

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

AMEC Earth & Environmental
355 South Teller Street
Suite 300
Lakewood, CO 80226

Package ID T713SV2

Task Order 313150010

SDG No. IOJ0411

No. of Analyses 4

Laboratory Del Mar Analytical

Reviewer K. Shadowlight

Analysis/Method Semivolatiles

Date: December 8, 2005

Reviewer's Signature

K. Shadowlight

ACTION ITEMS^a

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:

--Initial calibration outliers (%RSD/ r^2 values)

--Continuing calibration %D outliers

--Surrogate recovery outliers

COMMENTS^b

^a Subcontracted analytical laboratory is not meeting contract and/or method requirements.

^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.



DATA VALIDATION REPORT

Topanga Fire Sampling

ANALYSIS: SEMIVOLATILES

SAMPLE DELIVERY GROUP: IOJ0411

Prepared by

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

1. INTRODUCTION

Task Order Title: Topanga Fire Sampling
Contract Task Order #: 313150010
SDG#: IOJ0411
Project Manager: P. Costa
Matrix: Soil/Solid
Analysis: Semivolatiles
QC Level: Level IV
No. of Samples: 4
No. of Reanalyses/Dilutions: 0
Reviewer: K. Shadowlight
Date of Review: December 9, 2005

The samples listed in Table 1 were validated based on the guidelines outlined in the *AMEC Data Validation Procedure for Levels C and D Semivolatile Organics (DVP-3, Rev. 2), SW-846 Method 8270C*, and the *National Functional Guidelines For Organic Data Review (2/94)*. Any deviations from these procedures 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	Lab No.	Matrix	Method
Upstream 001-Ash	WL001	IOJ0411-01	solid	8270C
Upstream 001-Soil	WL002	IOJ0411-02	soil	8270C
Upstream 002	WL004	IOJ0411-04	solid	8270C
Upstream 002	WL005	IOJ0411-05	soil	8270C

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

The samples in this SDG were received at the laboratory within the temperature limits of 4°C ±2°C. The analysis did not require preservation, and no preservation was noted in the field. According to the case narrative and sample log in sheet for this SDG, the samples were received intact and on ice. No qualifications were required.

2.1.2 Chain of Custody

The COC was signed and dated by both field and laboratory personnel. The semivolatile analysis by Method 8270 was not noted on the COC; however, Montgomery Watson personnel requested the samples and analysis in a memo dated 11/05/05. As the samples were couriered directly to the laboratory, custody seals were not required. No qualifications were required.

2.1.3 Holding Times

The soil samples were extracted within 14 days of collection and analyzed within 40 days of collection. No qualifications were required.

2.2 GC/MS TUNING

The DFTPP tunes met the criteria specified in SW-846 Method 8270, and the samples were analyzed within 12 hours of the DFTPP injection times. No qualifications were required.

2.3 CALIBRATION

There was one initial calibration associated with this SDG dated 10/11/05. The average RRFs were ≥0.05 in the initial calibration. The %RSDs were ≤15% or r^2 values were ≥0.995 for the target compounds listed on the sample summary forms, with the exception of the %RSD for pentachlorophenol >15% and the r^2 values < 0.995 for target compounds 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol. Nondetect results for the aforementioned samples were qualified as estimated, "UJ," in the samples of this SDG, unless otherwise rejected, (see section 2.6).

The continuing calibration associated with the samples in this SDG was dated 10/14/05. The RRFs for the target compounds were ≥0.05, and the %Ds were ≤20% with the exception of the %Ds for dibenzo(a,h)anthracene and benzo(g,h,i)perylene. Nondetect results for dibenzo(a,h)anthracene and benzo(g,h,i)perylene were qualified as estimated, "UJ," in the samples of this SDG.

A representative number of average RRFs and %RSDs in the initial calibrations and RRFs and %Ds in the continuing calibrations were checked from the raw data, and no calculation or transcription errors were noted. No further qualifications were required.

2.4 BLANKS

One method blank (5J13053-BLK1) was extracted and analyzed with this SDG. There were no target compounds detected in the method blank. Review of the raw data indicated no false negatives. No qualifications were required.

2.5 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

One blank spike (5J13053-BS1) was extracted and analyzed with this SDG. The recoveries were within the laboratory-established QC limits. A representative number of recoveries were calculated from the raw data and no calculation or transcription errors were found. No qualifications were required.

2.6 SURROGATE RECOVERY

Surrogate compound 2,4,6-tribromophenol was not recovered in sample WL001 or WL005; therefore, the results for acid target compounds were qualified as estimated, "J," for detects and rejected "R," for nondetects in samples WL001 and WL005. A representative number of recoveries were calculated from the raw data, and no transcription or calculation errors were noted. No further qualifications were required.

