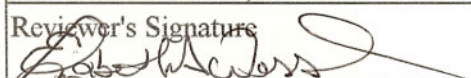


**CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA**

AMEC Earth & Environmental  
550 South Wadsworth Boulevard  
Suite 500  
Lakewood, CO 80226

Package ID T713MT6  
Task Order 313150010  
SDG No. IOJ0739  
No. of Analyses 9

Laboratory Del Mar- Irvine  
Reviewer E. Wessling  
Analysis/Method Metals by 6010B/6020/7471A

Date: December 20, 2005  
Reviewer's Signature 

ACTION ITEMS <sup>a</sup>	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g., Holding Times GC/MS Tune/Inst. Performance Calibration Method blanks Surrogates Matrix Spike/Dup LCS Field QC Internal Standard Performance Compound Identification Quantitation System Performance	Qualifications were assigned for the following: --rejections for MS/MSD outliers -- estimations for MS/MSD outliers -- blank spike outliers
COMMENTS <sup>b</sup>	
<sup>a</sup> Subcontracted analytical laboratory is not meeting contract and/or method requirements.	
<sup>b</sup> Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	

# DATA VALIDATION REPORT

## Topanga Fire Ash Samples

### ANALYSIS: METALS

### SAMPLE DELIVERY GROUP IOJ0739

Prepared by

AMEC—Denver Operations  
355 South Teller Street, Suite 300  
Lakewood, Colorado 80226

## 1. INTRODUCTION

Task Order Title:	Topanga Fire Ash Samples
Contract Task Order #:	313150010
SDG#:	IOJ0739
Project Manager:	P. Costa
Matrix:	Solid
Analysis:	Metals
QC Level:	Level IV
No. of Samples:	9
No. of Reanalyses/Dilutions:	0
Reviewer:	E. Wessling
Date of Review:	December 7, 2005

The samples listed in Table 1 were validated based on the guidelines outlined in the *AMEC Data Validation Procedure for Levels III and IV ICP Metals* (DVP-5, Rev. 2), *SW-846 Methods 6010B for ICP-AES and 7471A for Mercury (Manual Cold-Vapor Technique)*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review* (2/94). Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.



**Table 1. Sample identification**

Client ID	EPA ID	Laboratory ID	Matrix	COC Method
CF-1-Soil	WL008	IOJ0739-01	Soil	6010/6020/7471
CF-1-Ash	WL009	IOJ0739-02	Ash	6010/6020/7471
PCC-1-Soil	WL010	IOJ0739-03	Soil	6010/6020/7471
PCC-1-Ash	WL011	IOJ0739-04	Ash	6010/6020/7471
WC-1-Ash	WL014	IOJ0739-05	Ash	6010/6020/7471
WC-1-Soil	WL015	IOJ0739-06	Soil	6010/6020/7471
CRP-1-Soil	WL007	IOJ0739-07	Soil	6010/6020/7471
SC-1-Soil	WL012	IOJ0739-08	Soil	6010/6020/7471
SC-1-Ash	WL013	IOJ0739-09	Ash	6010/6020/7471

## 2. DATA VALIDATION FINDINGS

### 2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

#### 2.1.1 Sample Preservation, Handling, and Transport

Samples in this SDG was received at the laboratory within the temperature limits of  $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . No qualifications were required. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

#### 2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel. The COC accounted for the samples and analyses presented in this SDG. No sample qualifications were required.

#### 2.1.3 Holding Times

The dates of collection recorded on the COC and the dates of analyses recorded in the raw data, documented that the sample analyses were performed within the specified holding times of six months for the ICP and ICP/MS metals and 28-days for mercury. No qualifications were required.

### 2.2 ICP-MS TUNING

The ICP-MS met the method specified tune criteria; therefore, no qualifications were required for ICP-MS tuning.

### 2.3 CALIBRATION

The ICV and CCV results showed acceptable recoveries, 90-110% for ICP and ICP/MS metals and 80-120% for mercury. The laboratory analyzed reporting limit check standards in association with this SDG and all recoveries were acceptable. No qualifications were required.

### 2.4 BLANKS

The method blank and CCB results were nondetects at the reporting limit or were significantly below the sample detects so as not to result in qualification of the data. No qualifications were required.



## 2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

ICSA and ICSAB analyses were included in the raw data for the ICP and ICP/MS analyses. The recoveries were within the control limits and no qualifications were required.

