

ATTACHMENT 2

**FILTER DRUM INFLUENT AND EFFLUENT DATA
07/20/06, 07/21/06 and 07/24/06**

FILTER DRUM INFLUENT AND EFFLUENT DATA

07/20/06, 07/21/06 and 07/24/06

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: 07/20/06
Received: 07/20/06
Issued: 07/28/06 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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Enclosed are complete final results.

LABORATORY ID
IPG1744-01

CLIENT ID
Z-EFF

MATRIX
Water

Reviewed By:



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Project Manager

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1744-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.27	1	07/21/06	07/23/06	
Sample ID: IPG1744-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.46	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	0.72	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.47	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	63	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.52	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	0.13	1	07/21/06	07/24/06	J
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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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: IPG1744-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1744-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.45	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G27093	0.25	2.0	0.88	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	ND	1	07/22/06	07/24/06	
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.91	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1744-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1744-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.4	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	170	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.84	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.093	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.093	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	71	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	350	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G21146	0.50	1.0	11	1	07/21/06	07/21/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1744-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	3.3	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1744-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.79	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1744-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	600	1	07/24/06	07/24/06	

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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: Z-EFF (IPG1744-01) - Water					
EPA 150.1	1	07/20/2006 10:55	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:55	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:55	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 05:45

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	70-130	2	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1744

Sampled: 07/20/06
 Received: 07/20/06

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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	70-130	0	20	
Batch: 6G27093 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27093-BLK1)											
Copper	ND	2.0	0.25	ug/l							
LCS Analyzed: 07/27/2006 (6G27093-BS1)											
Copper	87.0	2.0	0.25	ug/l	80.0		109	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27093-MS1)											
Copper	78.8	2.0	0.25	ug/l	80.0	0.88	97	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27093-MSD1)											
Copper	77.1	2.0	0.25	ug/l	80.0	0.88	95	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	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
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G21146 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21146-BLK1)											
Total Organic Carbon	ND	1.0	0.25	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: 6G21146 Extracted: 07/21/06											
LCS Analyzed: 07/21/2006 (6G21146-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1)											
						Source: IPG1372-03					
Total Organic Carbon	12.0	1.0	0.25	mg/l	5.00	7.7	86	80-120			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1)											
						Source: IPG1372-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	7.7	88	80-120	1	20	
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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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: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPG1744

Sampled: 07/20/06
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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: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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Report Number: IPG1744

Sampled: 07/20/06
Received: 07/20/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 Report Number: IPG1744

Sampled: 07/20/06
 Received: 07/20/06

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
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
 Michele Chamberlin
 Project Manager

IFG 1744

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 = 81° pH = 6.9						
Project Manager: Bronwyn Kelly Sampler: L. Banya		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Ammonia-N (NH3-N) Conductivity Turbidity, TSS SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)		Comments						
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Dissolved Solids, pH	Oil & Grease (EPA 413.1)	Total Kjeldahl Nitrogen	Total Organic Carbon	Alkalinity, Suspended Solids Concentration (ASTM Method)	Total Dissolved Metals (As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn)
Z-EFF	W	Poly-1L	1	7-20-06 6:55	HNO3	1	X				X	
Z-EFF	W	Poly-1L	1		None	2				X		
Z-EFF	W	VOAs	2		HCl	3A, 3B						
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						
Z-EFF	W	Poly-500 ml	1	7-20-06 7:05	H2SO4	8						X
Z-EFF	W	Poly-1L	1		None	9						
Relinquished By		Date/Time		Received By		Date/Time		Turn around Time: (check)				
[Signature]		7-20-06 6:50		[Signature]		7-20-06 6:50		24 Hours				
Relinquished By		Date/Time		Received By		Date/Time		48 Hours				
[Signature]		7-20-06 19:40		[Signature]		7-20-06 19:40		72 Hours		Normal X		
Relinquished By		Date/Time		Received By		Date/Time		Perchlorate Only 72 Hours				
[Signature]		7-20-06 19:40		[Signature]		7-20-06 19:40		Metals Only 72 Hours				
								Sample Integrity: (Check) Intact: X		On Ice: SC		

112200

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: 07/20/06
Received: 07/20/06
Issued: 07/26/06 19:33

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

ADDITIONAL INFORMATION: Enclosed are complete final results.

LABORATORY ID
IPG1745-01

CLIENT ID
PM-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1745

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	1.2	1	07/21/06	07/23/06	
Sample ID: IPG1745-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.43	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	0.041	1	07/21/06	07/24/06	J
Chromium	EPA 200.7	6G21132	0.68	5.0	0.83	1	07/21/06	07/23/06	J
Copper	EPA 200.8	6G21128	0.49	2.0	1.4	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	1.1	1	07/21/06	07/24/06	
Manganese	EPA 200.7	6G21132	3.2	20	120	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	2.7	1	07/21/06	07/23/06	J
Selenium	EPA 200.8	6G21128	0.36	2.0	0.47	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	6.4	1	07/21/06	07/23/06	J

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1745

Sampled: 07/20/06
 Received: 07/20/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1745-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.41	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/26/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.63	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.051	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.65	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	1.0	1	07/25/06	07/25/06	
Sample ID: IPG1745-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	20	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	7.0	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	170	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	ND	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.12	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.12	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	70	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	360	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G23020	0.50	1.0	11	1	07/23/06	07/23/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	20	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	12	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.78	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1745-01 (PM-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	600	1	07/24/06	07/24/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-EFF (IPG1745-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/20/2006 11:15	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 11:15	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 11:15	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 06:10

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Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	

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 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: IPG1745

Sampled: 07/20/06
 Received: 07/20/06

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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	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: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-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: 6G22032 Extracted: 07/22/06											
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23020 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23020-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/23/2006 (6G23020-BS1)											
Total Organic Carbon	10.6	1.0	0.25	mg/l	10.0		106	90-110			
Matrix Spike Analyzed: 07/23/2006 (6G23020-MS1)											
						Source: IPG1702-03					
Total Organic Carbon	11.0	1.0	0.25	mg/l	5.00	6.3	94	80-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23020-MSD1)											
						Source: IPG1702-03					
Total Organic Carbon	11.2	1.0	0.25	mg/l	5.00	6.3	98	80-120	2	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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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: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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 Report Number: IPG1745

Sampled: 07/20/06
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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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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R-2A Pond Pilot Test
Report Number: IPG1745

Sampled: 07/20/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1745

Sampled: 07/20/06
 Received: 07/20/06

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
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
 Michele Chamberlin
 Project Manager

IR 1745

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 = 83° pH = 6.8					
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Comments					
Sampler: A. Barros		Fax Number: (626) 568-6515		Total Organic Carbon Oil & Grease (EPA 413.1)							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	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
PM-EFF	W	Poly-1L	1	7/20/06 11:45	HNO3	1					
PM-EFF	W	Poly-1L	1		None	2					
PM-EFF	W	VOAs	2		HCl	3A, 3B					
PM-EFF	W	1L Amber	2		HCl	4A, 4B	X				
PM-EFF	W	Poly-500 ml	1		H2SO4	5	X				
PM-EFF	W	Poly-500 ml	1		None	6		X			
PM-EFF	W	Poly-500 ml	2		None	7A, 7B			X		
PM-EFF	W	Poly-500 ml	1	7/20/06 11:15	H2SO4	8				X	
PM-EFF	W	Poly-1L	1		None	9					
Relinquished By	A. Barros		Date/Time	7/20/06 1650	Received By	[Signature]		Date/Time	7-20-06 1650	Turn around Time: (check)	24 Hours
Relinquished By	[Signature]		Date/Time	7-20-06 1940	Received By	[Signature]		Date/Time	7/20/06 1940	48 Hours	10 Days
Relinquished By	[Signature]		Date/Time		Received By	[Signature]		Date/Time		72 Hours	Normal
										Perchlorate Only 72 Hours	
										Metals Only 72 Hours	
										Sample Integrity (Check) Intact	5C

1745

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:52

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

IPG1746-01

CLIENT ID

S-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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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: IPG1746

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1746-01 (S-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.088	1	07/21/06	07/23/06	
Sample ID: IPG1746-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.43	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	0.66	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.17	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	30	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.41	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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Sampled: 07/20/06
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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: IPG1746-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1746-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.42	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.64	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	ND	1	07/22/06	07/24/06	
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.76	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1746-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	1.0	1	07/25/06	07/25/06	
Sample ID: IPG1746-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.1	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	180	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.84	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	190	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.11	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.11	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	71	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	350	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G24071	0.50	1.0	11	1	07/24/06	07/24/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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Report Number: IPG1746

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Received: 07/20/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1746-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	1.4	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1746-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.77	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1746-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	600	1	07/24/06	07/24/06	

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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: S-EFF (IPG1746-01) - Water					
EPA 150.1	1	07/20/2006 10:07	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:07	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:07	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 06:34

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1746

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-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: 6G22032 Extracted: 07/22/06											
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)											
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	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
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24071 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24071-BLK1)											
Total Organic Carbon	0.487	1.0	0.25	mg/l							J
LCS Analyzed: 07/24/2006 (6G24071-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1)						Source: IPG1972-03					
Total Organic Carbon	11.6	1.0	0.25	mg/l	5.00	6.9	94	80-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1)						Source: IPG1972-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	6.9	104	80-120	4	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: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1746

Sampled: 07/20/06
 Received: 07/20/06

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
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
 Michele Chamberlin
 Project Manager

IR 1746

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: **L. Barrad**

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)	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	Field readings: Temp = 82° pH = 6.8	Comments
S-EFF	W	Poly-1L	1	7/20/06 10:57	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										
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	7/20/06 10:57	H2SO4	8							X			
S-EFF	W	Poly-1L	1		None	9								X		

Relinquished By: **L. Barrad** Date/Time: 7/20/06 1650

Received By: **[Signature]** Date/Time: 7-20-06 1650

Relinquished By: **[Signature]** Date/Time: 7-20-06 1940

Received By: **[Signature]** Date/Time: 7/20/06 1940

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) On Ice: **SE**

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:56

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
IPG1747-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1747

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	1.6	1	07/21/06	07/23/06	
Sample ID: IPG1747-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.45	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	4.7	1	07/21/06	07/23/06	J
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	0.060	1	07/21/06	07/24/06	J
Chromium	EPA 200.7	6G21132	0.68	5.0	1.7	1	07/21/06	07/23/06	J
Copper	EPA 200.8	6G21128	0.49	2.0	2.1	1	07/21/06	07/24/06	
Lead	EPA 200.8	6G21128	0.13	1.0	1.8	1	07/21/06	07/24/06	
Manganese	EPA 200.7	6G21132	3.2	20	140	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	3.0	1	07/21/06	07/23/06	J
Selenium	EPA 200.8	6G21128	0.36	2.0	0.44	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	13	1	07/21/06	07/23/06	J

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Sampled: 07/20/06
 Received: 07/20/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1747-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.42	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.58	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.040	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.73	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1747-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	43	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	2.0	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	180	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.56	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	190	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.080	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.080	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.94	5.0	1.2	1	07/22/06	07/22/06	J
Sulfate	EPA 300.0	6G20126	1.8	5.0	71	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	350	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G23020	0.50	1.0	11	1	07/23/06	07/23/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	43	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	16	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.88	1	07/21/06	07/21/06	

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Report Number: IPG1747

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1747-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	600	1	07/24/06	07/24/06	

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R-2A Pond Pilot Test
Report Number: IPG1747

Sampled: 07/20/06
Received: 07/20/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: PT-INF (IPG1747-01) - Water					
EPA 150.1	1	07/20/2006 10:40	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:40	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:40	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 06:59

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1) Source: IPG1739-01											
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1) Source: IPG1739-01											
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	70-130	2	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130	0	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	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: 6G22032 Extracted: 07/22/06											
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23020 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23020-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/23/2006 (6G23020-BS1)											
Total Organic Carbon	10.6	1.0	0.25	mg/l	10.0		106	90-110			
Matrix Spike Analyzed: 07/23/2006 (6G23020-MS1)											
						Source: IPG1702-03					
Total Organic Carbon	11.0	1.0	0.25	mg/l	5.00	6.3	94	80-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23020-MSD1)											
						Source: IPG1702-03					
Total Organic Carbon	11.2	1.0	0.25	mg/l	5.00	6.3	98	80-120	2	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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: IPG1747

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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
 Michele Chamberlin
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IPG 1747

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 Manager: Bronwyn Kelly Sampler: <i>A. Benigno</i>		Project: Boeing-SSFL BMP/PPDES 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, 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										Field readings: Temp = 83° pH = 6.9 Comments			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	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	Field readings: Temp = 83° pH = 6.9 Comments	
PT-INF	W	Poly-1L	1	7-20-06 10:40	HNO3	1	X	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 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	7-20-06 10:40	None	9											
Relinquished By	<i>[Signature]</i>	7-20-06		Date/Time: 1650	Received By	<i>[Signature]</i>	7-20-06	Date/Time: 1650	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>								
Relinquished By	<i>[Signature]</i>	7-20-06		Date/Time: 1940	Received By	<i>[Signature]</i>	7-20-06	Date/Time: 1940	Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity (Check) <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>								
Relinquished By	<i>[Signature]</i>			Date/Time:	Received By			Date/Time:									

M 2200

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 16:47

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

IPG1738-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



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: IPG1738

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1738-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.12	1	07/21/06	07/23/06	
Sample ID: IPG1738-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.73	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	0.031	1	07/21/06	07/24/06	J
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	1.1	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.36	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	37	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.43	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	0.16	1	07/21/06	07/24/06	J
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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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: IPG1738-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1738-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.47	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	4.8	1	07/21/06	07/22/06	J
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	0.035	1	07/22/06	07/24/06	J
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	1.5	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.086	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.67	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1738-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1738-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.4	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	180	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	1.1	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.12	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	M1
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.12	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	1.0	1	07/22/06	07/22/06	J
Sulfate	EPA 300.0	6G20126	0.36	1.0	74	2	07/20/06	07/21/06	M-3
Total Dissolved Solids	SM2540C	6G24064	10	10	360	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G21146	0.50	1.0	12	1	07/21/06	07/21/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1738-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	1.8	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1738-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.67	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1738-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	570	1	07/24/06	07/24/06	

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Report Number: IPG1738

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Received: 07/20/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPG1738-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/20/2006 11:02	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 11:02	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 11:02	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 00:14

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	85-115			

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 Report Number: IPG1738

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	70-130	2	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130	0	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
						Source: IPG1866-02					
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
						Source: IPG1866-02					
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	70-130	0	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G21146 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21146-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: 6G21146 Extracted: 07/21/06											
LCS Analyzed: 07/21/2006 (6G21146-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1)											
						Source: IPG1372-03					
Total Organic Carbon	12.0	1.0	0.25	mg/l	5.00	7.7	86	80-120			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1)											
						Source: IPG1372-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	7.7	88	80-120	1	20	
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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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: 6G23021 Extracted: 07/23/06</u>											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
<u>Batch: 6G24062 Extracted: 07/24/06</u>											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
<u>Batch: 6G24063 Extracted: 07/24/06</u>											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
<u>Batch: 6G24064 Extracted: 07/24/06</u>											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1738

Sampled: 07/20/06
Received: 07/20/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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Sampled: 07/20/06
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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
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
 Michele Chamberlin
 Project Manager

IRG 1738

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		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Project Manager: Bronwyn Kelly Sampler: R. Barroso		ANALYSIS REQUIRED 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										Field readings: Temp = 83° pH = 6.8 Comments
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	SO4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N)	Turbidity, TSS, Conductivity	Ammonia-N (NH3-N)	Total Dissolved Metals	Field readings		
LC-EFF	W	Poly-1L	1	7/20/06 11:02	HNO3	1	X	X										
LC-EFF	W	Poly-1L	1	7/20/06 11:02	None	2		X										
LC-EFF	W	VGAs	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	7/20/06 11:02	None	9												
Relinquished By: R. Barroso Date/Time: 7/20/06 1650 Received By: [Signature] Date/Time: 7/20/06 1650 Relinquished By: [Signature] Date/Time: 7/20/06 1940 Received By: [Signature] Date/Time: 7/20/06 1940 Relinquished By: [Signature] Date/Time: [] Received By: [Signature] Date/Time: []																		
Turn around Time: (check) 5 Days _____ 24 Hours _____ 10 Days _____ 48 Hours _____ Normal _____ 72 Hours _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact _____ On Ice: _____																		

DA 1200

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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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 16:56

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
IPG1739-01

CLIENT ID
AC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1739

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1739-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.13	1	07/21/06	07/23/06	
Sample ID: IPG1739-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.50	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	5.6	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	ND	1	07/21/06	07/24/06	
Lead	EPA 200.8	6G21128	0.13	1.0	0.23	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	41	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.50	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	0.080	1	07/21/06	07/24/06	J
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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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: IPG1739-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1739-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.42	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.57	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.066	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.58	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
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Sampled: 07/20/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1739-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1739-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	2.2	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	190	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	2.0	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	190	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.090	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.090	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	72	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	350	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G24071	0.50	1.0	7.2	1	07/24/06	07/24/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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Received: 07/20/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1739-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	2.2	1	07/21/06	07/21/06	

