CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

AMEC Earth & Environmental
550 South Wadsworth Boulevard
Suite 500
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Package ID T713WC1
Task Order 313150010
SDG No. IOJ0411
No. of Analyses 5

Laboratory Del Mar - Irvine
Reviewer E. Wessling
Analysis/Method General Minerals

Date: December 12, 2005
Reviewer's Signature

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.,**	Qualifications were assigned for the following:
Holding Times	- no sample weights for surfactants
GC/MS Tune/Inst. Performance	~~- estimated values between the MDL and RL~~ MC 2.10.06 Rev1
Calibration	- sample results corrected for one sulfate value
Method blanks	- MS/MSD for MBAS
Surrogates	- HT for MBAS
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
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

ANALYSIS: GENERAL MINERALS

SAMPLE DELIVERY GROUP: IOJ0411

Prepared by

AMEC—Denver Operations
355 South Teller Street, Suite 300
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1. INTRODUCTION

Task Order Title:	Fire Support
Contract Task Order #:	313150010
Sample Delivery Group #:	IOJ0411
Project Manager:	P. Costa
Matrix:	Soil and Ash
Analysis:	General Minerals
QC Level:	Level IV
No. of Samples:	5
Reviewer:	E. Wessling
Date of Review:	December 12, 2005

The sample listed in Table 1 was validated based on the guidelines outlined in the AMEC *Data Validation Procedures* SOP DVP-6, Rev. 2, *USEPA Methods for Chemical Analysis of Water and Wastes Method 300.0, 350.3, and 9014, Standard Methods for the Examination of Water and Wastewater Method SM5540-CMOD*, and validation guidelines outlined in the USEPA *Contract Laboratory Program 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
Upstream001 Ash	WL001	IOJ0411-01	Ash	General Minerals
Upstream001 Soil	WL002	IOJ0411-02	Soil	General Minerals
Upstream002	WL004	IOJ0411-04	Soil	General Minerals
Upstream002	WL005	IOJ0411-05	Ash	General Minerals
RP-1	WL006	IOJ0411-06	Soil	General Minerals

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The samples in these SDGs were received at the laboratory within the temperature limits of 4°C ± 2°C. No preservation problems were noted by the laboratory. No qualifications were required.

2.1.2 Chain of Custody

The COCs were signed and dated by field and laboratory personnel and accounted for the samples and all analyses presented in these SDGs. No sample qualifications were required.

2.1.3 Holding Times

The holding times were assessed by comparing the dates of collection with the dates of analysis. The analytical holding times for all analyses except MBAS were met. MBAS results were qualified as estimated, "J," for detects and "UJ," for nondetects. No further qualifications were required.

2.2 CALIBRATION

For the applicable analyses, the initial calibration correlation coefficients were ≥ 0.995. Initial and continuing calibration information was acceptable with recoveries within the control limits of 90-110%. No qualifications were required.

2.3 BLANKS

Target compounds were not detected in the associated method blanks, (5J12002-BLK1, 5J12075-BLK1, 5J14111-BLK1, and 5J19114-BLK1). Raw data was reviewed to verify the blank data. No qualifications were required.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The laboratory control sample recoveries were within the laboratory-established control limits. Raw data was reviewed to verify the values reported for the LCS recoveries. No qualifications were required.

2.5 SURROGATES RECOVERY

Surrogate recovery is not applicable to the analyses presented in this SDG.

2.6 LABORATORY DUPLICATES

MS/MSD analyses were performed on sample WL001 for MBAS analysis. RPDs were within control limits. No other MS/MSD or duplicate analyses were performed in association with this SDG; therefore, no further assessment was made with respect to this criterion.

2.7 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD analyses were performed on sample WL001 for MBAS analysis. Percent recoveries were below QC acceptance criteria. All site samples were qualified as estimated, "J," for detects and "UJ," for nondetects. No other MS/MSD analyses were performed in association with this SDG; therefore, no further assessment was made with respect to this criterion. Method accuracy was based on LCS results for analyses without an MS/MSD. No further qualifications were required.

2.8 FURNACE ATOMIC ABSORPTION QC

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

2.9 ICP SERIAL DILUTION

ICP serial dilution is not applicable to the analyses presented in this data validation report.

2.10 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified, and the sample results reported on the Form Is were verified against the raw data. Sulfate in sample WL001 was incorrectly calculated by the laboratory. The reported value was corrected by the reviewer. Actual sample weights were not recorded for the MBAS analysis. All MBAS data were qualified as estimated, "J," for detects and "UJ," for nondetects. No further transcription errors or calculation errors were noted. No further qualifications were required.

