

ATTACHMENT 5

**FILTER DRUM INFLUENT AND EFFLUENT DATA
08/31/06 and 09/07/06**

FILTER DRUM INFLUENT AND EFFLUENT DATA

08/31/06 and 09/07/06

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/25/06 08:39

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3332-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3332

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 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07106	0.015	0.040	0.11	1	09/07/06	09/11/06	
Sample ID: IPH3332-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I07125	0.050	2.0	0.47	1	09/07/06	09/07/06	J
Arsenic	EPA 200.7	6I07106	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07106	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I07125	0.025	1.0	ND	1	09/07/06	09/07/06	
Chromium	EPA 200.7	6I07106	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I07125	0.25	2.0	1.1	1	09/07/06	09/07/06	J
Lead	EPA 200.8	6I07125	0.040	1.0	0.078	1	09/07/06	09/07/06	J
Manganese	EPA 200.7	6I07106	7.0	20	39	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07106	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I07125	0.30	2.0	ND	1	09/07/06	09/07/06	
Silver	EPA 200.8	6I07125	0.025	1.0	ND	1	09/07/06	09/07/06	
Thallium	EPA 200.8	6I07125	0.15	1.0	ND	1	09/07/06	09/07/06	
Zinc	EPA 200.7	6I07106	15	20	ND	1	09/07/06	09/11/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3332-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.45	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/22/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.90	1	09/05/06	09/06/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.7	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/06/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.99	1	09/06/06	09/06/06	
Sample ID: IPH3332-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I08110	0.43	0.50	6.2	1	09/08/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.56	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07106	1.0	1.0	210	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	360	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I07131	0.50	1.0	12	1	09/07/06	09/07/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	2.7	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.13	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3332-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	630	1	09/06/06	09/06/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: V-EFF (IPH3332-01) - Water					
EPA 150.1	1	08/31/2006 08:25	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:25	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:25	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 08:05
Filtration	1	08/31/2006 08:25	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/11/2006 (6I07106-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	19.4	20	15	ug/l							J
LCS Analyzed: 09/11/2006 (6I07106-BS1)											
Arsenic	473	5.0	4.4	ug/l	500		95	85-115			
Beryllium	479	2.0	0.90	ug/l	500		96	85-115			
Chromium	470	5.0	2.0	ug/l	500		94	85-115			
Iron	0.476	0.040	0.015	mg/l	0.500		95	85-115			
Manganese	472	20	7.0	ug/l	500		94	85-115			
Nickel	462	10	2.0	ug/l	500		92	85-115			
Zinc	473	20	15	ug/l	500		95	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07106 Extracted: 09/07/06											
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS1)						Source: IPH3328-01					
Arsenic	499	5.0	4.4	ug/l	500	7.9	98	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	459	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	0.726	0.040	0.015	mg/l	0.500	0.25	95	70-130			
Manganese	559	20	7.0	ug/l	500	83	95	70-130			
Nickel	447	10	2.0	ug/l	500	ND	89	70-130			
Zinc	470	20	15	ug/l	500	ND	94	70-130			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS2)						Source: IPH3329-01					
Arsenic	501	5.0	4.4	ug/l	500	6.8	99	70-130			
Beryllium	498	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	482	5.0	2.0	ug/l	500	ND	96	70-130			
Iron	0.580	0.040	0.015	mg/l	0.500	0.094	97	70-130			
Manganese	503	20	7.0	ug/l	500	27	95	70-130			
Nickel	469	10	2.0	ug/l	500	ND	94	70-130			
Zinc	506	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 09/11/2006 (6I07106-MSD1)						Source: IPH3328-01					
Arsenic	495	5.0	4.4	ug/l	500	7.9	97	70-130	1	20	
Beryllium	494	2.0	0.90	ug/l	500	ND	99	70-130	1	20	
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130	3	20	
Iron	0.744	0.040	0.015	mg/l	0.500	0.25	99	70-130	2	20	
Manganese	559	20	7.0	ug/l	500	83	95	70-130	0	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	3	20	
Zinc	477	20	15	ug/l	500	ND	95	70-130	1	20	

Batch: 6I07125 Extracted: 09/07/06

Blank Analyzed: 09/07/2006 (6I07125-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07125 Extracted: 09/07/06											
LCS Analyzed: 09/07/2006 (6I07125-BS1)											
Antimony	79.6	2.0	0.050	ug/l	80.0		100	85-115			
Cadmium	78.2	1.0	0.025	ug/l	80.0		98	85-115			
Copper	81.3	2.0	0.25	ug/l	80.0		102	85-115			
Lead	80.0	1.0	0.040	ug/l	80.0		100	85-115			
Selenium	81.2	2.0	0.30	ug/l	80.0		102	85-115			
Silver	81.0	1.0	0.025	ug/l	80.0		101	85-115			
Thallium	77.8	1.0	0.15	ug/l	80.0		97	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07125-MS1) Source: IPH3332-01											
Antimony	78.4	2.0	0.050	ug/l	80.0	0.47	97	70-130			
Cadmium	72.6	1.0	0.025	ug/l	80.0	ND	91	70-130			
Copper	79.4	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	78.6	1.0	0.040	ug/l	80.0	0.078	98	70-130			
Selenium	77.5	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	74.2	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	77.0	1.0	0.15	ug/l	80.0	ND	96	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I07125-MS2) Source: IPI0034-01											
Antimony	78.2	2.0	0.050	ug/l	80.0	ND	98	70-130			
Cadmium	73.6	1.0	0.025	ug/l	80.0	ND	92	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.57	95	70-130			
Lead	78.1	1.0	0.040	ug/l	80.0	ND	98	70-130			
Selenium	77.4	2.0	0.30	ug/l	80.0	0.70	96	70-130			
Silver	74.7	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	77.0	1.0	0.15	ug/l	80.0	ND	96	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07125-MSD1) Source: IPH3332-01											
Antimony	77.2	2.0	0.050	ug/l	80.0	0.47	96	70-130	2	20	
Cadmium	71.5	1.0	0.025	ug/l	80.0	ND	89	70-130	2	20	
Copper	78.9	2.0	0.25	ug/l	80.0	1.1	97	70-130	1	20	
Lead	78.6	1.0	0.040	ug/l	80.0	0.078	98	70-130	0	20	
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130	1	20	
Silver	73.2	1.0	0.025	ug/l	80.0	ND	92	70-130	1	20	
Thallium	76.9	1.0	0.15	ug/l	80.0	ND	96	70-130	0	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	ND	99	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	ND	99	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3332

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1)											
						Source: IPH3279-01					
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1)											
						Source: IPH3279-01					
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1)											
						Source: IPH3322-01					
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2)											
						Source: IPH3330-01					
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		Source: IPH3322-01 5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		Source: IPH3331-01 4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		Source: IPH3305-01 1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I07106 Extracted: 09/07/06</u>											
Blank Analyzed: 09/12/2006 (6I07106-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07131 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07131-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/07/2006 (6I07131-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/07/2006 (6I07131-MS1)											
						Source: IPH3077-02					
Total Organic Carbon	5.65	1.0	0.25	mg/l	5.00	ND	113	80-120			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07131-MSD1)											
						Source: IPH3077-02					
Total Organic Carbon	5.93	1.0	0.25	mg/l	5.00	ND	119	80-120	5	20	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I08110 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08110-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08110 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08110-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I08110-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/08/2006 (6I08110-MS1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.56	106	85-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08110-MSD1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)											
						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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Report Number: IPH3332

Sampled: 08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Sampled: 08/31/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
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LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/22/06 16:49

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID
IPH3322-01

CLIENT ID
PM-P-EFF

MATRIX
Water

Reviewed By:



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MWH-Pasadena/Boeing
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 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.13	1	09/07/06	09/11/06	
Sample ID: IPH3322-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.51	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.79	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.12	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07086	7.0	20	42	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05071	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	210	1	09/07/06	09/11/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3322-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.46	1	09/05/06	09/05/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	7.2	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	1.1	1	09/05/06	09/05/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/05/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.0	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/05/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/05/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3322-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	1.7	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	1.1	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	210	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	08/31/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	08/31/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	08/31/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06083	10	10	410	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	11	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06129	10	10	ND	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	5.0	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.00	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3322-01 (PM-P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	640	1	09/06/06	09/06/06	

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 Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-P-EFF (IPH3322-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 08:10	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:10	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:10	08/31/2006 19:35	08/31/2006 20:00	08/31/2006 23:56
Filtration	1	08/31/2006 08:10	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05071 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05071-BLK1)											
Mercury	ND	0.20	0.050	ug/l							
LCS Analyzed: 09/05/2006 (6I05071-BS1)											
Mercury	7.88	0.20	0.050	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05071-MS1)											
						Source: IPI0083-02					
Mercury	7.77	0.20	0.050	ug/l	8.00	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05071-MSD1)											
						Source: IPI0083-02					
Mercury	7.80	0.20	0.050	ug/l	8.00	ND	98	70-130	0	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1)											
						Source: IPH3279-01					
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1)											
						Source: IPH3279-01					
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1)											
						Source: IPH3322-01					
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2)											
						Source: IPH3330-01					
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06083 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06083-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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 R-2A Pond Pilot Test
 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06083 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06083-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/06/2006 (6I06083-DUP1)											
Total Dissolved Solids	770	10	10	mg/l		Source: IPH3305-01 770			0	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06129 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06129-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06129-BS1)											
Total Suspended Solids	975	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 09/06/2006 (6I06129-DUP1)											
Total Suspended Solids	2670	10	10	mg/l		Source: IPH3287-01 2700			1	10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06151 Extracted: 09/06/06											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
Batch: 6I07086 Extracted: 09/07/06											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I07097 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

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 R-2A Pond Pilot Test
 Report Number: IPH3322

Sampled: 08/31/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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R-2A Pond Pilot Test
Report Number: IPH3322

Sampled: 08/31/06
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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH3322

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

Client Name/Address

MWH-Pasadena
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101

Project Manager: Bronwyn Kelly

Sampler: *DNX1267*

Project

Boeing-SSFL BMP/NPDES
R-2A Pond Filtration Pilot Test

Phone Number
(626) 568-6691
Fax Number
(626) 568-6515

ANALYSIS REQUIRED

Total Recoverable Metals
As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness
Alkalinity, Suspended Solids, pH
Sediments Concentration (ASTM Method)
Total Organic Carbon
Oil & Grease (EPA 413.1)
Total Kjeldahl Nitrogen
SO4, NO3+NO2, Nitrate
N, Nitrite-N (NO3 + NO2-N)
Turbidity, TSS
Conductivity
Ammonia-N (NH3-N)
Total Dissolved Metals
As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn

Field readings
Temp = *74*
pH = *7.5*

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Comments
PM-P-EFF	W	Poly-1L	1	<i>8/31/06</i>	HNO3	1	X
PM-P-EFF	W	Poly-1L	1	<i>8/31/06</i>	None	2	
PM-P-EFF	W	VOAs	2		HCl	3A, 3B	
PM-P-EFF	W	1L Amber	2		HCl	4A, 4B	
PM-P-EFF	W	Poly-500 ml	1		H2SO4	5	X
PM-P-EFF	W	Poly-500 ml	1	None	6		
PM-P-EFF	W	Poly-500 ml	2	None	7A, 7B	X	
PM-P-EFF	W	Poly-500 ml	1	H2SO4	8	X	
PM-P-EFF	W	Poly-1L	1	<i>8/31/06</i>	None	9	X

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal
Perchlorate Only 72 Hours _____
Metals Only 72 Hours _____
Sample Integrity (Check) On Ice: *GC*

Relinquished By *[Signature]* Date/Time: *8-31-06 1503*
Received By *[Signature]* Date/Time: *8-31-06 1503*
Relinquished By *[Signature]* Date/Time: *8-31-06 1935*
Received By *[Signature]* Date/Time: *8/31/06 1935*
Relinquished By *[Signature]* Date/Time: _____
Received By _____ Date/Time: _____

DN 2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/19/06 09:16

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3323-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3323

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.16	1	09/07/06	09/11/06	
Sample ID: IPH3323-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.53	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	5.5	1	09/07/06	09/11/06	B
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.88	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	1.5	1	09/06/06	09/07/06	
Manganese	EPA 200.7	6I07086	7.0	20	230	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05071	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	ND	1	09/07/06	09/11/06	

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Sampled: 08/31/06
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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3323-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.54	1	09/05/06	09/05/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	1.4	1	09/05/06	09/05/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	0.040	1	09/05/06	09/05/06	J
Manganese	EPA 200.7-Diss	6I05101	7.0	20	96	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	3.3	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/05/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/05/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

TestAmerica - Irvine, CA
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 Report Number: IPH3323

Sampled: 08/31/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3323-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	3.6	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.84	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	220	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06083	10	10	390	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	11	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3323

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	4.8	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	7.78	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3323-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	640	1	09/06/06	09/06/06	

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Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPH3323-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 09:30	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 09:30	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 09:30	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 00:37
Filtration	1	08/31/2006 09:30	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05071 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05071-BLK1)											
Mercury	ND	0.20	0.050	ug/l							
LCS Analyzed: 09/05/2006 (6I05071-BS1)											
Mercury	7.88	0.20	0.050	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05071-MS1)											
						Source: IPI0083-02					
Mercury	7.77	0.20	0.050	ug/l	8.00	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05071-MSD1)											
						Source: IPI0083-02					
Mercury	7.80	0.20	0.050	ug/l	8.00	ND	98	70-130	0	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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 Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3323

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		Source: IPH3322-01 5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		Source: IPH3331-01 4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		Source: IPH3305-01 1100			3	5	
<u>Batch: 6I06083 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06083-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06083 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06083-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/06/2006 (6I06083-DUP1)											
Total Dissolved Solids	770	10	10	mg/l		Source: IPH3305-01 770			0	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06151 Extracted: 09/06/06											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
Batch: 6I07086 Extracted: 09/07/06											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I07097 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

IPAS 2020

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings:			
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Total Organic Carbon Oil & Grease (EPA 413.1)		Total Kjeldahl Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)		Turbidity, TSS, Conductivity		Ammonia-N (NH ₃ -N) Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn		Temp = 73 pH = 7.4	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #											Comments
LC-EFF	W	Poly-1L	1	8/31/06	HNO3	1											
LC-EFF	W	Poly-1L	1		None	2											
LC-EFF	W	VOAs	2		HCl	3A, 3B											
LC-EFF	W	1L Amber	2		HCl	4A, 4B											
LC-EFF	W	Poly-500 ml	1		H2SO4	5											
LC-EFF	W	Poly-500 ml	1		None	6											
LC-EFF	W	Poly-500 ml	2		None	7A, 7B											
LC-EFF	W	Poly-500 ml	1		H2SO4	8											
LC-EFF	W	Poly-1L	1		None	9											
Relinquished By				8-31-06	Date/Time:	Received By		8-31-06 1503	Date/Time:	Turn around Time: (check)		24 Hours		5 Days	Field readings:		
Relinquished By				8-31-06	Date/Time:	Received By		8-31-06 1935	Date/Time:	48 Hours		10 Days	Temp = 73				
Relinquished By				8-31-06	Date/Time:	Received By		8-31-06 1935	Date/Time:	72 Hours		Normal	pH = 7.4				
Relinquished By					Date/Time:	Received By			Date/Time:	Perchlorate Only 72 Hours		Metals Only 72 Hours		Sample Integrity: (Check)			
					Date/Time:				Date/Time:	Intact		On Ice:		6°C			

DN2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Revised: 09/22/06 16:34

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3324-01

CLIENT ID

S-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3324

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.069	1	09/07/06	09/11/06	
Sample ID: IPH3324-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.47	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.77	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.056	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07086	7.0	20	27	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05071	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	ND	1	09/07/06	09/11/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3324-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.46	1	09/05/06	09/05/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	1.1	1	09/05/06	09/05/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/05/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.2	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/05/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/05/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	1.0	1	09/06/06	09/06/06	
Sample ID: IPH3324-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	2.8	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	2.5	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	220	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	89	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	380	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	10	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	3.7	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	7.86	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3324-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	650	1	09/06/06	09/06/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3324

Sampled: 08/31/06
 Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: S-EFF (IPH3324-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:15	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 01:18
Filtration	1	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 R-2A Pond Pilot Test
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05071 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05071-BLK1)											
Mercury	ND	0.20	0.050	ug/l							
LCS Analyzed: 09/05/2006 (6I05071-BS1)											
Mercury	7.88	0.20	0.050	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05071-MS1)											
						Source: IPI0083-02					
Mercury	7.77	0.20	0.050	ug/l	8.00	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05071-MSD1)											
						Source: IPI0083-02					
Mercury	7.80	0.20	0.050	ug/l	8.00	ND	98	70-130	0	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3324