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Sampled: 07/20/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1739-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.72	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1739-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	570	1	07/24/06	07/24/06	

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Received: 07/20/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: AC-EFF (IPG1739-01) - Water					
EPA 150.1	1	07/20/2006 11:20	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 11:20	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 11:20	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 03:19

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Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	85-115			

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 Report Number: IPG1739

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	ug/l							

TestAmerica - Irvine, CA
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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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130	0	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	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: 6G22032 Extracted: 07/22/06											
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)											
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	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
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24071 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24071-BLK1)											
Total Organic Carbon	0.487	1.0	0.25	mg/l							J
LCS Analyzed: 07/24/2006 (6G24071-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1)						Source: IPG1972-03					
Total Organic Carbon	11.6	1.0	0.25	mg/l	5.00	6.9	94	80-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1)						Source: IPG1972-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	6.9	104	80-120	4	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: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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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IR 1739

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

Client Name/Address: **MWH-Pasadena**
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Project: **Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test**

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Phone Number: (626) 568-6691
 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, Tl, Fe, Zn, Hardness	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	Field readings: Temp = 81° pH = 6.9	Comments
AC-EFF	W	Poly-1L	1	7-20-06 11:30	HNO3	1	X	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	7-20-06 11:30	None	9								X		

Relinquished By: *[Signature]* Date/Time: 7/20/06 1650
 Received By: *[Signature]* Date/Time: 7/20/06 1650

Relinquished By: *[Signature]* Date/Time: 7-20-06 1940
 Received By: *[Signature]* Date/Time: 7/20/06/1940

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

Turn around Time: (check)
 1: Hours _____ 5 Days _____
 2: Hours _____ 10 Days _____
 4: Hours _____ 7 Hours _____ Normal
 7: Hours _____
 P: chlorate Only 72 Hours _____
 Metals Only 72 Hours _____
 Sample Integrity: (Check) On Ice: *[Signature]*

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:05

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

IPG1740-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1740

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1740-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.79	1	07/21/06	07/23/06	
Sample ID: IPG1740-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.47	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	4.6	1	07/21/06	07/23/06	J
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	0.028	1	07/21/06	07/24/06	J
Chromium	EPA 200.7	6G21132	0.68	5.0	0.85	1	07/21/06	07/23/06	J
Copper	EPA 200.8	6G21128	0.49	2.0	1.2	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.98	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	110	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	3.4	1	07/21/06	07/23/06	J
Selenium	EPA 200.8	6G21128	0.36	2.0	0.40	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1740

Sampled: 07/20/06
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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: IPG1740-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	0.017	1	07/21/06	07/22/06	J
Sample ID: IPG1740-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.43	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.60	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.071	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.73	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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 Report Number: IPG1740

Sampled: 07/20/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1740-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	1.0	1	07/25/06	07/25/06	
Sample ID: IPG1740-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	13	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.1	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	160	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.84	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.11	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.11	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.90	4.8	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	71	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	350	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G21146	0.50	1.0	12	1	07/21/06	07/21/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	13	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1740-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	9.2	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1740-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.64	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1740-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	580	1	07/24/06	07/24/06	

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 Received: 07/20/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: BST-EFF (IPG1740-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/20/2006 11:28	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 11:28	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 11:28	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 03:43

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Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	70-130	2	20	

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Report Number: IPG1740

Sampled: 07/20/06
Received: 07/20/06

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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	70-130	2	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1740

Sampled: 07/20/06
 Received: 07/20/06

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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
						Source: IPG1866-02					
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
						Source: IPG1866-02					
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	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
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G21146 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21146-BLK1)											
Total Organic Carbon	ND	1.0	0.25	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: 6G21146 Extracted: 07/21/06											
LCS Analyzed: 07/21/2006 (6G21146-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1)											
						Source: IPG1372-03					
Total Organic Carbon	12.0	1.0	0.25	mg/l	5.00	7.7	86	80-120			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1)											
						Source: IPG1372-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	7.7	88	80-120	1	20	
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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 Report Number: IPG1740

Sampled: 07/20/06
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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: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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R-2A Pond Pilot Test
Report Number: IPG1740

Sampled: 07/20/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1740

Sampled: 07/20/06
 Received: 07/20/06

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
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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CHAIN OF CUSTODY FORM

1740

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	
Project Manager: Bronwyn Kelly Sampler: <i>A. Burns</i>		Sample Description BST-EFF		Sample Matrix W	
Container Type Poly-1L		# of Cont. 1		Preservative HNO3	
Sample Matrix W		Container Type Poly-1L		Bottle # 1	
Sample Matrix W		Container Type VOCs		Bottle # 2	
Sample Matrix W		Container Type 1L Amber		Bottle # 3A, 3B 4A, 4B	
Sample Matrix W		Container Type Poly-500 ml		Bottle # 5	
Sample Matrix W		Container Type Poly-500 ml		Bottle # 6	
Sample Matrix W		Container Type Poly-500 ml		Bottle # 7A, 7B	
Sample Matrix W		Container Type Poly-500 ml		Bottle # 8	
Sample Matrix W		Container Type Poly-1L		Bottle # 9	

Relinquished By <i>A. Burns</i>	Date/Time 7/20/06 1650	Received By <i>[Signature]</i>	Date/Time 7-20-06 1650
Relinquished By <i>[Signature]</i>	Date/Time 7-20-06 1940	Received By <i>[Signature]</i>	Date/Time 7/20/06 1940
Relinquished By <i>[Signature]</i>	Date/Time 7-20-06 1940	Received By <i>[Signature]</i>	Date/Time 7-20-06 1940

ANALYSIS REQUIRED										Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>
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	Field readings: Temp = <i>81.0</i> pH = <i>6.6</i>	Comments		
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	Field readings: Temp = <i>81.0</i> pH = <i>6.6</i>	Comments		

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:11

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

IPG1741-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



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Michele Chamberlin
Project Manager

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1741

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1741-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.24	1	07/21/06	07/23/06	
Sample ID: IPG1741-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.45	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	2.1	1	07/21/06	07/24/06	
Lead	EPA 200.8	6G21128	0.13	1.0	0.34	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	53	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.56	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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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: IPG1741-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1741-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.44	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.85	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.042	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.89	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1741-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1741-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	11	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.4	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	170	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	1.1	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	190	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.087	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.087	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	2.6	1	07/22/06	07/22/06	J
Sulfate	EPA 300.0	6G20126	1.8	5.0	70	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	360	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G21146	0.50	1.0	11	1	07/21/06	07/21/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	11	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1741-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	3.4	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1741-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.75	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1741-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	570	1	07/24/06	07/24/06	

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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 (IPG1741-01) - Water					
EPA 150.1	1	07/20/2006 10:41	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:41	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:41	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 04:07

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	70-130	0	20	

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1741

Sampled: 07/20/06
 Received: 07/20/06

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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
						Source: IPG1866-02					
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
						Source: IPG1866-02					
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	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: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G21146 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21146-BLK1)											
Total Organic Carbon	ND	1.0	0.25	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: 6G21146 Extracted: 07/21/06											
LCS Analyzed: 07/21/2006 (6G21146-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1)											
						Source: IPG1372-03					
Total Organic Carbon	12.0	1.0	0.25	mg/l	5.00	7.7	86	80-120			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1)											
						Source: IPG1372-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	7.7	88	80-120	1	20	
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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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: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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Sampled: 07/20/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1741

Sampled: 07/20/06
 Received: 07/20/06

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
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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CHAIN OF CUSTODY FORM

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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: R Baraso			Phone Number: (626) 568-6691 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, Tl, Fe*	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments (Concentration (ASTM Method)	Total Organic Carbon (EPA 413.1)	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*	Field readings: Temp = 82° pH = 6.7	Comments					
V-EFF	W	Poly-1L	1	7/20/06 10:41	HNO3	1	X	X														
V-EFF	W	Poly-1L	1		None	2		X														
V-EFF	W	VOAS	2		HCl	3A, 3B			X													
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	7/20/06 10:54	None	9									X							
Relinquished By	R. Baraso			Date/Time	7/20/06 10:40			Received By	[Signature]			Date/Time	7/20/06 16:50			Turn around Time: (check)	24 Hours _____ 5 Days _____					
Relinquished By	[Signature]			Date/Time	7-20-06 19:40			Received By	[Signature]			Date/Time	7/20/06 19:40			48 Hours _____ 10 Days _____						
Relinquished By	[Signature]			Date/Time				Received By	[Signature]			Date/Time				72 Hours _____ Normal _____ X						
															Perchlorate Only 72 Hours _____		Metals Only 72 Hours _____		Sample Integrity: (Check) Intact _____		On Ice: _____	

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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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:16

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

IPG1742-01

CLIENT ID

P-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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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: IPG1742

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1742-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.36	1	07/21/06	07/23/06	
Sample ID: IPG1742-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.45	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	ND	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	0.89	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.46	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	62	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.51	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	ND	1	07/21/06	07/24/06	
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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 Report Number: IPG1742

Sampled: 07/20/06
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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: IPG1742-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1742-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.43	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.66	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.050	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.61	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1742

Sampled: 07/20/06
 Received: 07/20/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1742-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	1.0	1	07/25/06	07/25/06	
Sample ID: IPG1742-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.1	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	190	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.84	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.099	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.099	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	1.9	1	07/22/06	07/22/06	J
Sulfate	EPA 300.0	6G20126	1.8	5.0	71	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	360	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G21146	0.50	1.0	12	1	07/21/06	07/21/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1742-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	4.3	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1742-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.80	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1742-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	580	1	07/24/06	07/24/06	

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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 (IPG1742-01) - Water					
EPA 150.1	1	07/20/2006 10:26	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:26	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:26	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 04:32

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1)											
						Source: IPG1739-01					
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1)											
						Source: IPG1739-01					
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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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: IPG1742

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G21146 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21146-BLK1)											
Total Organic Carbon	ND	1.0	0.25	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: 6G21146 Extracted: 07/21/06											
LCS Analyzed: 07/21/2006 (6G21146-BS1)											
Total Organic Carbon	10.7	1.0	0.25	mg/l	10.0		107	90-110			
Matrix Spike Analyzed: 07/21/2006 (6G21146-MS1)											
						Source: IPG1372-03					
Total Organic Carbon	12.0	1.0	0.25	mg/l	5.00	7.7	86	80-120			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21146-MSD1)											
						Source: IPG1372-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	7.7	88	80-120	1	20	
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			

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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: 6G23021 Extracted: 07/23/06											
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)						Source: IPG1563-01					
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)						Source: IPG1563-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)						Source: IPG1738-01					
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	90-110			
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G24064 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1742

Sampled: 07/20/06
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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
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
 Michele Chamberlin
 Project Manager

IR 1742

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/NPDES R-2A Pond Filtration Pilot Test**

Project Manager: **Brianwyn Kelly**

Sampler: **L. Barrow**

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

ANALYSIS REQUIRED

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 Address	Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon (EPA 413.1)	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	Field readings: Temp = 82° pH = 6.8	Comments
P-EFF	W	Poly-1L	1	7/20/06 10:26	HNO3	1	X		X								
P-EFF	W	Poly-1L	1		None	2			X								
P-EFF	W	VOCs	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	7/20/06 10:26	H2SO4	8								X			
P-EFF	W	Poly-1L	1		None	9									X		

Relinquished By: **L. Barrow** Date/Time: **7/20/06 1650**

Received By: **W. U.** Date/Time: **7-20-06 1650**

Relinquished By: **W. U.** Date/Time: **7-20-06 1940**

Received By: **W. U.** Date/Time: **7/20/06 1940**

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) **X** On Ice: **Si**
 Intact _____

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: 07/20/06
Received: 07/20/06
Issued: 07/25/06 17:32

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

IPG1743-01

CLIENT ID

Z-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1743

Sampled: 07/20/06
 Received: 07/20/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1743-01 (Z-DUP-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G21132	0.0088	0.040	0.27	1	07/21/06	07/23/06	
Sample ID: IPG1743-01 (Z-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G21128	0.18	2.0	0.46	1	07/21/06	07/24/06	J
Arsenic	EPA 200.7	6G21132	3.8	5.0	5.2	1	07/21/06	07/23/06	
Beryllium	EPA 200.7	6G21132	0.62	2.0	ND	1	07/21/06	07/23/06	
Cadmium	EPA 200.8	6G21128	0.015	1.0	ND	1	07/21/06	07/24/06	
Chromium	EPA 200.7	6G21132	0.68	5.0	ND	1	07/21/06	07/23/06	
Copper	EPA 200.8	6G21128	0.49	2.0	0.67	1	07/21/06	07/24/06	J
Lead	EPA 200.8	6G21128	0.13	1.0	0.43	1	07/21/06	07/24/06	J
Manganese	EPA 200.7	6G21132	3.2	20	62	1	07/21/06	07/23/06	
Mercury	EPA 245.1	6G21062	0.063	0.20	ND	1	07/21/06	07/21/06	
Nickel	EPA 200.7	6G21132	2.0	10	ND	1	07/21/06	07/23/06	
Selenium	EPA 200.8	6G21128	0.36	2.0	0.53	1	07/21/06	07/24/06	J
Silver	EPA 200.8	6G21128	0.089	1.0	ND	1	07/21/06	07/24/06	
Thallium	EPA 200.8	6G21128	0.075	1.0	0.12	1	07/21/06	07/24/06	J
Zinc	EPA 200.7	6G21132	3.7	20	ND	1	07/21/06	07/23/06	

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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: IPG1743-01 (Z-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21135	0.015	0.040	ND	1	07/21/06	07/22/06	
Sample ID: IPG1743-01 (Z-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G22026	0.050	2.0	0.43	1	07/22/06	07/24/06	J
Arsenic	EPA 200.7-Diss	6G21135	4.4	5.0	ND	1	07/21/06	07/22/06	
Beryllium	EPA 200.7-Diss	6G21135	0.90	2.0	ND	1	07/21/06	07/22/06	
Cadmium	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Chromium	EPA 200.7-Diss	6G21135	2.0	5.0	ND	1	07/21/06	07/22/06	
Copper	EPA 200.8-Diss	6G22026	0.25	2.0	0.57	1	07/22/06	07/24/06	J
Lead	EPA 200.8-Diss	6G22026	0.040	1.0	0.041	1	07/22/06	07/24/06	J
Manganese	EPA 200.7-Diss	6G21135	7.0	20	ND	1	07/21/06	07/22/06	
Mercury	EPA 245.1-Diss	6G24083	0.15	0.20	ND	1	07/24/06	07/24/06	
Nickel	EPA 200.7-Diss	6G21135	2.0	10	ND	1	07/21/06	07/22/06	
Selenium	EPA 200.8-Diss	6G22026	0.30	2.0	0.78	1	07/22/06	07/24/06	J
Silver	EPA 200.8-Diss	6G22026	0.025	1.0	ND	1	07/22/06	07/24/06	
Thallium	EPA 200.8-Diss	6G22026	0.15	1.0	ND	1	07/22/06	07/24/06	
Zinc	EPA 200.7-Diss	6G21135	15	20	ND	1	07/21/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1743-01 (Z-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG1743-01 (Z-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G25106	10	10	ND	1	07/25/06	07/25/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G24106	0.43	0.50	1.1	1	07/24/06	07/24/06	
Alkalinity as CaCO3	EPA 310.1	6G24062	2.0	2.0	180	1	07/24/06	07/24/06	
Ammonia-N (Distilled)	EPA 350.2	6G23021	0.30	0.50	0.56	1	07/23/06	07/23/06	
Hardness (as CaCO3)	SM2340B	6G21132	1.0	1.0	200	1	07/21/06	07/23/06	
Nitrate-N	EPA 300.0	6G20126	0.080	0.15	0.096	1	07/20/06	07/21/06	J
Nitrite-N	EPA 300.0	6G20126	0.080	0.15	ND	1	07/20/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G20126	0.072	0.26	0.096	1	07/20/06	07/21/06	J
Oil & Grease	EPA 413.1	6G22032	0.89	4.7	ND	1	07/22/06	07/22/06	
Sulfate	EPA 300.0	6G20126	1.8	5.0	70	10	07/20/06	07/21/06	
Total Dissolved Solids	SM2540C	6G24064	10	10	360	1	07/24/06	07/24/06	
Total Organic Carbon	EPA 415.1	6G24071	0.50	1.0	12	1	07/24/06	07/24/06	
Total Suspended Solids	EPA 160.2	6G21118	10	10	ND	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1743-01 (Z-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G21126	0.040	1.0	3.7	1	07/21/06	07/21/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1743-01 (Z-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G21084	N/A	NA	7.78	1	07/21/06	07/21/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1743

Sampled: 07/20/06
Received: 07/20/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1743-01 (Z-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G24063	N/A	1.0	590	1	07/24/06	07/24/06	

