BU
3_7,9-10	Total Dissolved Solids	Discharge	mg/L	2	87	0.6	7.4	643.3	0	0	643.25	150	BU
3_7,9-10	Total Suspended Solids	Annual	mg/L	1	Available Data <DL	0.6	13.2	Available Data < DL	0	0	NA	45	BU