## 2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The ICP LCS samples, ICP/MS LCS samples, and mercury LCS samples as reported on the LCS on the summary forms and in the raw data were within the laboratory-established control limits with the exception of silver in the blank spike associated with samples WL007, WL012, and WL013. Silver was recovered above control limits; therefore, silver in these three site samples was qualified as estimated, "J."

No further qualifications were required.

## 2.7 LABORATORY DUPLICATES

MS/MSD analyses were performed on sample WL008. All RPDs were within control limits. No qualification was required.

## 2.8 MATRIX SPIKE

MS/MSD analyses were performed on WL008. Antimony and selenium were recovered below control limits. Antimony nondetects were rejected, "R," antimony and selenium detects were qualified as estimated, "J," and selenium nondetects were qualified as estimated, "UJ." No further qualification was required.

## 2.9 FURNACE ATOMIC ABSORPTION QC

Furnace atomic absorption was not utilized for the analyses of these samples; therefore, furnace atomic absorption QC is not applicable.

## 2.10 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the samples in this SDG; therefore, no assessment was made with respect to this criterion.

## 2.11 INTERNAL STANDARDS PERFORMANCE

For the target compounds analyzed by ICP/MS, the ICP/MS internal standards were within established control limits. No qualifications were required.

## 2.12 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the samples in this data package. Calculations were verified, and the sample results reported on the Form Is were verified against the raw data. No transcription errors or calculation errors were noted. Some target analytes were reported from dilution analyses due to matrix interference. Reporting limits and MDLs were adjusted accordingly. No further qualifications were required.

## 2.13 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

### 2.13.1 Field Blanks and Equipment Rinsates

The samples in this SDG had no associated field QC samples. No qualifications were required.

### 2.13.2 Field Duplicates

There were no field duplicate analyses performed in association with the site samples.





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The Boeing Company-SSFL  
5800 Woolsey Canyon Road  
Canoga Park, CA 91304-1148  
Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)  
TAS# MWH-1112  
Report Number: IOJ0739

Sampled: 10/07/05-10/10/05  
Received: 10/10/05

### METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0739-01 (WL008 - Soil)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5J12128	0.068	2.3	0.19	2	10/12/05	10/14/05	M2, J
Arsenic	EPA 6010B	5J12123	1.4	4.6	8.4	2	10/12/05	10/23/05	
Barium	EPA 6010B	5J12123	1.8	2.3	99	2	10/12/05	10/23/05	
Beryllium	EPA 6010B	5J12123	0.46	1.1	0.66	2	10/12/05	10/23/05	RL-1, J
Boron	EPA 6010B	5J12123	2.3	11	14	2	10/12/05	10/23/05	
Cadmium	EPA 6020	5J12128	0.046	1.1	0.19	2	10/12/05	10/14/05	M2, J
Chromium	EPA 6010B	5J12123	0.68	2.3	19	2	10/12/05	10/23/05	
Cobalt	EPA 6010B	5J12123	0.68	2.3	8.6	2	10/12/05	10/23/05	
Copper	EPA 6020	5J12128	0.46	2.3	16	2	10/12/05	10/14/05	
Iron	EPA 6010B	5J12123	3.4	11	23000	2	10/12/05	10/23/05	M-HA
Lead	EPA 6020	5J12128	0.046	1.1	13	2	10/12/05	10/14/05	
Manganese	EPA 6010B	5J12123	1.8	2.3	550	2	10/12/05	10/23/05	M-HA
Mercury	EPA 7471A	5J20061	0.0034	0.023	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J12123	0.46	4.6	16	2	10/12/05	10/23/05	
Selenium	EPA 6020	5J12128	0.46	2.3	0.87	2	10/12/05	10/14/05	M2, J
Silver	EPA 6020	5J12128	0.046	1.1	0.055	2	10/12/05	10/14/05	J
Thallium	EPA 6020	5J12128	0.23	1.1	0.39	2	10/12/05	10/14/05	J
Vanadium	EPA 6010B	5J12123	0.68	2.3	31	2	10/12/05	10/23/05	
Zinc	EPA 6010B	5J12123	3.4	11	90	2	10/12/05	10/23/05	