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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: Z-DUP-EFF (IPG1743-01) - Water					
EPA 150.1	1	07/20/2006 10:55	07/20/2006 19:40	07/21/2006 09:30	07/21/2006 10:20
EPA 180.1	2	07/20/2006 10:55	07/20/2006 19:40	07/21/2006 10:00	07/21/2006 15:40
EPA 300.0	2	07/20/2006 10:55	07/20/2006 19:40	07/20/2006 23:00	07/21/2006 04:56

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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: 6G21062 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21062-BLK1)											
Mercury	ND	0.20	0.063	ug/l							
LCS Analyzed: 07/21/2006 (6G21062-BS1)											
Mercury	8.06	0.20	0.063	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/21/2006 (6G21062-MS1)											
						Source: IPG1456-01					
Mercury	8.20	0.20	0.063	ug/l	8.00	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/21/2006 (6G21062-MSD1)											
						Source: IPG1456-01					
Mercury	8.25	0.20	0.063	ug/l	8.00	ND	103	70-130	1	20	
Batch: 6G21128 Extracted: 07/21/06											
Blank Analyzed: 07/24/2006 (6G21128-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	ND	1.0	0.015	ug/l							
Copper	ND	2.0	0.49	ug/l							
Lead	ND	1.0	0.13	ug/l							
Selenium	ND	2.0	0.36	ug/l							
Silver	0.279	1.0	0.089	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/24/2006 (6G21128-BS1)											
Antimony	84.7	2.0	0.18	ug/l	80.0		106	85-115			
Cadmium	85.9	1.0	0.015	ug/l	80.0		107	85-115			
Copper	78.4	2.0	0.49	ug/l	80.0		98	85-115			
Lead	83.5	1.0	0.13	ug/l	80.0		104	85-115			
Selenium	84.1	2.0	0.36	ug/l	80.0		105	85-115			
Silver	83.8	1.0	0.089	ug/l	80.0		105	85-115			
Thallium	84.3	1.0	0.075	ug/l	80.0		105	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: 6G21128 Extracted: 07/21/06											
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS1)						Source: IPG1738-01					
Antimony	86.4	2.0	0.18	ug/l	80.0	0.73	107	70-130			
Cadmium	84.0	1.0	0.015	ug/l	80.0	0.031	105	70-130			
Copper	77.1	2.0	0.49	ug/l	80.0	1.1	95	70-130			
Lead	81.1	1.0	0.13	ug/l	80.0	0.36	101	70-130			
Selenium	82.4	2.0	0.36	ug/l	80.0	0.43	102	70-130			
Silver	80.5	1.0	0.089	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.075	ug/l	80.0	0.16	103	70-130			
Matrix Spike Analyzed: 07/24/2006 (6G21128-MS2)						Source: IPG1871-01					
Antimony	83.8	8.0	0.72	ug/l	80.0	1.4	103	70-130			
Cadmium	80.1	4.0	0.060	ug/l	80.0	ND	100	70-130			
Copper	75.0	8.0	2.0	ug/l	80.0	5.1	87	70-130			
Lead	76.1	4.0	0.52	ug/l	80.0	ND	95	70-130			
Selenium	121	8.0	1.4	ug/l	80.0	36	106	70-130			
Silver	76.9	4.0	0.36	ug/l	80.0	ND	96	70-130			
Thallium	78.4	4.0	0.30	ug/l	80.0	0.69	97	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G21128-MSD1)						Source: IPG1738-01					
Antimony	84.8	2.0	0.18	ug/l	80.0	0.73	105	70-130	2	20	
Cadmium	81.9	1.0	0.015	ug/l	80.0	0.031	102	70-130	3	20	
Copper	75.0	2.0	0.49	ug/l	80.0	1.1	92	70-130	3	20	
Lead	80.3	1.0	0.13	ug/l	80.0	0.36	100	70-130	1	20	
Selenium	81.9	2.0	0.36	ug/l	80.0	0.43	102	70-130	1	20	
Silver	78.9	1.0	0.089	ug/l	80.0	ND	99	70-130	2	20	
Thallium	81.1	1.0	0.075	ug/l	80.0	0.16	101	70-130	1	20	

Batch: 6G21132 Extracted: 07/21/06

Blank Analyzed: 07/23/2006 (6G21132-BLK1)

Arsenic	ND	5.0	3.8	ug/l							
Beryllium	ND	2.0	0.62	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	0.68	ug/l							
Iron	ND	0.040	0.0088	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	3.2	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: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	3.7	ug/l							
LCS Analyzed: 07/23/2006 (6G21132-BS1)											
Arsenic	466	5.0	3.8	ug/l	500		93	85-115			
Beryllium	473	2.0	0.62	ug/l	500		95	85-115			
Calcium	2.36	0.10	N/A	mg/l	2.50		94	85-115			
Chromium	474	5.0	0.68	ug/l	500		95	85-115			
Iron	0.471	0.040	0.0088	mg/l	0.500		94	85-115			
Magnesium	2.39	0.020	N/A	mg/l	2.50		96	85-115			
Manganese	471	20	3.2	ug/l	500		94	85-115			
Nickel	467	10	2.0	ug/l	500		93	85-115			
Zinc	462	20	3.7	ug/l	500		92	85-115			
Matrix Spike Analyzed: 07/23/2006 (6G21132-MS1) Source: IPG1739-01											
Arsenic	515	5.0	3.8	ug/l	500	5.6	102	70-130			
Beryllium	512	2.0	0.62	ug/l	500	ND	102	70-130			
Calcium	55.0	0.10	N/A	mg/l	2.50	53	80	70-130			M-HA
Chromium	499	5.0	0.68	ug/l	500	ND	100	70-130			
Iron	0.634	0.040	0.0088	mg/l	0.500	0.13	101	70-130			
Magnesium	16.5	0.020	N/A	mg/l	2.50	14	100	70-130			
Manganese	540	20	3.2	ug/l	500	41	100	70-130			
Nickel	489	10	2.0	ug/l	500	ND	98	70-130			
Zinc	496	20	3.7	ug/l	500	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/23/2006 (6G21132-MSD1) Source: IPG1739-01											
Arsenic	504	5.0	3.8	ug/l	500	5.6	100	70-130	2	20	
Beryllium	497	2.0	0.62	ug/l	500	ND	99	70-130	3	20	
Calcium	56.7	0.10	N/A	mg/l	2.50	53	148	70-130	3	20	M-HA
Chromium	486	5.0	0.68	ug/l	500	ND	97	70-130	3	20	
Iron	0.630	0.040	0.0088	mg/l	0.500	0.13	100	70-130	1	20	
Magnesium	17.1	0.020	N/A	mg/l	2.50	14	124	70-130	4	20	
Manganese	535	20	3.2	ug/l	500	41	99	70-130	1	20	
Nickel	480	10	2.0	ug/l	500	ND	96	70-130	2	20	
Zinc	485	20	3.7	ug/l	500	ND	97	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: 6G21135 Extracted: 07/21/06											
Blank Analyzed: 07/22/2006 (6G21135-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: 07/22/2006 (6G21135-BS1)											
Arsenic	980	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	973	2.0	0.90	ug/l	1000		97	85-115			
Chromium	981	5.0	2.0	ug/l	1000		98	85-115			
Iron	0.957	0.040	0.015	mg/l	1.00		96	85-115			
Manganese	949	20	7.0	ug/l	1000		95	85-115			
Nickel	968	10	2.0	ug/l	1000		97	85-115			
Zinc	987	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/22/2006 (6G21135-MS1) Source: IPG1738-01											
Arsenic	985	5.0	4.4	ug/l	1000	4.8	98	70-130			
Beryllium	981	2.0	0.90	ug/l	1000	ND	98	70-130			
Chromium	951	5.0	2.0	ug/l	1000	ND	95	70-130			
Iron	0.936	0.040	0.015	mg/l	1.00	ND	94	70-130			
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130			
Nickel	933	10	2.0	ug/l	1000	ND	93	70-130			
Zinc	964	20	15	ug/l	1000	ND	96	70-130			
Matrix Spike Dup Analyzed: 07/22/2006 (6G21135-MSD1) Source: IPG1738-01											
Arsenic	998	5.0	4.4	ug/l	1000	4.8	99	70-130	1	20	
Beryllium	987	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	0.957	0.040	0.015	mg/l	1.00	ND	96	70-130	2	20	
Manganese	927	20	7.0	ug/l	1000	ND	93	70-130	0	20	
Nickel	950	10	2.0	ug/l	1000	ND	95	70-130	2	20	
Zinc	986	20	15	ug/l	1000	ND	99	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: 6G22026 Extracted: 07/22/06											
Blank Analyzed: 07/24/2006 (6G22026-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: 07/24/2006 (6G22026-BS1)											
Antimony	84.0	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	82.4	1.0	0.025	ug/l	80.0		103	85-115			
Copper	77.5	2.0	0.25	ug/l	80.0		97	85-115			
Lead	81.7	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	76.3	2.0	0.30	ug/l	80.0		95	85-115			
Silver	79.9	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	80.4	1.0	0.15	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G22026-MS1) Source: IPG1738-01											
Antimony	89.1	2.0	0.050	ug/l	80.0	0.47	111	70-130			
Cadmium	83.3	1.0	0.025	ug/l	80.0	0.035	104	70-130			
Copper	74.1	2.0	0.25	ug/l	80.0	1.5	91	70-130			
Lead	74.7	1.0	0.040	ug/l	80.0	0.086	93	70-130			
Selenium	77.2	2.0	0.30	ug/l	80.0	0.67	96	70-130			
Silver	78.9	1.0	0.025	ug/l	80.0	ND	99	70-130			
Thallium	74.8	1.0	0.15	ug/l	80.0	ND	94	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G22026-MSD1) Source: IPG1738-01											
Antimony	90.3	2.0	0.050	ug/l	80.0	0.47	112	70-130	1	20	
Cadmium	83.1	1.0	0.025	ug/l	80.0	0.035	104	70-130	0	20	
Copper	72.8	2.0	0.25	ug/l	80.0	1.5	89	70-130	2	20	
Lead	74.9	1.0	0.040	ug/l	80.0	0.086	94	70-130	0	20	
Selenium	76.1	2.0	0.30	ug/l	80.0	0.67	94	70-130	1	20	
Silver	77.9	1.0	0.025	ug/l	80.0	ND	97	70-130	1	20	
Thallium	74.9	1.0	0.15	ug/l	80.0	ND	94	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: 6G24083 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24083-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/24/2006 (6G24083-BS1)											
Mercury	8.06	0.20	0.15	ug/l	8.00		101	85-115			
Matrix Spike Analyzed: 07/24/2006 (6G24083-MS1)											
Mercury	6.99	0.20	0.15	ug/l	8.00	ND	87	70-130			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24083-MSD1)											
Mercury	7.02	0.20	0.15	ug/l	8.00	ND	88	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: 6G20126 Extracted: 07/20/06											
Blank Analyzed: 07/20/2006 (6G20126-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.456	0.50	0.18	mg/l							J
LCS Analyzed: 07/20/2006 (6G20126-BS1)											
Nitrate-N	1.13	0.15	0.080	mg/l	1.13		100	90-110			
Nitrite-N	1.50	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.69	0.50	0.18	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G20126-MS1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120			
Nitrite-N	1.93	0.15	0.080	mg/l	1.52	ND	127	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G20126-MSD1)											
						Source: IPG1738-01					
Nitrate-N	1.21	0.15	0.080	mg/l	1.13	0.12	96	80-120	0	20	
Nitrite-N	1.97	0.15	0.080	mg/l	1.52	ND	130	80-120	2	20	MI
Batch: 6G21084 Extracted: 07/21/06											
Duplicate Analyzed: 07/21/2006 (6G21084-DUP1)											
						Source: IPG1675-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/21/2006 (6G21084-DUP2)											
						Source: IPG1740-01					
pH	7.64	NA	N/A	pH Units		7.64			0	5	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21118 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21118-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/21/2006 (6G21118-BS1)											
Total Suspended Solids	970	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/21/2006 (6G21118-DUP1)											
Total Suspended Solids	96.0	10	10	mg/l		Source: IPG1363-04 100			4	10	
Batch: 6G21126 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21126-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/21/2006 (6G21126-DUP1)											
Turbidity	3.18	1.0	0.040	NTU		Source: IPG1688-01 3.2			1	20	
Duplicate Analyzed: 07/21/2006 (6G21126-DUP2)											
Turbidity	2.23	1.0	0.040	NTU		Source: IPG1739-01 2.2			1	20	
Batch: 6G21132 Extracted: 07/21/06											
Blank Analyzed: 07/23/2006 (6G21132-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G22032 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22032-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: 6G22032 Extracted: 07/22/06											
LCS Analyzed: 07/22/2006 (6G22032-BS1)											
Oil & Grease	19.0	5.0	0.94	mg/l	20.0		95	65-120			M-NR1
LCS Dup Analyzed: 07/22/2006 (6G22032-BSD1)											
Oil & Grease	18.2	5.0	0.94	mg/l	20.0		91	65-120	4	20	
Batch: 6G23021 Extracted: 07/23/06											
Blank Analyzed: 07/23/2006 (6G23021-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/23/2006 (6G23021-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/23/2006 (6G23021-MS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0	0.56	103	70-120			
Matrix Spike Dup Analyzed: 07/23/2006 (6G23021-MSD1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	0.56	106	70-120	3	15	
Batch: 6G24062 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24062-DUP1)											
Alkalinity as CaCO3	180	2.0	2.0	mg/l		180			0	20	
Reference Analyzed: 07/24/2006 (6G24062-SRM1)											
Alkalinity as CaCO3	232	2.0	2.0	mg/l	231		100	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: IPG1743

Sampled: 07/20/06
 Received: 07/20/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G24063 Extracted: 07/24/06											
Duplicate Analyzed: 07/24/2006 (6G24063-DUP1)						Source: IPG1738-01					
Specific Conductance	567	1.0	N/A	umhos/cm		570			1	5	
Batch: 6G24064 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24064-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/24/2006 (6G24064-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/24/2006 (6G24064-DUP1)						Source: IPG1738-01					
Total Dissolved Solids	361	10	10	mg/l		360			0	10	
Batch: 6G24071 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24071-BLK1)											
Total Organic Carbon	0.487	1.0	0.25	mg/l							J
LCS Analyzed: 07/24/2006 (6G24071-BS1)											
Total Organic Carbon	10.4	1.0	0.25	mg/l	10.0		104	90-110			
Matrix Spike Analyzed: 07/24/2006 (6G24071-MS1)						Source: IPG1972-03					
Total Organic Carbon	11.6	1.0	0.25	mg/l	5.00	6.9	94	80-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24071-MSD1)						Source: IPG1972-03					
Total Organic Carbon	12.1	1.0	0.25	mg/l	5.00	6.9	104	80-120	4	20	

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 Received: 07/20/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G24106 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24106-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/24/2006 (6G24106-BS1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120			
Matrix Spike Analyzed: 07/24/2006 (6G24106-MS1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	1.1	95	85-120			
Matrix Spike Dup Analyzed: 07/24/2006 (6G24106-MSD1)											
						Source: IPG1387-01					
Total Kjeldahl Nitrogen	11.2	0.50	0.43	mg/l	10.0	1.1	101	85-120	6	15	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	

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Sampled: 07/20/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 R-2A Pond Pilot Test
 Report Number: IPG1743

Sampled: 07/20/06
 Received: 07/20/06

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
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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II 91743

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: <i>R. Banaga</i>		Field readings: Temp = 82.0 pH = 7.0		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	
Z-DUP-EFF	W	Poly-1L	1	7-20-06 10:55	HNO3	1	X		X									
Z-DUP-EFF	W	Poly-1L	1		None	2			X									
Z-DUP-EFF	W	VOAs	2		HCl	3A, 3B				X								
Z-DUP-EFF	W	1L Amber	2		HCl	4A, 4B					X							
Z-DUP-EFF	W	Poly-500 ml	1		H2SO4	5						X						
Z-DUP-EFF	W	Poly-500 ml	1		None	6							X					
Z-DUP-EFF	W	Poly-500 ml	2		None	7A, 7B								X				
Z-DUP-EFF	W	Poly-500 ml	1		H2SO4	8										X		
Z-DUP-EFF	W	Poly-1L	1	7-20-06 10:55	None	9												
Relinquished By	<i>R. Banaga</i>	7-20-06	Date/Time:	Received By	<i>[Signature]</i>	7-20-06 1650	Date/Time:	Turn around Time: (check)	24 Hours	48 Hours	72 Hours	Perchlorate Only 72 Hours	Metals Only 72 Hours	Sample Integrity: (Check) Intact	On Ice:	<i>Si</i>		
Relinquished By	<i>[Signature]</i>	7-20-06 1946	Date/Time:	Received By	<i>[Signature]</i>	7-20-06 1946	Date/Time:	24 Hours	48 Hours	72 Hours	Perchlorate Only 72 Hours	Metals Only 72 Hours	Sample Integrity: (Check) Intact	On Ice:	<i>Si</i>			
Relinquished By	<i>[Signature]</i>	7-20-06	Date/Time:	Received By	<i>[Signature]</i>	7-20-06 1946	Date/Time:	24 Hours	48 Hours	72 Hours	Perchlorate Only 72 Hours	Metals Only 72 Hours	Sample Integrity: (Check) Intact	On Ice:	<i>Si</i>			