2.7 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No MS/MSD analyses were associated with this SDG. Evaluation of method accuracy was based on blank spike results. No qualifications were required.

2.8 FIELD QC SAMPLES

Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

2.8.1 Field Blanks and Equipment Rinsates

There were no field QC samples identified for this SDG. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate samples identified for this SDG.

2.9 INTERNAL STANDARDS PERFORMANCE

The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and

±30 seconds for retention times. A representative number of recoveries were checked from the raw data, and no transcription or calculation errors were noted. No qualifications were required.

2.10 COMPOUND IDENTIFICATION

The laboratory analyzed for semivolatile compounds by method SW-846 Method 8270. Review of the sample chromatograms, retention times, and spectra indicated no problems with target compound identification. No qualifications were required.

2.11 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantification is verified at a Level IV data validation. No calculation or transcription errors were found. Samples WL001 and WL005 were each analyzed at a 3× dilution. The results and reporting limits were appropriately adjusted for sample amount, percent moisture, and dilution when applicable. The reporting limits were supported by the low point of the initial calibration and the laboratory MDL. Any detects between the MDL and the reporting limit were qualified as estimated, "J," by the laboratory. No further qualifications were required.

2.12 TENTATIVELY IDENTIFIED COMPOUNDS

TICs were not reported by the laboratory for this SDG. No qualifications were required.

2.13 SYSTEM PERFORMANCE

Review of the raw data indicated no problems with system performance. No qualifications were required.



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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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-01 (WL001 - Solid)									
Reporting Units: ug/kg dry									
Acenaphthene	EPA 8270C	5J13053	230	980	ND	2.96	10/13/05	10/15/05	U
Acenaphthylene	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
Aniline	EPA 8270C	5J13053	510	1200	ND	2.96	10/13/05	10/15/05	U
Anthracene	EPA 8270C	5J13053	300	980	ND	2.96	10/13/05	10/15/05	U
Benzidine	EPA 8270C	5J13053	360	2000	ND	2.96	10/13/05	10/15/05	U
Benzoic acid	EPA 8270C	5J13053	920	2500	ND	2.96	10/13/05	10/15/05	U
Benzo(a)anthracene	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
Benzo(b)fluoranthene	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
Benzo(k)fluoranthene	EPA 8270C	5J13053	270	980	ND	2.96	10/13/05	10/15/05	U
Benzo(g,h,i)perylene	EPA 8270C	5J13053	420	980	ND	2.96	10/13/05	10/15/05	U
Benzo(a)pyrene	EPA 8270C	5J13053	240	980	ND	2.96	10/13/05	10/15/05	U
Benzyl alcohol	EPA 8270C	5J13053	360	980	ND	2.96	10/13/05	10/15/05	U
Bis(2-chloroethoxy)methane	EPA 8270C	5J13053	300	980	ND	2.96	10/13/05	10/15/05	U
Bis(2-chloroethyl)ether	EPA 8270C	5J13053	390	510	ND	2.96	10/13/05	10/15/05	U
Bis(2-chloroisopropyl)ether	EPA 8270C	5J13053	420	980	ND	2.96	10/13/05	10/15/05	U
Bis(2-ethylhexyl)phthalate	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
4-Bromophenyl phenyl ether	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
Butyl benzyl phthalate	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
4-Chloroaniline	EPA 8270C	5J13053	420	980	ND	2.96	10/13/05	10/15/05	U
2-Chloronaphthalene	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
4-Chloro-3-methylphenol	EPA 8270C	5J13053	390	980	ND	2.96	10/13/05	10/15/05	U
2-Chlorophenol	EPA 8270C	5J13053	480	980	ND	2.96	10/13/05	10/15/05	U
4-Chlorophenyl phenyl ether	EPA 8270C	5J13053	290	980	ND	2.96	10/13/05	10/15/05	U
Chrysene	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
Dibenz(a,h)anthracene	EPA 8270C	5J13053	420	1200	ND	2.96	10/13/05	10/15/05	U
Dibenzofuran	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
Di-n-butyl phthalate	EPA 8270C	5J13053	210	980	ND	2.96	10/13/05	10/15/05	U
1,3-Dichlorobenzene	EPA 8270C	5J13053	560	980	ND	2.96	10/13/05	10/15/05	U
1,4-Dichlorobenzene	EPA 8270C	5J13053	480	980	ND	2.96	10/13/05	10/15/05	U
1,2-Dichlorobenzene	EPA 8270C	5J13053	540	980	ND	2.96	10/13/05	10/15/05	U
3,3-Dichlorobenzidine	EPA 8270C	5J13053	290	2500	ND	2.96	10/13/05	10/15/05	U
2,4-Dichlorophenol	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
Diethyl phthalate	EPA 8270C	5J13053	270	980	ND	2.96	10/13/05	10/15/05	U
2,4-Dimethylphenol	EPA 8270C	5J13053	260	980	ND	2.96	10/13/05	10/15/05	U
Dimethyl phthalate	EPA 8270C	5J13053	360	980	ND	2.96	10/13/05	10/15/05	U
4,6-Dinitro-2-methylphenol	EPA 8270C	5J13053	330	1200	ND	2.96	10/13/05	10/15/05	U
2,4-Dinitrophenol	EPA 8270C	5J13053	740	2000	ND	2.96	10/13/05	10/15/05	U
2,4-Dinitrotoluene	EPA 8270C	5J13053	390	980	ND	2.96	10/13/05	10/15/05	U
2,6-Dinitrotoluene	EPA 8270C	5J13053	420	980	ND	2.96	10/13/05	10/15/05	U
Di-n-octyl phthalate	EPA 8270C	5J13053	330	980	ND	2.96	10/13/05	10/15/05	U
Fluoranthene	EPA 8270C	5J13053	300	980	ND	2.96	10/13/05	10/15/05	U