Sample ID: IOJ0739-02 (WL009 - Solid)  
Reporting Units: mg/kg dry

Sampled: 10/07/05

Antimony	EPA 6020	5J12128	0.030	1.0	0.69	1	10/12/05	10/14/05	J
Arsenic	EPA 6010B	5J12123	2.4	8.0	5.4	4	10/12/05	10/23/05	RL-1, J
Barium	EPA 6010B	5J12123	3.2	4.0	630	4	10/12/05	10/23/05	
Beryllium	EPA 6010B	5J12123	0.80	2.0	ND	4	10/12/05	10/23/05	RL-1
Boron	EPA 6010B	5J12123	4.0	20	330	4	10/12/05	10/23/05	
Cadmium	EPA 6020	5J12128	0.020	0.50	0.31	1	10/12/05	10/14/05	J
Chromium	EPA 6010B	5J12123	1.2	4.0	19	4	10/12/05	10/23/05	
Cobalt	EPA 6010B	5J12123	1.2	4.0	7.7	4	10/12/05	10/23/05	
Copper	EPA 6020	5J12128	0.20	1.0	78	1	10/12/05	10/14/05	
Iron	EPA 6010B	5J12123	6.0	20	19000	4	10/12/05	10/23/05	
Lead	EPA 6020	5J12128	0.020	0.50	13	1	10/12/05	10/14/05	
Manganese	EPA 6010B	5J12123	3.2	4.0	1400	4	10/12/05	10/23/05	
Mercury	EPA 7471A	5J20061	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J12123	0.80	8.0	37	4	10/12/05	10/23/05	
Selenium	EPA 6020	5J12128	0.20	1.0	0.82	1	10/12/05	10/14/05	J
Silver	EPA 6020	5J12128	0.020	0.50	0.22	1	10/12/05	10/14/05	J
Thallium	EPA 6020	5J12128	0.10	0.50	0.17	1	10/12/05	10/14/05	J
Vanadium	EPA 6010B	5J12123	1.2	4.0	42	4	10/12/05	10/23/05	
Zinc	EPA 6010B	5J12123	6.0	20	350	4	10/12/05	10/23/05	

Del Mar Analytical, Irvine  
Michele Harper  
Project Manager

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The Boeing Company-SSFL  
 5800 Woolsey Canyon Road  
 Canoga Park, CA 91304-1148  
 Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)  
 TAS# MWH-1112  
 Report Number: IOJ0739

Sampled: 10/07/05-10/10/05  
 Received: 10/10/05

## METALS

Analyte	Qual	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0739-03 (WL010 - Soil)						Sampled: 10/07/05				
Reporting Units: mg/kg dry										
Antimony	J	EPA 6020	5J12128	0.030	1.0	0.15	1	10/12/05	10/14/05	J
Arsenic		EPA 6010B	5J12123	1.2	4.0	13	2	10/12/05	10/23/05	
Barium		EPA 6010B	5J12123	1.6	2.0	96	2	10/12/05	10/23/05	
Beryllium	J	EPA 6010B	5J12123	0.40	1.0	0.80	2	10/12/05	10/23/05	RL-1, J
Boron		EPA 6010B	5J12123	2.0	10	12	2	10/12/05	10/23/05	
Cadmium		EPA 6020	5J12128	0.020	0.51	0.52	1	10/12/05	10/14/05	
Chromium		EPA 6010B	5J12123	0.61	2.0	20	2	10/12/05	10/23/05	
Cobalt		EPA 6010B	5J12123	0.61	2.0	13	2	10/12/05	10/23/05	
Copper		EPA 6020	5J12128	0.20	1.0	14	1	10/12/05	10/14/05	
Iron		EPA 6010B	5J12123	3.0	10	27000	2	10/12/05	10/23/05	
Lead		EPA 6020	5J12128	0.020	0.51	14	1	10/12/05	10/14/05	
Manganese		EPA 6010B	5J12123	1.6	2.0	1700	2	10/12/05	10/23/05	
Mercury	U	EPA 7471A	5J20061	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel		EPA 6010B	5J12123	0.40	4.0	18	2	10/12/05	10/23/05	
Selenium	J	EPA 6020	5J12128	0.20	1.0	3.2	1	10/12/05	10/14/05	
Silver	J	EPA 6020	5J12128	0.020	0.51	0.045	1	10/12/05	10/14/05	J
Thallium	J	EPA 6020	5J12128	0.10	0.51	0.30	1	10/12/05	10/14/05	J
Vanadium		EPA 6010B	5J12123	0.61	2.0	40	2	10/12/05	10/23/05	
Zinc		EPA 6010B	5J12123	3.0	10	100	2	10/12/05	10/23/05	

