Outfall 008
BMP and Performance Monitoring Locations

Base Map Legend
- Administrative Area
- Non Jurisdictional Surface Water Pathway
- RFI Site Boundary
- Surface Water Divide
- Drainage

Figure Legend
- Discontinued Performance Monitoring Location
- Potential BMP Subarea Monitoring Location
- Discontinued Potential BMP Subarea Monitoring Location

FIGURE 2-1

Note:
Performance monitoring and BMP monitoring inspections were performed at locations shown on this figure during daylight hours as soon as possible after the rain event began, and at 24 hour intervals during extended rain events. During inspections, if sufficient storm water runoff was observed at a sample location, a sample was collected. The dates on which samples were collected are shown on the Figure; locations with no dates have never been sampled.

Note:
1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.
4. Inspection/sampling at offsite monitoring locations subject to property owner approval.

Legend
- Performance Monitoring sample ID suffix and collection date
- BMP Monitoring sample ID suffix and collection date

Path: T:\projects\rock3\ISRA\Figures\PerfMon\2012-2013 Rainy Season\HVS_Fig2-1.mxd
Date: 8/27/2014

Note:
Performance monitoring and BMP monitoring inspections were performed at locations shown on this figure during daylight hours as soon as possible after the rain event began, and at 24 hour intervals during extended rain events. During inspections, if sufficient storm water runoff was observed at a sample location, a sample was collected. The dates on which samples were collected are shown on the Figure; locations with no dates have never been sampled.

Note:
1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.
4. Inspection/sampling at offsite monitoring locations subject to property owner approval.
Outfall 009
BMP and Performance Monitoring Locations
B-1 and Lower Parking Lot Areas

Conveyance Pipeline
1 inch = 100 feet

3. Rationale for discontinuing monitoring at previous sample locations

2. Topographic contours from 2010 Sage Consulting.

1. Aerial imagery from 2010 Sage Consulting.

Figure Legend
- Discontinued Performance Monitoring Location
- Potential BMP Subarea Monitoring Location
- Downstream Treatment BMP Monitoring Location
- Upstream Treatment BMP Monitoring Location
- Intermediate Treatment BMP Monitoring Location
- Discontinued Performance Monitoring Location

Note:
1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.
4. Monitoring locations subject to property owner approval.
1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.
4. Inspection/sampling at offsite monitoring locations subject to property owner approval.

Note: Remedial work planned at ISRA areas within the AILF RFI Site, A2LF RFI Site, and select ISRA areas in the LOX RFI Site will be addressed by the Boeing RCRA Facility Investigation (RFI) Program and the NASA Administrative Order on Consent (AOC) program, respectively.
Outfall 009
BMP and Performance Monitoring Locations
LOX Area

Base Map Legend
- Administrative Area
- Non Jurisdictional Boundary
- RFI Site Boundary
- Surface Water Pathway
- Drainage

Figure Legend
- Primary Downstream Performance Monitoring Location
- Upstream Performance Monitoring Location
- Discontinued Performance Monitoring Location
- Alternate Downstream Performance Monitoring Location
- Potential BMP Subarea Monitoring Location
- Discontinued Potential BMP Subarea Monitoring Location
- Alternate BMP Performance Monitoring Location
- Actual ISRA Excavation Boundary
- Former Planned ISRA Area Boundary
- Gravel Bag Berm
- Slope Drain

Note:
1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.
4. Inspection/sampling at offsite monitoring locations subject to property owner approval.

Figure Legend:
- Actual ISRA Excavation Boundary
- Former Planned ISRA Area Boundary
- Gravel Bag Berm
- Slope Drain

Note: Remedial work planned at ISRA areas within the AILF RFI Site, A2LF RFI Site, and select ISRA areas in the LOX RFI Site will be addressed by the Boeing RCRA Facility Investigation (RFI) Program and the NASA Administrative Order on Consent (AOC) program, respectively.
**Figure Legend**

- **Primary Downgradient Performance**
  - Monitoring Sample Location

- **Upgradient Performance**
  - Monitoring Sample Location

- **Secondary Performance**
  - Monitoring Sample Location

- **Previous Performance Monitoring**
  - Potential BMP Subarea Monitoring Location