11/22/00

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: 07/21/06
Received: 07/21/06
Issued: 08/09/06 13:30

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

IPG1906-01

CLIENT ID

AC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1906

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1906-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.082	1	07/27/06	07/28/06	
Sample ID: IPG1906-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.37	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	0.45	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	0.12	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	31	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	ND	1	07/27/06	07/28/06	
Selenium	EPA 200.8	6G27067	0.30	2.0	0.37	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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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: IPG1906-01 (AC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1906-01 (AC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.59	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	08/07/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.39	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	ND	1	07/21/06	07/25/06	
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	ND	1	07/27/06	07/27/06	
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1906-01 (AC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	1.0	1	07/26/06	07/26/06	
Sample ID: IPG1906-01 (AC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G31067	0.43	0.50	2.0	1	07/31/06	07/31/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	170	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	210	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.13	1	07/21/06	07/22/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/22/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.13	1	07/21/06	07/22/06	J
Oil & Grease	EPA 413.1	6G24052	0.90	4.8	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	70	10	07/21/06	07/22/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	360	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26138	0.50	1.0	7.2	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1906-01 (AC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	1.5	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1906-01 (AC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.82	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1906-01 (AC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	590	1	07/26/06	07/26/06	

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R-2A Pond Pilot Test
Report Number: IPG1906

Sampled: 07/21/06
Received: 07/21/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: AC-EFF (IPG1906-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/21/2006 07:25	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:25	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:25	07/21/2006 17:10	07/21/2006 23:00	07/22/2006 01:53

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 Report Number: IPG1906

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	85-115			

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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: IPG1906

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	70-130	0	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	70-130	1	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			1	5	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26138 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26138-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/26/2006 (6G26138-BS1)											
Total Organic Carbon	10.2	1.0	0.25	mg/l	10.0		102	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: 6G26138 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1)						Source: IPG2014-02					
Total Organic Carbon	10.7	1.0	0.25	mg/l	5.00	5.4	106	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1)						Source: IPG2014-02					
Total Organic Carbon	10.3	1.0	0.25	mg/l	5.00	5.4	98	80-120	4	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G31067 Extracted: 07/31/06											
Blank Analyzed: 07/31/2006 (6G31067-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/31/2006 (6G31067-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/31/2006 (6G31067-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/31/2006 (6G31067-MS1)											
						Source: IPG1962-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/31/2006 (6G31067-MSD1)											
						Source: IPG1962-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1906

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG1906

Sampled: 07/21/06
 Received: 07/21/06

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
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
 Michele Chamberlin
 Project Manager

Del Mar Analytical CHAIN OF CUSTODY FORM

Version 04/28/06

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IPG 1906
Page 1 of 1

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 = 81° pH = 7.0									
Project Manager: Bronwyn Kelly		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, 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		Comments	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #																	
AC-EFF	W	Poly-1L	1	7-21-06 6:23	HNO3	1																	
AC-EFF	W	Poly-1L	1		None	2																	
AC-EFF	W	VOAS	2		HCl	3A, 3B																	
AC-EFF	W	1L Amber	2		HCl	4A, 4B																	
AC-EFF	W	Poly-500 ml	1		H2SO4	5																	
AC-EFF	W	Poly-500 ml	1		None	6																	
AC-EFF	W	Poly-500 ml	2		None	7A, 7B																	
AC-EFF	W	Poly-500 ml	1		H2SO4	8																	
AC-EFF	W	Poly-1L	1	7-21-06 6:25	None	9																	
Relinquished By: <i>Bronwyn Kelly</i>				Date/Time: 7/21/06 1110	Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1110																
Relinquished By: <i>[Signature]</i>				Date/Time: 7-21-06 1710	Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1710																
Relinquished By: <i>[Signature]</i>				Date/Time: 7-21-06 1710	Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1710																
							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 _____ 19° C		Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: _____										

FL
2000

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 18:24

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 19°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1908-01

CLIENT ID
Z-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1908

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.19	1	07/27/06	07/28/06	
Sample ID: IPG1908-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.42	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	5.8	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	0.69	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	0.32	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	57	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.1	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.46	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1908

Sampled: 07/21/06
 Received: 07/21/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1908-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.40	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.66	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.2	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	ND	1	07/27/06	07/27/06	
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1908

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	1.0	1	07/26/06	07/26/06	
Sample ID: IPG1908-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G31067	0.43	0.50	2.2	1	07/31/06	07/31/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	ND	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	190	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.094	1	07/21/06	07/22/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/22/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.094	1	07/21/06	07/22/06	J
Oil & Grease	EPA 413.1	6G24052	0.89	4.7	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	71	10	07/21/06	07/22/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	300	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26138	0.50	1.0	12	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1908

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	3.1	1	07/22/06	07/22/06	

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R-2A Pond Pilot Test
Report Number: IPG1908

Sampled: 07/21/06
Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.77	1	07/22/06	07/22/06	

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 R-2A Pond Pilot Test
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Sampled: 07/21/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1908-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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R-2A Pond Pilot Test
Report Number: IPG1908

Sampled: 07/21/06
Received: 07/21/06

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 (IPG1908-01) - Water					
EPA 150.1	1	07/21/2006 07:40	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:40	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:40	07/21/2006 17:10	07/21/2006 23:00	07/22/2006 02:41

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1908

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	85-115			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1908

Sampled: 07/21/06
Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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							

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1908

Sampled: 07/21/06
Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	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: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26138 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26138-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/26/2006 (6G26138-BS1)											
Total Organic Carbon	10.2	1.0	0.25	mg/l	10.0		102	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: 6G26138 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1)						Source: IPG2014-02					
Total Organic Carbon	10.7	1.0	0.25	mg/l	5.00	5.4	106	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1)						Source: IPG2014-02					
Total Organic Carbon	10.3	1.0	0.25	mg/l	5.00	5.4	98	80-120	4	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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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: 6G31067 Extracted: 07/31/06											
Blank Analyzed: 07/31/2006 (6G31067-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/31/2006 (6G31067-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/31/2006 (6G31067-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/31/2006 (6G31067-MS1)											
						Source: IPG1962-01					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/31/2006 (6G31067-MSD1)											
						Source: IPG1962-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	3	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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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IFG 1808

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

Client Name/Address: MVH-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 = 80° pH = 6.7		Comments:																							
Sampler: R. BANALIA		ANALYSIS REQUIRED		Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*		Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*		Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*																							
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*	Total Dissolved Solids, PH, Alkalinity, Suspended Sediments Concentration (ASTM Method)	Total Organic Carbon (EPA 413.1)	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*	Field readings:	Comments														
Z-EFF	W	Poly-1L	1	7-21-06 07:40	HNO3	1	X	X								Temp = 80° pH = 6.7															
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	7-21-06	H2SO4	8								X																	
Z-EFF	W	Poly-1L	1	07:40	None	9									X																
Relinquished By		7-21-06		Date/Time:		Received By		7-21-06		Date/Time:		1110		Date/Time:		Turn around Time: (check)		24 Hours		5 Days		48 Hours		10 Days		72 Hours		Normal		X	
Relinquished By		7-21-06		Date/Time:		Received By		7-21-06		Date/Time:		1710		Date/Time:		Perchlorate Only 72 Hours		Metals Only 72 Hours		Sample Integrity (Check)		Intact		On Ice:		AC		1710			

ER
2000

[Signature]

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 08:47

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 10°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1895-01

CLIENT ID
PT-INF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1895

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1895-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	1.4	1	07/27/06	07/28/06	
Sample ID: IPG1895-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.55	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	0.050	1	07/27/06	07/28/06	J
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	3.9	1	07/27/06	07/28/06	
Lead	EPA 200.8	6G27067	0.040	1.0	1.4	1	07/27/06	07/28/06	
Manganese	EPA 200.7	6G27064	7.0	20	150	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	5.4	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.62	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	0.080	1	07/27/06	07/28/06	J
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	23	1	07/27/06	07/28/06	

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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: IPG1895-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1895-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.68	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.67	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.1	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	0.53	1	07/27/06	07/27/06	J
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1895-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	1.0	1	07/26/06	07/26/06	
Sample ID: IPG1895-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	35	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	1.7	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	170	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	ND	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	210	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.098	1	07/21/06	07/21/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	M1
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.098	1	07/21/06	07/21/06	J
Oil & Grease	EPA 413.1	6G24052	0.90	4.8	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	0.36	1.0	74	2	07/21/06	07/21/06	M-3
Total Dissolved Solids	SM2540C	6G26116	10	10	310	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26130	0.50	1.0	11	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G26148	10	10	35	1	07/26/06	07/26/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1895-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	16	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1895-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.90	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1895-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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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: PT-INF (IPG1895-01) - Water					
EPA 150.1	1	07/21/2006 07:10	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:10	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:10	07/21/2006 17:10	07/21/2006 20:30	07/21/2006 20:45

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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: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	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: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	70-130	0	20	

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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: IPG1895

Sampled: 07/21/06
Received: 07/21/06

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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	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: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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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: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26130 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26130-BLK1)											
Total Organic Carbon	0.645	1.0	0.25	mg/l							J
LCS Analyzed: 07/26/2006 (6G26130-BS1)											
Total Organic Carbon	9.98	1.0	0.25	mg/l	10.0		100	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: 6G26130 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26130-MS1)						Source: IPG1866-01					
Total Organic Carbon	5.34	1.0	0.25	mg/l	5.00	ND	107	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26130-MSD1)						Source: IPG1866-01					
Total Organic Carbon	5.41	1.0	0.25	mg/l	5.00	ND	108	80-120	1	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G26148 Extracted: 07/26/06</u>											
Blank Analyzed: 07/26/2006 (6G26148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26148-BS1)											
Total Suspended Solids	982	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 07/26/2006 (6G26148-DUP1)						Source: IPG1894-01					
Total Suspended Solids	644	10	10	mg/l		650			1	10	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-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: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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
 Michele Chamberlin
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IPG/895

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

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 = 80° pH = 6.6					
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method)		Comments					
Sampler: <i>F. S. ...</i>		Fax Number: (626) 568-6515		Oil & Grease (EPA 413.1)							
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Total Organic Carbon	Sulfate (SO4), Nitrite-Nitrate (NO3+NO2-N), Nitrate-Nitrite-Nitrogen (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
PT-INF	W	Poly-1L	1	7-21-06	HNO3	1					
PT-INF	W	Poly-1L	1		None	2					
PT-INF	W	VOAs	2		HCl	3A, 3B	X				
PT-INF	W	1L Amber	2		HCl	4A, 4B					
PT-INF	W	Poly-500 ml	1		H2SO4	5		X			
PT-INF	W	Poly-500 ml	1		None	6					
PT-INF	W	Poly-500 ml	2		None	7A, 7B			X		
PT-INF	W	Poly-500 ml	1	7-21-06	H2SO4	8				X	
PT-INF	W	Poly-1L	1	7-21-06	None	9					X
Relinquished By: <i>Bronwyn Kelly</i>		Date/Time: 7-21-06 1110		Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1110		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) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>	
Relinquished By: <i>[Signature]</i>		Date/Time: 7-21-06 1710		Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1710		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>	
Relinquished By: <i>[Signature]</i>		Date/Time: 7-21-06 1710		Received By: <i>[Signature]</i>		Date/Time: 7-21-06 1710		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>		Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>	

#E 7-21-06
1835

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 08:50

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 18°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1897-01

CLIENT ID
PM-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1897

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1897-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.67	1	07/27/06	07/28/06	
Sample ID: IPG1897-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.42	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	0.046	1	07/27/06	07/28/06	J
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	3.3	1	07/27/06	07/28/06	
Lead	EPA 200.8	6G27067	0.040	1.0	1.2	1	07/27/06	07/28/06	
Manganese	EPA 200.7	6G27064	7.0	20	120	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.8	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.57	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	0.11	1	07/27/06	07/28/06	J
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	27	1	07/27/06	07/28/06	

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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: IPG1897-01 (PM-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	0.016	1	07/21/06	07/25/06	J
Sample ID: IPG1897-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.46	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	4.7	1	07/21/06	07/25/06	J
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.60	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.2	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	0.40	1	07/27/06	07/27/06	J
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1897-01 (PM-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	0.98	1	07/26/06	07/26/06	
Sample ID: IPG1897-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	32	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	2.0	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	210	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.091	1	07/21/06	07/21/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.091	1	07/21/06	07/21/06	J
Oil & Grease	EPA 413.1	6G24052	0.94	5.0	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	0.36	1.0	75	2	07/21/06	07/21/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	320	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26130	0.50	1.0	11	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G26148	10	10	31	1	07/26/06	07/26/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1897-01 (PM-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	14	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1897-01 (PM-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.83	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1897-01 (PM-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-EFF (IPG1897-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/21/2006 08:08	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 08:08	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 08:08	07/21/2006 17:10	07/21/2006 20:45	07/21/2006 20:57

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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: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	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: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-BLK1)

Analyte	Result	Reporting Limit	MDL	Units
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: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	70-130	1	20	

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Sampled: 07/21/06
 Received: 07/21/06

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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	20	

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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: IPG1897

Sampled: 07/21/06
 Received: 07/21/06

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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	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: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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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: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26130 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26130-BLK1)											
Total Organic Carbon	0.645	1.0	0.25	mg/l							J
LCS Analyzed: 07/26/2006 (6G26130-BS1)											
Total Organic Carbon	9.98	1.0	0.25	mg/l	10.0		100	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPG1897

Sampled: 07/21/06
 Received: 07/21/06

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: 6G26130 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26130-MS1)						Source: IPG1866-01					
Total Organic Carbon	5.34	1.0	0.25	mg/l	5.00	ND	107	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26130-MSD1)						Source: IPG1866-01					
Total Organic Carbon	5.41	1.0	0.25	mg/l	5.00	ND	108	80-120	1	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G26148 Extracted: 07/26/06</u>											
Blank Analyzed: 07/26/2006 (6G26148-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26148-BS1)											
Total Suspended Solids	982	10	10	mg/l	1000		98	85-115			
Duplicate Analyzed: 07/26/2006 (6G26148-DUP1)						Source: IPG1894-01					
Total Suspended Solids	644	10	10	mg/l		650			1	10	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							

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 Report Number: IPG1897

Sampled: 07/21/06
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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: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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R-2A Pond Pilot Test
Report Number: IPG1897

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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Sampled: 07/21/06
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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
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
 Michele Chamberlin
 Project Manager

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1671897

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 = 80° pH = 7.8 MS G.8		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
PM-EFF	W	Poly-1L	1	7/21/06 5:08	HNO3	1	X	X							
PM-EFF	W	Poly-1L	1		None	2			X						
PM-EFF	W	VOAs	2		HCl	3A, 3B									
PM-EFF	W	1L Amber	2		HCl	4A, 4B				X					
PM-EFF	W	Poly-500 ml	1		H2SO4	5					X				
PM-EFF	W	Poly-500 ml	1		None	6						X			
PM-EFF	W	Poly-500 ml	2		None	7A, 7B							X		
PM-EFF	W	Poly-500 ml	1		H2SO4	8								X	
PM-EFF	W	Poly-1L	1	7/21/06 8:04	None	9									X
Relinquished By				Date/Time: 7/21/06 1110	Received By		Date/Time: 7-21-06 1110	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>							
Relinquished By				Date/Time: 7-21-06 1710	Received By		Date/Time: 7-21-06 1710	Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input checked="" type="checkbox"/>							

HE 7-21-06
1835

18C

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 17:44

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 18°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID

IPG1899-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1899

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1899-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	1.3	1	07/27/06	07/28/06	
Sample ID: IPG1899-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.40	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	44	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	0.028	1	07/27/06	07/28/06	J
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	3.0	1	07/27/06	07/28/06	
Lead	EPA 200.8	6G27067	0.040	1.0	0.79	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	140	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	6.1	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.50	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	0.034	1	07/27/06	07/28/06	J
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	35	1	07/27/06	07/28/06	

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 Report Number: IPG1899

Sampled: 07/21/06
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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: IPG1899-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	0.017	1	07/21/06	07/25/06	J
Sample ID: IPG1899-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.41	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.70	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.2	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	0.31	1	07/27/06	07/27/06	J
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1899

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1899-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	0.99	1	07/26/06	07/26/06	
Sample ID: IPG1899-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	16	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	2.0	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.84	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	210	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	ND	1	07/21/06	07/21/06	
Oil & Grease	EPA 413.1	6G24052	0.94	5.0	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	70	10	07/21/06	07/21/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	320	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26130	0.50	1.0	11	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	16	1	07/27/06	07/27/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1899-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	8.7	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1899-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.63	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1899-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	590	1	07/26/06	07/26/06	