Sample ID: IOJ0739-04 (WL011 - Solid)  
 Reporting Units: mg/kg dry

Sampled: 10/07/05

Antimony	J	EPA 6020	5J12128	0.030	1.0	0.36	1	10/12/05	10/14/05	J
Arsenic		EPA 6010B	5J12123	2.4	8.0	10	4	10/12/05	10/23/05	
Barium		EPA 6010B	5J12123	3.2	4.0	310	4	10/12/05	10/23/05	
Beryllium	J	EPA 6010B	5J12123	0.80	2.0	1.1	4	10/12/05	10/23/05	RL-1, J
Boron		EPA 6010B	5J12123	4.0	20	240	4	10/12/05	10/23/05	
Cadmium		EPA 6020	5J12128	0.020	0.50	1.5	1	10/12/05	10/14/05	
Chromium		EPA 6010B	5J12123	1.2	4.0	35	4	10/12/05	10/23/05	
Cobalt		EPA 6010B	5J12123	1.2	4.0	12	4	10/12/05	10/23/05	
Copper		EPA 6020	5J12128	0.20	1.0	84	1	10/12/05	10/14/05	
Iron		EPA 6010B	5J12123	6.0	20	33000	4	10/12/05	10/23/05	
Lead		EPA 6020	5J12128	0.020	0.50	14	1	10/12/05	10/14/05	
Manganese		EPA 6010B	5J12123	3.2	4.0	1000	4	10/12/05	10/23/05	
Mercury	J	EPA 7471A	5J20061	0.0030	0.020	0.0035	1	10/20/05	10/20/05	J
Nickel		EPA 6010B	5J12123	0.80	8.0	34	4	10/12/05	10/23/05	
Selenium	J	EPA 6020	5J12128	0.20	1.0	3.8	1	10/12/05	10/14/05	
Silver	J	EPA 6020	5J12128	0.020	0.50	0.14	1	10/12/05	10/14/05	J
Thallium	J	EPA 6020	5J12128	0.10	0.50	0.34	1	10/12/05	10/14/05	J
Vanadium		EPA 6010B	5J12123	1.2	4.0	71	4	10/12/05	10/23/05	
Zinc		EPA 6010B	5J12123	6.0	20	250	4	10/12/05	10/23/05	

Del Mar Analytical, Irvine  
 Michele Harper  
 Project Manager

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Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)  
TAS# MWH-1112  
Report Number: IOJ0739

Sampled: 10/07/05-10/10/05  
Received: 10/10/05

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0739-05 (WL014 - Solid)			Sampled: 10/10/05						
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5J18085	0.030	1.0	0.48	1	10/18/05	10/18/05	A-01, J
Arsenic	EPA 6010B	5J18102	0.61	2.0	ND	1	10/18/05	10/24/05	
Barium	EPA 6010B	5J18102	0.81	1.0	320	1	10/18/05	10/24/05	
Beryllium	EPA 6010B	5J18102	0.20	0.51	ND	1	10/18/05	10/24/05	
Boron	EPA 6010B	5J18102	1.0	5.1	76	1	10/18/05	10/24/05	
Cadmium	EPA 6020	5J18085	0.020	0.51	0.079	1	10/18/05	10/18/05	A-01, J
Chromium	EPA 6010B	5J18102	0.30	1.0	3.8	1	10/18/05	10/24/05	
Cobalt	EPA 6010B	5J18102	0.30	1.0	3.5	1	10/18/05	10/24/05	
Copper	EPA 6020	5J18085	0.20	1.0	39	1	10/18/05	10/18/05	
Iron	EPA 6010B	5J18102	1.5	5.1	8700	1	10/18/05	10/24/05	
Lead	EPA 6020	5J18085	0.020	0.51	9.4	1	10/18/05	10/18/05	
Manganese	EPA 6010B	5J18102	0.81	1.0	270	1	10/18/05	10/24/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J18102	0.20	2.0	4.5	1	10/18/05	10/24/05	
Selenium	EPA 6020	5J18085	0.20	1.0	0.34	1	10/18/05	10/18/05	J
Silver	EPA 6020	5J18085	0.020	0.51	0.14	1	10/18/05	10/18/05	J
Thallium	EPA 6020	5J18085	0.10	0.51	0.16	1	10/18/05	10/18/05	J
Vanadium	EPA 6010B	5J18102	0.30	1.0	21	1	10/18/05	10/24/05	
Zinc	EPA 6010B	5J18102	1.5	5.1	77	1	10/18/05	10/24/05	