Del Mar Analytical, Irvine
Michele Harper
Project Manager

Level IV

Ks 12/1/05

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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-1111
 Report Number: IOJ0411

Sampled: 10/06/05
 Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-01 (WL001 - Solid) - cont.									
Reporting Units: ug/kg dry									
Fluorene	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	RL-1
Hexachlorobenzene	EPA 8270C	SJ13053	210	980	ND	2.96	10/13/05	10/15/05	U
Hexachlorobutadiene	EPA 8270C	SJ13053	300	980	ND	2.96	10/13/05	10/15/05	U
Hexachlorocyclopentadiene	EPA 8270C	SJ13053	510	2500	ND	2.96	10/13/05	10/15/05	U
Hexachloroethane	EPA 8270C	SJ13053	510	980	ND	2.96	10/13/05	10/15/05	U
Indeno(1,2,3-cd)pyrene	EPA 8270C	SJ13053	360	980	ND	2.96	10/13/05	10/15/05	U
Isophorone	EPA 8270C	SJ13053	260	980	ND	2.96	10/13/05	10/15/05	U
2-Methylnaphthalene	EPA 8270C	SJ13053	290	980	ND	2.96	10/13/05	10/15/05	U
2-Methylphenol	EPA 8270C	SJ13053	420	980	ND	2.96	10/13/05	10/15/05	U
4-Methylphenol	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
Naphthalene	EPA 8270C	SJ13053	300	980	ND	2.96	10/13/05	10/15/05	U
2-Nitroaniline	EPA 8270C	SJ13053	480	980	ND	2.96	10/13/05	10/15/05	U
3-Nitroaniline	EPA 8270C	SJ13053	390	980	ND	2.96	10/13/05	10/15/05	U
4-Nitroaniline	EPA 8270C	SJ13053	420	2500	ND	2.96	10/13/05	10/15/05	U
Nitrobenzene	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
2-Nitrophenol	EPA 8270C	SJ13053	360	980	ND	2.96	10/13/05	10/15/05	U
4-Nitrophenol	EPA 8270C	SJ13053	450	2500	ND	2.96	10/13/05	10/15/05	U
N-Nitrosodiphenylamine	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
N-Nitroso-di-n-propylamine	EPA 8270C	SJ13053	330	740	ND	2.96	10/13/05	10/15/05	U
Pentachlorophenol	EPA 8270C	SJ13053	390	2500	ND	2.96	10/13/05	10/15/05	U
Phenanthrene	EPA 8270C	SJ13053	270	980	ND	2.96	10/13/05	10/15/05	U
Phenol	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
Pyrene	EPA 8270C	SJ13053	390	980	ND	2.96	10/13/05	10/15/05	U
1,2,4-Trichlorobenzene	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
2,4,5-Trichlorophenol	EPA 8270C	SJ13053	420	980	ND	2.96	10/13/05	10/15/05	U
2,4,6-Trichlorophenol	EPA 8270C	SJ13053	390	980	ND	2.96	10/13/05	10/15/05	U
N-Nitrosodimethylamine	EPA 8270C	SJ13053	420	980	ND	2.96	10/13/05	10/15/05	U
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	SJ13053	330	980	ND	2.96	10/13/05	10/15/05	U
Surrogate: 2-Fluorophenol (25-120%)					36 %				
Surrogate: Phenol-d6 (35-120%)					66 %				
Surrogate: 2,4,6-Tribromophenol (35-125%)					*				
Surrogate: Nitrobenzene-d5 (30-120%)					68 %				Z
Surrogate: 2-Fluorobiphenyl (35-120%)					67 %				
Surrogate: Terphenyl-d14 (40-135%)					62 %				