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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: BST-EFF (IPG1899-01) - Water					
EPA 150.1	1	07/21/2006 08:00	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 08:00	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 08:00	07/21/2006 17:10	07/21/2006 20:45	07/21/2006 22:37

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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: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	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: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	70-130	0	20	

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1899

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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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: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26130 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26130-BLK1)											
Total Organic Carbon	0.645	1.0	0.25	mg/l							J
LCS Analyzed: 07/26/2006 (6G26130-BS1)											
Total Organic Carbon	9.98	1.0	0.25	mg/l	10.0		100	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPG1899

Sampled: 07/21/06
 Received: 07/21/06

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: 6G26130 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26130-MS1)						Source: IPG1866-01					
Total Organic Carbon	5.34	1.0	0.25	mg/l	5.00	ND	107	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26130-MSD1)						Source: IPG1866-01					
Total Organic Carbon	5.41	1.0	0.25	mg/l	5.00	ND	108	80-120	1	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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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: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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R-2A Pond Pilot Test
Report Number: IPG1899

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG1899

Sampled: 07/21/06
 Received: 07/21/06

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
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
 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: *[Signature]*

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	Field readings: Temp = 80° pH = 7.5	Comments
BST-EFF	W	Poly-1L	1	7-21-06 08:00	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	7-21-06 08:00	None	9							X		

Relinquished By: *[Signature]* Date/Time: 7-21-06 1110

Received By: *[Signature]* Date/Time: 7-21-06 1110

Relinquished By: *[Signature]* Date/Time: 7-21-06 1710

Received By: *[Signature]* Date/Time: 7-21-06 1710

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) On Ice: _____
 Intact: _____

Temp = 80°
pH = 7.5

1830

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 17:52

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 15°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1900-01

CLIENT ID
LC-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1900

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1900-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.065	1	07/27/06	07/28/06	
Sample ID: IPG1900-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.43	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	1.1	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	0.19	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	22	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.0	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.49	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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Sampled: 07/21/06
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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: IPG1900-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1900-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.43	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	1.3	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.2	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	ND	1	07/27/06	07/27/06	
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1900

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1900-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	0.98	1	07/26/06	07/26/06	
Sample ID: IPG1900-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	2.2	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.84	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	210	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.14	1	07/21/06	07/21/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	0.37	1	07/21/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.52	1	07/21/06	07/21/06	
Oil & Grease	EPA 413.1	6G24052	0.89	4.7	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	71	10	07/21/06	07/21/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	320	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26130	0.50	1.0	12	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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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: IPG1900

Sampled: 07/21/06
Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1900-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	1.8	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1900-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.67	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1900-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	590	1	07/26/06	07/26/06	

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SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPG1900-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/21/2006 07:51	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:51	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:51	07/21/2006 17:10	07/21/2006 23:00	07/21/2006 23:02

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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: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	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: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
						Source: IPG2260-01					
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
						Source: IPG2260-01					
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	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: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

TestAmerica - Irvine, CA
 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: IPG1900

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26130 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26130-BLK1)											
Total Organic Carbon	0.645	1.0	0.25	mg/l							J
LCS Analyzed: 07/26/2006 (6G26130-BS1)											
Total Organic Carbon	9.98	1.0	0.25	mg/l	10.0		100	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: 6G26130 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26130-MS1)						Source: IPG1866-01					
Total Organic Carbon	5.34	1.0	0.25	mg/l	5.00	ND	107	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26130-MSD1)						Source: IPG1866-01					
Total Organic Carbon	5.41	1.0	0.25	mg/l	5.00	ND	108	80-120	1	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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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: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1900

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 Report Number: IPG1900

Sampled: 07/21/06
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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
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
 Michele Chamberlin
 Project Manager

IR 7/21/06

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

<p>Client Name/Address: MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101</p> <p>Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test</p> <p>Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515</p> <p>Sampler: R. Bernoso</p>	<p>Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn, Hardness</p> <p>Total Dissolved Solids, PH, Alkalinity, Suspended Sediments Concentration (ASTM Method)</p> <p>Total Organic Carbon (EPA 413 1)</p> <p>Oil & Grease (EPA 413 1)</p> <p>Total Kjeldahl Nitrogen</p> <p>SO₄, NO₃+NO₂-N, Nitrate-N, Nitrite-N (NO₃ + NO₂-N)</p> <p>Turbidity, TSS, Conductivity</p> <p>Ammonia-N (NH₃-N)</p> <p>Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe*, Zn</p>	<p>Field readings: Temp = 82° pH = 6.7</p> <p>Comments:</p>																																																																																
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<p>Relinquished By: R. Bernoso Date/Time: 7-21-06 1110</p> <p>Relinquished By: [Signature] Date/Time: 7-21-06 1710</p> <p>Relinquished By: [Signature] Date/Time: 7-21-06 1710</p>	<p>Received By: [Signature] Date/Time: 7-21-06 1110</p> <p>Received By: [Signature] Date/Time: _____</p> <p>Received By: [Signature] Date/Time: 7-21-06 1710</p>																																																																																	

7/21/06
 1857

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 18:00

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 15°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID

IPG1902-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1902-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.17	1	07/27/06	07/28/06	
Sample ID: IPG1902-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.40	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	1.0	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	0.21	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	43	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.1	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.52	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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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: IPG1902-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	0.019	1	07/21/06	07/25/06	J
Sample ID: IPG1902-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.38	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	1.7	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.3	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	ND	1	07/27/06	07/27/06	
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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 Report Number: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1902-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	0.99	1	07/26/06	07/26/06	
Sample ID: IPG1902-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	3.1	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.84	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	200	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.086	1	07/21/06	07/21/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.086	1	07/21/06	07/21/06	J
Oil & Grease	EPA 413.1	6G24052	0.89	4.7	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	70	10	07/21/06	07/21/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	300	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26138	0.50	1.0	12	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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 Report Number: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1902-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	2.8	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1902-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.76	1	07/22/06	07/22/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1902-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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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 (IPG1902-01) - Water					
EPA 150.1	1	07/21/2006 07:37	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:37	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:37	07/21/2006 17:10	07/21/2006 23:00	07/21/2006 23:26

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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: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	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: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
						Source: IPG2260-01					
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
						Source: IPG2260-01					
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	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: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26138 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26138-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/26/2006 (6G26138-BS1)											
Total Organic Carbon	10.2	1.0	0.25	mg/l	10.0		102	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

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: 6G26138 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1)						Source: IPG2014-02					
Total Organic Carbon	10.7	1.0	0.25	mg/l	5.00	5.4	106	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1)						Source: IPG2014-02					
Total Organic Carbon	10.3	1.0	0.25	mg/l	5.00	5.4	98	80-120	4	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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 R-2A Pond Pilot Test
 Report Number: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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R-2A Pond Pilot Test
Report Number: IPG1902

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG1902

Sampled: 07/21/06
 Received: 07/21/06

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
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

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

Project:
 Boeing-SSF L BMP/NPDES
 R-2A Pond Filtration Pilot Test

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

Sampler: L. Barroso

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 = 82° pH = 6.8	Comments
V-EFF	W	Poly-1L	1	7/21/06 7:37	HNO3	1	X		X										
V-EFF	W	Poly-1L	1		None	2			X	X									
V-EFF	W	VOAs	2		HCl	3A, 3B													
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													
V-EFF	W	Poly-1L	1	7/21/06 7:37	None	9										X			BT 7/21/06 1850

Relinquished By: L. Barroso Date/Time: 7/21/06 1110
Received By: [Signature] Date/Time: 7-21-06 1110

Relinquished By: [Signature] Date/Time: 7-21-06 1710
Received By: [Signature] Date/Time: 7-21-06 1710

Relinquished By: [Signature] Date/Time: 7-21-06 1710
Received By: [Signature] Date/Time: 7-21-06 1710

Turn around Time: (check)
 24 Hours _____ 5 Days _____
 48 Hours _____ 10 Days _____
 72 Hours _____ Normal _____ X _____
 Perchlorate Only 72 Hours _____
 Metals Only 72 Hours _____ 15°C
 Sample Integrity: (check) On Ice: _____

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 18:05

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 18°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1903-01

CLIENT ID
P-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.20	1	07/27/06	07/28/06	
Sample ID: IPG1903-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.39	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	0.78	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	0.27	1	07/27/06	07/28/06	J
Manganese	EPA 200.7	6G27064	7.0	20	47	1	07/27/06	07/28/06	
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.1	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.48	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1903-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.39	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.63	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.1	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	ND	1	07/27/06	07/27/06	
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	0.99	1	07/26/06	07/26/06	
Sample ID: IPG1903-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	1.4	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	180	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	ND	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	190	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.11	1	07/21/06	07/21/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/21/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.11	1	07/21/06	07/21/06	J
Oil & Grease	EPA 413.1	6G24052	0.89	4.7	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	70	10	07/21/06	07/22/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	310	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26138	0.50	1.0	11	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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R-2A Pond Pilot Test
Report Number: IPG1903

Sampled: 07/21/06
Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	3.3	1	07/22/06	07/22/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.74	1	07/22/06	07/22/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1903-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1903

Sampled: 07/21/06
Received: 07/21/06

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 (IPG1903-01) - Water					
EPA 150.1	1	07/21/2006 07:22	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:22	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:22	07/21/2006 17:10	07/21/2006 23:00	07/21/2006 23:50

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-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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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	70-130	0	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
						Source: IPG2260-01					
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
						Source: IPG2260-01					
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26138 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26138-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/26/2006 (6G26138-BS1)											
Total Organic Carbon	10.2	1.0	0.25	mg/l	10.0		102	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: 6G26138 Extracted: 07/26/06</u>											
Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1)						Source: IPG2014-02					
Total Organic Carbon	10.7	1.0	0.25	mg/l	5.00	5.4	106	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1)						Source: IPG2014-02					
Total Organic Carbon	10.3	1.0	0.25	mg/l	5.00	5.4	98	80-120	4	20	
<u>Batch: 6G26143 Extracted: 07/26/06</u>											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
<u>Batch: 6G27064 Extracted: 07/27/06</u>											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
<u>Batch: 6G27116 Extracted: 07/27/06</u>											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1903

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG1903

Sampled: 07/21/06
 Received: 07/21/06

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
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
 Michele Chamberlin
 Project Manager

426

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Del Mar Analytical

Version 04/28/06

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		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		Field readings: Temp = 81° pH = 6.8		Comments	
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Fax Number: (626) 568-6515		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		Field readings: Temp = 81° pH = 6.8		Comments	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #																			
P-EFF	W	Poly-1L	1	7/22/06	HNO3	1																			
P-EFF	W	Poly-1L	1	7/22/06	None	2																			
P-EFF	W	VOAs	2		HCl	3A, 3B																			
P-EFF	W	1L Amber	2		HCl	4A, 4B																			
P-EFF	W	Poly-500 ml	1		H2SO4	5																			
P-EFF	W	Poly-500 ml	1		None	6																			
P-EFF	W	Poly-500 ml	2		None	7A, 7B																			
P-EFF	W	Poly-500 ml	1	7/21/06	H2SO4	8																			
P-EFF	W	Poly-1L	1	7/22	None	9																			
Relinquished By <i>R. Bertram</i>		Date/Time: 7/21/06 1110		Received By <i>John U</i>		Date/Time: 7-21-06 1110		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) <input checked="" type="checkbox"/> On Ice: _____		Intact _____		Field readings: Temp = 81° pH = 6.8		Comments <i>EA</i> <i>1900</i>	
Relinquished By <i>John U</i>		Date/Time: 7-21-06 1710		Received By <i>[Signature]</i>		Date/Time: 7-21-06 1710		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) <input checked="" type="checkbox"/> On Ice: _____		Intact _____		Field readings: Temp = 81° pH = 6.8		Comments <i>EA</i> <i>180C</i>	

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: 07/21/06
Received: 07/21/06
Issued: 08/04/06 18:10

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.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 18°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: Results that fall between the MDL and RL are 'J' flagged.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

LABORATORY ID
IPG1904-01

CLIENT ID
S-EFF

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG1904

Sampled: 07/21/06
 Received: 07/21/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G27064	0.015	0.040	0.023	1	07/27/06	07/28/06	J
Sample ID: IPG1904-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G27067	0.050	2.0	0.40	1	07/27/06	07/28/06	J
Arsenic	EPA 200.7	6G27064	4.4	5.0	ND	1	07/27/06	07/28/06	
Beryllium	EPA 200.7	6G27064	0.90	2.0	ND	1	07/27/06	07/28/06	
Cadmium	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Chromium	EPA 200.7	6G27064	2.0	5.0	ND	1	07/27/06	07/28/06	
Copper	EPA 200.8	6G27067	0.25	2.0	0.79	1	07/27/06	07/28/06	J
Lead	EPA 200.8	6G27067	0.040	1.0	ND	1	07/27/06	07/28/06	
Manganese	EPA 200.7	6G27064	7.0	20	8.4	1	07/27/06	07/28/06	J
Mercury	EPA 245.1	6G26065	0.15	0.20	ND	1	07/26/06	07/27/06	
Nickel	EPA 200.7	6G27064	2.0	10	2.0	1	07/27/06	07/28/06	J
Selenium	EPA 200.8	6G27067	0.30	2.0	0.42	1	07/27/06	07/28/06	J
Silver	EPA 200.8	6G27067	0.025	1.0	ND	1	07/27/06	07/28/06	
Thallium	EPA 200.8	6G27067	0.15	1.0	ND	1	07/27/06	07/28/06	
Zinc	EPA 200.7	6G27064	15	20	ND	1	07/27/06	07/28/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1904

Sampled: 07/21/06
 Received: 07/21/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G21147	0.015	0.040	ND	1	07/21/06	07/25/06	
Sample ID: IPG1904-01 (S-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G27068	0.050	2.0	0.40	1	07/27/06	07/27/06	J
Arsenic	EPA 200.7-Diss	6G21147	4.4	5.0	ND	1	07/21/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G21147	0.90	2.0	ND	1	07/21/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Chromium	EPA 200.7-Diss	6G21147	2.0	5.0	ND	1	07/21/06	07/25/06	
Copper	EPA 200.8-Diss	6G27068	0.25	2.0	0.75	1	07/27/06	07/27/06	J
Lead	EPA 200.8-Diss	6G27068	0.040	1.0	ND	1	07/27/06	07/27/06	
Manganese	EPA 200.7-Diss	6G21147	7.0	20	ND	1	07/21/06	07/25/06	
Mercury	EPA 245.1-Diss	6G28097	0.15	0.20	ND	1	07/28/06	07/28/06	
Nickel	EPA 200.7-Diss	6G21147	2.0	10	2.2	1	07/21/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G27068	0.30	2.0	0.39	1	07/27/06	07/27/06	J
Silver	EPA 200.8-Diss	6G27068	0.025	1.0	ND	1	07/27/06	07/27/06	
Thallium	EPA 200.8-Diss	6G27068	0.15	1.0	ND	1	07/27/06	07/27/06	
Zinc	EPA 200.7-Diss	6G21147	15	20	ND	1	07/21/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG1904

Sampled: 07/21/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G26143	N/A	NA	1.0	1	07/26/06	07/26/06	
Sample ID: IPG1904-01 (S-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6H01080	10	10	ND	1	08/01/06	08/01/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G29052	0.43	0.50	5.9	1	07/29/06	07/29/06	
Alkalinity as CaCO3	EPA 310.1	6G31104	2.0	2.0	170	1	07/31/06	07/31/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	ND	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G27064	1.0	1.0	190	1	07/27/06	07/28/06	
Nitrate-N	EPA 300.0	6G21134	0.080	0.15	0.11	1	07/21/06	07/22/06	J
Nitrite-N	EPA 300.0	6G21134	0.080	0.15	ND	1	07/21/06	07/22/06	
Nitrate/Nitrite-N	EPA 300.0	6G21134	0.072	0.26	0.11	1	07/21/06	07/22/06	J
Oil & Grease	EPA 413.1	6G24052	0.90	4.8	ND	1	07/24/06	07/24/06	
Sulfate	EPA 300.0	6G21134	1.8	5.0	71	10	07/21/06	07/22/06	
Total Dissolved Solids	SM2540C	6G26116	10	10	320	1	07/26/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G26138	0.50	1.0	11	1	07/26/06	07/26/06	
Total Suspended Solids	EPA 160.2	6G27116	10	10	ND	1	07/27/06	07/27/06	

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Report Number: IPG1904

Sampled: 07/21/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G22043	0.040	1.0	0.48	1	07/22/06	07/22/06	J

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R-2A Pond Pilot Test
Report Number: IPG1904

Sampled: 07/21/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G22034	N/A	NA	7.59	1	07/22/06	07/22/06	

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Sampled: 07/21/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG1904-01 (S-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G26119	N/A	1.0	600	1	07/26/06	07/26/06	