Sample ID: IOJ0739-06 (WL015 - Soil)  
Reporting Units: mg/kg dry

Sampled: 10/10/05

Antimony	EPA 6020	5J18085	0.030	1.0	0.087	1	10/18/05	10/18/05	A-01, J
Arsenic	EPA 6010B	5J18102	0.60	2.0	0.89	1	10/18/05	10/24/05	J
Barium	EPA 6010B	5J18102	0.80	1.0	150	1	10/18/05	10/24/05	
Beryllium	EPA 6010B	5J18102	0.20	0.50	0.20	1	10/18/05	10/24/05	J
Boron	EPA 6010B	5J18102	1.0	5.0	5.5	1	10/18/05	10/24/05	
Cadmium	EPA 6020	5J18085	0.020	0.50	0.033	1	10/18/05	10/18/05	A-01, J
Chromium	EPA 6010B	5J18102	0.30	1.0	3.6	1	10/18/05	10/24/05	
Cobalt	EPA 6010B	5J18102	0.30	1.0	4.0	1	10/18/05	10/24/05	
Copper	EPA 6020	5J18085	0.20	1.0	30	1	10/18/05	10/18/05	
Iron	EPA 6010B	5J18102	1.5	5.0	11000	1	10/18/05	10/24/05	
Lead	EPA 6020	5J18085	0.020	0.50	2.4	1	10/18/05	10/18/05	
Manganese	EPA 6010B	5J18102	0.80	1.0	210	1	10/18/05	10/24/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J18102	0.20	2.0	3.1	1	10/18/05	10/24/05	
Selenium	EPA 6020	5J18085	0.20	1.0	0.37	1	10/18/05	10/18/05	J
Silver	EPA 6020	5J18085	0.020	0.50	0.041	1	10/18/05	10/18/05	J
Thallium	EPA 6020	5J18085	0.10	0.50	0.14	1	10/18/05	10/18/05	J
Vanadium	EPA 6010B	5J18102	0.30	1.0	25	1	10/18/05	10/24/05	
Zinc	EPA 6010B	5J18102	1.5	5.0	35	1	10/18/05	10/24/05	

Del Mar Analytical, Irvine  
Michele Harper  
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The Boeing Company-SSFL  
5800 Woolsey Canyon Road  
Canoga Park, CA 91304-1148  
Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)  
TAS# MWH-1112  
Report Number: IOJ0739

Sampled: 10/07/05-10/10/05  
Received: 10/10/05

### METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0739-07 (WL007 - Soil)									
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5J19096	0.061	2.0	0.18	2	10/19/05	10/20/05	RL-1, J
Arsenic	EPA 6010B	5J19120	0.61	2.0	5.9	1	10/19/05	10/22/05	
Barium	EPA 6010B	5J19120	0.81	1.0	97	1	10/19/05	10/22/05	
Beryllium	EPA 6010B	5J19120	0.20	0.51	0.65	1	10/19/05	10/22/05	
Boron	EPA 6010B	5J19120	1.0	5.1	11	1	10/19/05	10/22/05	
Cadmium	EPA 6020	5J19096	0.040	1.0	0.25	2	10/19/05	10/20/05	RL-1, J
Chromium	EPA 6010B	5J19120	0.30	1.0	18	1	10/19/05	10/24/05	
Cobalt	EPA 6010B	5J19120	0.30	1.0	5.1	1	10/19/05	10/22/05	
Copper	EPA 6020	5J19096	0.40	2.0	15	2	10/19/05	10/20/05	
Iron	EPA 6010B	5J19120	1.5	5.1	18000	1	10/19/05	10/24/05	
Lead	EPA 6020	5J19096	0.040	1.0	14	2	10/19/05	10/20/05	
Manganese	EPA 6010B	5J19120	0.81	1.0	290	1	10/19/05	10/22/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J19120	0.20	2.0	13	1	10/19/05	10/22/05	
Selenium	EPA 6020	5J19096	0.40	2.0	0.43	2	10/19/05	10/20/05	RL-1, J
Silver	EPA 6020	5J19096	0.040	1.0	0.061	2	10/19/05	10/20/05	L1, RL-1, J
Thallium	EPA 6020	5J19096	0.20	1.0	0.21	2	10/19/05	10/20/05	RL-1, J
Vanadium	EPA 6010B	5J19120	0.30	1.0	29	1	10/19/05	10/22/05	
Zinc	EPA 6010B	5J19120	1.5	5.1	72	1	10/19/05	10/22/05	