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
<u>Batch: 6I07086 Extracted: 09/07/06</u>											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I07097 Extracted: 09/07/06</u>											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

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 R-2A Pond Pilot Test
 Report Number: IPH3324

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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R-2A Pond Pilot Test
Report Number: IPH3324

Sampled: 08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH3324

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **BANAGAN**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*	Zn	Field readings: Temp = 7.5 pH = 7.5	Comments
S-EFF	W	Poly-1L	1	8/29/06	HNO3	1	X												
S-EFF	W	Poly-1L	1		None	2		X											
S-EFF	W	VOAS	2		HCl	3A, 3B				X									
S-EFF	W	1L Amber	2		HCl	4A, 4B					X								
S-EFF	W	Poly-500 ml	1		H2SO4	5						X							
S-EFF	W	Poly-500 ml	1		None	6							X						
S-EFF	W	Poly-500 ml	2		None	7A, 7B								X					
S-EFF	W	Poly-500 ml	1	8/29/06	H2SO4	8									X				
S-EFF	W	Poly-1L	1		None	9										X			

Relinquished By: *[Signature]* Date/Time: 8-31-06 Date/Time: 1503
 Received By: *[Signature]* Date/Time: 8-31-06 Date/Time: 1503

Relinquished By: *[Signature]* Date/Time: 8-31-06 Date/Time: 1935
 Received By: *[Signature]* Date/Time: 8/29/06 Date/Time: 1935

Relinquished By: *[Signature]* Date/Time: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Turn around Time: (check) 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity - (Check) Intact _____ On Ice: _____

DN2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/19/06 09:24

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3325-01

CLIENT ID

S-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.055	1	09/07/06	09/11/06	
Sample ID: IPH3325-01 (S-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.43	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.86	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.042	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07086	7.0	20	26	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05071	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	18	1	09/07/06	09/11/06	J

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 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3325-01 (S-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.43	1	09/05/06	09/05/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	1.3	1	09/05/06	09/05/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/05/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.6	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/05/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/05/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/05/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	1.0	1	09/06/06	09/06/06	
Sample ID: IPH3325-01 (S-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	1.1	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.56	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	220	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	350	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	11	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	2.3	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	7.88	1	09/01/06	09/01/06	

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 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3325-01 (S-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	600	1	09/06/06	09/06/06	

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R-2A Pond Pilot Test
Report Number: IPH3325

Sampled: 08/31/06
Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: S-DUP-EFF (IPH3325-01) - Water					
EPA 150.1	1	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:15	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 01:58
Filtration	1	08/31/2006 08:15	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05071 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05071-BLK1)											
Mercury	ND	0.20	0.050	ug/l							
LCS Analyzed: 09/05/2006 (6I05071-BS1)											
Mercury	7.88	0.20	0.050	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05071-MS1)											
						Source: IPI0083-02					
Mercury	7.77	0.20	0.050	ug/l	8.00	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05071-MSD1)											
						Source: IPI0083-02					
Mercury	7.80	0.20	0.050	ug/l	8.00	ND	98	70-130	0	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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R-2A Pond Pilot Test
Report Number: IPH3325

Sampled: 08/31/06
Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		Source: IPH3322-01 5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		Source: IPH3331-01 4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		Source: IPH3305-01 1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
<u>Batch: 6I07086 Extracted: 09/07/06</u>											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I07097 Extracted: 09/07/06</u>											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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R-2A Pond Pilot Test
Report Number: IPH3325

Sampled: 08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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 R-2A Pond Pilot Test
 Report Number: IPH3325

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

1113305

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings:	
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness		Temp = 75 pH = 7.5	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Comments
S-DUP-EFF	W	Poly-1L	1	8/13/06	HNO3	1	
S-DUP-EFF	W	Poly-1L	1		None	2	
S-DUP-EFF	W	VOAs	2		HCl	3A, 3B	
S-DUP-EFF	W	1L Amber	2		HCl	4A, 4B	
S-DUP-EFF	W	Poly-500 ml	1		H2SO4	5	
S-DUP-EFF	W	Poly-500 ml	1		None	6	
S-DUP-EFF	W	Poly-500 ml	2		None	7A, 7B	
S-DUP-EFF	W	Poly-500 ml	1		H2SO4	8	
S-DUP-EFF	W	Poly-1L	1	8/13/06	None	9	
				Relinquished By: <i>[Signature]</i>	Date/Time: 8-31-06	Received By: <i>[Signature]</i>	Date/Time: 8-31-06
				Relinquished By: <i>[Signature]</i>	Date/Time: 8-31-06	Received By: <i>[Signature]</i>	Date/Time: 8/31/06
				Relinquished By: <i>[Signature]</i>	Date/Time: 8-31-06	Received By: <i>[Signature]</i>	Date/Time: 8/31/06

Turn around Time: (check)	24 Hours	5 Days	7503
48 Hours	10 Days		
72 Hours	Normal		
Perchlorate Only 72 Hours			
Metals Only 72 Hours			
Sample Integrity: (Check)	Intact		60

DN2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/22/06 16:25

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3326-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.091	1	09/07/06	09/11/06	
Sample ID: IPH3326-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.44	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.87	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.054	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07086	7.0	20	22	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	32	1	09/07/06	09/11/06	

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3326-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.49	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	3.7	1	09/05/06	09/06/06	
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.3	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	0.43	1	09/05/06	09/06/06	J
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3326-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	0.84	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	190	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.56	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	220	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	350	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	11	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	3.1	1	09/01/06	09/01/06	

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Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	7.99	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3326-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	610	1	09/06/06	09/06/06	

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R-2A Pond Pilot Test
Report Number: IPH3326

Sampled: 08/31/06
Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Z-EFF (IPH3326-01) - Water					
EPA 150.1	1	08/31/2006 07:55	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 07:55	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 07:55	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 02:39
Filtration	1	08/31/2006 07:55	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							J
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06151 Extracted: 09/06/06											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
Batch: 6I07086 Extracted: 09/07/06											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I07097 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3326

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IP13326

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		ANALYSIS REQUIRED										Field readings: Temp = 75 pH = 7.6	
Project Manager: Bronwyn Kelly Sampler: BANIA GR		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515												Comments	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldhal Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate- N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn
Z-EFF	W	Poly-1L	1	8/31/06 0755	HNO3	1	X								
Z-EFF	W	Poly-1L	1		None	2		X							
Z-EFF	W	VOAs	2		HCl	3A, 3B			X						
Z-EFF	W	1L Amber	2		HCl	4A, 4B			X						
Z-EFF	W	Poly-500 ml	1		H2SO4	5			X						
Z-EFF	W	Poly-500 ml	1		None	6				X					
Z-EFF	W	Poly-500 ml	2		None	7A, 7B					X				
Z-EFF	W	Poly-500 ml	1		H2SO4	8						X			
Z-EFF	W	Poly-1L	1	8/31/06	None	9								X	
Relinquished By: <i>[Signature]</i> Date/Time: 8-31-06 1503				Received By: <i>[Signature]</i> Date/Time: 8/31/06 1503								Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____			
Relinquished By: <i>[Signature]</i> Date/Time: 8-31-06 1935				Received By: <i>[Signature]</i> Date/Time: 8/31/06 1935								Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: <u>65</u>			
Relinquished By: _____ Date/Time: _____				Received By: _____ Date/Time: _____											

DN2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/25/06 08:36

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3327-01

CLIENT ID

PT-INF2

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3327

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07086	0.015	0.040	0.36	1	09/07/06	09/11/06	
Sample ID: IPH3327-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.44	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07086	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07086	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07086	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.93	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.21	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07086	7.0	20	110	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07086	2.0	10	2.7	1	09/07/06	09/11/06	J
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07086	15	20	19	1	09/07/06	09/11/06	J

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 R-2A Pond Pilot Test
 Report Number: IPH3327

Sampled: 08/31/06
 Received: 08/31/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3327-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.45	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	ND	1	09/05/06	09/22/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.70	1	09/05/06	09/06/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.2	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	0.33	1	09/05/06	09/06/06	J
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3327

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.99	1	09/06/06	09/06/06	
Sample ID: IPH3327-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	2.5	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	190	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	2.2	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07086	1.0	1.0	240	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	350	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I06151	0.50	1.0	14	1	09/06/06	09/06/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	6.0	1	09/01/06	09/01/06	

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R-2A Pond Pilot Test
Report Number: IPH3327

Sampled: 08/31/06
Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.45	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3327-01 (PT-INF2 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	600	1	09/06/06	09/06/06	

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R-2A Pond Pilot Test
Report Number: IPH3327

Sampled: 08/31/06
Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF2 (IPH3327-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 07:50	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 07:50	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 07:50	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 04:01
Filtration	1	08/31/2006 07:50	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	

Batch: 6I07086 Extracted: 09/07/06

Blank Analyzed: 09/09/2006 (6I07086-BLK1)

Arsenic	4.54	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

J

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 R-2A Pond Pilot Test
 Report Number: IPH3327

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07086 Extracted: 09/07/06											
LCS Analyzed: 09/09/2006 (6I07086-BS1)											
Arsenic	496	5.0	4.4	ug/l	500		99	85-115			
Beryllium	485	2.0	0.90	ug/l	500		97	85-115			
Chromium	477	5.0	2.0	ug/l	500		95	85-115			
Iron	0.486	0.040	0.015	mg/l	0.500		97	85-115			
Manganese	495	20	7.0	ug/l	500		99	85-115			
Nickel	482	10	2.0	ug/l	500		96	85-115			
Zinc	486	20	15	ug/l	500		97	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS1) Source: IPI0387-01											
Arsenic	505	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	486	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	472	5.0	2.0	ug/l	500	2.4	94	70-130			
Iron	0.511	0.040	0.015	mg/l	0.500	0.031	96	70-130			
Manganese	482	20	7.0	ug/l	500	ND	96	70-130			
Nickel	468	10	2.0	ug/l	500	2.0	93	70-130			
Zinc	504	20	15	ug/l	500	22	96	70-130			
Matrix Spike Analyzed: 09/09/2006 (6I07086-MS2) Source: IPI0388-01											
Arsenic	506	5.0	4.4	ug/l	500	ND	101	70-130			
Beryllium	487	2.0	0.90	ug/l	500	ND	97	70-130			
Chromium	476	5.0	2.0	ug/l	500	2.5	95	70-130			
Iron	0.518	0.040	0.015	mg/l	0.500	0.042	95	70-130			
Manganese	481	20	7.0	ug/l	500	ND	96	70-130			
Nickel	463	10	2.0	ug/l	500	ND	93	70-130			
Zinc	491	20	15	ug/l	500	19	94	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I07086-MSD1) Source: IPI0387-01											
Arsenic	498	5.0	4.4	ug/l	500	ND	100	70-130	1	20	
Beryllium	478	2.0	0.90	ug/l	500	ND	96	70-130	2	20	
Chromium	468	5.0	2.0	ug/l	500	2.4	93	70-130	1	20	
Iron	0.500	0.040	0.015	mg/l	0.500	0.031	94	70-130	2	20	
Manganese	472	20	7.0	ug/l	500	ND	94	70-130	2	20	
Nickel	454	10	2.0	ug/l	500	2.0	90	70-130	3	20	
Zinc	486	20	15	ug/l	500	22	93	70-130	4	20	

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R-2A Pond Pilot Test
Report Number: IPH3327

Sampled: 08/31/06
Received: 08/31/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	ND	99	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	ND	99	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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Sampled: 08/31/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06151-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06151 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06151-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06151-MS1) Source: IPH3308-04											
Total Organic Carbon	5.94	1.0	0.50	mg/l	5.00	ND	119	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06151-MSD1) Source: IPH3308-04											
Total Organic Carbon	6.13	1.0	0.50	mg/l	5.00	ND	123	80-120	3	20	MI
<u>Batch: 6I07086 Extracted: 09/07/06</u>											
Blank Analyzed: 09/09/2006 (6I07086-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6I07097 Extracted: 09/07/06</u>											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1) Source: IPH2927-02											
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MI** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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19/03/21

CHAIN OF CUSTODY FORM

Del Mar Analytical
Version 04/28/06

Client Name/Address
Project: Boeing-SSFL BMP/PPDES
R-2A Pond Filtration Pilot Test

MWH-Pasadena
300 North Lake Avenue Suite 1200
Pasadena CA 91101
Project Manager: Bronwyn Kelly

Phone Number:
(626) 568-6697
Fax Number:
(626) 568-6515

Sampler: *Bronwyn Kelly*

Field readings
Temp: 77
pH: 8.2

ANALYSIS REQUIRED

- Total Recoverable Metals (As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Zn)
- Total Dissolved Metals (As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Zn)
- Ammonia-N (NH3-N)
- Conductivity
- Turbidity TSS
- N Nitrite-N (NO2-N)
- SO4, NO3+NO2-N Nitrate
- Total Kjeldahl Nitrogen
- Oil & Grease (EPA 413.1)
- Total Organic Carbon
- (ASTM Method)
- Sediments Concentration
- Alkalinity, Suspended
- Total Dissolved Solids, pH
- Zn, Hardness
- Total Recoverable Metals (As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Zn)

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservative	Bottle #	Field readings	Comments
PT-INF2	W	Poly-1L	1	8/31/06 1935	HNO3	1	X	
PT-INF2	W	Poly-1L	1		None	2		
PT-INF2	W	VCA's	2		HCl	3A, 3B		
PT-INF2	W	1L Amber	2		HCl	4A, 4B		
PT-INF2	W	Poly-500 ml	1		H2SO4	5		
PT-INF2	W	Poly-500 ml	1		None	6		
PT-INF2	W	Poly-500 ml	2		None	7A, 7B		
PT-INF2	W	Poly-500 ml	1		H2SO4	8		
PT-INF2	W	Poly-1L	1	8/31/06 1935	None	9		

Relinquished By: *Ri Han* Date/Time: 8-31-06 1503
 Received By: *[Signature]* Date/Time: 8/31/06 1503

Relinquished By: *[Signature]* Date/Time: 1935
 Received By: *[Signature]* Date/Time: 8/31/06 1935

Relinquished By: *[Signature]* Date/Time: _____
 Received By: _____ Date/Time: _____

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) Intact _____ On Ice: *SC*

DN210C

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/19/06 09:53

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID
IPH3328-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3328

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07106	0.015	0.040	0.25	1	09/07/06	09/11/06	
Sample ID: IPH3328-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.43	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07106	4.4	5.0	7.9	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07106	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07106	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	9.0	1	09/06/06	09/07/06	
Lead	EPA 200.8	6I06131	0.040	1.0	0.20	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07106	7.0	20	83	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07106	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07106	15	20	ND	1	09/07/06	09/11/06	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3328-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.46	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	6.3	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.72	1	09/05/06	09/06/06	J, B
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.5	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/06/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3328-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	10	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I07097	0.43	0.50	1.4	1	09/07/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.84	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07106	1.0	1.0	200	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	89	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	370	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I07128	0.50	1.0	14	1	09/07/06	09/07/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	10	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	5.7	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.49	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3328-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	610	1	09/06/06	09/06/06	

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Sampled: 08/31/06
Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF (IPH3328-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 07:40	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 07:40	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 07:40	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 04:41
Filtration	1	08/31/2006 07:40	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/11/2006 (6I07106-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	19.4	20	15	ug/l							J

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07106 Extracted: 09/07/06											
LCS Analyzed: 09/11/2006 (6I07106-BS1)											
Arsenic	473	5.0	4.4	ug/l	500		95	85-115			
Beryllium	479	2.0	0.90	ug/l	500		96	85-115			
Chromium	470	5.0	2.0	ug/l	500		94	85-115			
Iron	0.476	0.040	0.015	mg/l	0.500		95	85-115			
Manganese	472	20	7.0	ug/l	500		94	85-115			
Nickel	462	10	2.0	ug/l	500		92	85-115			
Zinc	473	20	15	ug/l	500		95	85-115			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS1) Source: IPH3328-01											
Arsenic	499	5.0	4.4	ug/l	500	7.9	98	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	459	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	0.726	0.040	0.015	mg/l	0.500	0.25	95	70-130			
Manganese	559	20	7.0	ug/l	500	83	95	70-130			
Nickel	447	10	2.0	ug/l	500	ND	89	70-130			
Zinc	470	20	15	ug/l	500	ND	94	70-130			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS2) Source: IPH3329-01											
Arsenic	501	5.0	4.4	ug/l	500	6.8	99	70-130			
Beryllium	498	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	482	5.0	2.0	ug/l	500	ND	96	70-130			
Iron	0.580	0.040	0.015	mg/l	0.500	0.094	97	70-130			
Manganese	503	20	7.0	ug/l	500	27	95	70-130			
Nickel	469	10	2.0	ug/l	500	ND	94	70-130			
Zinc	506	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 09/11/2006 (6I07106-MSD1) Source: IPH3328-01											
Arsenic	495	5.0	4.4	ug/l	500	7.9	97	70-130	1	20	
Beryllium	494	2.0	0.90	ug/l	500	ND	99	70-130	1	20	
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130	3	20	
Iron	0.744	0.040	0.015	mg/l	0.500	0.25	99	70-130	2	20	
Manganese	559	20	7.0	ug/l	500	83	95	70-130	0	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	3	20	
Zinc	477	20	15	ug/l	500	ND	95	70-130	1	20	