- **Downstream Treatment BMP**
  - Monitoring Location

- **Upstream Treatment BMP**
  - Monitoring Location

- **Discontinued Potential BMP Subarea Monitoring Location**

- **Actual DRA Excavation Boundary**

- **Former Planned DRA Area Boundary**

- **Sandbags**

- **Engineered Treatment System**
  - Engineered Treatment System-Headwall
  - Engineered Treatment System-Pipeline (Belowground)

- **Engineered Treatment System-Pipeline (Aboveground)**

**Note:**

1. Aerial imagery from 2010 Sage Consulting.
2. Topographic contours from 2010 Sage Consulting.

**Order on Consent (AOC) program, respectively.**

**Drainage**

**RFI Site Boundary**

**Surface Water Pathway**

**Surface Water Divide**

**Administrative Area Boundary**

**Path:** T:\projects\rock3\ISRA\Figures\PerfMon\2012-2013 Rainy Season\A2LF_Fig2-5.mxd
Figure Notes:
1. Topographic contours from 2010 Sage Consultants, Inc.
2. Covered the east bank at CM-1, CM-2, CM-3, CM-4, CM-6, CM-8, CM-9, and CM-10 with filter fabric to facilitate ponding behind the boards and increase flow through filter media beds (Fall 2011).
BMP Areas Based on BMP Ranking Results Western Outfall 009 Watershed

Figure Notes:
1. Topographic contours from 2010 Sage Consultants, Inc.
2. Covered the weir boards at CM-1, CM-2, CM-3, CM-4, CM-6, CM-8, CM-9, and CM-10 with filter fabric to facilitate ponding behind the boards and increase flow through filter media beds (Fall 2011).
APPENDIX A

RAIN EVENT AND SAMPLING CHARTS
2013/2014 RAINY SEASON
Rain Event December 7, 2013

Rain Event Summary:
- Total Rainfall (Area I Rain Gauge): 0.28 inches
- Runoff Volume (Outfall 009): 0.00 million gallons

Note: Performance Monitoring and BMP Monitoring inspections were performed during daylight hours.
Rain Event February 26 - March 2, 2014

Rain Event Summary:
Total Rainfall (Area I Rain Gauge): 4.62 inches
Runoff Volume (Outfall 009): 1.7 million gallons

Note: Performance Monitoring and BMP Monitoring inspections were performed during daylight hours.
# Table B-1
**Laboratory Reports and Data Validation Reports**  
**2013/2014 Rainy Season**  
**Page 1 of 1**

<table>
<thead>
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<th>Sample Delivery Group</th>
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**Notes**  
ASL - American Scientific Laboratories, LLC  
CAS - Columbia Analytical Laboratory  
PTS - PTS Laboratories, Inc., Santa Fe Springs, California  
TA-Irvine - Test America Laboratories, Irvine, California  
TA-Knoxville - Test America Laboratories, Knoxville, Tennessee  
TA-Sacramento - Test America Laboratories, West Sacramento, California  
WECK - Weck Laboratories, Inc.
Please contact Debbie Taege at 818-466-8849 if you would like to receive a CD containing the Laboratory and Data Validation Reports listed in Table B-1. The reports are not posted to the Boeing External Website due to the large file size.
APPENDIX C-1

PERFORMANCE MONITORING DATA GRAPHS VS. TIME – BY OUTFALL
Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.
Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.
Background CM Upstream monitoring locations 8 and 11 were discontinued for the 2011-2012 monitoring season.

Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.
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Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.
Background CM Upstream monitoring locations 8 and 11 were discontinued for the 2011-2012 monitoring season.

Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.
APPENDIX C-2

PERFORMANCE MONITORING DATA GRAPHS – COC CORRELATIONS
Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.

Several CM Upstream locations are also shown as background locations on the BMP Performance Monitoring plots.
Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.

Several CM Upstream locations are also shown as background locations on the BMP Performance Monitoring plots.
Sample results measured below the detection limit have been excluded. Results shown below the maximum detection limit line correspond to samples with a detection limit less than the maximum detection limit.

Several CM Upstream locations are also shown as background locations on the BMP Performance Monitoring plots.