Del Mar Analytical, Irvine
 Michele Harper
 Project Manager

Level IV

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Attention: Paul Costa

Project ID: Boeing SSFL-NPDES (ash)
TAS# MWH-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-02 (WL002 - Solid)									
Reporting Units: ug/kg dry									
Acenaphthene	EPA 8270C	5J13053	79	330	ND	0.995	10/13/05	10/15/05	U
Acenaphthylene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
Aniline	EPA 8270C	5J13053	170	420	ND	0.995	10/13/05	10/15/05	
Anthracene	EPA 8270C	5J13053	100	330	ND	0.995	10/13/05	10/15/05	
Benzidine	EPA 8270C	5J13053	120	660	ND	0.995	10/13/05	10/15/05	
Benzoic acid	EPA 8270C	5J13053	310	830	ND	0.995	10/13/05	10/15/05	
Benzo(a)anthracene	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
Benzo(b)fluoranthene	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
Benzo(k)fluoranthene	EPA 8270C	5J13053	92	330	ND	0.995	10/13/05	10/15/05	
Benzo(g,h,i)perylene	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	U
Benzo(a)pyrene	EPA 8270C	5J13053	81	330	ND	0.995	10/13/05	10/15/05	U
Benzyl alcohol	EPA 8270C	5J13053	120	330	ND	0.995	10/13/05	10/15/05	
Bis(2-chloroethoxy)methane	EPA 8270C	5J13053	100	330	ND	0.995	10/13/05	10/15/05	
Bis(2-chloroethyl)ether	EPA 8270C	5J13053	130	170	ND	0.995	10/13/05	10/15/05	
Bis(2-chloroisopropyl)ether	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	
Bis(2-ethylhexyl)phthalate	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
4-Bromophenyl phenyl ether	EPA 8270C	5J13053	96	330	ND	0.995	10/13/05	10/15/05	
Butyl benzyl phthalate	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
4-Chloroaniline	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	
2-Chloronaphthalene	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
4-Chloro-3-methylphenol	EPA 8270C	5J13053	130	330	ND	0.995	10/13/05	10/15/05	
2-Chlorophenol	EPA 8270C	5J13053	160	330	ND	0.995	10/13/05	10/15/05	
4-Chlorophenyl phenyl ether	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
Chrysene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	U
Dibenz(a,h)anthracene	EPA 8270C	5J13053	140	420	ND	0.995	10/13/05	10/15/05	U
Dibenzofuran	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	U
Di-n-butyl phthalate	EPA 8270C	5J13053	71	330	ND	0.995	10/13/05	10/15/05	
1,3-Dichlorobenzene	EPA 8270C	5J13053	190	330	ND	0.995	10/13/05	10/15/05	
1,4-Dichlorobenzene	EPA 8270C	5J13053	160	330	ND	0.995	10/13/05	10/15/05	
1,2-Dichlorobenzene	EPA 8270C	5J13053	180	330	ND	0.995	10/13/05	10/15/05	
3,3-Dichlorobenzidine	EPA 8270C	5J13053	97	830	ND	0.995	10/13/05	10/15/05	
2,4-Dichlorophenol	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
Diethyl phthalate	EPA 8270C	5J13053	90	330	ND	0.995	10/13/05	10/15/05	
2,4-Dimethylphenol	EPA 8270C	5J13053	87	330	ND	0.995	10/13/05	10/15/05	
Dimethyl phthalate	EPA 8270C	5J13053	120	330	ND	0.995	10/13/05	10/15/05	
4,6-Dinitro-2-methylphenol	EPA 8270C	5J13053	110	420	ND	0.995	10/13/05	10/15/05	U
2,4-Dinitrophenol	EPA 8270C	5J13053	250	660	ND	0.995	10/13/05	10/15/05	U
2,4-Dinitrotoluene	EPA 8270C	5J13053	130	330	ND	0.995	10/13/05	10/15/05	U
2,6-Dinitrotoluene	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	U
Di-n-octyl phthalate	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
Fluoranthene	EPA 8270C	5J13053	100	330	ND	0.995	10/13/05	10/15/05	U