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R-2A Pond Pilot Test
Report Number: IPH3328

Sampled: 08/31/06
Received: 08/31/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH3328

Sampled: 08/31/06
Received: 08/31/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I07097 Extracted: 09/07/06</u>											
Blank Analyzed: 09/08/2006 (6I07097-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07097 Extracted: 09/07/06											
LCS Analyzed: 09/08/2006 (6I07097-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I07097-BSD1)											
Total Kjeldahl Nitrogen	19.3	0.50	0.43	mg/l	20.0		96	85-120	2	15	
Matrix Spike Analyzed: 09/08/2006 (6I07097-MS1)											
						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.5	0.50	0.43	mg/l	10.0	1.1	104	85-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I07097-MSD1)											
						Source: IPH2927-02					
Total Kjeldahl Nitrogen	11.8	0.50	0.43	mg/l	10.0	1.1	107	85-120	3	15	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/12/2006 (6I07106-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I07128 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07128-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/07/2006 (6I07128-BS1)											
Total Organic Carbon	10.9	1.0	0.50	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 09/07/2006 (6I07128-MS1)											
						Source: IPH3311-01					
Total Organic Carbon	11.0	1.0	0.50	mg/l	5.00	5.7	106	80-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07128 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/07/2006 (6I07128-MSD1)						Source: IPH3311-01					
Total Organic Carbon	11.3	1.0	0.50	mg/l	5.00	5.7	112	80-120	3	20	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IP13328

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED										Field readings:			
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals	Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413 1)	Total Kjeldhal Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals	Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #											Temp = 74
PT-INF	W	Poly-1L	1	8-31-06 8:40	HNO3	1	X										pH= 8.3
PT-INF	W	Poly-1L	1	8-31-06 8:40	None	2	X										
PT-INF	W	VOAs	2		HCl	3A, 3B		X									
PT-INF	W	1L Amber	2		HCl	4A, 4B		X									
PT-INF	W	Poly-500 ml	1		H2SO4	5			X								
PT-INF	W	Poly-500 ml	1		None	6				X							
PT-INF	W	Poly-500 ml	2		None	7A, 7B					X						
PT-INF	W	Poly-500 ml	1		H2SO4	8						X					
PT-INF	W	Poly-1L	1	8-31-06 8:40	None	9							X				
Relinquished By: [Signature]				Date/Time: 8-31-06 1503	Received By: [Signature]				Date/Time: 8/31/06 1503	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>							
Relinquished By: [Signature]				Date/Time: 8-31-06 1935	Received By: [Signature]				Date/Time: 8/31/06 1935	Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: <input checked="" type="checkbox"/>							
Relinquished By: [Signature]				Date/Time: _____	Received By: _____				Date/Time: _____								

DN2100

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/19/06 10:03

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID
IPH3329-01

CLIENT ID
AC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07106	0.015	0.040	0.094	1	09/07/06	09/11/06	
Sample ID: IPH3329-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.43	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07106	4.4	5.0	6.8	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07106	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07106	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.73	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.065	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07106	7.0	20	27	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07106	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07106	15	20	ND	1	09/07/06	09/11/06	B

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3329-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.46	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	6.0	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.64	1	09/05/06	09/06/06	J, B
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.1	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	ND	1	09/05/06	09/06/06	
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3329-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	ND	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I08110	0.43	0.50	2.2	1	09/08/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.84	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07106	1.0	1.0	210	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	89	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	360	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I07128	0.50	1.0	9.1	1	09/07/06	09/07/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	ND	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	3.4	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.37	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3329-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	610	1	09/06/06	09/06/06	

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Sampled: 08/31/06
 Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: AC-EFF (IPH3329-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	08/31/2006 08:00	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:00	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:00	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 05:22
Filtration	1	08/31/2006 08:00	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/11/2006 (6I07106-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	19.4	20	15	ug/l							J

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07106 Extracted: 09/07/06											
LCS Analyzed: 09/11/2006 (6I07106-BS1)											
Arsenic	473	5.0	4.4	ug/l	500		95	85-115			
Beryllium	479	2.0	0.90	ug/l	500		96	85-115			
Chromium	470	5.0	2.0	ug/l	500		94	85-115			
Iron	0.476	0.040	0.015	mg/l	0.500		95	85-115			
Manganese	472	20	7.0	ug/l	500		94	85-115			
Nickel	462	10	2.0	ug/l	500		92	85-115			
Zinc	473	20	15	ug/l	500		95	85-115			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS1) Source: IPH3328-01											
Arsenic	499	5.0	4.4	ug/l	500	7.9	98	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	459	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	0.726	0.040	0.015	mg/l	0.500	0.25	95	70-130			
Manganese	559	20	7.0	ug/l	500	83	95	70-130			
Nickel	447	10	2.0	ug/l	500	ND	89	70-130			
Zinc	470	20	15	ug/l	500	ND	94	70-130			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS2) Source: IPH3329-01											
Arsenic	501	5.0	4.4	ug/l	500	6.8	99	70-130			
Beryllium	498	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	482	5.0	2.0	ug/l	500	ND	96	70-130			
Iron	0.580	0.040	0.015	mg/l	0.500	0.094	97	70-130			
Manganese	503	20	7.0	ug/l	500	27	95	70-130			
Nickel	469	10	2.0	ug/l	500	ND	94	70-130			
Zinc	506	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 09/11/2006 (6I07106-MSD1) Source: IPH3328-01											
Arsenic	495	5.0	4.4	ug/l	500	7.9	97	70-130	1	20	
Beryllium	494	2.0	0.90	ug/l	500	ND	99	70-130	1	20	
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130	3	20	
Iron	0.744	0.040	0.015	mg/l	0.500	0.25	99	70-130	2	20	
Manganese	559	20	7.0	ug/l	500	83	95	70-130	0	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	3	20	
Zinc	477	20	15	ug/l	500	ND	95	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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 R-2A Pond Pilot Test
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Sampled: 08/31/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I07106 Extracted: 09/07/06</u>											
Blank Analyzed: 09/12/2006 (6I07106-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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Sampled: 08/31/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07128 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07128-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/07/2006 (6I07128-BS1)											
Total Organic Carbon	10.9	1.0	0.50	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 09/07/2006 (6I07128-MS1)											
						Source: IPH3311-01					
Total Organic Carbon	11.0	1.0	0.50	mg/l	5.00	5.7	106	80-120			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07128-MSD1)											
						Source: IPH3311-01					
Total Organic Carbon	11.3	1.0	0.50	mg/l	5.00	5.7	112	80-120	3	20	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I08110 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08110-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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 R-2A Pond Pilot Test
 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08110 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08110-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I08110-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/08/2006 (6I08110-MS1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.56	106	85-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08110-MSD1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)											
						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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300 North Lake Avenue, Suite 1200
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPH3329

Sampled: 08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH3329

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IPH3029

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings:								
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness		Temp = 73 pH = 8.1								
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn	Comments
AC-EFF	W	Poly-1L	1	8/31/06 0500	HNO3	1	X							
AC-EFF	W	Poly-1L	1		None	2	X							
AC-EFF	W	VOAs	2		HCl	3A, 3B		X						
AC-EFF	W	1L Amber	2		HCl	4A, 4B		X						
AC-EFF	W	Poly-500 ml	1		H2SO4	5			X					
AC-EFF	W	Poly-500 ml	1		None	6				X				
AC-EFF	W	Poly-500 ml	2		None	7A, 7B					X			
AC-EFF	W	Poly-500 ml	1		H2SO4	8						X		
AC-EFF	W	Poly-1L	1	8/31/06	None	9							X	
Relinquished By	8-31-06	Date/Time:	1503	Received By	8-31-06	Date/Time:	1505	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____						
Relinquished By	8-31-06	Date/Time:	1935	Received By	8/31/06	Date/Time:	1935	Sample Integrity: (Check) Intact _____ On Ice: _____						
Relinquished By		Date/Time:		Received By		Date/Time:		DN2200						

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/22/06 16:46

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3330-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3330

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07106	0.015	0.040	0.24	1	09/07/06	09/11/06	
Sample ID: IPH3330-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.38	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07106	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07106	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Chromium	EPA 200.7	6I07106	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	0.84	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.15	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07106	7.0	20	110	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07106	2.0	10	ND	1	09/07/06	09/11/06	
Selenium	EPA 200.8	6I06131	0.30	2.0	ND	1	09/06/06	09/07/06	
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07106	15	20	71	1	09/07/06	09/11/06	B

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 Report Number: IPH3330

Sampled: 08/31/06
 Received: 08/31/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3330-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.40	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	7.1	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.79	1	09/05/06	09/06/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.5	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	0.30	1	09/05/06	09/06/06	J
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3330

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.98	1	09/06/06	09/06/06	
Sample ID: IPH3330-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	10	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I08110	0.43	0.50	4.2	1	09/08/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.84	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07106	1.0	1.0	210	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	87	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	360	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I07128	0.50	1.0	12	1	09/07/06	09/07/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	10	1	09/06/06	09/06/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	4.6	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.08	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3330-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	620	1	09/06/06	09/06/06	

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Received: 08/31/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: BST-EFF (IPH3330-01) - Water					
EPA 150.1	1	08/31/2006 08:05	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:05	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:05	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 06:03
Filtration	1	08/31/2006 08:05	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/11/2006 (6I07106-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	19.4	20	15	ug/l							J

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07106 Extracted: 09/07/06											
LCS Analyzed: 09/11/2006 (6I07106-BS1)											
Arsenic	473	5.0	4.4	ug/l	500		95	85-115			
Beryllium	479	2.0	0.90	ug/l	500		96	85-115			
Chromium	470	5.0	2.0	ug/l	500		94	85-115			
Iron	0.476	0.040	0.015	mg/l	0.500		95	85-115			
Manganese	472	20	7.0	ug/l	500		94	85-115			
Nickel	462	10	2.0	ug/l	500		92	85-115			
Zinc	473	20	15	ug/l	500		95	85-115			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS1)						Source: IPH3328-01					
Arsenic	499	5.0	4.4	ug/l	500	7.9	98	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	459	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	0.726	0.040	0.015	mg/l	0.500	0.25	95	70-130			
Manganese	559	20	7.0	ug/l	500	83	95	70-130			
Nickel	447	10	2.0	ug/l	500	ND	89	70-130			
Zinc	470	20	15	ug/l	500	ND	94	70-130			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS2)						Source: IPH3329-01					
Arsenic	501	5.0	4.4	ug/l	500	6.8	99	70-130			
Beryllium	498	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	482	5.0	2.0	ug/l	500	ND	96	70-130			
Iron	0.580	0.040	0.015	mg/l	0.500	0.094	97	70-130			
Manganese	503	20	7.0	ug/l	500	27	95	70-130			
Nickel	469	10	2.0	ug/l	500	ND	94	70-130			
Zinc	506	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 09/11/2006 (6I07106-MSD1)						Source: IPH3328-01					
Arsenic	495	5.0	4.4	ug/l	500	7.9	97	70-130	1	20	
Beryllium	494	2.0	0.90	ug/l	500	ND	99	70-130	1	20	
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130	3	20	
Iron	0.744	0.040	0.015	mg/l	0.500	0.25	99	70-130	2	20	
Manganese	559	20	7.0	ug/l	500	83	95	70-130	0	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	3	20	
Zinc	477	20	15	ug/l	500	ND	95	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3330

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I01070 Extracted: 09/01/06											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
Batch: 6I02046 Extracted: 09/02/06											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
Batch: 6I06080 Extracted: 09/06/06											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
Batch: 6I06084 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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Sampled: 08/31/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I07106 Extracted: 09/07/06</u>											
Blank Analyzed: 09/12/2006 (6I07106-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07128 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07128-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/07/2006 (6I07128-BS1)											
Total Organic Carbon	10.9	1.0	0.50	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 09/07/2006 (6I07128-MS1)											
						Source: IPH3311-01					
Total Organic Carbon	11.0	1.0	0.50	mg/l	5.00	5.7	106	80-120			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07128-MSD1)											
						Source: IPH3311-01					
Total Organic Carbon	11.3	1.0	0.50	mg/l	5.00	5.7	112	80-120	3	20	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I08110 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08110-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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 Report Number: IPH3330

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08110 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08110-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I08110-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/08/2006 (6I08110-MS1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.56	106	85-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08110-MSD1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)											
						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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R-2A Pond Pilot Test
Report Number: IPH3330

Sampled: 08/31/06
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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPH3330

Sampled: 08/31/06
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

IPH13360

Version 0.4/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings			
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness		Temp = 74 pH = 7.9			
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Comments			
Sampler: BANIA GA		Fax Number: (626) 568-6515		Oil & Grease (EPA 413.1)					
Sample Description	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	Total Kjeldahl Nitrogen	Sulfate (SO4), Nitrite-Nitrate (NO2-N, NO3-N), Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn
BST-EFF	W	Poly-1L	1	HNO3	1				
BST-EFF	W	Poly-1L	1	None	2				
BST-EFF	W	VOAs	2	HCl	3A, 3B				
BST-EFF	W	1L Amber	2	HCl	4A, 4B				
BST-EFF	W	Poly-500 ml	1	H2SO4	5				
BST-EFF	W	Poly-500 ml	1	None	6		X		
BST-EFF	W	Poly-500 ml	2	None	7A, 7B				
BST-EFF	W	Poly-500 ml	1	H2SO4	8			X	
BST-EFF	W	Poly-1L	1	None	9				X
Relinquished By	8-31-06	Date/Time:	Received By	8-31-06	Date/Time:	Turn around Time: (check)	24 Hours	5 Days	
Relinquished By	8-31-06	Date/Time:	Received By	8-31-06	Date/Time:	48 Hours	10 Days	Normal	
Relinquished By	8-31-06	Date/Time:	Received By	8-31-06	Date/Time:	72 Hours	Perchlorate Only 72 Hours		
				Metals Only 72 Hours					
				Sample Integrity (Check) Intact				On Ice: 65	

DN210C

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 08/31/06
Received: 08/31/06
Issued: 09/22/06 16:53

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPH3331-01

CLIENT ID

P-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3331

Sampled: 08/31/06
 Received: 08/31/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I07106	0.015	0.040	0.26	1	09/07/06	09/11/06	
Sample ID: IPH3331-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I06131	0.050	2.0	0.43	1	09/06/06	09/07/06	J
Arsenic	EPA 200.7	6I07106	4.4	5.0	ND	1	09/07/06	09/11/06	
Beryllium	EPA 200.7	6I07106	0.90	2.0	ND	1	09/07/06	09/11/06	
Cadmium	EPA 200.8	6I06131	0.025	1.0	0.19	1	09/06/06	09/07/06	J
Chromium	EPA 200.7	6I07106	2.0	5.0	ND	1	09/07/06	09/11/06	
Copper	EPA 200.8	6I06131	0.25	2.0	1.0	1	09/06/06	09/07/06	J
Lead	EPA 200.8	6I06131	0.040	1.0	0.19	1	09/06/06	09/07/06	J
Manganese	EPA 200.7	6I07106	7.0	20	120	1	09/07/06	09/11/06	
Mercury	EPA 245.1	6I05073	0.15	0.20	ND	1	09/05/06	09/05/06	
Nickel	EPA 200.7	6I07106	2.0	10	2.6	1	09/07/06	09/11/06	J
Selenium	EPA 200.8	6I06131	0.30	2.0	0.33	1	09/06/06	09/07/06	J
Silver	EPA 200.8	6I06131	0.025	1.0	ND	1	09/06/06	09/07/06	
Thallium	EPA 200.8	6I06131	0.15	1.0	ND	1	09/06/06	09/07/06	
Zinc	EPA 200.7	6I07106	15	20	190	1	09/07/06	09/11/06	B

