

ATTACHMENT 1
FOURTH QUARTER BMP ACTIVITIES DURING

Attachment 1: Boeing's BMP Activities during the Fourth Quarter 2012

OUTFALL (Location)	BMP ACTIVITIES DURING FOURTH QUARTER 2012
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, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event. Temporary BMPs (hay bale check structures and fiber rolls) were installed in the drainage, and removed prior to installation of permanent BMPs. A trench alongside the road was excavated, lined with geotextile, and filled with rip rap to enhance drainage. Dressed roads with fresh gravel, and graded the road upstream from the culvert to direct runoff. Installed two check dams in the drainage, and an apron of rip rap at the inlet of the flume. Banks and access paths were restored with jute matting and fiber rolls.
002 (South Slope below R-2 Pond)	Conducted sediment and erosion control inspections around the perimeter and Outfall 002 drainage. Inspected outfall and flume for any excess sediment/debris. Flume, outfall and sample box drained and cleared of sediment and debris. Checked flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Completed maintenance inspection and reset of autosampler. Cleaned sample boxes and flume prior to rain event.
003 Radioactive Material Handling Facility (RMHF)	Conducted sediment and erosion control inspections. Inspected flume and outfall for any excess sediment/debris. Maintenance inspections were conducted of the structural BMPs including the stormwater retention basin, conveyance and filter system. Checked sample box, flow meter control box for spiders and presence of the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis.
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. Maintenance inspections were conducted of the structural BMPs including the stormwater retention system, conveyance and filter system. Completed inspection of dedicated retention tanks. Checked sample box, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event. Performed vegetation clearance, street sweeping, and cleaning of the culverts. Installed fiber rolls above culverts, and placed gravel filter bags at the entrance to culverts. Added jute matting to slope at west end of

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	concrete culvert.
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 on structural BMPs including the conveyance, stormwater retention system, and sediment basin liner. Completed inspection of dedicated retention tanks. Cleaned sample boxes and flume prior to rain event.
006 (FSDF-2)	Inspected the flume, outfall and liner for any excess sediment/debris. Conducted sediment and erosion control inspections near the outfall. Completed maintenance inspections on the structural BMPs including the stormwater retention system and filter system. Checked sample box, flow meter control box the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Completed inspection of dedicated retention tanks. Cleaned sample boxes and flume prior to rain event.
007 (Building 100)	Conducted sediment and erosion control inspections at perimeter of Outfall 007. Observed the sediment basin liner and outfall for any excess sediment/debris or deficiencies. Completed maintenance inspection 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. Cleaned sample boxes and flume prior to rain event.
008 (Happy Valley)	Conducted sediment and erosion control inspections near the perimeter of the outfall and within the Outfall 008 drainage. Maintained and repaired existing sediment and erosion controls. Observed the outfall and flume for any excess sediment/debris, and cleared excess sediment from the flume. Checked sample box, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event. Temporary erosion controls (sand bags and fiber rolls) were placed along the abandoned road, and road closure measures were installed across the road to prevent through-traffic. Two rip rap check dams were installed upstream from Outfall 008 flume.
009 (WS-13 Drainage)	Checked sample box, flow meter control box for spiders and presence of rodents/animals. Flow meter reset and tape replaced on monthly basis. Applied hydroseed at B-1, LOX, Area II Landfill (A2LF), and sites within the Northern Drainage. Installed 36-inch curb cuts and additional check dams/slope protection upstream