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R-2A Pond Pilot Test
Report Number: IPG1904

Sampled: 07/21/06
Received: 07/21/06

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 (IPG1904-01) - Water					
EPA 150.1	1	07/21/2006 07:07	07/21/2006 17:10	07/22/2006 09:30	07/22/2006 10:10
EPA 180.1	2	07/21/2006 07:07	07/21/2006 17:10	07/22/2006 10:00	07/22/2006 13:10
EPA 300.0	2	07/21/2006 07:07	07/21/2006 17:10	07/21/2006 23:00	07/22/2006 00:15

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 R-2A Pond Pilot Test
 Report Number: IPG1904

Sampled: 07/21/06
 Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G26065 Extracted: 07/26/06											
Blank Analyzed: 07/27/2006 (6G26065-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/27/2006 (6G26065-BS1)											
Mercury	8.04	0.20	0.15	ug/l	8.00		100	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G26065-MS1)											
						Source: IPG1766-02					
Mercury	8.47	0.20	0.15	ug/l	8.00	0.23	103	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G26065-MSD1)											
						Source: IPG1766-02					
Mercury	8.59	0.20	0.15	ug/l	8.00	0.23	104	70-130	1	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/28/2006 (6G27064-BS1)											
Arsenic	491	5.0	4.4	ug/l	500		98	85-115			
Beryllium	502	2.0	0.90	ug/l	500		100	85-115			
Chromium	499	5.0	2.0	ug/l	500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Manganese	505	20	7.0	ug/l	500		101	85-115			
Nickel	494	10	2.0	ug/l	500		99	85-115			
Zinc	493	20	15	ug/l	500		99	85-115			

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Sampled: 07/21/06
Received: 07/21/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27064 Extracted: 07/27/06											
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS1)						Source: IPG1717-01					
Arsenic	543	10	8.8	ug/l	500	16	105	70-130			
Beryllium	517	4.0	1.8	ug/l	500	ND	103	70-130			
Chromium	502	10	4.0	ug/l	500	4.4	100	70-130			
Iron	0.392	0.080	0.030	mg/l	0.500	ND	78	70-130			
Manganese	505	40	14	ug/l	500	14	98	70-130			
Nickel	495	20	4.0	ug/l	500	18	95	70-130			
Zinc	502	40	30	ug/l	500	ND	100	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27064-MS2)						Source: IPG1766-01					
Arsenic	523	5.0	4.4	ug/l	500	14	102	70-130			
Beryllium	522	2.0	0.90	ug/l	500	ND	104	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	2.66	0.040	0.015	mg/l	0.500	2.2	92	70-130			
Manganese	2490	20	7.0	ug/l	500	2000	98	70-130			
Nickel	484	10	2.0	ug/l	500	3.0	96	70-130			
Zinc	504	20	15	ug/l	500	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27064-MSD1)						Source: IPG1717-01					
Arsenic	533	10	8.8	ug/l	500	16	103	70-130	2	20	
Beryllium	513	4.0	1.8	ug/l	500	ND	103	70-130	1	20	
Chromium	497	10	4.0	ug/l	500	4.4	99	70-130	1	20	
Iron	0.384	0.080	0.030	mg/l	0.500	ND	77	70-130	2	20	
Manganese	495	40	14	ug/l	500	14	96	70-130	2	20	
Nickel	489	20	4.0	ug/l	500	18	94	70-130	1	20	
Zinc	494	40	30	ug/l	500	ND	99	70-130	2	20	

Batch: 6G27067 Extracted: 07/27/06

Blank Analyzed: 07/28/2006 (6G27067-BLK1)

Analyte	Result	Reporting Limit	MDL	Units
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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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G27067 Extracted: 07/27/06											
LCS Analyzed: 07/28/2006-07/31/2006 (6G27067-BS1)											
Antimony	86.2	2.0	0.050	ug/l	80.0		108	85-115			
Cadmium	85.3	1.0	0.025	ug/l	80.0		107	85-115			
Copper	89.5	2.0	0.25	ug/l	80.0		112	85-115			
Lead	80.5	1.0	0.040	ug/l	80.0		101	85-115			
Selenium	87.3	2.0	0.30	ug/l	80.0		109	85-115			
Silver	85.8	1.0	0.025	ug/l	80.0		107	85-115			
Thallium	79.2	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS1) Source: IPG1765-21											
Antimony	84.7	2.0	0.050	ug/l	80.0	0.11	106	70-130			
Cadmium	82.2	1.0	0.025	ug/l	80.0	0.037	103	70-130			
Copper	83.4	2.0	0.25	ug/l	80.0	5.0	98	70-130			
Lead	76.2	1.0	0.040	ug/l	80.0	0.88	94	70-130			
Selenium	84.7	2.0	0.30	ug/l	80.0	3.1	102	70-130			
Silver	81.4	1.0	0.025	ug/l	80.0	0.078	102	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	0.15	95	70-130			
Matrix Spike Analyzed: 07/28/2006 (6G27067-MS2) Source: IPG1765-22											
Antimony	87.1	2.0	0.050	ug/l	80.0	0.14	109	70-130			
Cadmium	84.6	1.0	0.025	ug/l	80.0	ND	106	70-130			
Copper	82.6	2.0	0.25	ug/l	80.0	5.3	97	70-130			
Lead	76.6	1.0	0.040	ug/l	80.0	0.42	95	70-130			
Selenium	83.1	2.0	0.30	ug/l	80.0	2.2	101	70-130			
Silver	82.1	1.0	0.025	ug/l	80.0	0.067	103	70-130			
Thallium	76.7	1.0	0.15	ug/l	80.0	0.24	96	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G27067-MSD1) Source: IPG1765-21											
Antimony	85.4	2.0	0.050	ug/l	80.0	0.11	107	70-130	1	20	
Cadmium	82.4	1.0	0.025	ug/l	80.0	0.037	103	70-130	0	20	
Copper	82.4	2.0	0.25	ug/l	80.0	5.0	97	70-130	1	20	
Lead	76.0	1.0	0.040	ug/l	80.0	0.88	94	70-130	0	20	
Selenium	83.5	2.0	0.30	ug/l	80.0	3.1	100	70-130	1	20	
Silver	81.3	1.0	0.025	ug/l	80.0	0.078	102	70-130	0	20	
Thallium	76.1	1.0	0.15	ug/l	80.0	0.15	95	70-130	0	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: 6G21147 Extracted: 07/21/06											
Blank Analyzed: 07/25/2006 (6G21147-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: 07/25/2006 (6G21147-BS1)											
Arsenic	997	5.0	4.4	ug/l	1000		100	85-115			
Beryllium	1000	2.0	0.90	ug/l	1000		100	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.981	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	1010	20	7.0	ug/l	1000		101	85-115			
Nickel	984	10	2.0	ug/l	1000		98	85-115			
Zinc	1000	20	15	ug/l	1000		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G21147-MS1) Source: IPG1895-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	1010	2.0	0.90	ug/l	1000	ND	101	70-130			
Chromium	987	5.0	2.0	ug/l	1000	ND	99	70-130			
Iron	0.995	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	990	20	7.0	ug/l	1000	ND	99	70-130			
Nickel	977	10	2.0	ug/l	1000	2.1	97	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G21147-MSD1) Source: IPG1895-01											
Arsenic	1070	5.0	4.4	ug/l	1000	ND	107	70-130	2	20	
Beryllium	1030	2.0	0.90	ug/l	1000	ND	103	70-130	2	20	
Chromium	994	5.0	2.0	ug/l	1000	ND	99	70-130	1	20	
Iron	1.01	0.040	0.015	mg/l	1.00	ND	101	70-130	1	20	
Manganese	1020	20	7.0	ug/l	1000	ND	102	70-130	3	20	
Nickel	987	10	2.0	ug/l	1000	2.1	98	70-130	1	20	
Zinc	1030	20	15	ug/l	1000	ND	103	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: 6G27068 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27068-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: 07/27/2006 (6G27068-BS1)											
Antimony	80.6	2.0	0.050	ug/l	80.0		101	85-115			
Cadmium	80.8	1.0	0.025	ug/l	80.0		101	85-115			
Copper	82.0	2.0	0.25	ug/l	80.0		102	85-115			
Lead	81.2	1.0	0.040	ug/l	80.0		102	85-115			
Selenium	82.0	2.0	0.30	ug/l	80.0		102	85-115			
Silver	80.2	1.0	0.025	ug/l	80.0		100	85-115			
Thallium	81.5	1.0	0.15	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 07/27/2006 (6G27068-MS1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130			
Cadmium	80.3	1.0	0.025	ug/l	80.0	ND	100	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	0.39	101	70-130			
Lead	80.7	1.0	0.040	ug/l	80.0	ND	101	70-130			
Selenium	80.1	2.0	0.30	ug/l	80.0	ND	100	70-130			
Silver	78.7	1.0	0.025	ug/l	80.0	ND	98	70-130			
Thallium	81.1	1.0	0.15	ug/l	80.0	ND	101	70-130			
Matrix Spike Dup Analyzed: 07/27/2006 (6G27068-MSD1) Source: IPG1906-01											
Antimony	84.4	2.0	0.050	ug/l	80.0	0.59	105	70-130	0	20	
Cadmium	80.7	1.0	0.025	ug/l	80.0	ND	101	70-130	1	20	
Copper	80.5	2.0	0.25	ug/l	80.0	0.39	100	70-130	1	20	
Lead	80.3	1.0	0.040	ug/l	80.0	ND	100	70-130	1	20	
Selenium	79.1	2.0	0.30	ug/l	80.0	ND	99	70-130	1	20	
Silver	78.8	1.0	0.025	ug/l	80.0	ND	98	70-130	0	20	
Thallium	81.3	1.0	0.15	ug/l	80.0	ND	102	70-130	0	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: 6G28097 Extracted: 07/28/06											
Blank Analyzed: 07/28/2006 (6G28097-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/28/2006 (6G28097-BS1)											
Mercury	8.37	0.20	0.15	ug/l	8.00		105	85-115			
Matrix Spike Analyzed: 07/28/2006 (6G28097-MS1)											
						Source: IPG2260-01					
Mercury	8.50	0.20	0.15	ug/l	8.00	ND	106	70-130			
Matrix Spike Dup Analyzed: 07/28/2006 (6G28097-MSD1)											
						Source: IPG2260-01					
Mercury	8.48	0.20	0.15	ug/l	8.00	ND	106	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G21134 Extracted: 07/21/06											
Blank Analyzed: 07/21/2006 (6G21134-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	ND	0.50	0.18	mg/l							
LCS Analyzed: 07/21/2006 (6G21134-BS1)											
Nitrate-N	1.12	0.15	0.080	mg/l	1.13		99	90-110			
Nitrite-N	1.51	0.15	0.080	mg/l	1.52		99	90-110			
Sulfate	9.83	0.50	0.18	mg/l	10.0		98	90-110			M-3
Matrix Spike Analyzed: 07/21/2006 (6G21134-MS1)											
						Source: IPG1895-01					
Nitrate-N	1.28	0.15	0.080	mg/l	1.13	0.098	105	80-120			
Nitrite-N	1.96	0.15	0.080	mg/l	1.52	ND	129	80-120			MI
Matrix Spike Dup Analyzed: 07/21/2006 (6G21134-MSD1)											
						Source: IPG1895-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.098	97	80-120	7	20	
Nitrite-N	1.82	0.15	0.080	mg/l	1.52	ND	120	80-120	7	20	
Batch: 6G22034 Extracted: 07/22/06											
Duplicate Analyzed: 07/22/2006 (6G22034-DUP1)											
						Source: IPG1779-01					
pH	7.41	NA	N/A	pH Units		7.39			0	5	
Duplicate Analyzed: 07/22/2006 (6G22034-DUP2)											
						Source: IPG1904-01					
pH	7.63	NA	N/A	pH Units		7.59			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
Batch: 6G22043 Extracted: 07/22/06											
Blank Analyzed: 07/22/2006 (6G22043-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/22/2006 (6G22043-DUP1)											
Turbidity	16.3	1.0	0.040	NTU		Source: IPG1895-01 16			2	20	
Batch: 6G24052 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24052-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/24/2006 (6G24052-BS1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120			M-NR1
LCS Dup Analyzed: 07/24/2006 (6G24052-BSD1)											
Oil & Grease	18.3	5.0	0.94	mg/l	20.0		92	65-120	1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	Source: IPG1589-01 ND	112	70-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25115 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G26116 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26116-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G26116-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G26116-DUP1)						Source: IPG1779-01					
Total Dissolved Solids	7780	10	10	mg/l		7800			0	10	
Batch: 6G26119 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26119-DUP1)						Source: IPG1895-01					
Specific Conductance	596	1.0	N/A	umhos/cm		600			1	5	
Batch: 6G26138 Extracted: 07/26/06											
Blank Analyzed: 07/26/2006 (6G26138-BLK1)											
Total Organic Carbon	ND	1.0	0.25	mg/l							
LCS Analyzed: 07/26/2006 (6G26138-BS1)											
Total Organic Carbon	10.2	1.0	0.25	mg/l	10.0		102	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
Batch: 6G26138 Extracted: 07/26/06											
Matrix Spike Analyzed: 07/26/2006 (6G26138-MS1)						Source: IPG2014-02					
Total Organic Carbon	10.7	1.0	0.25	mg/l	5.00	5.4	106	80-120			
Matrix Spike Dup Analyzed: 07/26/2006 (6G26138-MSD1)						Source: IPG2014-02					
Total Organic Carbon	10.3	1.0	0.25	mg/l	5.00	5.4	98	80-120	4	20	
Batch: 6G26143 Extracted: 07/26/06											
Duplicate Analyzed: 07/26/2006 (6G26143-DUP1)						Source: IPG1563-01					
Density	0.972	NA	N/A	g/cc		1.0			3	20	
Batch: 6G27064 Extracted: 07/27/06											
Blank Analyzed: 07/28/2006 (6G27064-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G27116 Extracted: 07/27/06											
Blank Analyzed: 07/27/2006 (6G27116-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/27/2006 (6G27116-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/27/2006 (6G27116-DUP1)						Source: IPG1898-01					
Total Suspended Solids	204	10	10	mg/l		210			3	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G29052 Extracted: 07/29/06											
Blank Analyzed: 07/29/2006 (6G29052-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/29/2006 (6G29052-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/29/2006 (6G29052-BSD1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120	0	15	
Matrix Spike Analyzed: 07/29/2006 (6G29052-MS1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120			
Matrix Spike Dup Analyzed: 07/29/2006 (6G29052-MSD1)											
						Source: IPG1766-03					
Total Kjeldahl Nitrogen	10.6	0.50	0.43	mg/l	10.0	0.56	100	85-120	0	15	
Batch: 6G31104 Extracted: 07/31/06											
Duplicate Analyzed: 07/31/2006 (6G31104-DUP1)											
						Source: IPG1866-02					
Alkalinity as CaCO3	386	2.0	2.0	mg/l		380			2	20	
Reference Analyzed: 07/31/2006 (6G31104-SRM1)											
Alkalinity as CaCO3	214	2.0	2.0	mg/l	231		93	90-110			

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG1904

Sampled: 07/21/06
Received: 07/21/06

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.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG1904

Sampled: 07/21/06
 Received: 07/21/06

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
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
 Michele Chamberlin
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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 Manager: Bronwyn Kelly Sampler: <i>L. B...</i>		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		ANALYSIS REQUIRED										Field readings: Temp = 81° pH = 6.7	
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					Comments ER 1900				
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #									
S-EFF	W	Poly-1L	1	7/21/06 17:01	HNO3	1	X								
S-EFF	W	Poly-1L	1		None	2		X							
S-EFF	W	VOAs	2		HCl	3A, 3B									
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	7/21/06 17:01	None	9									
Relinquished By		Date/Time:		Received By		Date/Time:		Turn around Time: (check)							
<i>R. Barron</i>		7/21/06 1110		<i>Julia U</i>		7-21-06 1110		24 Hours							
Relinquished By		Date/Time:		Received By		Date/Time:		48 Hours							
<i>Julia U</i>		7-21-06 1710		<i>Julia U</i>		7-21-06 1710		72 Hours							
Relinquished By		Date/Time:		Received By		Date/Time:		Perchlorate Only 72 Hours							
<i>Julia U</i>		7-21-06 1710		<i>Julia U</i>		7-21-06 1710		Metals Only 72 Hours							
								Sample Integrity: (check)							
								Intact							
								On Ice:							