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I05101	0.015	0.040	ND	1	09/05/06	09/09/06	
Sample ID: IPH3331-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I05102	0.050	2.0	0.45	1	09/05/06	09/06/06	J
Arsenic	EPA 200.7-Diss	6I05101	4.4	5.0	5.9	1	09/05/06	09/09/06	
Beryllium	EPA 200.7-Diss	6I05101	0.90	2.0	ND	1	09/05/06	09/09/06	
Cadmium	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Chromium	EPA 200.7-Diss	6I05101	2.0	5.0	ND	1	09/05/06	09/09/06	
Copper	EPA 200.8-Diss	6I05102	0.25	2.0	0.79	1	09/05/06	09/06/06	B, J
Lead	EPA 200.8-Diss	6I05102	0.040	1.0	ND	1	09/05/06	09/06/06	
Manganese	EPA 200.7-Diss	6I05101	7.0	20	ND	1	09/05/06	09/09/06	
Mercury	EPA 245.1-Diss	6I06094	0.15	0.20	ND	1	09/06/06	09/06/06	
Nickel	EPA 200.7-Diss	6I05101	2.0	10	2.6	1	09/05/06	09/09/06	J
Selenium	EPA 200.8-Diss	6I05102	0.30	2.0	0.37	1	09/05/06	09/06/06	J
Silver	EPA 200.8-Diss	6I05102	0.025	1.0	ND	1	09/05/06	09/06/06	
Thallium	EPA 200.8-Diss	6I05102	0.15	1.0	ND	1	09/05/06	09/06/06	
Zinc	EPA 200.7-Diss	6I05101	15	20	ND	1	09/05/06	09/09/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I06115	N/A	NA	0.97	1	09/06/06	09/06/06	
Sample ID: IPH3331-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I11090	10	10	12	1	09/11/06	09/11/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I08110	0.43	0.50	3.4	1	09/08/06	09/08/06	
Alkalinity as CaCO3	EPA 310.1	6I12067	2.0	2.0	180	1	09/12/06	09/12/06	
Ammonia-N (Distilled)	EPA 350.2	6I08001	0.30	0.50	0.56	1	09/07/06	09/08/06	
Hardness (as CaCO3)	SM2340B	6I07106	1.0	1.0	210	1	09/07/06	09/11/06	
Nitrate-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Nitrate/Nitrite-N	EPA 300.0	6H31043	0.080	0.15	ND	1	08/31/06	09/01/06	
Oil & Grease	EPA 413.1	6I02046	0.89	4.7	ND	1	09/02/06	09/02/06	
Sulfate	EPA 300.0	6H31043	4.5	5.0	88	10	08/31/06	09/01/06	
Total Dissolved Solids	SM2540C	6I06084	10	10	340	1	09/06/06	09/06/06	
Total Organic Carbon	EPA 415.1	6I07128	0.50	1.0	14	1	09/07/06	09/07/06	
Total Suspended Solids	EPA 160.2	6I06143	10	10	12	1	09/06/06	09/06/06	

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 R-2A Pond Pilot Test
 Report Number: IPH3331

Sampled: 08/31/06
 Received: 08/31/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I01070	0.040	1.0	4.8	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I01068	N/A	NA	8.11	1	09/01/06	09/01/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPH3331-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I06080	N/A	1.0	600	1	09/06/06	09/06/06	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: P-EFF (IPH3331-01) - Water					
EPA 150.1	1	08/31/2006 08:20	08/31/2006 19:35	09/01/2006 06:00	09/01/2006 06:25
EPA 180.1	2	08/31/2006 08:20	08/31/2006 19:35	09/01/2006 07:30	09/01/2006 08:50
EPA 300.0	2	08/31/2006 08:20	08/31/2006 19:35	08/31/2006 20:00	09/01/2006 06:43
Filtration	1	08/31/2006 08:20	08/31/2006 19:35	09/01/2006 20:20	09/01/2006 20:20

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05073 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05073-BS1)											
Mercury	8.10	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05073-MS1)											
						Source: IPI0083-01					
Mercury	6.11	0.20	0.15	ug/l	8.00	ND	76	70-130			
Matrix Spike Dup Analyzed: 09/05/2006 (6I05073-MSD1)											
						Source: IPI0083-01					
Mercury	6.43	0.20	0.15	ug/l	8.00	ND	80	70-130	5	20	
Batch: 6I06131 Extracted: 09/06/06											
Blank Analyzed: 09/07/2006 (6I06131-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I06131-BS1)											
Antimony	80.5	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.4	2.0	0.25	ug/l	80.0		98	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.7	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	82.8	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I06131 Extracted: 09/06/06											
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS1)						Source: IPH3322-01					
Antimony	80.4	2.0	0.050	ug/l	80.0	0.51	100	70-130			
Cadmium	75.9	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	76.6	2.0	0.25	ug/l	80.0	0.79	95	70-130			
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130			
Selenium	80.9	2.0	0.30	ug/l	80.0	ND	101	70-130			
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130			
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/07/2006 (6I06131-MS2)						Source: IPH3323-01					
Antimony	78.5	2.0	0.050	ug/l	80.0	0.53	97	70-130			
Cadmium	75.6	1.0	0.025	ug/l	80.0	ND	94	70-130			
Copper	74.8	2.0	0.25	ug/l	80.0	0.88	92	70-130			
Lead	76.8	1.0	0.040	ug/l	80.0	1.5	94	70-130			
Selenium	78.3	2.0	0.30	ug/l	80.0	ND	98	70-130			
Silver	74.6	1.0	0.025	ug/l	80.0	ND	93	70-130			
Thallium	79.2	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I06131-MSD1)						Source: IPH3322-01					
Antimony	79.7	2.0	0.050	ug/l	80.0	0.51	99	70-130	1	20	
Cadmium	76.2	1.0	0.025	ug/l	80.0	ND	95	70-130	0	20	
Copper	76.2	2.0	0.25	ug/l	80.0	0.79	94	70-130	1	20	
Lead	77.6	1.0	0.040	ug/l	80.0	0.12	97	70-130	0	20	
Selenium	79.4	2.0	0.30	ug/l	80.0	ND	99	70-130	2	20	
Silver	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	0	20	
Thallium	79.8	1.0	0.15	ug/l	80.0	ND	100	70-130	0	20	
Batch: 6I07106 Extracted: 09/07/06											
Blank Analyzed: 09/11/2006 (6I07106-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	19.4	20	15	ug/l							J

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07106 Extracted: 09/07/06											
LCS Analyzed: 09/11/2006 (6I07106-BS1)											
Arsenic	473	5.0	4.4	ug/l	500		95	85-115			
Beryllium	479	2.0	0.90	ug/l	500		96	85-115			
Chromium	470	5.0	2.0	ug/l	500		94	85-115			
Iron	0.476	0.040	0.015	mg/l	0.500		95	85-115			
Manganese	472	20	7.0	ug/l	500		94	85-115			
Nickel	462	10	2.0	ug/l	500		92	85-115			
Zinc	473	20	15	ug/l	500		95	85-115			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS1) Source: IPH3328-01											
Arsenic	499	5.0	4.4	ug/l	500	7.9	98	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Chromium	459	5.0	2.0	ug/l	500	ND	92	70-130			
Iron	0.726	0.040	0.015	mg/l	0.500	0.25	95	70-130			
Manganese	559	20	7.0	ug/l	500	83	95	70-130			
Nickel	447	10	2.0	ug/l	500	ND	89	70-130			
Zinc	470	20	15	ug/l	500	ND	94	70-130			
Matrix Spike Analyzed: 09/11/2006 (6I07106-MS2) Source: IPH3329-01											
Arsenic	501	5.0	4.4	ug/l	500	6.8	99	70-130			
Beryllium	498	2.0	0.90	ug/l	500	ND	100	70-130			
Chromium	482	5.0	2.0	ug/l	500	ND	96	70-130			
Iron	0.580	0.040	0.015	mg/l	0.500	0.094	97	70-130			
Manganese	503	20	7.0	ug/l	500	27	95	70-130			
Nickel	469	10	2.0	ug/l	500	ND	94	70-130			
Zinc	506	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 09/11/2006 (6I07106-MSD1) Source: IPH3328-01											
Arsenic	495	5.0	4.4	ug/l	500	7.9	97	70-130	1	20	
Beryllium	494	2.0	0.90	ug/l	500	ND	99	70-130	1	20	
Chromium	471	5.0	2.0	ug/l	500	ND	94	70-130	3	20	
Iron	0.744	0.040	0.015	mg/l	0.500	0.25	99	70-130	2	20	
Manganese	559	20	7.0	ug/l	500	83	95	70-130	0	20	
Nickel	459	10	2.0	ug/l	500	ND	92	70-130	3	20	
Zinc	477	20	15	ug/l	500	ND	95	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05101 Extracted: 09/05/06											
Blank Analyzed: 09/09/2006 (6I05101-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/09/2006 (6I05101-BS1)											
Arsenic	973	5.0	4.4	ug/l	1000		97	85-115			
Beryllium	961	2.0	0.90	ug/l	1000		96	85-115			
Chromium	968	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.956	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	950	20	7.0	ug/l	1000		95	85-115			
Nickel	953	10	2.0	ug/l	1000		95	85-115			
Zinc	979	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/09/2006 (6I05101-MS1) Source: IPH3332-01											
Arsenic	989	5.0	4.4	ug/l	1000	9.6	98	70-130			
Beryllium	977	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	965	5.0	2.0	ug/l	1000	ND	96	70-130			
Iron	0.948	0.040	0.015	mg/l	1.00	ND	95	70-130			
Manganese	948	20	7.0	ug/l	1000	ND	95	70-130			
Nickel	958	10	2.0	ug/l	1000	2.7	96	70-130			
Zinc	981	20	15	ug/l	1000	ND	98	70-130			
Matrix Spike Dup Analyzed: 09/09/2006 (6I05101-MSD1) Source: IPH3332-01											
Arsenic	992	5.0	4.4	ug/l	1000	9.6	98	70-130	0	20	
Beryllium	975	2.0	0.90	ug/l	1000	ND	98	70-130	0	20	
Chromium	963	5.0	2.0	ug/l	1000	ND	96	70-130	0	20	
Iron	0.929	0.040	0.015	mg/l	1.00	ND	93	70-130	2	20	
Manganese	941	20	7.0	ug/l	1000	ND	94	70-130	1	20	
Nickel	935	10	2.0	ug/l	1000	2.7	93	70-130	2	20	
Zinc	958	20	15	ug/l	1000	ND	96	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Blank Analyzed: 09/05/2006 (6I05102-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	0.253	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/05/2006 (6I05102-BS1)											
Antimony	77.4	2.0	0.050	ug/l	80.0		97	85-115			
Cadmium	76.3	1.0	0.025	ug/l	80.0		95	85-115			
Copper	76.3	2.0	0.25	ug/l	80.0		95	85-115			
Lead	76.8	1.0	0.040	ug/l	80.0		96	85-115			
Selenium	75.7	2.0	0.30	ug/l	80.0		95	85-115			
Silver	77.5	1.0	0.025	ug/l	80.0		97	85-115			
Thallium	78.3	1.0	0.15	ug/l	80.0		98	85-115			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS1) Source: IPH3322-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.46	106	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Lead	74.5	1.0	0.040	ug/l	80.0	ND	93	70-130			
Selenium	77.9	2.0	0.30	ug/l	80.0	ND	97	70-130			
Silver	80.6	1.0	0.025	ug/l	80.0	ND	101	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Analyzed: 09/05/2006 (6I05102-MS2) Source: IPH3323-01											
Antimony	85.5	2.0	0.050	ug/l	80.0	0.54	106	70-130			
Cadmium	80.4	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	79.6	2.0	0.25	ug/l	80.0	1.4	98	70-130			
Lead	73.6	1.0	0.040	ug/l	80.0	0.040	92	70-130			
Selenium	76.8	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	81.5	1.0	0.025	ug/l	80.0	ND	102	70-130			
Thallium	76.0	1.0	0.15	ug/l	80.0	ND	95	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I05102 Extracted: 09/05/06											
Matrix Spike Dup Analyzed: 09/05/2006 (6I05102-MSD1)						Source: IPH3322-01					
Antimony	82.1	2.0	0.050	ug/l	80.0	0.46	102	70-130	4	20	
Cadmium	77.4	1.0	0.025	ug/l	80.0	ND	97	70-130	3	20	
Copper	78.0	2.0	0.25	ug/l	80.0	1.1	96	70-130	2	20	
Lead	72.5	1.0	0.040	ug/l	80.0	ND	91	70-130	3	20	
Selenium	76.6	2.0	0.30	ug/l	80.0	ND	96	70-130	2	20	
Silver	78.3	1.0	0.025	ug/l	80.0	ND	98	70-130	3	20	
Thallium	75.2	1.0	0.15	ug/l	80.0	ND	94	70-130	3	20	
Batch: 6I06094 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06094-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/06/2006 (6I06094-BS1)											
Mercury	7.77	0.20	0.15	ug/l	8.00		97	85-115			
Matrix Spike Analyzed: 09/06/2006 (6I06094-MS1)						Source: IPI0112-01					
Mercury	7.14	0.20	0.15	ug/l	8.00	ND	89	70-130			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06094-MSD1)						Source: IPI0112-01					
Mercury	7.01	0.20	0.15	ug/l	8.00	ND	88	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6H31043 Extracted: 08/31/06											
Blank Analyzed: 08/31/2006 (6H31043-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 08/31/2006 (6H31043-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.39	0.15	0.080	mg/l	1.52		91	90-110			
Sulfate	9.64	0.50	0.45	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 08/31/2006 (6H31043-MS1) Source: IPH3279-01											
Nitrate-N	1.33	0.15	0.080	mg/l	1.13	0.095	109	80-120			
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120			
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120			
Matrix Spike Dup Analyzed: 08/31/2006 (6H31043-MSD1) Source: IPH3279-01											
Nitrate-N	1.32	0.15	0.080	mg/l	1.13	0.095	108	80-120	1	20	
Nitrite-N	1.53	0.15	0.080	mg/l	1.52	ND	101	80-120	0	20	
Sulfate	35.1	0.50	0.45	mg/l	10.0	25	101	80-120	0	20	
Batch: 6I01068 Extracted: 09/01/06											
Duplicate Analyzed: 09/01/2006 (6I01068-DUP1) Source: IPH3322-01											
pH	8.02	NA	N/A	pH Units		8.00			0	5	
Duplicate Analyzed: 09/01/2006 (6I01068-DUP2) Source: IPH3330-01											
pH	8.15	NA	N/A	pH Units		8.08			1	5	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPH3331

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I01070 Extracted: 09/01/06</u>											
Blank Analyzed: 09/01/2006 (6I01070-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/01/2006 (6I01070-DUP1)											
Turbidity	4.91	1.0	0.040	NTU		5.0			2	20	
Duplicate Analyzed: 09/01/2006 (6I01070-DUP2)											
Turbidity	4.79	1.0	0.040	NTU		4.8			0	20	
<u>Batch: 6I02046 Extracted: 09/02/06</u>											
Blank Analyzed: 09/02/2006 (6I02046-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/02/2006 (6I02046-BS1)											
Oil & Grease	18.0	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 09/02/2006 (6I02046-BSD1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120	4	20	
<u>Batch: 6I06080 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06080-DUP1)											
Specific Conductance	1130	1.0	N/A	umhos/cm		1100			3	5	
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06084-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							

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Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I06084 Extracted: 09/06/06</u>											
LCS Analyzed: 09/06/2006 (6I06084-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/06/2006 (6I06084-DUP1)											
Total Dissolved Solids	387	10	10	mg/l		Source: IPH3324-01 380			2	10	
<u>Batch: 6I06115 Extracted: 09/06/06</u>											
Duplicate Analyzed: 09/06/2006 (6I06115-DUP1)											
Density	0.998	NA	N/A	g/cc		Source: IPH3322-01 0.98			2	20	
<u>Batch: 6I06143 Extracted: 09/06/06</u>											
Blank Analyzed: 09/06/2006 (6I06143-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/06/2006 (6I06143-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 09/06/2006 (6I06143-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		Source: IPH3323-01 ND				10	
<u>Batch: 6I07106 Extracted: 09/07/06</u>											
Blank Analyzed: 09/12/2006 (6I07106-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07128 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07128-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/07/2006 (6I07128-BS1)											
Total Organic Carbon	10.9	1.0	0.50	mg/l	10.0		109	90-110			
Matrix Spike Analyzed: 09/07/2006 (6I07128-MS1)											
						Source: IPH3311-01					
Total Organic Carbon	11.0	1.0	0.50	mg/l	5.00	5.7	106	80-120			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07128-MSD1)											
						Source: IPH3311-01					
Total Organic Carbon	11.3	1.0	0.50	mg/l	5.00	5.7	112	80-120	3	20	
Batch: 6I08001 Extracted: 09/07/06											
Blank Analyzed: 09/08/2006 (6I08001-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/08/2006 (6I08001-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/08/2006 (6I08001-MS1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	1.1	98	70-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08001-MSD1)											
						Source: IPH3322-01					
Ammonia-N (Distilled)	11.5	0.50	0.30	mg/l	10.0	1.1	104	70-120	5	15	
Batch: 6I08110 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08110-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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 R-2A Pond Pilot Test
 Report Number: IPH3331