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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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-02 (WL002 - Solid) - cont.									
Reporting Units: ug/kg dry									
Fluorene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	cc
Hexachlorobenzene	EPA 8270C	5J13053	69	330	ND	0.995	10/13/05	10/15/05	
Hexachlorobutadiene	EPA 8270C	5J13053	100	330	ND	0.995	10/13/05	10/15/05	
Hexachlorocyclopentadiene	EPA 8270C	5J13053	170	830	ND	0.995	10/13/05	10/15/05	
Hexachloroethane	EPA 8270C	5J13053	170	330	ND	0.995	10/13/05	10/15/05	
Indeno(1,2,3-cd)pyrene	EPA 8270C	5J13053	120	330	ND	0.995	10/13/05	10/15/05	
Isophorone	EPA 8270C	5J13053	87	330	ND	0.995	10/13/05	10/15/05	
2-Methylnaphthalene	EPA 8270C	5J13053	98	330	ND	0.995	10/13/05	10/15/05	
2-Methylphenol	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	
4-Methylphenol	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
Naphthalene	EPA 8270C	5J13053	100	330	ND	0.995	10/13/05	10/15/05	
2-Nitroaniline	EPA 8270C	5J13053	160	330	ND	0.995	10/13/05	10/15/05	
3-Nitroaniline	EPA 8270C	5J13053	130	330	ND	0.995	10/13/05	10/15/05	
4-Nitroaniline	EPA 8270C	5J13053	140	830	ND	0.995	10/13/05	10/15/05	
Nitrobenzene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
2-Nitrophenol	EPA 8270C	5J13053	120	330	ND	0.995	10/13/05	10/15/05	
4-Nitrophenol	EPA 8270C	5J13053	150	830	ND	0.995	10/13/05	10/15/05	
N-Nitrosodiphenylamine	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
N-Nitroso-di-n-propylamine	EPA 8270C	5J13053	110	250	ND	0.995	10/13/05	10/15/05	
Pentachlorophenol	EPA 8270C	5J13053	130	830	ND	0.995	10/13/05	10/15/05	
Phenanthrene	EPA 8270C	5J13053	92	330	ND	0.995	10/13/05	10/15/05	
Phenol	EPA 8270C	5J13053	110	330	170	0.995	10/13/05	10/15/05	J
Pyrene	EPA 8270C	5J13053	130	330	ND	0.995	10/13/05	10/15/05	
1,2,4-Trichlorobenzene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
2,4,5-Trichlorophenol	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	
2,4,6-Trichlorophenol	EPA 8270C	5J13053	130	330	ND	0.995	10/13/05	10/15/05	
N-Nitrosodimethylamine	EPA 8270C	5J13053	140	330	ND	0.995	10/13/05	10/15/05	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	5J13053	110	330	ND	0.995	10/13/05	10/15/05	
Surrogate: 2-Fluorophenol (25-120%)					55 %				
Surrogate: Phenol-d6 (35-120%)					62 %				
Surrogate: 2,4,6-Tribromophenol (35-125%)					46 %				
Surrogate: Nitrobenzene-d5 (30-120%)					62 %				
Surrogate: 2-Fluorobiphenyl (35-120%)					65 %				
Surrogate: Terphenyl-d14 (40-135%)					63 %				