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 19:30

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

IPG2038-01

CLIENT ID

PM-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	1.3	1	07/25/06	07/25/06	
Sample ID: IPG2038-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.48	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	7.8	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.063	1	07/25/06	07/25/06	J, B
Chromium	EPA 200.7	6G25057	2.0	5.0	2.0	1	07/25/06	07/25/06	J
Copper	EPA 200.8	6G25114	0.25	2.0	1.7	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	1.3	1	07/25/06	07/25/06	B
Manganese	EPA 200.7	6G25057	7.0	20	130	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	3.0	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	ND	1	07/25/06	07/25/06	
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2038-01 (PM-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.51	1	07/25/06	07/25/06	J, B
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	ND	1	07/24/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.076	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.76	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.094	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.64	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	1.0	1	07/25/06	07/25/06	
Sample ID: IPG2038-01 (PM-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	27	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	1.7	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	180	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.10	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.10	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	73	5	07/24/06	07/24/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	330	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	27	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
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Sampled: 07/24/06
 Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	23	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.95	1	07/25/06	07/25/06	

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 Report Number: IPG2038

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2038-01 (PM-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	600	1	07/25/06	07/25/06	

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R-2A Pond Pilot Test
Report Number: IPG2038

Sampled: 07/24/06
Received: 07/24/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PM-EFF (IPG2038-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/24/2006 09:55	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 09:55	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 09:55	07/24/2006 16:35	07/24/2006 22:15	07/24/2006 23:41

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 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
Source: IPG2034-01											
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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 R-2A Pond Pilot Test
 Report Number: IPG2038

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
Batch: 6G24125 Extracted: 07/24/06										
Blank Analyzed: 07/24/2006 (6G24125-BLK1)										
Nitrate-N	ND	0.15	0.080	mg/l						
Nitrite-N	ND	0.15	0.080	mg/l						
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l						
Sulfate	0.418	0.50	0.18	mg/l						J
LCS Analyzed: 07/24/2006 (6G24125-BS1)										
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110		
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110		
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110		M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01										
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120		
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120		MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01										
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20 MI
Batch: 6G25057 Extracted: 07/25/06										
Blank Analyzed: 07/25/2006 (6G25057-BLK1)										
Hardness (as CaCO3)	ND	1.0	1.0	mg/l						
Batch: 6G25065 Extracted: 07/25/06										
Blank Analyzed: 07/25/2006 (6G25065-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
<u>Batch: 6G25065 Extracted: 07/25/06</u>											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
<u>Batch: 6G25069 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
<u>Batch: 6G25070 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
<u>Batch: 6G25072 Extracted: 07/25/06</u>											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G25072 Extracted: 07/25/06											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		Source: IPG2024-01 340			0	10	
Batch: 6G25080 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		Source: IPG2004-01 7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		Source: IPG2046-01 6.21			0	5	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		Source: IPG1738-01 0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	Source: IPG2024-01 11	108	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: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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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
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
					Source: IPG1800-01						
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
					Source: IPG1800-01						
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
					Source: IPG2015-01						
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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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IPG 2038

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 Manager: Bronwyn Kelly Sampler: <i>C. Barros</i>		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		ANALYSIS REQUIRED										Field readings: Temp = 86° pH = 7.4 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, 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, Fe, Zn
PM-EFF	W	Poly-1L	1	7/24/06 0655	HNO3	1	X	X							
PM-EFF	W	Poly-1L	1		None	2									
PM-EFF	W	VOAs	2		HCl	3A, 3B									
PM-EFF	W	1L Amber	2		HCl	4A, 4B			X						
PM-EFF	W	Poly-500 ml	1		H2SO4	5				X					
PM-EFF	W	Poly-500 ml	1		None	6					X				
PM-EFF	W	Poly-500 ml	2		None	7A, 7B						X			
PM-EFF	W	Poly-500 ml	1		H2SO4	8							X		
PM-EFF	W	Poly-1L	1	7/24/06 0955	None	9								X	
Relinquished By				Date/Time:	Received By				Date/Time:	Turn around Time: (check)					
<i>C. Barros</i>				7/24/06	<i>Bronwyn Kelly</i>				7-24-06	24 Hours _____ 5 Days _____					
Relinquished By				Date/Time:	Received By				Date/Time:	48 Hours _____ 10 Days _____					
<i>Bronwyn Kelly</i>				7-24-06 1135	<i>Bronwyn Kelly</i>				7/24/06 1635	72 Hours _____ Normal _____					
Relinquished By				Date/Time:	Received By				Date/Time:	Perchlorate Only 72 Hours _____					
<i>Bronwyn Kelly</i>					<i>Bronwyn Kelly</i>					Metals Only 72 Hours _____					
Sample Integrity: (Check) <input checked="" type="checkbox"/> Intact <input type="checkbox"/> On Ice: <input type="checkbox"/> <i>S</i>															

IPM 900

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 18:08

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

IPG2024-01

CLIENT ID

Z-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA

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: IPG2024

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2024-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.15	1	07/25/06	07/25/06	B
Sample ID: IPG2024-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.50	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	4.9	1	07/25/06	07/25/06	J
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.038	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	1.1	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.35	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	46	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	2.2	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	0.40	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	0.11	1	07/25/06	07/25/06	J
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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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: IPG2024-01 (Z-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2024-01 (Z-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.56	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	ND	1	07/24/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.075	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.81	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.087	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.80	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	0.032	1	07/25/06	07/25/06	J
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	0.19	1	07/25/06	07/25/06	J
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2024-01 (Z-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2024-01 (Z-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	ND	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	2.2	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	160	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.10	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	M1
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.10	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.36	1.0	74	2	07/24/06	07/24/06	M-3
Total Dissolved Solids	SM2540C	6G25072	10	10	340	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	ND	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2024-01 (Z-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G24128	0.040	1.0	3.8	1	07/24/06	07/24/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2024-01 (Z-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25125	N/A	NA	7.60	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2024-01 (Z-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	620	1	07/25/06	07/25/06	

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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: Z-EFF (IPG2024-01) - Water					
EPA 150.1	1	07/24/2006 09:25	07/24/2006 16:35	07/25/2006 17:00	07/25/2006 17:30
EPA 180.1	2	07/24/2006 09:25	07/24/2006 16:35	07/24/2006 17:30	07/24/2006 19:25
EPA 300.0	2	07/24/2006 09:25	07/24/2006 16:35	07/24/2006 19:15	07/24/2006 19:22

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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: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	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: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
					Source: IPG2034-01						
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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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: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	70-130	4	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2024

Sampled: 07/24/06
 Received: 07/24/06

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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	70-130	2	20	

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 R-2A Pond Pilot Test
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Sampled: 07/24/06
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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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

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 Received: 07/24/06

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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	

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 R-2A Pond Pilot Test
 Report Number: IPG2024

Sampled: 07/24/06
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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: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1)											
						Source: IPG2024-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1)											
						Source: IPG2024-01					
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G24128 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24128-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 07/24/2006 (6G24128-DUP1)											
						Source: IPG2011-01					
Turbidity	21.5	1.0	0.040	NTU		22			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: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
Batch: 6G25069 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
Batch: 6G25070 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	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
Batch: 6G25072 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		340			0	10	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	11	108	80-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)											
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	

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 Report Number: IPG2024

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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: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)											
						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)											
						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	

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 R-2A Pond Pilot Test
 Report Number: IPG2024

Sampled: 07/24/06
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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: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
Total Suspended Solids	228	10	10	mg/l		Source: IPG2015-01 210			8	10	
Batch: 6G25125 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25125-DUP1)											
pH	7.64	NA	N/A	pH Units		Source: IPG2024-01 7.60			1	5	

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R-2A Pond Pilot Test
Report Number: IPG2024

Sampled: 07/24/06
Received: 07/24/06

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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG2024

Sampled: 07/24/06
 Received: 07/24/06

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
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
 Michele Chamberlin
 Project Manager

CHAIN OF CUSTODY FORM

Del Mar Analytical Version 04/28/06

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 Total Recoverable Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*, Zn, Hardness <input type="checkbox"/>		Field readings: Temp = 85.6 pH = 7.0	
Phone Number: (626) 568-6691 Fax Number: (626) 568-6515			Total Dissolved Solids, pH, Alkalinity, Suspended Sediments Concentration (ASTM Method) <input type="checkbox"/>			Total Organic Carbon <input type="checkbox"/>		Oil & Grease (EPA 413.1) <input type="checkbox"/>	
Project Manager: Bronwyn Kelly			Preservative HNO3 None HCl HCl H2SO4 None None H2SO4 None			Total Kjeldahl Nitrogen <input type="checkbox"/>		Ammonia-N (NH3-N) <input type="checkbox"/>	
Sampler: L. Barroso			Sampling Date/Time 7/24/06 0925 7/24/06 0925 7/24/06 0925			SC4, NO3+NO2-N, Nitrate-N, Nitrite-N (NO3 + NO2-N) <input type="checkbox"/>		Turbidity, TSS, Conductivity <input type="checkbox"/>	
Sample Description Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF Z-EFF			Container Type Poly-1L Poly-1L VOAs 1L Amber Poly-500 ml Poly-500 ml Poly-500 ml Poly-500 ml Poly-500 ml Poly-1L			Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*, Zn, Hardness <input type="checkbox"/>		Comments Total Dissolved Metals: As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Ti, Fe*, Zn	
# of Cont. 1 1 2 2 1 1 2 1 1			Bottle # 1 2 3A, 3B 4A, 4B 5 6 7A, 7B 8 9			Total Organic Carbon <input type="checkbox"/>		Perchlorate Only 72 Hours <input type="checkbox"/>	
Relinquished By L. Barroso			Date/Time: 7/24/06			Received By [Signature]		Date/Time: 7-24-06 1417	
Relinquished By [Signature]			Date/Time: 7-24-06 1635			Received By [Signature]		Date/Time: 7/24/06 1635	
Relinquished By [Signature]			Date/Time: [Signature]			Received By [Signature]		Date/Time: [Signature]	
Turn around Time: (check) 24 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 10 Days <input type="checkbox"/> 72 Hours <input type="checkbox"/> Normal <input type="checkbox"/> Perchlorate Only 72 Hours <input type="checkbox"/> Metals Only 72 Hours <input type="checkbox"/> Sample Integrity: (Check) On Ice: <input checked="" type="checkbox"/>			Metals Only 72 Hours <input type="checkbox"/>			Sample Integrity: (Check) Intact <input checked="" type="checkbox"/>		On Ice: <input checked="" type="checkbox"/>	

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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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 18:27

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

IPG2026-01

CLIENT ID

PT-INF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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Project Manager

MWH-Pasadena/Boeing
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2026

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2026-01 (PT-INF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	2.0	1	07/25/06	07/25/06	
Sample ID: IPG2026-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.49	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.074	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	3.1	1	07/25/06	07/25/06	J
Copper	EPA 200.8	6G25114	0.25	2.0	2.2	1	07/25/06	07/25/06	
Lead	EPA 200.8	6G25056	0.13	1.0	1.5	1	07/25/06	07/25/06	
Manganese	EPA 200.7	6G25057	7.0	20	160	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	4.5	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	0.43	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	0.085	1	07/25/06	07/25/06	J
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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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: IPG2026-01 (PT-INF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2026-01 (PT-INF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.51	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	4.4	1	07/24/06	07/25/06	J
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.075	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.73	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.083	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.70	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2026-01 (PT-INF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2026-01 (PT-INF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	41	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	1.7	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	170	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	1.1	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.11	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.11	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.36	1.0	75	2	07/24/06	07/24/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	340	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	40	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2026-01 (PT-INF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	24	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2026-01 (PT-INF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.98	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2026-01 (PT-INF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	620	1	07/25/06	07/25/06	

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Received: 07/24/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: PT-INF (IPG2026-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/24/2006 09:05	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 09:05	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 09:05	07/24/2006 16:35	07/24/2006 19:15	07/24/2006 19:35

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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: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	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: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
Source: IPG2034-01											
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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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: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	ND	96	70-130	2	20	

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 Attention: Bronwyn Kelly

Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2026

Sampled: 07/24/06
 Received: 07/24/06

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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	

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 Report Number: IPG2026

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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: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1)											
						Source: IPG2024-01					
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1)											
						Source: IPG2024-01					
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-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
<u>Batch: 6G25065 Extracted: 07/25/06</u>											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
<u>Batch: 6G25069 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
<u>Batch: 6G25070 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
<u>Batch: 6G25072 Extracted: 07/25/06</u>											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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
Batch: 6G25072 Extracted: 07/25/06											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		340			0	10	
Batch: 6G25080 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		6.21			0	5	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	11	108	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: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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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
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
						Source: IPG2015-01					
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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R-2A Pond Pilot Test
Report Number: IPG2026

Sampled: 07/24/06
Received: 07/24/06

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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG2026

Sampled: 07/24/06
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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
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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IPG 2026

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 Manager: Bronwyn Kelly Sampler: <i>R. Barroso</i>		Project: Boeing-SSFL BMP/NPDES R-2A Pond Filtration Pilot Test Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		ANALYSIS REQUIRED										Field readings: Temp = 85° pH = 7.3 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 (EPA 413.1)	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	Turn around Time: (check)
PT-INF	W	Poly-1L	1	7/24/06 0905	HNO3	1	X								24 Hours	
PT-INF	W	Poly-1L	2		None	2		X							48 Hours	
PT-INF	W	VOAs	2		HCl	3A, 3B			X						72 Hours	
PT-INF	W	1L Amber	2		HCl	4A, 4B				X					Perchlorate Only 72 Hours	
PT-INF	W	Poly-500 ml	1		H2SO4	5					X				Metals Only 72 Hours	
PT-INF	W	Poly-500 ml	1		None	6						X			Sample Integrity, (Check) Intact	
PT-INF	W	Poly-500 ml	2		None	7A, 7B							X		On Ice	
PT-INF	W	Poly-500 ml	1	7/24/06 0905	H2SO4	8								X		
PT-INF	W	Poly-1L	1		None	9										
Relinquished By	<i>R. Barroso</i>	Date/Time:	7/24/06	Received By	<i>Bronwyn Kelly</i>	Date/Time:	7/24/06	1417								
Relinquished By	<i>Bronwyn Kelly</i>	Date/Time:	7-24-06 1635	Received By	<i>Bronwyn Kelly</i>	Date/Time:	7/24/06	1635								
Relinquished By	<i>Bronwyn Kelly</i>	Date/Time:		Received By	<i>Bronwyn Kelly</i>	Date/Time:										

DN1900

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 18:51

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

IPG2028-01

CLIENT ID

LC-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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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: IPG2028

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2028-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.41	1	07/25/06	07/25/06	
Sample ID: IPG2028-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.51	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.044	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	1.2	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.57	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	64	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	ND	1	07/25/06	07/25/06	
Selenium	EPA 200.8	6G25056	0.36	2.0	ND	1	07/25/06	07/25/06	
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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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: IPG2028-01 (LC-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2028-01 (LC-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.55	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	ND	1	07/24/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.082	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.97	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.090	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.88	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2028

Sampled: 07/24/06
 Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2028-01 (LC-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2028-01 (LC-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	11	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	1.7	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	170	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	1.1	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	190	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.10	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.10	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	74	5	07/24/06	07/25/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	340	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	11	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2028-01 (LC-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	8.1	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2028-01 (LC-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.81	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2028-01 (LC-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	610	1	07/25/06	07/25/06	

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Received: 07/24/06

SHORT HOLD TIME DETAIL REPORT

Sample ID: LC-EFF (IPG2028-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 150.1	1	07/24/2006 10:07	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 10:07	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 10:07	07/24/2006 16:35	07/24/2006 19:15	07/24/2006 19:47

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 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	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
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Batch: 6G25057 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25057-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

LCS Analyzed: 07/25/2006 (6G25057-BS1)

Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			

Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)

Source: IPG2034-01

Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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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: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	

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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: IPG2028

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							

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Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25065 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
Batch: 6G25069 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
Batch: 6G25070 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
Batch: 6G25072 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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 R-2A Pond Pilot Test
 Report Number: IPG2028

Sampled: 07/24/06
 Received: 07/24/06

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: 6G25072 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		340			0	10	
<u>Batch: 6G25080 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		6.21			0	5	
<u>Batch: 6G25081 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		0.99			0	20	
<u>Batch: 6G25103 Extracted: 07/25/06</u>											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	11	108	80-120			

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 R-2A Pond Pilot Test
 Report Number: IPG2028

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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: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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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: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
						Source: IPG2015-01					
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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R-2A Pond Pilot Test
Report Number: IPG2028

Sampled: 07/24/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG2028

Sampled: 07/24/06
 Received: 07/24/06

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
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
 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/NPDES
 R-2A Pond Filtration Pilot Test

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

Sampler: L. Barroso

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*	Field readings: Temp = 87.0 pH = 7.2	Comments
LC-EFF	W	Poly-1L	1	7/24/06 10:07	HNO3	1	X		X									
LC-EFF	W	Poly-1L	1		None	2				X								
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	7/24/06 10:07	H2SO4	8									X			
LC-EFF	W	Poly-1L	1		None	9										X		