Sampled: 08/31/06
 Received: 08/31/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08110 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08110-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/08/2006 (6I08110-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/08/2006 (6I08110-MS1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.56	106	85-120			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08110-MSD1)											
						Source: IPI0012-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6I12067 Extracted: 09/12/06											
Duplicate Analyzed: 09/12/2006 (6I12067-DUP1)											
						Source: IPH3311-14					
Alkalinity as CaCO3	160	2.0	2.0	mg/l		160			0	20	
Reference Analyzed: 09/12/2006 (6I12067-SRM1)											
Alkalinity as CaCO3	224	2.0	2.0	mg/l	231		97	90-110			

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R-2A Pond Pilot Test
Report Number: IPH3331

Sampled: 08/31/06
Received: 08/31/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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 R-2A Pond Pilot Test
 Report Number: IPH3331

Sampled: 08/31/06
 Received: 08/31/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/PPDES R-2A Pond Filtration Pilot Test**

ANALYSIS REQUIRED

Field readings: Temp = 74°
pH = 8.0

Project Manager: **Bronwyn Kelly**
 Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **DANN G K**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate	N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Zn	Comments
P-EFF	W	Poly-1L	1	8/31/06	HNO3	1	X												
P-EFF	W	Poly-1L	1		None	2			X										
P-EFF	W	VOAs	2		HCl	3A, 3B				X									
P-EFF	W	1L Amber	2		HCl	4A, 4B					X								
P-EFF	W	Poly-500 ml	1		H2SO4	5						X							
P-EFF	W	Poly-500 ml	1		None	6							X						
P-EFF	W	Poly-500 ml	2		None	7A, 7B								X					
P-EFF	W	Poly-500 ml	1		H2SO4	8									X				
P-EFF	W	Poly-1L	1	8/31/06	None	9											X		

Relinquished By: *[Signature]* Date/Time: 8-31-06 Date/Time: 8:31:06 1503

Received By: *[Signature]* Date/Time: 8:31:06 1503

Relinquished By: *[Signature]* Date/Time: 8:31:06 1935

Received By: *[Signature]* Date/Time: 8:31:06 1935

Relinquished By: *[Signature]* Date/Time: _____

Received By: _____ Date/Time: _____

Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____

Perchlorate Only 72 Hours _____

Metals Only 72 Hours _____

Sample Integrity: (Check) Intact _____ On Ice:

DN200

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/19/06 14:53

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0370-01

CLIENT ID

AC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.16	1	09/08/06	09/13/06	
Sample ID: IPI0370-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08104	0.050	2.0	0.54	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08104	0.025	1.0	0.027	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08104	0.25	2.0	0.91	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08104	0.040	1.0	0.088	1	09/08/06	09/09/06	J
Manganese	EPA 200.7	6I08100	7.0	20	500	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08104	0.30	2.0	0.34	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08104	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08104	0.15	1.0	ND	1	09/08/06	09/09/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0370-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.38	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	ND	1	09/07/06	09/13/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.65	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.4	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.32	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0370-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	11	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	5.6	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	250	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	4.8	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	260	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	1.0	1	09/07/06	09/07/06	J
Sulfate	EPA 300.0	6I06003	2.2	2.5	130	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	490	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	10	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	11	1	09/12/06	09/12/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6107091	0.040	1.0	8.9	1	09/07/06	09/07/06	

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 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.39	1	09/07/06	09/07/06	

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 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0370-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	900	1	09/11/06	09/11/06	

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R-2A Pond Pilot Test
Report Number: IPI0370

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: AC-EFF (IPI0370-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 08:50	09/06/2006 16:45	09/06/2006 23:30	09/07/2006 02:16
Filtration	1	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1)						Source: IPI0349-01					
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2)						Source: IPI0353-01					
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1)						Source: IPI0349-01					
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

Batch: 6I08104 Extracted: 09/08/06

Blank Analyzed: 09/08/2006-09/09/2006 (6I08104-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08104 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006-09/09/2006 (6I08104-BS1)											
Antimony	79.2	2.0	0.050	ug/l	80.0		99	85-115			
Cadmium	80.0	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.9	2.0	0.25	ug/l	80.0		99	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.9	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.2	1.0	0.025	ug/l	80.0		99	85-115			
Thallium	75.5	1.0	0.15	ug/l	80.0		94	85-115			
Matrix Spike Analyzed: 09/08/2006-09/09/2006 (6I08104-MS1) Source: IPI0368-01											
Antimony	74.6	2.0	0.050	ug/l	80.0	0.54	93	70-130			
Cadmium	72.1	1.0	0.025	ug/l	80.0	ND	90	70-130			
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130			
Lead	68.6	1.0	0.040	ug/l	80.0	0.15	86	70-130			
Selenium	71.9	2.0	0.30	ug/l	80.0	0.39	89	70-130			
Silver	69.7	1.0	0.025	ug/l	80.0	0.030	87	70-130			
Thallium	64.1	1.0	0.15	ug/l	80.0	ND	80	70-130			
Matrix Spike Dup Analyzed: 09/08/2006-09/09/2006 (6I08104-MSD1) Source: IPI0368-01											
Antimony	75.9	2.0	0.050	ug/l	80.0	0.54	94	70-130	2		20
Cadmium	72.8	1.0	0.025	ug/l	80.0	ND	91	70-130	1		20
Copper	71.1	2.0	0.25	ug/l	80.0	1.5	87	70-130	2		20
Lead	69.9	1.0	0.040	ug/l	80.0	0.15	87	70-130	2		20
Selenium	73.4	2.0	0.30	ug/l	80.0	0.39	91	70-130	2		20
Silver	70.9	1.0	0.025	ug/l	80.0	0.030	89	70-130	2		20
Thallium	65.8	1.0	0.15	ug/l	80.0	ND	82	70-130	3		20

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	5.5	103	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	5.5	104	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1)											
						Source: IPI0366-01					
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I13141 Extracted: 09/13/06											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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R-2A Pond Pilot Test
Report Number: IPI0370

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPI0370

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IP10370

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Field readings: Temp = 79 pH = 6.9							
Sampler: BHA-611		Phone Number: (626) 568-6691		Fax Number: (626) 568-6515		Comments									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn
AC-EFF	W	Poly-1L	1	9/6/06	HNO3	1	X								
AC-EFF	W	Poly-1L	1		None	2		X							
AC-EFF	W	VOAs	2		HCl	3A, 3B			X						
AC-EFF	W	1L Amber	2		HCl	4A, 4B				X					
AC-EFF	W	Poly-500 ml	1		H2SO4	5					X				
AC-EFF	W	Poly-500 ml	1		None	6						X			
AC-EFF	W	Poly-500 ml	2		None	7A, 7B							X		
AC-EFF	W	Poly-500 ml	1		H2SO4	8								X	
AC-EFF	W	Poly-1L	1		None	9									X
Relinquished By		9-6-06		Date/Time:		Received By		Date/Time:		1400		9/6/06		1400	
Relinquished By		1400		Date/Time:		Received By		Date/Time:		1645		9-6-06		1645	
Relinquished By				Date/Time:		Received By		Date/Time:							

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) On Ice: X 7°C
 Intact X

HE 9-6-06
 1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 17:16

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0349-01

CLIENT ID

PT-INF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.38	1	09/08/06	09/13/06	
Sample ID: IPI0349-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.46	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	0.032	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	1.7	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.48	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	71	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.33	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0349-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.51	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	ND	1	09/07/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	0.025	1	09/08/06	09/08/06	J
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.65	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	3.0	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.35	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.11	1	09/08/06	09/08/06	B, J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

TestAmerica - Irvine, CA
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 Report Number: IPI0349

Sampled: 09/06/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.97	1	09/07/06	09/07/06	
Sample ID: IPI0349-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	26	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	0.84	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	0.56	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.90	4.8	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	0.90	1.0	89	2	09/06/06	09/06/06	M-HA
Total Dissolved Solids	SM2540C	6I08080	10	10	380	1	09/08/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I12153	0.50	1.0	10	1	09/12/06	09/12/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	25	1	09/12/06	09/12/06	

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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	10	1	09/07/06	09/07/06	

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 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	8.05	1	09/07/06	09/07/06	

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 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0349-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I08075	N/A	1.0	640	1	09/08/06	09/08/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0349

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF (IPI0349-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 08:40	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 08:40	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 08:40	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 19:49
Filtration	1	09/06/2006 08:40	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 R-2A Pond Pilot Test
 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0349

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08075 Extracted: 09/08/06											
Duplicate Analyzed: 09/08/2006 (6I08075-DUP1)						Source: IPI0323-01					
Specific Conductance	1780	1.0	N/A	umhos/cm		1800			1	5	
Batch: 6I08080 Extracted: 09/08/06											
Blank Analyzed: 09/11/2006 (6I08080-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I08080-BS1)											
Total Dissolved Solids	992	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I08080-DUP1)						Source: IPI0323-01					
Total Dissolved Solids	1140	10	10	mg/l		1100			4	10	
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I12153 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12153-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/12/2006 (6I12153-BS1)											
Total Organic Carbon	9.63	1.0	0.25	mg/l	10.0		96	90-110			

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Matrix Spike Analyzed: 09/12/2006 (6I12153-MS1)						Source: IPI0236-01					
Total Organic Carbon	5.31	1.0	0.25	mg/l	5.00	0.72	92	80-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12153-MSD1)						Source: IPI0236-01					
Total Organic Carbon	5.28	1.0	0.25	mg/l	5.00	0.72	91	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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R-2A Pond Pilot Test
Report Number: IPI0349

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0349

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

IPD 0349

Client Name/Address:
MWH-Pasadena
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project:
Boeing-SSFL BMP/PPDES
R-2A Pond Filtration Pilot Test

Project Manager: **Bronwyn Kelly**

Phone Number:
 (626) 568-6691
 Fax Number:
 (626) 568-6515

Sampler: **BANAGA**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn	Comments
PT-INF	W	Poly-1L	1	9/6/06	HNO3	1	X									
PT-INF	W	Poly-1L	1		None	2		X								
PT-INF	W	VOAs	2		HCl	3A, 3B			X							
PT-INF	W	1L Amber	2		HCl	4A, 4B				X						
PT-INF	W	Poly-500	1		H2SO4	5					X					
PT-INF	W	Poly-500	1		None	6						X				
PT-INF	W	Poly-500	2		None	7A, 7B							X			
PT-INF	W	Poly-500	1		H2SO4	8								X		
PT-INF	W	Poly-1L	1		None	9									X	

Relinquished By: *[Signature]* Date/Time: 9-5-06 1400

Relinquished By: *[Signature]* Date/Time: 9/6/06 1400

Relinquished By: *[Signature]* Date/Time: 9/6/06 1645

Received By: *[Signature]* Date/Time: 9/6/06 1400

Received By: *[Signature]* Date/Time: 9-6-06 1645

Received By: _____ Date/Time: _____

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample integrity: (Check) Intact On Ice: X 7°C

HE 9-6-06
 1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/19/06 14:50

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0353-01

CLIENT ID

PT-INF2

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.81	1	09/08/06	09/13/06	
Sample ID: IPI0353-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.46	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	0.044	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	2.3	1	09/08/06	09/08/06	
Lead	EPA 200.8	6I08081	0.040	1.0	0.82	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	120	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	2.0	1	09/08/06	09/13/06	J
Selenium	EPA 200.8	6I08081	0.30	2.0	0.34	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	0.037	1	09/08/06	09/08/06	J
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0353-01 (PT-INF2 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.50	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	ND	1	09/07/06	09/13/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	0.026	1	09/08/06	09/08/06	J
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.64	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.8	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.47	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.12	1	09/08/06	09/08/06	B, J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0353-01 (PT-INF2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	24	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	2.8	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	1.4	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.90	4.8	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I08080	10	10	350	1	09/08/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I12153	0.50	1.0	10	1	09/12/06	09/12/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	24	1	09/12/06	09/12/06	

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R-2A Pond Pilot Test
Report Number: IPI0353

Sampled: 09/06/06
Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	10	1	09/07/06	09/07/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	8.13	1	09/07/06	09/07/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0353-01 (PT-INF2 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6I08075	N/A	1.0	640	1	09/08/06	09/08/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0353

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF2 (IPI0353-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 08:35	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 08:35	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 08:35	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 20:09
Filtration	1	09/06/2006 08:35	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

TestAmerica - Irvine, CA
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Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0353

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	5.5	103	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	5.5	104	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07064 Extracted: 09/07/06											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
Batch: 6I07079 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
Batch: 6I07084 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
Batch: 6I07091 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08075 Extracted: 09/08/06											
Duplicate Analyzed: 09/08/2006 (6I08075-DUP1)						Source: IPI0323-01					
Specific Conductance	1780	1.0	N/A	umhos/cm		1800			1	5	
Batch: 6I08080 Extracted: 09/08/06											
Blank Analyzed: 09/11/2006 (6I08080-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I08080-BS1)											
Total Dissolved Solids	992	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I08080-DUP1)						Source: IPI0323-01					
Total Dissolved Solids	1140	10	10	mg/l		1100			4	10	
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I12153 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12153-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/12/2006 (6I12153-BS1)											
Total Organic Carbon	9.63	1.0	0.25	mg/l	10.0		96	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Matrix Spike Analyzed: 09/12/2006 (6I12153-MS1)						Source: IPI0236-01					
Total Organic Carbon	5.31	1.0	0.25	mg/l	5.00	0.72	92	80-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12153-MSD1)						Source: IPI0236-01					
Total Organic Carbon	5.28	1.0	0.25	mg/l	5.00	0.72	91	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0353

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0353

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IPI 0353

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

Client Name/Address			Project:														
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101			Boeing-SSFL BMP/PDES R-2A Pond Filtration Pilot Test														
Project Manager: Bronwyn Kelly			Phone Number:														
			(626) 568-6691														
Sampler: DANAGA			Fax Number:														
			(626) 568-6515														
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn	Field readings: Temp # 79 pH# 7.5	Comments
PT-INF2	W	Poly-1L	1	9-6-06 8:35	HNO3	1	X										
PT-INF2	W	Poly-1L	1		None	2		X									
PT-INF2	W	VOCs	2		HCl	3A, 3B			X								
PT-INF2	W	1L Amber	2		HCl	4A, 4B			X								
PT-INF2	W	Poly-500 ml	1		H2SO4	5				X							
PT-INF2	W	Poly-500 ml	1		None	6					X						
PT-INF2	W	Poly-500 ml	2		None	7A, 7B						X					
PT-INF2	W	Poly-500 ml	1	9-6-06 1:00	H2SO4	8							X				
PT-INF2	W	Poly-1L	1	9-6-06 8:35	None	9									X		
Relinquished By: [Signature]			Date/Time: 9-6-06			Received By: [Signature]			Date/Time: 9-6-06 1450			Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal X _____ Perchlorate Only 72 Hours _____					
Relinquished By: [Signature]			Date/Time: 9-6-06 1645			Received By: [Signature]			Date/Time: 9-6-06 1645			Metals Only 72 Hours _____ Sample Integrity: (Check) Intact X On Ice: X 70C					

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 17:25

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID
IPI0355-01

CLIENT ID
PM-P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.13	1	09/08/06	09/13/06	
Sample ID: IPI0355-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.45	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	4.8	1	09/08/06	09/13/06	J
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	0.81	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.11	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	45	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.30	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0355-01 (PM-P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.47	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	ND	1	09/07/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.67	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.8	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.35	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.062	1	09/08/06	09/08/06	B, J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	1.0	1	09/07/06	09/07/06	
Sample ID: IPI0355-01 (PM-P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	2.2	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	190	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	0.84	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	0.14	1	09/06/06	09/06/06	J
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	0.16	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	370	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I12153	0.50	1.0	10	1	09/12/06	09/12/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	4.7	1	09/07/06	09/07/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.58	1	09/07/06	09/07/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0355-01 (PM-P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	650	1	09/11/06	09/11/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0355