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	<p>from the B-1 media filter. Installed 18-inch curb cuts in the planted median near Post 505 and planted container plants. Removed spent fiber rolls from B1-1A area. Sediment and debris were cleared from culverts and basins, and rip rap was added at Culvert Maintenance (CM)-9 prior to the weir boards. Trimmed and replaced fabric wrapping on weir boards at CM-1, CM-2, CM-10, CM-3, CM-4, CM-6, CM-11, CM-8, and CM-9. Installed matting, fiber rolls, and sand bags on slopes along the road east of CM-9 and north of IEL-3. Replaced sand bag berm at foot of former Component Testing Lab (CTL)-I access road, adjacent to CM-6. Road at A2LF was dressed with fresh gravel, and gravel was added to turnouts along Area II Road. Exposed geocell material at LOX was covered with gravel and deteriorated gravel filter bags in the berm were replaced with sand bags. Pole cuttings and native plants were installed in the Northern Drainage during completion of the Restoration, Monitoring and Mitigation Plan (RMMP) work. The swale along Helipad Rd and culvert were cleaned, and jute matting and fiber rolls were installed along the slope to prevent further migration of sediment. Performed street sweeping from Helipad Rd to CM-1 and cleared plant debris and soil from two swales down gradient from Expendable Launch Vehicle (ELV). Installed plastic sheeting to divert water from the ELV excavation and installed a silt fence at the base to retain sediment. Installed sand bags and fiber rolls at the bottom of Helipad Rd to direct runoff into the culvert. Installed a sand bag diversion along the curb from the old fire station to Helipad, and two additional sand bag berms were installed up gradient from ELV. The Helipad berms were raised, and covered with plastic sheeting. A flow-through expandable plug was installed at Berm B, and Berm A was plumbed to storage tanks near Outfall 010. Pumps were placed at Berm A and at the base of the swale to pump captured water to the storage tanks. Installed sand bags and fiber roll along gunite slope at the Lower Lot. Continued construction of the Lower Lot biofilter, including construction of the sediment basin, media filter, and shade structure; installation of erosion control matting, rip rap aprons, and silt fence; planting of native plants; and excavation and placement of the cistern. Temporary BMPs were implemented during Lower Lot biofilter construction, including street sweeping, stockpile management, and installation of fiber rolls, tarps, and sand bags.</p>

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010 (Building 203)	Conducted maintenance inspections on structural BMPs including the filter media, conveyance and the stormwater retention system. Completed inspection of dedicated retention tanks. Maintained and inspected sediment and erosion controls within areas of disturbance or sparse vegetation. Checked sample box, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event.
011 (Perimeter Pond)	Conducted maintenance inspections on structural BMPs including the weir, filter media, pump and conveyance system. Conducted sediment and erosion control inspections at flume, drainage area, perimeter of outfall, pond and around conveyance system. Checked sample box, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event. Replaced the deteriorated straw wattles on the construction area above the Area I burn pit area, and repaired silt fence. Applied hydroseed at LETF, CTL-III, and CTL-V. Revised outfall BMP by installing a y-strainer, extending the wall to direct flow into the sample box, and plumbing the Stormwater Treatment System (SWTS) effluent to media bed. Replaced sand bags on CTL-V road by the old fuel farm and cleaned up weed abatement debris from CTL-V road.
012 (ALFA Test Stand)	Maintenance inspections were conducted on structural BMPs including pump, conveyance system and retention tank. Maintenance performed on transfer pumps. Observed condition of the sand bag berm. Inspected outfall and perimeter for presence of rodents/animals. Conducted weed abatement at media beds and cleaned sample boxes and flume prior to rain event.
013 (BRAVO Test Stand)	Maintenance inspections were conducted on 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 boxes and flume prior to rain event.
014 Advanced Propulsion Test Facility (APTF)	Maintenance inspections were conducted on structural BMPs. Observed the condition and integrity of the liner and berm. Observed sediment and erosion control BMPs around outfall perimeter. Cleaned sample boxes and flume prior to rain event. Applied hydroseed. A screen was installed on the discharge pipe.

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018 (R-2 Spillway)	Maintenance inspections were conducted on structural BMPs including the filter media and conveyance system. Checked sample box, flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on monthly basis. Cleaned sample boxes and flume prior to rain event. Applied hydroseed at Environmental Effects Lab (EEL) and Sewage Treatment Plant (STP)-III. Concrete and rebar supports were installed at the walkway above R-2 Pond, and post-construction BMPs (jute matting and fiber rolls) were installed. Surge tank from Perimeter Pond was placed at R-2 and painted. Installed post-demo BMPs (sand bags and fiber rolls) at Building 4015.
019 (GETS)	Media vessels replaced and backwashed. Associated bag filters replaced frequently as needed. Automated influent valves were installed and modifications to the PLC screen were made for remote control of valves on October 2012. Replaced purolite media for metals treatment and the installed temporary perchlorate vessels to perform a pump test on RD-10. Semiannual housekeeping was performed in November 2012. The WS-9A pump was pulled, cleaned and re-installed in December 2012. Overall system operation is nominal.
RSW-002 (Arroyo Simi Frontier Park)	Collected receiving water sample at Arroyo Simi Frontier Park location. Conducted monthly receiving water inspection.