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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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-04 (WL004 - Solid)									
Reporting Units: ug/kg dry									
Acenaphthene	EPA 8270C	SJ13053	80	340	ND	1	10/13/05	10/15/05	u
Acenaphthylene	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
Aniline	EPA 8270C	SJ13053	170	430	ND	1	10/13/05	10/15/05	u
Anthracene	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
Benidine	EPA 8270C	SJ13053	120	670	ND	1	10/13/05	10/15/05	u
Benzoic acid	EPA 8270C	SJ13053	320	840	ND	1	10/13/05	10/15/05	u
Benzo(a)anthracene	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
Benzo(b)fluoranthene	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
Benzo(k)fluoranthene	EPA 8270C	SJ13053	94	340	ND	1	10/13/05	10/15/05	u
Benzo(g,h,i)perylene	EPA 8270C	SJ13053	140	340	ND	1	10/13/05	10/15/05	u
Benzo(a)pyrene	EPA 8270C	SJ13053	82	340	ND	1	10/13/05	10/15/05	u
Benzyl alcohol	EPA 8270C	SJ13053	120	340	120	1	10/13/05	10/15/05	u
Bis(2-chloroethoxy)methane	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
Bis(2-chloroethyl)ether	EPA 8270C	SJ13053	130	170	ND	1	10/13/05	10/15/05	u
Bis(2-chloroisopropyl)ether	EPA 8270C	SJ13053	140	340	ND	1	10/13/05	10/15/05	u
Bis(2-ethylhexyl)phthalate	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
4-Bromophenyl phenyl ether	EPA 8270C	SJ13053	98	340	ND	1	10/13/05	10/15/05	u
Butyl benzyl phthalate	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
4-Chloroaniline	EPA 8270C	SJ13053	140	340	ND	1	10/13/05	10/15/05	u
2-Chloronaphthalene	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
4-Chloro-3-methylphenol	EPA 8270C	SJ13053	130	340	ND	1	10/13/05	10/15/05	u
2-Chlorophenol	EPA 8270C	SJ13053	160	340	ND	1	10/13/05	10/15/05	u
4-Chlorophenyl phenyl ether	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u
Chrysene	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
Dibenz(a,h)anthracene	EPA 8270C	SJ13053	140	430	ND	1	10/13/05	10/15/05	u
Dibenzofuran	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
Di-n-butyl phthalate	EPA 8270C	SJ13053	72	340	ND	1	10/13/05	10/15/05	u
1,3-Dichlorobenzene	EPA 8270C	SJ13053	190	340	ND	1	10/13/05	10/15/05	u
1,4-Dichlorobenzene	EPA 8270C	SJ13053	160	340	ND	1	10/13/05	10/15/05	u
1,2-Dichlorobenzene	EPA 8270C	SJ13053	180	340	ND	1	10/13/05	10/15/05	u
3,3-Dichlorobenzidine	EPA 8270C	SJ13053	99	840	ND	1	10/13/05	10/15/05	u
2,4-Dichlorophenol	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
Diethyl phthalate	EPA 8270C	SJ13053	92	340	ND	1	10/13/05	10/15/05	u
2,4-Dimethylphenol	EPA 8270C	SJ13053	89	340	ND	1	10/13/05	10/15/05	u
Dimethyl phthalate	EPA 8270C	SJ13053	120	340	ND	1	10/13/05	10/15/05	u
4,6-Dinitro-2-methylphenol	EPA 8270C	SJ13053	110	430	ND	1	10/13/05	10/15/05	u
2,4-Dinitrophenol	EPA 8270C	SJ13053	250	670	ND	1	10/13/05	10/15/05	u
2,4-Dinitrotoluene	EPA 8270C	SJ13053	130	340	ND	1	10/13/05	10/15/05	u
2,6-Dinitrotoluene	EPA 8270C	SJ13053	140	340	ND	1	10/13/05	10/15/05	u
Di-n-octyl phthalate	EPA 8270C	SJ13053	110	340	ND	1	10/13/05	10/15/05	u
Fluoranthene	EPA 8270C	SJ13053	100	340	ND	1	10/13/05	10/15/05	u

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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-04 (WL004 - Solid) - cont.									
Reporting Units: ug/kg dry									
Fluorene	EPA 8270C	5J13053	110	340	ND	1	10/13/05	10/15/05	h
Hexachlorobenzene	EPA 8270C	5J13053	70	340	ND	1	10/13/05	10/15/05	
Hexachlorobutadiene	EPA 8270C	5J13053	100	340	ND	1	10/13/05	10/15/05	
Hexachlorocyclopentadiene	EPA 8270C	5J13053	170	840	ND	1	10/13/05	10/15/05	
Hexachloroethane	EPA 8270C	5J13053	170	340	ND	1	10/13/05	10/15/05	
Indeno(1,2,3-cd)pyrene	EPA 8270C	5J13053	120	340	ND	1	10/13/05	10/15/05	
Isophorone	EPA 8270C	5J13053	89	340	ND	1	10/13/05	10/15/05	
2-Methylnaphthalene	EPA 8270C	5J13053	100	340	ND	1	10/13/05	10/15/05	
2-Methylphenol	EPA 8270C	5J13053	140	340	ND	1	10/13/05	10/15/05	
4-Methylphenol	EPA 8270C	5J13053	110	340	290	1	10/13/05	10/15/05	J
Naphthalene	EPA 8270C	5J13053	100	340	ND	1	10/13/05	10/15/05	h
2-Nitroaniline	EPA 8270C	5J13053	160	340	ND	1	10/13/05	10/15/05	
3-Nitroaniline	EPA 8270C	5J13053	130	340	ND	1	10/13/05	10/15/05	
4-Nitroaniline	EPA 8270C	5J13053	140	840	ND	1	10/13/05	10/15/05	
Nitrobenzene	EPA 8270C	5J13053	110	340	ND	1	10/13/05	10/15/05	
2-Nitrophenol	EPA 8270C	5J13053	120	340	ND	1	10/13/05	10/15/05	
4-Nitrophenol	EPA 8270C	5J13053	150	840	ND	1	10/13/05	10/15/05	
N-Nitrosodiphenylamine	EPA 8270C	5J13053	110	340	ND	1	10/13/05	10/15/05	
N-Nitroso-di-n-propylamine	EPA 8270C	5J13053	110	250	ND	1	10/13/05	10/15/05	
Pentachlorophenol	EPA 8270C	5J13053	130	840	ND	1	10/13/05	10/15/05	h
Phenanthrene	EPA 8270C	5J13053	94	340	ND	1	10/13/05	10/15/05	h
Phenol	EPA 8270C	5J13053	110	340	930	1	10/13/05	10/15/05	h
Pyrene	EPA 8270C	5J13053	130	340	ND	1	10/13/05	10/15/05	h
1,2,4-Trichlorobenzene	EPA 8270C	5J13053	110	340	ND	1	10/13/05	10/15/05	
2,4,5-Trichlorophenol	EPA 8270C	5J13053	140	340	ND	1	10/13/05	10/15/05	
2,4,6-Trichlorophenol	EPA 8270C	5J13053	130	340	ND	1	10/13/05	10/15/05	
N-Nitrosodimethylamine	EPA 8270C	5J13053	140	340	ND	1	10/13/05	10/15/05	
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	5J13053	110	340	ND	1	10/13/05	10/15/05	
Surrogate: 2-Fluorophenol (25-120%)					62 %				
Surrogate: Phenol-d6 (35-120%)					71 %				
Surrogate: 2,4,6-Tribromophenol (35-125%)					59 %				
Surrogate: Nitrobenzene-d5 (30-120%)					68 %				
Surrogate: 2-Fluorobiphenyl (35-120%)					69 %				
Surrogate: Terphenyl-d14 (40-135%)					70 %				