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-P-EFF (IPI0355-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 09:05	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:05	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:05	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 20:30
Filtration	1	09/06/2006 09:05	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
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300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0355

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07064 Extracted: 09/07/06											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
Batch: 6I07079 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
Batch: 6I07084 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
Batch: 6I07091 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12089 Extracted: 09/12/06</u>											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
<u>Batch: 6I12130 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1)											
						Source: IPI0366-01					
Total Suspended Solids	108	10	10	mg/l		110			2	10	
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12153-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/12/2006 (6I12153-BS1)											
Total Organic Carbon	9.63	1.0	0.25	mg/l	10.0		96	90-110			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Matrix Spike Analyzed: 09/12/2006 (6I12153-MS1)						Source: IPI0236-01					
Total Organic Carbon	5.31	1.0	0.25	mg/l	5.00	0.72	92	80-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12153-MSD1)						Source: IPI0236-01					
Total Organic Carbon	5.28	1.0	0.25	mg/l	5.00	0.72	91	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0355

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0355

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

IPI 0355

Client Name/Address: **MWH-Pasadena**
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101

Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Bronwyn Kelly**

Phone Number: (626) 568-6691
 Fax Number: (626) 568-6515

Sampler: **BANACR**

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe, Zn	Field readings: Temp = 78 pH = 7.4	Comments	
PM-P-EFF	W	Poly-1L	1	<i>9/6/06</i>	HNO3	1	X											
PM-P-EFF	W	Poly-1L	1	<i>[Signature]</i>	None	2		X										
PM-P-EFF	W	VOAs	2		HCl	3A, 3B			X									
PM-P-EFF	W	1L Amber	2		HCl	4A, 4B				X								
PM-P-EFF	W	Poly-500 ml	1		H2SO4	5					X							
PM-P-EFF	W	Poly-500 ml	1		None	6						X						
PM-P-EFF	W	Poly-500 ml	2		None	7A, 7B							X					
PM-P-EFF	W	Poly-500 ml	1		H2SO4	8								X				
PM-P-EFF	W	Poly-1L	1		None	9									X			

Relinquished By *Walter* Date/Time: *9-6-06 1400*

Received By *Walter* Date/Time: *9-6-06 1400*

Relinquished By *Walter* Date/Time: *9-6-06 1645*

Received By *Walter* Date/Time: *9-6-06 1645*

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____ X

Perchlorate Only 72 Hours _____

Metals Only 72 Hours _____

Sample Integrity: (Check) Intact _____ On Ice: _____ X

Temp = 78
pH = 7.4

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 17:11

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0356-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0356

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.25	1	09/08/06	09/13/06	
Sample ID: IPI0356-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.44	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	0.030	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	1.7	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.35	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	71	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.47	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPI0356

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0356-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.43	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	4.4	1	09/07/06	09/20/06	J
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.98	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.9	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.38	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.039	1	09/08/06	09/08/06	B, J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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 R-2A Pond Pilot Test
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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.98	1	09/07/06	09/07/06	
Sample ID: IPI0356-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	2.2	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	190	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	1.1	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.94	5.0	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	340	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I12153	0.50	1.0	11	1	09/12/06	09/12/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	8.1	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.75	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0356-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	640	1	09/11/06	09/11/06	

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R-2A Pond Pilot Test
Report Number: IPI0356

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: BST-EFF (IPI0356-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 09:00	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:00	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:00	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 20:50
Filtration	1	09/06/2006 09:00	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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Report Number: IPI0356

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0356

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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Report Number: IPI0356

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Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1)											
						Source: IPI0349-01					
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1)											
						Source: IPI0349-01					
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1)											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			M-NR1

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12089 Extracted: 09/12/06</u>											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
<u>Batch: 6I12130 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1)											
						Source: IPI0366-01					
Total Suspended Solids	108	10	10	mg/l		110			2	10	
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12153-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 09/12/2006 (6I12153-BS1)											
Total Organic Carbon	9.63	1.0	0.25	mg/l	10.0		96	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12153 Extracted: 09/12/06</u>											
Matrix Spike Analyzed: 09/12/2006 (6I12153-MS1)						Source: IPI0236-01					
Total Organic Carbon	5.31	1.0	0.25	mg/l	5.00	0.72	92	80-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12153-MSD1)						Source: IPI0236-01					
Total Organic Carbon	5.28	1.0	0.25	mg/l	5.00	0.72	91	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

PI 0336

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Project Manager: Bronwyn Kelly Sampler: BANALR		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 77 pH = 7.5		Comments					
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn
BST-EFF	W	Poly-1L	1	9/6/06 1400	HNO3	1	X	X							
BST-EFF	W	Poly-1L	1		None	2		X							
BST-EFF	W	VOAs	2		HCl	3A, 3B			X						
BST-EFF	W	1L Amber	2		HCl	4A, 4B				X					
BST-EFF	W	Poly-500 ml	1		H2SO4	5					X				
BST-EFF	W	Poly-500 ml	1		None	6					X				
BST-EFF	W	Poly-500 ml	2		None	7A, 7B						X			
BST-EFF	W	Poly-500 ml	1		H2SO4	8							X		
BST-EFF	W	Poly-1L	1		None	9								X	
Relinquished By		9-6-06		Date/Time: 1400		Received By		Date/Time: 9/6/06 1400		Turn around Time: (check)		24 Hours		5 Days	
Relinquished By		9/6/06		Date/Time: 1645		Received By		Date/Time: 9-6-06 1645		48 Hours		10 Days		Normal	
Relinquished By		9/6/06		Date/Time: 1645		Received By		Date/Time: 9-6-06 1645		Perchlorate Only 72 Hours		Metals Only 72 Hours		Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>	

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 17:07

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0358-01

CLIENT ID

AC-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0358

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.14	1	09/08/06	09/13/06	
Sample ID: IPI0358-01 (AC-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.42	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	0.89	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.071	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	480	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.34	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0358

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0358-01 (AC-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.42	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	6.6	1	09/07/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.61	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.7	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	ND	1	09/08/06	09/08/06	
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.029	1	09/08/06	09/08/06	B, J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0358

Sampled: 09/06/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0358-01 (AC-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	3.9	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	240	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	2.5	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	250	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	ND	1	09/07/06	09/07/06	
Phosphate (PO4)	EPA 300.0	6I06003	N/A	0.50	ND	1	09/06/06	09/06/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	130	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	480	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I12153	0.50	1.0	8.1	1	09/12/06	09/12/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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Report Number: IPI0358

Sampled: 09/06/06
Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	8.8	1	09/07/06	09/07/06	

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 R-2A Pond Pilot Test
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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.25	1	09/07/06	09/07/06	

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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0358-01 (AC-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	870	1	09/11/06	09/11/06	

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R-2A Pond Pilot Test
Report Number: IPI0358

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AC-DUP-EFF (IPI0358-01) - Water					
EPA 150.1	1	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 08:50	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 21:11
Filtration	1	09/06/2006 08:50	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 R-2A Pond Pilot Test
 Report Number: IPI0358

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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R-2A Pond Pilot Test
Report Number: IPI0358

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
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Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPI0358

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Phosphate (PO4)	ND	0.50	N/A	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Phosphate (PO4)	5.19	0.50	N/A	mg/l	5.00		104	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Phosphate (PO4)	5.55	1.0	N/A	mg/l	5.00	ND	111	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Phosphate (PO4)	5.52	1.0	N/A	mg/l	5.00	ND	110	80-120	1	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07064 Extracted: 09/07/06											
LCS Analyzed: 09/07/2006 (6I07064-BS1)											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			M-NR1
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
Batch: 6I07079 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
Batch: 6I07084 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
Batch: 6I07091 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07091 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)						Source: IPI0349-01					
Turbidity	10.7	1.0	0.040	NTU		10			7	20	
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)						Source: IPI0355-01					
Specific Conductance	647	1.0	N/A	umhos/cm		650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)						Source: IPI0355-01					
Total Dissolved Solids	369	10	10	mg/l		370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1)											
						Source: IPI0349-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1)											
						Source: IPI0366-01					
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I12153 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12153-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12153 Extracted: 09/12/06											
LCS Analyzed: 09/12/2006 (6I12153-BS1)											
Total Organic Carbon	9.63	1.0	0.25	mg/l	10.0		96	90-110			
Matrix Spike Analyzed: 09/12/2006 (6I12153-MS1) Source: IPI0236-01											
Total Organic Carbon	5.31	1.0	0.25	mg/l	5.00	0.72	92	80-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12153-MSD1) Source: IPI0236-01											
Total Organic Carbon	5.28	1.0	0.25	mg/l	5.00	0.72	91	80-120	1	20	
Batch: 6I13172 Extracted: 09/13/06											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1) Source: IPI0349-01											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1) Source: IPI0349-01											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6I14104 Extracted: 09/14/06											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1) Source: IPI0245-02											
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I14104 Extracted: 09/14/06											
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

IP10358

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 Sampler: **BANA**

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 Fax Number:
 (626) 568-6515

Sample Description	Same Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N), Phosphate	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*	Field readings: Temp = 79.0 pH = 7.1	Comment
AC-DUP-EFF	W	Poly-1L	1	9/6/06	HNO3	1	X										
AC-DUP-EFF	W	Poly-1L	1		None	2		X									
AC-DUP-EFF	W	VOAS	2		HCl	3A, 3B			X								
AC-DUP-EFF	W	1L Amber	2		HCl	4A, 4B				X							
AC-DUP-EFF	W	Poly-500 ml	1		H2SO4	5				X							
AC-DUP-EFF	W	Poly-500 ml	1		None	6					X						
AC-DUP-EFF	W	Poly-500 ml	2		None	7A, 7B						X					
AC-DUP-EFF	W	Poly-500 ml	1		H2SO4	8							X				
AC-DUP-EFF	W	Poly-1L	1	9/5/06	None	9								X			

Relinquished By: *9-6-06* Date/Time: *1400* Received By: *9/6/06* Date/Time: *1400*

Relinquished By: *9/6/06* Date/Time: *1645* Received By: *9-6-06* Date/Time: *1645*

Relinquished By: _____ Date/Time: _____ Received By: _____ Date/Time: _____

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____

Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) Intact On Ice: *7°C*

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 17:02

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID
IPI0360-01

CLIENT ID
V-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.12	1	09/08/06	09/13/06	
Sample ID: IPI0360-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.45	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	1.0	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.10	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	32	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	ND	1	09/08/06	09/08/06	
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0360-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.46	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	7.4	1	09/07/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.79	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.8	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.38	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0360-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	1.1	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	0.56	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.90	4.8	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	350	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	10	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6107091	0.040	1.0	5.9	1	09/07/06	09/07/06	

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R-2A Pond Pilot Test
Report Number: IPI0360

Sampled: 09/06/06
Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.89	1	09/07/06	09/07/06	

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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0360-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	650	1	09/11/06	09/11/06	

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 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: V-EFF (IPI0360-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 09:20	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:20	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:20	09/06/2006 16:45	09/06/2006 19:30	09/06/2006 21:31
Filtration	1	09/06/2006 09:20	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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Report Number: IPI0360

Sampled: 09/06/06
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l
Beryllium	ND	2.0	0.90	ug/l
Chromium	ND	5.0	2.0	ug/l
Iron	ND	0.040	0.015	mg/l
Manganese	ND	20	7.0	ug/l
Nickel	ND	10	2.0	ug/l
Zinc	ND	20	15	ug/l

TestAmerica - Irvine, CA
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Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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R-2A Pond Pilot Test
Report Number: IPI0360

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0360

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6107122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6107122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6108073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6108073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6108073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6108073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6108073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6108077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6108077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1)					Source: IPI0349-01						
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2)					Source: IPI0368-01						
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1)					Source: IPI0349-01						
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12089 Extracted: 09/12/06</u>											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
<u>Batch: 6I12130 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IP10360

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings:											
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Project Manager: Bronwyn Kelly Sampler: BANAGA		Boeing-SSFL BMP/PPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*, Zn, Hardness		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Total Organic Carbon Oil & Grease (EPA 413.1) Total Kjeldahl Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate- N, Nitrite-N (NO ₃ + NO ₂ -N) Turbidity, TSS, Conductivity Ammonia-N (NH ₃ -N) Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*		Temperature = 77 pH = 7.6							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals:	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate- N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals:	Turn around Time: (check)	Comments
V-EFF	W	Poly-1L	1	9/6/06 9:20	HNO3	1	As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*, Zn, Hardness	X								24 Hours _____ 48 Hours _____ 72 Hours _____	
V-EFF	W	Poly-1L	1		None	2		X								Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____	
V-EFF	W	VOAs	2		HCl	3A, 3B			X							Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: _____	
V-EFF	W	1L Amber	2		HCl	4A, 4B				X							
V-EFF	W	Poly-500 ml	1		H2SO4	5					X						
V-EFF	W	Poly-500 ml	1		None	6						X					
V-EFF	W	Poly-500 ml	2		None	7A, 7B							X				
V-EFF	W	Poly-500 ml	1		H2SO4	8								X			
V-EFF	W	Poly-1L	1		None	9											
Relinquished By	<i>[Signature]</i>	9-6-06	Date/Time:	1400	Received By	<i>[Signature]</i>	Date/Time:	9/6/06	1400								
Relinquished By	<i>[Signature]</i>	9/6/06	Date/Time:	1645	Received By	<i>[Signature]</i>	Date/Time:	9-6-06	1645								
Relinquished By			Date/Time:		Received By		Date/Time:										

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/19/06 14:47

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0362-01

CLIENT ID

S-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.080	1	09/08/06	09/13/06	
Sample ID: IPI0362-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.44	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	0.88	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7	6I08100	7.0	20	14	1	09/08/06	09/13/06	J
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.39	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0362-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.46	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	ND	1	09/07/06	09/13/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.78	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.7	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.34	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0362-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	2.5	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	0.56	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	170	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/06/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	1.0	1	09/07/06	09/07/06	J
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/06/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	350	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	11	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6107091	0.040	1.0	5.6	1	09/07/06	09/07/06	

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Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.87	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0362-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	650	1	09/11/06	09/11/06	

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Report Number: IPI0362

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: S-EFF (IPI0362-01) - Water					
EPA 150.1	1	09/06/2006 09:10	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:10	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:10	09/06/2006 16:45	09/06/2006 23:30	09/06/2006 23:33
Filtration	1	09/06/2006 09:10	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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Report Number: IPI0362

Sampled: 09/06/06
Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	5.5	103	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6107122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6107122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	5.5	104	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6108073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6108073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6108073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6108073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6108073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6108077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6108077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

TestAmerica - Irvine, CA
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MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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 Report Number: IPI0362

Sampled: 09/06/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I07064 Extracted: 09/07/06											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
Batch: 6I07079 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
Batch: 6I07084 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
Batch: 6I07091 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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 R-2A Pond Pilot Test
 Report Number: IPI0362

Sampled: 09/06/06
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I13141 Extracted: 09/13/06											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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R-2A Pond Pilot Test
Report Number: IPI0362

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0362

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IP10362

Del Mar Analytical CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/PPDES R-2A Pond Filtration Pilot Test		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 78 pH = 7.6									
Project Manager: Bronwyn Kelly		Sampler: Brian		ANALYSIS REQUIRED				Comments							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn
S-EFF	W	Poly-1L	1	9/6/06	HNO3	1	X	X							
S-EFF	W	Poly-1L	1		None	2		X							
S-EFF	W	VOAS	2		HCl	3A, 3B			X						
S-EFF	W	1L Amber	2		HCl	4A, 4B				X					
S-EFF	W	Poly-500 ml	1		H2SO4	5				X					
S-EFF	W	Poly-500 ml	1		None	6					X				
S-EFF	W	Poly-500 ml	2		None	7A, 7B						X			
S-EFF	W	Poly-500 ml	1		H2SO4	8							X		
S-EFF	W	Poly-1L	1		None	9								X	
Relinquished By: <i>[Signature]</i> Date/Time: 9-6-06 1400 Relinquished By: <i>[Signature]</i> Date/Time: 9-6-06 1645 Relinquished By: <i>[Signature]</i> Date/Time: 9-6-06 1645															
Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/> _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/> 70C															