Sample ID: IOJ0739-08 (WL012 - Soil)  
Reporting Units: mg/kg dry

Sampled: 10/10/05

Antimony	EPA 6020	5J19096	0.030	1.0	0.056	1	10/19/05	10/20/05	J
Arsenic	EPA 6010B	5J19120	2.4	8.1	5.5	4	10/19/05	10/24/05	RL-1, J
Barium	EPA 6010B	5J19120	3.2	4.0	230	4	10/19/05	10/24/05	
Beryllium	EPA 6010B	5J19120	0.81	2.0	ND	4	10/19/05	10/24/05	RL-1
Boron	EPA 6010B	5J19120	4.0	20	ND	4	10/19/05	10/24/05	RL-1
Cadmium	EPA 6020	5J19096	0.020	0.51	0.046	1	10/19/05	10/20/05	J
Chromium	EPA 6010B	5J19120	1.2	4.0	14	4	10/19/05	10/24/05	
Cobalt	EPA 6010B	5J19120	1.2	4.0	12	4	10/19/05	10/24/05	
Copper	EPA 6020	5J19096	0.20	1.0	24	1	10/19/05	10/20/05	
Iron	EPA 6010B	5J19120	6.1	20	32000	4	10/19/05	10/24/05	
Lead	EPA 6020	5J19096	0.020	0.51	6.4	1	10/19/05	10/20/05	
Manganese	EPA 6010B	5J19120	3.2	4.0	500	4	10/19/05	10/24/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J19120	0.81	8.1	9.7	4	10/19/05	10/24/05	
Selenium	EPA 6020	5J19096	0.20	1.0	ND	1	10/19/05	10/20/05	
Silver	EPA 6020	5J19096	0.020	0.51	0.043	1	10/19/05	10/20/05	L1, J
Thallium	EPA 6020	5J19096	0.10	0.51	0.42	1	10/19/05	10/20/05	J
Vanadium	EPA 6010B	5J19120	1.2	4.0	80	4	10/19/05	10/24/05	
Zinc	EPA 6010B	5J19120	6.1	20	87	4	10/19/05	10/24/05	

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The Boeing Company-SSFL  
 5800 Woolsey Canyon Road  
 Canoga Park, CA 91304-1148  
 Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)  
 TAS# MWH-1112  
 Report Number: IOJ0739

Sampled: 10/07/05-10/10/05  
 Received: 10/10/05

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0739-09 (WL013 - Solid)					Sampled: 10/10/05				
Reporting Units: mg/kg dry									
Antimony	EPA 6020	5J19096	0.030	1.0	0.50	1	10/19/05	10/20/05	J
Arsenic	EPA 6010B	5J19120	2.4	8.1	ND	4	10/19/05	10/24/05	RL-1
Barium	EPA 6010B	5J19120	3.2	4.0	370	4	10/19/05	10/24/05	
Beryllium	EPA 6010B	5J19120	0.81	2.0	ND	4	10/19/05	10/24/05	RL-1
Boron	EPA 6010B	5J19120	4.0	20	120	4	10/19/05	10/24/05	
Cadmium	EPA 6020	5J19096	0.020	0.51	0.12	1	10/19/05	10/20/05	J
Chromium	EPA 6010B	5J19120	1.2	4.0	13	4	10/19/05	10/24/05	
Cobalt	EPA 6010B	5J19120	1.2	4.0	7.0	4	10/19/05	10/24/05	
Copper	EPA 6020	5J19096	0.20	1.0	38	1	10/19/05	10/20/05	
Iron	EPA 6010B	5J19120	6.1	20	19000	4	10/19/05	10/24/05	
Lead	EPA 6020	5J19096	0.020	0.51	42	1	10/19/05	10/20/05	
Manganese	EPA 6010B	5J19120	3.2	4.0	670	4	10/19/05	10/24/05	
Mercury	EPA 7471A	5J20062	0.0030	0.020	ND	1	10/20/05	10/20/05	
Nickel	EPA 6010B	5J19120	0.81	8.1	11	4	10/19/05	10/24/05	
Selenium	EPA 6020	5J19096	0.20	1.0	0.25	1	10/19/05	10/20/05	J
Silver	EPA 6020	5J19096	0.020	0.51	0.23	1	10/19/05	10/20/05	L1, J
Thallium	EPA 6020	5J19096	0.10	0.51	0.18	1	10/19/05	10/20/05	J
Vanadium	EPA 6010B	5J19120	1.2	4.0	49	4	10/19/05	10/24/05	
Zinc	EPA 6010B	5J19120	6.1	20	120	4	10/19/05	10/24/05	

Am 1/25/06  
 Rev 1

WAC 2.10.06  
 Rev 2

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