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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-05 (WL005 - Solid)									
Reporting Units: ug/kg dry									
Acenaphthene	EPA 8270C	5J13053	240	990	ND	2.98	10/13/05	10/15/05	RL-1 U
Acenaphthylene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Aniline	EPA 8270C	5J13053	510	1300	ND	2.98	10/13/05	10/15/05	U
Anthracene	EPA 8270C	5J13053	300	990	ND	2.98	10/13/05	10/15/05	U
Benzidine	EPA 8270C	5J13053	360	2000	ND	2.98	10/13/05	10/15/05	U
Benzoic acid	EPA 8270C	5J13053	930	2500	ND	2.98	10/13/05	10/15/05	U S
Benzo(a)anthracene	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
Benzo(b)fluoranthene	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
Benzo(k)fluoranthene	EPA 8270C	5J13053	280	990	ND	2.98	10/13/05	10/15/05	U S C
Benzo(g,h,i)perylene	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
Benzo(a)pyrene	EPA 8270C	5J13053	240	990	ND	2.98	10/13/05	10/15/05	U
Benzyl alcohol	EPA 8270C	5J13053	360	990	ND	2.98	10/13/05	10/15/05	U
Bis(2-chloroethoxy)methane	EPA 8270C	5J13053	300	990	ND	2.98	10/13/05	10/15/05	U
Bis(2-chloroethyl)ether	EPA 8270C	5J13053	390	510	ND	2.98	10/13/05	10/15/05	U
Bis(2-chloroisopropyl)ether	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
Bis(2-ethylhexyl)phthalate	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
4-Bromophenyl phenyl ether	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
Butyl benzyl phthalate	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
4-Chloroaniline	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
2-Chloronaphthalene	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
4-Chloro-3-methylphenol	EPA 8270C	5J13053	390	990	ND	2.98	10/13/05	10/15/05	U S
2-Chlorophenol	EPA 8270C	5J13053	480	990	ND	2.98	10/13/05	10/15/05	U S
4-Chlorophenyl phenyl ether	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
Chrysene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Dibenz(a,h)anthracene	EPA 8270C	5J13053	420	1300	ND	2.98	10/13/05	10/15/05	U S C
Dibenzofuran	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Di-n-butyl phthalate	EPA 8270C	5J13053	210	990	ND	2.98	10/13/05	10/15/05	U
1,3-Dichlorobenzene	EPA 8270C	5J13053	570	990	ND	2.98	10/13/05	10/15/05	U
1,4-Dichlorobenzene	EPA 8270C	5J13053	480	990	ND	2.98	10/13/05	10/15/05	U
1,2-Dichlorobenzene	EPA 8270C	5J13053	540	990	ND	2.98	10/13/05	10/15/05	U
3,3-Dichlorobenzidine	EPA 8270C	5J13053	290	2500	ND	2.98	10/13/05	10/15/05	U
2,4-Dichlorophenol	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U S
Diethyl phthalate	EPA 8270C	5J13053	270	990	270	2.98	10/13/05	10/15/05	J J
2,4-Dimethylphenol	EPA 8270C	5J13053	260	990	ND	2.98	10/13/05	10/15/05	U S
Dimethyl phthalate	EPA 8270C	5J13053	360	990	ND	2.98	10/13/05	10/15/05	U
4,6-Dinitro-2-methylphenol	EPA 8270C	5J13053	330	1300	ND	2.98	10/13/05	10/15/05	U S
2,4-Dinitrophenol	EPA 8270C	5J13053	750	2000	ND	2.98	10/13/05	10/15/05	U S
2,4-Dinitrotoluene	EPA 8270C	5J13053	390	990	ND	2.98	10/13/05	10/15/05	U
2,6-Dinitrotoluene	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
Di-n-octyl phthalate	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Fluoranthene	EPA 8270C	5J13053	300	990	ND	2.98	10/13/05	10/15/05	U