HE 9-6-06
1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/22/06 16:58

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0365-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.25	1	09/08/06	09/13/06	
Sample ID: IPI0365-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.34	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	0.030	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	1.7	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08081	0.040	1.0	0.48	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	170	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.40	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	0.11	1	09/07/06	09/13/06	
Sample ID: IPI0365-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.34	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	6.2	1	09/07/06	09/20/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.67	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	140	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	3.1	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	ND	1	09/08/06	09/08/06	
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	1.0	1	09/07/06	09/07/06	
Sample ID: IPI0365-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	2.0	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	1.1	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	180	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	370	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	13	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	4.3	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.60	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0365-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	650	1	09/11/06	09/11/06	

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Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPI0365-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	09/06/2006 09:25	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:25	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:25	09/06/2006 16:45	09/06/2006 23:30	09/07/2006 00:14
Filtration	1	09/06/2006 09:25	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l
Beryllium	ND	2.0	0.90	ug/l
Chromium	ND	5.0	2.0	ug/l
Iron	ND	0.040	0.015	mg/l
Manganese	ND	20	7.0	ug/l
Nickel	ND	10	2.0	ug/l
Zinc	ND	20	15	ug/l

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1)											
						Source: IPI0349-01					
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1)											
						Source: IPI0349-01					
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1)											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			M-NR1

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 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I13141 Extracted: 09/13/06											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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R-2A Pond Pilot Test
Report Number: IPI0365

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0365

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

INDEXES

Del Mar Analytical CHAIN OF CUSTODY FORM

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 77 pH = 7.2																	
Project Manager: Bronwyn Kelly		Sampler: BANIBGA		ANALYSIS REQUIRED				Comments															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N)	Turbidity, TSS, Conductivity	Ammonia-N (NH ₃ -N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn								
LC-EFF	W	Poly-1L	1	9/6/06	HNO3	1	X	X															
LC-EFF	W	Poly-1L	1	9/6/06	None	2																	
LC-EFF	W	VOAS	2		HCl	3A, 3B			X														
LC-EFF	W	1L Amber	2		HCl	4A, 4B				X													
LC-EFF	W	Poly-500 ml	1		H2SO4	5					X												
LC-EFF	W	Poly-500 ml	1		None	6						X											
LC-EFF	W	Poly-500 ml	2		None	7A, 7B							X										
LC-EFF	W	Poly-500 ml	1		H2SO4	8								X									
LC-EFF	W	Poly-1L	1		None	9									X								
Relinquished By		Date/Time		Received By		Date/Time		Turn around Time: (check)		24 Hours		5 Days		48 Hours		10 Days		72 Hours		Normal		X	
Kin Sung		9-6-06 1400		R. Kelly		9/6/06 1400																	
Relinquished By		Date/Time		Received By		Date/Time		Perchlorate Only 72 Hours		Metals Only 72 Hours		Sample Integrity: (Check) Intact		On Ice: X		7°C							
Kin Sung		9/6/06 1645		Kin Sung		9-6-06 1645																	

HE 9-6-06
1430

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/26/06 12:00

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0367-01

CLIENT ID

P-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.31	1	09/08/06	09/13/06	
Sample ID: IPI0367-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08081	0.050	2.0	0.45	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	ND	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08081	0.025	1.0	0.055	1	09/08/06	09/08/06	J
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08081	0.25	2.0	4.3	1	09/08/06	09/08/06	
Lead	EPA 200.8	6I08081	0.040	1.0	0.71	1	09/08/06	09/08/06	J
Manganese	EPA 200.7	6I08100	7.0	20	81	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08081	0.30	2.0	0.39	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08081	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8	6I08081	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

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 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0367-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.41	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	4.7	1	09/07/06	09/20/06	J
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.66	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.8	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	ND	1	09/08/06	09/08/06	
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	1.0	1	09/07/06	09/07/06	
Sample ID: IPI0367-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	12	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	1.4	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	190	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	1.4	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	160	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Oil & Grease	EPA 413.1	6I07064	0.90	4.8	1.1	1	09/07/06	09/07/06	J
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	340	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	12	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	12	1	09/12/06	09/12/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6I07091	0.040	1.0	9.2	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.96	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0367-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	640	1	09/11/06	09/11/06	

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R-2A Pond Pilot Test
Report Number: IPI0367

Sampled: 09/06/06
Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: P-EFF (IPI0367-01) - Water					
EPA 150.1	1	09/06/2006 09:15	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 09:15	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 09:15	09/06/2006 16:45	09/06/2006 23:30	09/07/2006 00:54
Filtration	1	09/06/2006 09:15	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08081 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08081-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08081-BS1)											
Antimony	80.8	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	79.5	1.0	0.025	ug/l	80.0		99	85-115			
Copper	76.8	2.0	0.25	ug/l	80.0		96	85-115			
Lead	84.8	1.0	0.040	ug/l	80.0		106	85-115			
Selenium	80.7	2.0	0.30	ug/l	80.0		101	85-115			
Silver	83.2	1.0	0.025	ug/l	80.0		104	85-115			
Thallium	83.4	1.0	0.15	ug/l	80.0		104	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08081 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS1)						Source: IPI0504-10					
Antimony	83.2	2.0	0.050	ug/l	80.0	ND	104	70-130			
Cadmium	76.5	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	74.2	2.0	0.25	ug/l	80.0	1.1	91	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	0.17	101	70-130			
Selenium	76.9	2.0	0.30	ug/l	80.0	ND	96	70-130			
Silver	75.6	1.0	0.025	ug/l	80.0	0.073	94	70-130			
Thallium	78.2	1.0	0.15	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08081-MS2)						Source: IPI0504-11					
Antimony	82.6	2.0	0.050	ug/l	80.0	0.078	103	70-130			
Cadmium	75.8	1.0	0.025	ug/l	80.0	ND	95	70-130			
Copper	74.5	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	82.0	1.0	0.040	ug/l	80.0	2.4	100	70-130			
Selenium	75.9	2.0	0.30	ug/l	80.0	0.42	94	70-130			
Silver	74.3	1.0	0.025	ug/l	80.0	0.050	93	70-130			
Thallium	77.4	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08081-MSD1)						Source: IPI0504-10					
Antimony	81.8	2.0	0.050	ug/l	80.0	ND	102	70-130	2	20	
Cadmium	74.4	1.0	0.025	ug/l	80.0	ND	93	70-130	3	20	
Copper	73.2	2.0	0.25	ug/l	80.0	1.1	90	70-130	1	20	
Lead	79.1	1.0	0.040	ug/l	80.0	0.17	99	70-130	2	20	
Selenium	75.8	2.0	0.30	ug/l	80.0	ND	95	70-130	1	20	
Silver	73.9	1.0	0.025	ug/l	80.0	0.073	92	70-130	2	20	
Thallium	76.5	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

Batch: 6I08100 Extracted: 09/08/06

Blank Analyzed: 09/13/2006 (6I08100-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1) Source: IPI0349-01											
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2) Source: IPI0353-01											
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1) Source: IPI0349-01											
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07064 Extracted: 09/07/06											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
Batch: 6I07079 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
Batch: 6I07084 Extracted: 09/07/06											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
Batch: 6I07091 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I12089 Extracted: 09/12/06</u>											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
<u>Batch: 6I12130 Extracted: 09/12/06</u>											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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R-2A Pond Pilot Test
Report Number: IPI0367

Sampled: 09/06/06
Received: 09/06/06

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0367

Sampled: 09/06/06
 Received: 09/06/06

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IPI0367

Client Name/Address:		Project:		Boeing-SSFL BMP/PDES R-2A Pond Filtration Pilot Test		Phone Number: (626) 568-6691		Fax Number: (626) 568-6515															
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project Manager: Bronwyn Kelly		SAMPLER: BANAGA		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)															
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn	Field readings: Temp = 77.0 pH = 7.6	Comments									
P-EFF	W	Poly-1L	1	9/6/06	HNO3	1																	
P-EFF	W	Poly-1L	1		None	2																	
P-EFF	W	VOAs	2		HCl	3A, 3B																	
P-EFF	W	1L Amber	2		HCl	4A, 4B	X																
P-EFF	W	Poly-500 ml	1		H2SO4	5		X															
P-EFF	W	Poly-500 ml	1		None	6			X														
P-EFF	W	Poly-500 ml	2		None	7A, 7B				X													
P-EFF	W	Poly-500 ml	1		H2SO4	8					X												
P-EFF	W	Poly-1L	1		None	9						X											
<p>Relinquished By: <i>Kim [Signature]</i> Date/Time: 9-6-06 14:50 Received By: <i>[Signature]</i> Date/Time: 9/6/06 14:00</p> <p>Relinquished By: <i>[Signature]</i> Date/Time: 9/6/06 16:45 Received By: <i>[Signature]</i> Date/Time: 9-6-06 16:45</p> <p>Relinquished By: <i>[Signature]</i> Date/Time: 9/6/06 16:45 Received By: <i>[Signature]</i> Date/Time: 9-6-06 16:45</p>																							
Turn around Time: (check)										24 Hours		5 Days		48 Hours		10 Days		72 Hours		Normal		Perchlorate Only 72 Hours	
Metals Only 72 Hours										Metals Only 72 Hours		Sample Integrity: (Check) Intact		On Ice: X		Temp = 77.0		pH = 7.6		Comments			

HE 96-06

1930

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test

Sampled: 09/06/06
Received: 09/06/06
Issued: 09/19/06 14:58

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID

IPI0368-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Amy Windham For Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0368

Sampled: 09/06/06
 Received: 09/06/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6I08100	0.015	0.040	0.12	1	09/08/06	09/13/06	
Sample ID: IPI0368-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6I08104	0.050	2.0	0.54	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7	6I08100	4.4	5.0	6.0	1	09/08/06	09/13/06	
Beryllium	EPA 200.7	6I08100	0.90	2.0	ND	1	09/08/06	09/13/06	
Cadmium	EPA 200.8	6I08104	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7	6I08100	2.0	5.0	ND	1	09/08/06	09/13/06	
Copper	EPA 200.8	6I08104	0.25	2.0	1.5	1	09/08/06	09/08/06	J
Lead	EPA 200.8	6I08104	0.040	1.0	0.15	1	09/08/06	09/09/06	J
Manganese	EPA 200.7	6I08100	7.0	20	27	1	09/08/06	09/13/06	
Mercury	EPA 245.1	6I07065	0.15	0.20	ND	1	09/07/06	09/07/06	
Nickel	EPA 200.7	6I08100	2.0	10	ND	1	09/08/06	09/13/06	
Selenium	EPA 200.8	6I08104	0.30	2.0	0.39	1	09/08/06	09/08/06	J
Silver	EPA 200.8	6I08104	0.025	1.0	0.030	1	09/08/06	09/08/06	J
Thallium	EPA 200.8	6I08104	0.15	1.0	ND	1	09/08/06	09/09/06	
Zinc	EPA 200.7	6I08100	15	20	ND	1	09/08/06	09/13/06	

TestAmerica - Irvine, CA
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 R-2A Pond Pilot Test
 Report Number: IPI0368

Sampled: 09/06/06
 Received: 09/06/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6I07122	0.015	0.040	ND	1	09/07/06	09/13/06	
Sample ID: IPI0368-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6I08077	0.050	2.0	0.52	1	09/08/06	09/08/06	J
Arsenic	EPA 200.7-Diss	6I07122	4.4	5.0	5.1	1	09/07/06	09/13/06	
Beryllium	EPA 200.7-Diss	6I07122	0.90	2.0	ND	1	09/07/06	09/13/06	
Cadmium	EPA 200.8-Diss	6I08077	0.025	1.0	ND	1	09/08/06	09/08/06	
Chromium	EPA 200.7-Diss	6I07122	2.0	5.0	ND	1	09/07/06	09/13/06	
Copper	EPA 200.8-Diss	6I08077	0.25	2.0	0.70	1	09/08/06	09/08/06	J
Lead	EPA 200.8-Diss	6I08077	0.040	1.0	ND	1	09/08/06	09/08/06	
Manganese	EPA 200.7-Diss	6I07122	7.0	20	ND	1	09/07/06	09/13/06	
Mercury	EPA 245.1-Diss	6I08073	0.15	0.20	ND	1	09/08/06	09/08/06	
Nickel	EPA 200.7-Diss	6I07122	2.0	10	2.8	1	09/07/06	09/13/06	J
Selenium	EPA 200.8-Diss	6I08077	0.30	2.0	0.37	1	09/08/06	09/08/06	J
Silver	EPA 200.8-Diss	6I08077	0.025	1.0	0.54	1	09/08/06	09/08/06	J
Thallium	EPA 200.8-Diss	6I08077	0.15	1.0	ND	1	09/08/06	09/08/06	
Zinc	EPA 200.7-Diss	6I07122	15	20	ND	1	09/07/06	09/13/06	

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 Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0368

Sampled: 09/06/06
 Received: 09/06/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6I07079	N/A	NA	0.99	1	09/07/06	09/07/06	
Sample ID: IPI0368-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6I14093	10	10	ND	1	09/14/06	09/14/06	
Total Kjeldahl Nitrogen	EPA 351.3	6I12089	0.43	0.50	8.1	1	09/12/06	09/12/06	
Alkalinity as CaCO3	EPA 310.1	6I14104	2.0	2.0	180	1	09/14/06	09/14/06	
Ammonia-N (Distilled)	EPA 350.2	6I13172	0.30	0.50	1.1	1	09/13/06	09/14/06	
Hardness (as CaCO3)	SM2340B	6I08100	1.0	1.0	170	1	09/08/06	09/13/06	
Nitrate-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Nitrate/Nitrite-N	EPA 300.0	6I06003	0.080	0.15	ND	1	09/06/06	09/07/06	
Oil & Grease	EPA 413.1	6I07064	0.89	4.7	ND	1	09/07/06	09/07/06	
Sulfate	EPA 300.0	6I06003	2.2	2.5	89	5	09/06/06	09/07/06	
Total Dissolved Solids	SM2540C	6I11070	10	10	350	1	09/11/06	09/11/06	
Total Organic Carbon	EPA 415.1	6I13141	0.50	1.0	11	1	09/13/06	09/13/06	
Total Suspended Solids	EPA 160.2	6I12130	10	10	ND	1	09/12/06	09/12/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6107091	0.040	1.0	6.8	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6I07084	N/A	NA	7.91	1	09/07/06	09/07/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0368-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6111068	N/A	1.0	640	1	09/11/06	09/11/06	

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Received: 09/06/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Z-EFF (IPI0368-01) - Water					
EPA 150.1	1	09/06/2006 08:45	09/06/2006 16:45	09/07/2006 09:40	09/07/2006 09:50
EPA 180.1	2	09/06/2006 08:45	09/06/2006 16:45	09/07/2006 10:30	09/07/2006 11:50
EPA 300.0	2	09/06/2006 08:45	09/06/2006 16:45	09/06/2006 23:30	09/07/2006 01:35
Filtration	1	09/06/2006 08:45	09/06/2006 16:45	09/07/2006 15:55	09/07/2006 15:30

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07065 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/07/2006 (6I07065-BS1)											
Mercury	7.85	0.20	0.15	ug/l	8.00		98	85-115			
Matrix Spike Analyzed: 09/07/2006 (6I07065-MS1)											
						Source: IPI0379-01					
Mercury	7.15	0.20	0.15	ug/l	8.00	0.22	87	70-130			
Matrix Spike Dup Analyzed: 09/07/2006 (6I07065-MSD1)											
						Source: IPI0379-01					
Mercury	7.73	0.20	0.15	ug/l	8.00	0.22	94	70-130	8	20	
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I08100-BS1)											
Arsenic	465	5.0	4.4	ug/l	500		93	85-115			
Beryllium	473	2.0	0.90	ug/l	500		95	85-115			
Chromium	467	5.0	2.0	ug/l	500		93	85-115			
Iron	0.490	0.040	0.015	mg/l	0.500		98	85-115			
Manganese	475	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Zinc	460	20	15	ug/l	500		92	85-115			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS1)						Source: IPI0349-01					
Arsenic	413	5.0	4.4	ug/l	500	ND	83	70-130			
Beryllium	415	2.0	0.90	ug/l	500	ND	83	70-130			
Chromium	405	5.0	2.0	ug/l	500	ND	81	70-130			
Iron	0.785	0.040	0.015	mg/l	0.500	0.38	81	70-130			
Manganese	468	20	7.0	ug/l	500	71	79	70-130			
Nickel	402	10	2.0	ug/l	500	ND	80	70-130			
Zinc	401	20	15	ug/l	500	ND	80	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I08100-MS2)						Source: IPI0353-01					
Arsenic	426	5.0	4.4	ug/l	500	ND	85	70-130			
Beryllium	426	2.0	0.90	ug/l	500	ND	85	70-130			
Chromium	419	5.0	2.0	ug/l	500	ND	84	70-130			
Iron	1.23	0.040	0.015	mg/l	0.500	0.81	84	70-130			
Manganese	540	20	7.0	ug/l	500	120	84	70-130			
Nickel	425	10	2.0	ug/l	500	2.0	85	70-130			
Zinc	429	20	15	ug/l	500	ND	86	70-130			
Matrix Spike Dup Analyzed: 09/13/2006 (6I08100-MSD1)						Source: IPI0349-01					
Arsenic	419	5.0	4.4	ug/l	500	ND	84	70-130	1	20	
Beryllium	416	2.0	0.90	ug/l	500	ND	83	70-130	0	20	
Chromium	408	5.0	2.0	ug/l	500	ND	82	70-130	1	20	
Iron	0.810	0.040	0.015	mg/l	0.500	0.38	86	70-130	3	20	
Manganese	474	20	7.0	ug/l	500	71	81	70-130	1	20	
Nickel	401	10	2.0	ug/l	500	ND	80	70-130	0	20	
Zinc	404	20	15	ug/l	500	ND	81	70-130	1	20	