2.11 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 sample. The following are findings associated with field QC samples:

2.11.1 Field Blanks and Equipment Rinsates

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

2.11.2 Field Duplicates

There were no field duplicate pairs associated with this SDG.

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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

INORGANICS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Rev Qual	Qual Code
Sample ID: IOJ0411-01 (WL001 - Solid)											
Reporting Units: %											
Percent Solids	EPA 160.3 MOD	5J11075	0.10	0.10	**100**	1	10/11/05	10/11/05			
Sample ID: IOJ0411-02 (WL002 - Solid)											
Reporting Units: %											
Percent Solids	EPA 160.3 MOD	5J11075	0.10	0.10	**100**	1	10/11/05	10/11/05			
Sample ID: IOJ0411-04 (WL004 - Solid)											
Reporting Units: %											
Percent Solids	EPA 160.3 MOD	5J11075	0.10	0.10	**98**	1	10/11/05	10/11/05			
Sample ID: IOJ0411-05 (WL005 - Solid)											
Reporting Units: %											
Percent Solids	EPA 160.3 MOD	5J11075	0.10	0.10	**100**	1	10/11/05	10/11/05			
Sample ID: IOJ0411-06 (WL006 - Solid)											
Reporting Units: %											
Percent Solids	EPA 160.3 MOD	5J11075	0.10	0.10	**99**	1	10/11/05	10/11/05			
Sample ID: IOJ0411-01 (WL001 - Solid)											
Reporting Units: mg/kg dry											
Ammonia-NH3	EPA 350.3 MOD.	5J19114	2.8	12	**12**	1.99	10/19/05	10/19/05			
Total Cyanide	EPA 9014	5J14111	0.43	0.50	**3.3**	1	10/14/05	10/14/05			
Sulfate	EPA 300.0	5J12075	90	100	~~4400~~ **4500**	20	10/12/05	10/13/05			
Surfactants (MBAS)	SM5540-C MOD.	5J12002	0.44	1.0	**1.4**	1	10/11/05	10/12/05	M2	J	#, *10H, Q
Sample ID: IOJ0411-02 (WL002 - Solid)											
Reporting Units: mg/kg dry											
Ammonia-NH3	EPA 350.3 MOD.	5J19114	1.4	6.0	**5.1**	0.998	10/19/05	10/19/05	J	J	
Total Cyanide	EPA 9014	5J14111	0.43	0.50	**0.60**	1	10/14/05	10/14/05			
Sulfate	EPA 300.0	5J12075	4.5	5.0	**190**	1	10/12/05	10/12/05			
Surfactants (MBAS)	SM5540-C MOD.	5J12002	0.44	1.0	ND	1	10/11/05	10/12/05		UJ	*10H, Q
Sample ID: IOJ0411-04 (WL004 - Solid)											
Reporting Units: mg/kg dry											
Ammonia-NH3	EPA 350.3 MOD.	5J19114	1.4	6.1	**6.8**	0.996	10/19/05	10/19/05			
Total Cyanide	EPA 9014	5J14111	0.44	0.51	**1.1**	0.995	10/14/05	10/14/05			
Sulfate	EPA 300.0	5J12075	9.1	10	**690**	2	10/12/05	10/13/05			
Surfactants (MBAS)	SM5540-C MOD.	5J12002	0.45	1.0	**0.69**	1	10/11/05	10/12/05	J	J	*10H, Q

MC 2.10.06 Rev1

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INORGANICS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Raw Qual	Qual Code
Sample ID: IOJ0411-05 (WL005 - Solid)											
Reporting Units: mg/kg dry											
Ammonia-NH3	EPA 350.3 MOD.	5J19114	1.4	6.0	**8.2**	0.996	10/19/05	10/19/05			
Total Cyanide	EPA 9014	5J14111	0.43	0.50	**5.7**	0.995	10/14/05	10/14/05			
Sulfate	EPA 300.0	5J12075	90	100	**7600**	19.9	10/12/05	10/13/05			
Surfactants (MBAS)	SM5540-C MOD.	5J12002	0.44	1.0	**2.0**	1	10/11/05	10/12/05		J	*10
Sample ID: IOJ0411-06 (WL006 - Solid)											
Reporting Units: mg/kg dry											
Ammonia-NH3	EPA 350.3 MOD.	5J19114	1.4	6.0	**2.1**	0.998	10/19/05	10/19/05	J		
Total Cyanide	EPA 9014	5J14111	0.43	0.50	**0.64**	0.995	10/14/05	10/14/05			
Sulfate	EPA 300.0	5J12075	4.5	5.0	**150**	0.995	10/12/05	10/13/05			
Surfactants (MBAS)	SM5540-C MOD.	5J12002	2.2	5.0	ND	5	10/11/05	10/12/05	RL-1	U J	*10

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