Del Mar Analytical, Irvine
Michele Harper
Project Manager

Level III

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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-1111
Report Number: IOJ0411

Sampled: 10/06/05
Received: 10/06/05

SEMI-VOLATILE ORGANICS BY GC/MS (EPA 8270C)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOJ0411-05 (WL005 - Solid) - cont.									
Reporting Units: ug/kg dry									
Fluorene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Hexachlorobenzene	EPA 8270C	5J13053	210	990	ND	2.98	10/13/05	10/15/05	U
Hexachlorobutadiene	EPA 8270C	5J13053	300	990	ND	2.98	10/13/05	10/15/05	U
Hexachlorocyclopentadiene	EPA 8270C	5J13053	510	2500	ND	2.98	10/13/05	10/15/05	U
Hexachloroethane	EPA 8270C	5J13053	510	990	ND	2.98	10/13/05	10/15/05	U
Indeno(1,2,3-cd)pyrene	EPA 8270C	5J13053	360	990	ND	2.98	10/13/05	10/15/05	U
Isophorone	EPA 8270C	5J13053	260	990	ND	2.98	10/13/05	10/15/05	U
2-Methylnaphthalene	EPA 8270C	5J13053	290	990	ND	2.98	10/13/05	10/15/05	U
2-Methylphenol	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
4-Methylphenol	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Naphthalene	EPA 8270C	5J13053	300	990	ND	2.98	10/13/05	10/15/05	U
2-Nitroaniline	EPA 8270C	5J13053	480	990	ND	2.98	10/13/05	10/15/05	U
3-Nitroaniline	EPA 8270C	5J13053	390	990	ND	2.98	10/13/05	10/15/05	U
4-Nitroaniline	EPA 8270C	5J13053	420	2500	ND	2.98	10/13/05	10/15/05	U
Nitrobenzene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
2-Nitrophenol	EPA 8270C	5J13053	360	990	ND	2.98	10/13/05	10/15/05	U
4-Nitrophenol	EPA 8270C	5J13053	450	2500	ND	2.98	10/13/05	10/15/05	U
N-Nitrosodiphenylamine	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
N-Nitroso-di-n-propylamine	EPA 8270C	5J13053	330	750	ND	2.98	10/13/05	10/15/05	U
Pentachlorophenol	EPA 8270C	5J13053	390	2500	ND	2.98	10/13/05	10/15/05	U
Phenanthrene	EPA 8270C	5J13053	280	990	ND	2.98	10/13/05	10/15/05	U
Phenol	EPA 8270C	5J13053	330	990	580	2.98	10/13/05	10/15/05	U
Pyrene	EPA 8270C	5J13053	390	990	ND	2.98	10/13/05	10/15/05	U
1,2,4-Trichlorobenzene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
2,4,5-Trichlorophenol	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
2,4,6-Trichlorophenol	EPA 8270C	5J13053	390	990	ND	2.98	10/13/05	10/15/05	U
N-Nitrosodimethylamine	EPA 8270C	5J13053	420	990	ND	2.98	10/13/05	10/15/05	U
1,2-Diphenylhydrazine/Azobenzene	EPA 8270C	5J13053	330	990	ND	2.98	10/13/05	10/15/05	U
Surrogate: 2-Fluorophenol (25-120%)					44 %				
Surrogate: Phenol-d6 (35-120%)					56 %				
Surrogate: 2,4,6-Tribromophenol (35-125%)					*				
Surrogate: Nitrobenzene-d5 (30-120%)					57 %				
Surrogate: 2-Fluorobiphenyl (35-120%)					59 %				
Surrogate: Terphenyl-d14 (40-135%)					66 %				

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Level IV

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