Batch: 6I08104 Extracted: 09/08/06

Blank Analyzed: 09/08/2006-09/09/2006 (6I08104-BLK1)

Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.025	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I08104 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006-09/09/2006 (6I08104-BS1)											
Antimony	79.2	2.0	0.050	ug/l	80.0		99	85-115			
Cadmium	80.0	1.0	0.025	ug/l	80.0		100	85-115			
Copper	78.9	2.0	0.25	ug/l	80.0		99	85-115			
Lead	80.8	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	79.9	2.0	0.30	ug/l	80.0		100	85-115			
Silver	79.2	1.0	0.025	ug/l	80.0		99	85-115			
Thallium	75.5	1.0	0.15	ug/l	80.0		94	85-115			
Matrix Spike Analyzed: 09/08/2006-09/09/2006 (6I08104-MS1) Source: IPI0368-01											
Antimony	74.6	2.0	0.050	ug/l	80.0	0.54	93	70-130			
Cadmium	72.1	1.0	0.025	ug/l	80.0	ND	90	70-130			
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130			
Lead	68.6	1.0	0.040	ug/l	80.0	0.15	86	70-130			
Selenium	71.9	2.0	0.30	ug/l	80.0	0.39	89	70-130			
Silver	69.7	1.0	0.025	ug/l	80.0	0.030	87	70-130			
Thallium	64.1	1.0	0.15	ug/l	80.0	ND	80	70-130			
Matrix Spike Dup Analyzed: 09/08/2006-09/09/2006 (6I08104-MSD1) Source: IPI0368-01											
Antimony	75.9	2.0	0.050	ug/l	80.0	0.54	94	70-130	2		20
Cadmium	72.8	1.0	0.025	ug/l	80.0	ND	91	70-130	1		20
Copper	71.1	2.0	0.25	ug/l	80.0	1.5	87	70-130	2		20
Lead	69.9	1.0	0.040	ug/l	80.0	0.15	87	70-130	2		20
Selenium	73.4	2.0	0.30	ug/l	80.0	0.39	91	70-130	2		20
Silver	70.9	1.0	0.025	ug/l	80.0	0.030	89	70-130	2		20
Thallium	65.8	1.0	0.15	ug/l	80.0	ND	82	70-130	3		20

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Blank Analyzed: 09/13/2006 (6I07122-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 09/13/2006 (6I07122-BS1)											
Arsenic	993	5.0	4.4	ug/l	1000		99	85-115			
Beryllium	959	2.0	0.90	ug/l	1000		96	85-115			
Chromium	966	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.965	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	977	20	7.0	ug/l	1000		98	85-115			
Nickel	971	10	2.0	ug/l	1000		97	85-115			
Zinc	984	20	15	ug/l	1000		98	85-115			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS1) Source: IPI0349-01											
Arsenic	1040	5.0	4.4	ug/l	1000	5.5	103	70-130			
Beryllium	982	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	968	5.0	2.0	ug/l	1000	ND	97	70-130			
Iron	0.967	0.040	0.015	mg/l	1.00	ND	97	70-130			
Manganese	969	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	963	10	2.0	ug/l	1000	3.0	96	70-130			
Zinc	1010	20	15	ug/l	1000	ND	101	70-130			
Matrix Spike Analyzed: 09/13/2006 (6I07122-MS2) Source: IPI0353-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	989	2.0	0.90	ug/l	1000	ND	99	70-130			
Chromium	988	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.983	0.040	0.015	mg/l	1.00	ND	98	70-130			
Manganese	972	20	7.0	ug/l	1000	ND	97	70-130			
Nickel	981	10	2.0	ug/l	1000	2.8	98	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I07122 Extracted: 09/07/06											
Matrix Spike Dup Analyzed: 09/13/2006 (6I07122-MSD1)						Source: IPI0349-01					
Arsenic	1050	5.0	4.4	ug/l	1000	5.5	104	70-130	1	20	
Beryllium	991	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	961	5.0	2.0	ug/l	1000	ND	96	70-130	1	20	
Iron	0.963	0.040	0.015	mg/l	1.00	ND	96	70-130	0	20	
Manganese	982	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	959	10	2.0	ug/l	1000	3.0	96	70-130	0	20	
Zinc	1000	20	15	ug/l	1000	ND	100	70-130	1	20	
Batch: 6I08073 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08073-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 09/08/2006 (6I08073-BS1)											
Mercury	8.08	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08073-MS1)						Source: IPI0084-04					
Mercury	5.00	0.20	0.15	ug/l	8.00	ND	62	70-130			M2
Matrix Spike Dup Analyzed: 09/08/2006 (6I08073-MSD1)						Source: IPI0084-04					
Mercury	5.01	0.20	0.15	ug/l	8.00	ND	63	70-130	0	20	M2
Batch: 6I08077 Extracted: 09/08/06											
Blank Analyzed: 09/08/2006 (6I08077-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	0.0683	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.15	ug/l							

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08077 Extracted: 09/08/06											
LCS Analyzed: 09/08/2006 (6I08077-BS1)											
Antimony	88.1	2.0	0.050	ug/l	80.0		110	85-115			
Cadmium	87.7	1.0	0.025	ug/l	80.0		110	85-115			
Copper	78.3	2.0	0.25	ug/l	80.0		98	85-115			
Lead	87.8	1.0	0.040	ug/l	80.0		110	85-115			
Selenium	84.0	2.0	0.30	ug/l	80.0		105	85-115			
Silver	88.5	1.0	0.025	ug/l	80.0		111	85-115			
Thallium	86.5	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS1) Source: IPI0349-01											
Antimony	91.6	2.0	0.050	ug/l	80.0	0.51	114	70-130			
Cadmium	88.6	1.0	0.025	ug/l	80.0	0.025	111	70-130			
Copper	76.2	2.0	0.25	ug/l	80.0	0.65	94	70-130			
Lead	84.2	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	84.8	2.0	0.30	ug/l	80.0	0.35	106	70-130			
Silver	87.9	1.0	0.025	ug/l	80.0	0.11	110	70-130			
Thallium	83.8	1.0	0.15	ug/l	80.0	ND	105	70-130			
Matrix Spike Analyzed: 09/08/2006 (6I08077-MS2) Source: IPI0368-01											
Antimony	88.6	2.0	0.050	ug/l	80.0	0.52	110	70-130			
Cadmium	82.8	1.0	0.025	ug/l	80.0	ND	104	70-130			
Copper	75.4	2.0	0.25	ug/l	80.0	0.70	93	70-130			
Lead	84.1	1.0	0.040	ug/l	80.0	ND	105	70-130			
Selenium	79.7	2.0	0.30	ug/l	80.0	0.37	99	70-130			
Silver	83.5	1.0	0.025	ug/l	80.0	0.54	104	70-130			
Thallium	83.2	1.0	0.15	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/08/2006 (6I08077-MSD1) Source: IPI0349-01											
Antimony	90.6	2.0	0.050	ug/l	80.0	0.51	113	70-130	1	20	
Cadmium	85.4	1.0	0.025	ug/l	80.0	0.025	107	70-130	4	20	
Copper	76.0	2.0	0.25	ug/l	80.0	0.65	94	70-130	0	20	
Lead	84.8	1.0	0.040	ug/l	80.0	ND	106	70-130	1	20	
Selenium	82.2	2.0	0.30	ug/l	80.0	0.35	102	70-130	3	20	
Silver	85.5	1.0	0.025	ug/l	80.0	0.11	107	70-130	3	20	
Thallium	83.6	1.0	0.15	ug/l	80.0	ND	104	70-130	0	20	

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 Amy Windham For Michele Chamberlin
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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPI0368

Sampled: 09/06/06
 Received: 09/06/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6I06003 Extracted: 09/06/06											
Blank Analyzed: 09/06/2006 (6I06003-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 09/06/2006 (6I06003-BS1)											
Nitrate-N	1.16	0.15	0.080	mg/l	1.13		103	90-110			
Nitrite-N	1.54	0.15	0.080	mg/l	1.52		101	90-110			
Sulfate	10.1	0.50	0.45	mg/l	10.0		101	90-110			
Matrix Spike Analyzed: 09/06/2006 (6I06003-MS1) Source: IPI0349-01											
Nitrate-N	1.21	0.30	0.16	mg/l	1.13	ND	107	80-120			
Nitrite-N	1.70	0.30	0.16	mg/l	1.52	ND	112	80-120			
Sulfate	98.4	1.0	0.90	mg/l	10.0	89	94	80-120			
Matrix Spike Dup Analyzed: 09/06/2006 (6I06003-MSD1) Source: IPI0349-01											
Nitrate-N	1.18	0.30	0.16	mg/l	1.13	ND	104	80-120	3	20	
Nitrite-N	1.65	0.30	0.16	mg/l	1.52	ND	109	80-120	3	20	
Sulfate	96.7	1.0	0.90	mg/l	10.0	89	77	80-120	2	20	M-HA
Batch: 6I07064 Extracted: 09/07/06											
Blank Analyzed: 09/07/2006 (6I07064-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 09/07/2006 (6I07064-BS1) M-NR1											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I07064 Extracted: 09/07/06</u>											
LCS Dup Analyzed: 09/07/2006 (6I07064-BSD1)											
Oil & Grease	19.5	5.0	0.94	mg/l	20.0		98	65-120	1	20	
<u>Batch: 6I07079 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07079-DUP1)											
Density	0.970	NA	N/A	g/cc		Source: IPI0349-01 0.97			0	20	
<u>Batch: 6I07084 Extracted: 09/07/06</u>											
Duplicate Analyzed: 09/07/2006 (6I07084-DUP1)											
pH	7.46	NA	N/A	pH Units		Source: IPI0347-01 7.44			0	5	
Duplicate Analyzed: 09/07/2006 (6I07084-DUP2)											
pH	7.28	NA	N/A	pH Units		Source: IPI0358-01 7.25			0	5	
<u>Batch: 6I07091 Extracted: 09/07/06</u>											
Blank Analyzed: 09/07/2006 (6I07091-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/07/2006 (6I07091-DUP1)											
Turbidity	0.290	1.0	0.040	NTU		Source: IPI0347-01 0.27			7	20	J
Duplicate Analyzed: 09/07/2006 (6I07091-DUP2)											
Turbidity	10.7	1.0	0.040	NTU		Source: IPI0349-01 10			7	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I08100 Extracted: 09/08/06											
Blank Analyzed: 09/13/2006 (6I08100-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6I11068 Extracted: 09/11/06											
Duplicate Analyzed: 09/11/2006 (6I11068-DUP1)											
Specific Conductance	647	1.0	N/A	umhos/cm		Source: IPI0355-01 650			1	5	
Batch: 6I11070 Extracted: 09/11/06											
Blank Analyzed: 09/11/2006 (6I11070-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/11/2006 (6I11070-BS1)											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
Duplicate Analyzed: 09/11/2006 (6I11070-DUP1)											
Total Dissolved Solids	369	10	10	mg/l		Source: IPI0355-01 370			0	10	
Batch: 6I12089 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12089-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 09/12/2006 (6I12089-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6I12089 Extracted: 09/12/06											
LCS Dup Analyzed: 09/12/2006 (6I12089-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	0	15	
Matrix Spike Analyzed: 09/12/2006 (6I12089-MS1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.84	101	85-120			
Matrix Spike Dup Analyzed: 09/12/2006 (6I12089-MSD1) Source: IPI0349-01											
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	0.84	104	85-120	3	15	
Batch: 6I12130 Extracted: 09/12/06											
Blank Analyzed: 09/12/2006 (6I12130-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/12/2006 (6I12130-BS1)											
Total Suspended Solids	948	10	10	mg/l	1000		95	85-115			
Duplicate Analyzed: 09/12/2006 (6I12130-DUP1) Source: IPI0366-01											
Total Suspended Solids	108	10	10	mg/l		110			2	10	
Batch: 6I13141 Extracted: 09/13/06											
Blank Analyzed: 09/13/2006 (6I13141-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/13/2006 (6I13141-BS1)											
Total Organic Carbon	10.4	1.0	0.50	mg/l	10.0		104	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 6I13141 Extracted: 09/13/06</u>											
Matrix Spike Analyzed: 09/13/2006 (6I13141-MS1)						Source: IPI0360-01					
Total Organic Carbon	15.6	1.0	0.50	mg/l	5.00	10	112	80-120			
Matrix Spike Dup Analyzed: 09/13/2006 (6I13141-MSD1)						Source: IPI0360-01					
Total Organic Carbon	15.5	1.0	0.50	mg/l	5.00	10	110	80-120	1	20	
<u>Batch: 6I13172 Extracted: 09/13/06</u>											
Blank Analyzed: 09/14/2006 (6I13172-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/14/2006 (6I13172-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 09/14/2006 (6I13172-MS1)						Source: IPI0349-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 09/14/2006 (6I13172-MSD1)						Source: IPI0349-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6I14104 Extracted: 09/14/06</u>											
Duplicate Analyzed: 09/14/2006 (6I14104-DUP1)						Source: IPI0245-02					
Alkalinity as CaCO3	784	2.0	2.0	mg/l		800			2	20	
Reference Analyzed: 09/14/2006 (6I14104-SRM1)											
Alkalinity as CaCO3	220	2.0	2.0	mg/l	231		95	90-110			

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DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M2** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-HA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- M-NR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		
EPA 120.1	Water	X	X
EPA 150.1	Water	X	X
EPA 160.2	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 310.1	Water	X	X
EPA 350.2	Water		X
EPA 351.3	Water		
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
Filtration	Water	N/A	N/A
SM2340B	Water	X	X
SM2540C	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerica - Irvine, CA
 Amy Windham For Michele Chamberlin
 Project Manager

IPI 0368

Del Mar Analytical Version 04/28/06 **CHAIN OF CUSTODY FORM**

Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test		Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 79 pH = 7.4	
Sampler: <i>BAMB 60</i>		ANALYSIS REQUIRED		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn, Hardness		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	
Total Organic Carbon Oil & Grease (EPA 413.1) Total Kjeldahl Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) Turbidity, TSS, Conductivity Ammonia-N (NH ₃ -N) Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn, Hardness		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Total Organic Carbon Oil & Grease (EPA 413.1) Total Kjeldahl Nitrogen SO ₄ , NO ₃ +NO ₂ -N, Nitrate-N, Nitrite-N (NO ₃ + NO ₂ -N) Turbidity, TSS, Conductivity Ammonia-N (NH ₃ -N) Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Te, Zn	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Comments
Z-EFF	W	Poly-1L	1	9/6/06 1400	HNO3	1	
Z-EFF	W	Poly-1L	1		None	2	
Z-EFF	W	VOAs	2		HCl	3A, 3B	
Z-EFF	W	1L Amber	2		HCl	4A, 4B	
Z-EFF	W	Poly-500 ml	1		H2SO4	5	
Z-EFF	W	Poly-500 ml	1		None	6	
Z-EFF	W	Poly-500 ml	2		None	7A, 7B	
Z-EFF	W	Poly-500 ml	1		H2SO4	8	
Z-EFF	W	Poly-1L	1		None	9	
Relinquished By: <i>Kim Bin</i> Date/Time: 9-6-06 1400		Received By: <i>R. Kelly</i> Date/Time: 9-6-06 1400		Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____	
Relinquished By: <i>R. Kelly</i> Date/Time: 9/6/06 1645		Received By: <i>Harrigan</i> Date/Time: 9-6-06 1645		Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>		NE 9-6-06 1430	