Relinquished By: L. Barroso Date/Time: 7/24/06

Received By: [Signature] Date/Time: 7/24/06 1417

Relinquished By: [Signature] Date/Time: 7-24-06 1635

Received By: [Signature] Date/Time: 7/24/06 1635

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: _____

DM900

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 18:52

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

IPG2029-01

CLIENT ID

V-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG2029

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2029-01 (V-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.51	1	07/25/06	07/25/06	
Sample ID: IPG2029-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.50	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.040	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	1.1	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.54	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	75	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	2.8	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	0.37	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
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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: IPG2029-01 (V-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2029-01 (V-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.53	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	ND	1	07/24/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.070	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.85	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.081	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.72	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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 R-2A Pond Pilot Test
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Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2029-01 (V-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2029-01 (V-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	14	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	1.7	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	180	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	1.1	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.12	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.12	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	73	5	07/24/06	07/25/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	340	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	14	1	07/25/06	07/25/06	

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Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2029-01 (V-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	7.7	1	07/25/06	07/25/06	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2029

Sampled: 07/24/06
 Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2029-01 (V-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.82	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2029-01 (V-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	610	1	07/25/06	07/25/06	

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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 (IPG2029-01) - Water					
EPA 150.1	1	07/24/2006 08:50	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 08:50	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 08:50	07/24/2006 16:35	07/24/2006 19:15	07/24/2006 19:59

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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: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	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: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
					Source: IPG2034-01						
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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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: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00	103	85-115
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	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: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-BLK1)											
Oil & Grease	ND	5.0	0.94	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: 6G25065 Extracted: 07/25/06</u>											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
<u>Batch: 6G25069 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
<u>Batch: 6G25070 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
<u>Batch: 6G25072 Extracted: 07/25/06</u>											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

TestAmerica - Irvine, CA
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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2029

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25072 Extracted: 07/25/06											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		Source: IPG2024-01 340			0	10	
Batch: 6G25080 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		Source: IPG2004-01 7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		Source: IPG2046-01 6.21			0	5	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		Source: IPG1738-01 0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	Source: IPG2024-01 11	108	80-120			

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Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
						Source: IPG2015-01					
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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R-2A Pond Pilot Test
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Sampled: 07/24/06
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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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
 Michele Chamberlin
 Project Manager

IFG 2029

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 Manager: Bronwyn Kelly Sampler: P. Barnard		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, 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										Field readings: Temp = 84.0 pH = 7.0 Comments		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	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	Field readings:
V-EFF	W	Poly-1L	1	7/24/06 08:50	HNO3	1	X	X								
V-EFF	W	Poly-1L	1		None	2										
V-EFF	W	VOAs	2		HCl	3A, 3B		X								
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	7/24/06 08:50	H2SO4	8							X			
V-EFF	W	Poly-1L	1		None	9								X		
Relinquished By: <i>P. Barnard</i> Date/Time: 7/24/06 Relinquished By: <i>Bronwyn Kelly</i> Date/Time: 7/24/06 1635 Relinquished By: <i>Bronwyn Kelly</i> Date/Time: 7/24/06 1635																
Received By: <i>Bronwyn Kelly</i> Date/Time: 7-24-06 1417 Received By: <i>Bronwyn Kelly</i> Date/Time: 7/24/06 1635 Received By: <i>Bronwyn Kelly</i> Date/Time: 7/24/06 1635																
Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours <input checked="" type="checkbox"/> 10 Days _____ 72 Hours _____ Normal _____ Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____ Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/>																

DN1900

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 18:59

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

IPG2031-01

CLIENT ID

BST-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG2031

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.45	1	07/25/06	07/25/06	
Sample ID: IPG2031-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.44	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.033	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	0.96	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.53	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	230	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	ND	1	07/25/06	07/25/06	
Selenium	EPA 200.8	6G25056	0.36	2.0	0.36	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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 Received: 07/24/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	0.025	1	07/24/06	07/25/06	J
Sample ID: IPG2031-01 (BST-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.50	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	4.6	1	07/24/06	07/25/06	J
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.078	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.71	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.097	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	65	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	2.0	1	07/24/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.78	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2031

Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2031-01 (BST-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	ND	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	2.2	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	170	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	ND	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	ND	1	07/24/06	07/24/06	
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	72	5	07/24/06	07/24/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	340	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	12	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	ND	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	6.5	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.45	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2031-01 (BST-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	610	1	07/25/06	07/25/06	

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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: BST-EFF (IPG2031-01) - Water					
EPA 150.1	1	07/24/2006 09:40	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 09:40	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 09:40	07/24/2006 16:35	07/24/2006 22:15	07/24/2006 22:28
<i>Nitrate-N</i>				07/24/2006 19:15	07/24/2006 22:28

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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: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	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: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
					Source: IPG2034-01						
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	70-130	2	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	ND	96	70-130	2	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	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: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-BLK1)											
Oil & Grease	ND	5.0	0.94	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: 6G25065 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
Batch: 6G25069 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
Batch: 6G25070 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
Batch: 6G25072 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G25072 Extracted: 07/25/06											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		340			0	10	
Batch: 6G25080 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		6.21			0	5	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	11	108	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2031

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
					Source: IPG1800-01						
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
					Source: IPG1800-01						
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
					Source: IPG2015-01						
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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: IPG2031

Sampled: 07/24/06
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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
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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IRG 2031

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 Manager: Bronwyn Kelly Sampler: <i>L. Barnes</i>		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, Tl, Fe, Zn, Hardness Total Dissolved Solids, pH Sediments Concentration Alkalinity, Suspended (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 Field readings: Temp = 86° pH = 6.8 Comments																	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	As, Ag, Be, Cd, Cr, Cu, Pb, Hg, Ni, Mn, Sb, Se, Tl, Fe, Zn, Hardness	Total Dissolved Solids, pH	Sediments Concentration	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	Field readings: Temp = 86° pH = 6.8	Comments		
BST-EFF	W	Poly-1L	1	7/24/06 0940	HNO3	1	X	X													
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					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	7/24/06 0940	None	9											X				
Relinquished By				Date/Time:	Received By				Date/Time:	Turn around Time: (check)				24 Hours				5 Days			
<i>L. Barnes</i>				7/24/06	<i>Bronwyn Kelly</i>				7-24-06	48 Hours				X				10 Days			
Relinquished By				Date/Time:	Received By				Date/Time:	Perchlorate Only 72 Hours				72 Hours				Normal			
<i>Bronwyn Kelly</i>				7-24-06 10:35	<i>Bronwyn Kelly</i>				7/24/06 10:35												
Relinquished By				Date/Time:	Received By				Date/Time:	Metals Only 72 Hours				Metals Only 72 Hours				Sample Integrity: (Check) On Ice:			
<i>Bronwyn Kelly</i>					<i>Bronwyn Kelly</i>													Intact			

0011900

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 19:09

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

IPG2034-01

CLIENT ID

P-EFF

MATRIX

Water

Reviewed By:



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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: IPG2034

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.19	1	07/25/06	07/25/06	B
Sample ID: IPG2034-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.46	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.034	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	1.1	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.27	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	34	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	2.0	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	0.43	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	0.11	1	07/25/06	07/25/06	J
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2034

Sampled: 07/24/06
 Received: 07/24/06

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2034-01 (P-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.51	1	07/25/06	07/25/06	B, J
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	4.5	1	07/24/06	07/25/06	J
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.078	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.78	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.085	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	2.0	1	07/24/06	07/25/06	J
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.65	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2034

Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2034-01 (P-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	ND	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	2.5	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	170	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	200	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.12	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.12	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.90	4.8	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	73	5	07/24/06	07/24/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	330	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	11	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	ND	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	3.6	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.71	1	07/25/06	07/25/06	

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Report Number: IPG2034

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2034-01 (P-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	600	1	07/25/06	07/25/06	

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R-2A Pond Pilot Test
Report Number: IPG2034

Sampled: 07/24/06
Received: 07/24/06

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 (IPG2034-01) - Water					
EPA 150.1	1	07/24/2006 08:17	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 08:17	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 08:17	07/24/2006 16:35	07/24/2006 22:15	07/24/2006 22:52

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 R-2A Pond Pilot Test
 Report Number: IPG2034

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2034

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 07/25/2006 (6G25057-BS1)											
Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)											
					Source: IPG2034-01						
Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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 Report Number: IPG2034

Sampled: 07/24/06
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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: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	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: 6G24125 Extracted: 07/24/06											
Blank Analyzed: 07/24/2006 (6G24125-BLK1)											
Nitrate-N	ND	0.15	0.080	mg/l							
Nitrite-N	ND	0.15	0.080	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l							
Sulfate	0.418	0.50	0.18	mg/l							J
LCS Analyzed: 07/24/2006 (6G24125-BS1)											
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110			
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110			
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110			M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01											
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120			
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120			MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01											
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20	
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20	MI
Batch: 6G25057 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25057-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 6G25065 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25065-BLK1)											
Oil & Grease	ND	5.0	0.94	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: 6G25065 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
Batch: 6G25069 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
Batch: 6G25070 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
Batch: 6G25072 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	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: 6G25072 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)						Source: IPG2024-01					
Total Dissolved Solids	341	10	10	mg/l		340			0	10	
<u>Batch: 6G25080 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)						Source: IPG2004-01					
pH	7.20	NA	N/A	pH Units		7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)						Source: IPG2046-01					
pH	6.21	NA	N/A	pH Units		6.21			0	5	
<u>Batch: 6G25081 Extracted: 07/25/06</u>											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)						Source: IPG1738-01					
Density	0.991	NA	N/A	g/cc		0.99			0	20	
<u>Batch: 6G25103 Extracted: 07/25/06</u>											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)						Source: IPG2024-01					
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	11	108	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
						Source: IPG2015-01					
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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Project ID: Boeing-SSFL BMP/NPDES
R-2A Pond Pilot Test
Report Number: IPG2034

Sampled: 07/24/06
Received: 07/24/06

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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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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 Report Number: IPG2034

Sampled: 07/24/06
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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
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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 Michele Chamberlin
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IFG 2034

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		Phone Number: (626) 568-6691		Fax Number: (626) 568-6515		Project Manager: Bronwyn Kelly		Sampler: <i>A. Barroso</i>							
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 (EPA 413 1)	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	Field readings: Temp = 84° pH = 7.0	Comments
P-EFF	W	Poly-1L	1	7/24/06 6:11	HNO3	1	X	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	7/24/06 8:17	None	9											
Relinquished By <i>A. Barroso</i>		Date/Time: 7/24/06		Received By <i>Bronwyn Kelly</i>		Date/Time: 7-24-06 1417		Turn around Time: (check) 24 Hours _____ 48 Hours <input checked="" type="checkbox"/> _____ 72 Hours _____ Perchlorate Only 72 Hours _____		Metals Only 72 Hours _____		Sample Integrity (Check) Intact <input checked="" type="checkbox"/> _____ On Ice: <i>SC</i>					
Relinquished By <i>Bronwyn Kelly</i>		Date/Time: 7-24-06 1635		Received By <i>[Signature]</i>		Date/Time: 7/24/06 1635											
Relinquished By <i>[Signature]</i>		Date/Time: _____		Received By <i>[Signature]</i>		Date/Time: _____											

MMA

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: 07/24/06
Received: 07/24/06
Issued: 07/26/06 19:17

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

IPG2036-01

CLIENT ID

P-DUP-EFF

MATRIX

Water

Reviewed By:



TestAmerica - Irvine, CA
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: IPG2036

Sampled: 07/24/06
 Received: 07/24/06

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2036-01 (P-DUP-EFF - Water)									
Reporting Units: mg/l									
Iron	EPA 200.7	6G25057	0.015	0.040	0.19	1	07/25/06	07/25/06	B
Sample ID: IPG2036-01 (P-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	6G25056	0.18	2.0	0.49	1	07/25/06	07/25/06	J
Arsenic	EPA 200.7	6G25057	4.4	5.0	ND	1	07/25/06	07/25/06	
Beryllium	EPA 200.7	6G25057	0.90	2.0	ND	1	07/25/06	07/25/06	
Cadmium	EPA 200.8	6G25056	0.015	1.0	0.032	1	07/25/06	07/25/06	J, B
Chromium	EPA 200.7	6G25057	2.0	5.0	ND	1	07/25/06	07/25/06	
Copper	EPA 200.8	6G25114	0.25	2.0	0.99	1	07/25/06	07/25/06	J
Lead	EPA 200.8	6G25056	0.13	1.0	0.38	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7	6G25057	7.0	20	33	1	07/25/06	07/25/06	
Mercury	EPA 245.1	6G25092	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7	6G25057	2.0	10	2.2	1	07/25/06	07/25/06	J
Selenium	EPA 200.8	6G25056	0.36	2.0	0.40	1	07/25/06	07/25/06	J
Silver	EPA 200.8	6G25056	0.089	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8	6G25056	0.075	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7	6G25057	15	20	ND	1	07/25/06	07/25/06	

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 R-2A Pond Pilot Test
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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: IPG2036-01 (P-DUP-EFF - Water) - cont.									
Reporting Units: mg/l									
Iron	EPA 200.7-Diss	6G24138	0.015	0.040	ND	1	07/24/06	07/25/06	
Sample ID: IPG2036-01 (P-DUP-EFF - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	6G25089	0.050	2.0	0.49	1	07/25/06	07/25/06	J, B
Arsenic	EPA 200.7-Diss	6G24138	4.4	5.0	ND	1	07/24/06	07/25/06	
Beryllium	EPA 200.7-Diss	6G24138	0.90	2.0	ND	1	07/24/06	07/25/06	
Cadmium	EPA 200.8-Diss	6G25089	0.025	1.0	0.073	1	07/25/06	07/25/06	B, J
Chromium	EPA 200.7-Diss	6G24138	2.0	5.0	ND	1	07/24/06	07/25/06	
Copper	EPA 200.8-Diss	6G25089	0.25	2.0	0.98	1	07/25/06	07/25/06	J
Lead	EPA 200.8-Diss	6G25089	0.040	1.0	0.083	1	07/25/06	07/25/06	B, J
Manganese	EPA 200.7-Diss	6G24138	7.0	20	ND	1	07/24/06	07/25/06	
Mercury	EPA 245.1-Diss	6G25091	0.15	0.20	ND	1	07/25/06	07/26/06	
Nickel	EPA 200.7-Diss	6G24138	2.0	10	ND	1	07/24/06	07/25/06	
Selenium	EPA 200.8-Diss	6G25089	0.30	2.0	0.69	1	07/25/06	07/25/06	J
Silver	EPA 200.8-Diss	6G25089	0.025	1.0	ND	1	07/25/06	07/25/06	
Thallium	EPA 200.8-Diss	6G25089	0.15	1.0	ND	1	07/25/06	07/25/06	
Zinc	EPA 200.7-Diss	6G24138	15	20	ND	1	07/24/06	07/25/06	

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 R-2A Pond Pilot Test
 Report Number: IPG2036

Sampled: 07/24/06
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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2036-01 (P-DUP-EFF - Water) - cont.									
Reporting Units: g/cc									
Density	Displacement	6G25081	N/A	NA	0.99	1	07/25/06	07/25/06	
Sample ID: IPG2036-01 (P-DUP-EFF - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	6G26124	10	10	ND	1	07/26/06	07/26/06	
Total Kjeldahl Nitrogen	EPA 351.3	6G25117	0.43	0.50	1.1	1	07/25/06	07/25/06	
Alkalinity as CaCO3	EPA 310.1	6G25069	2.0	2.0	170	1	07/25/06	07/25/06	
Ammonia-N (Distilled)	EPA 350.2	6G25115	0.30	0.50	0.56	1	07/25/06	07/25/06	
Hardness (as CaCO3)	SM2340B	6G25057	1.0	1.0	190	1	07/25/06	07/25/06	
Nitrate-N	EPA 300.0	6G24125	0.080	0.15	0.11	1	07/24/06	07/24/06	J
Nitrite-N	EPA 300.0	6G24125	0.080	0.15	ND	1	07/24/06	07/24/06	
Nitrate/Nitrite-N	EPA 300.0	6G24125	0.072	0.26	0.11	1	07/24/06	07/24/06	J
Oil & Grease	EPA 413.1	6G25065	0.89	4.7	ND	1	07/25/06	07/25/06	
Sulfate	EPA 300.0	6G24125	0.90	2.5	72	5	07/24/06	07/24/06	
Total Dissolved Solids	SM2540C	6G25072	10	10	330	1	07/25/06	07/26/06	
Total Organic Carbon	EPA 415.1	6G25103	0.50	1.0	10	1	07/25/06	07/25/06	
Total Suspended Solids	EPA 160.2	6G25124	10	10	ND	1	07/25/06	07/25/06	

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R-2A Pond Pilot Test
Report Number: IPG2036

Sampled: 07/24/06
Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2036-01 (P-DUP-EFF - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	6G25108	0.040	1.0	3.8	1	07/25/06	07/25/06	

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Sampled: 07/24/06
 Received: 07/24/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2036-01 (P-DUP-EFF - Water) - cont.									
Reporting Units: pH Units									
pH	EPA 150.1	6G25080	N/A	NA	7.71	1	07/25/06	07/25/06	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPG2036-01 (P-DUP-EFF - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	6G25070	N/A	1.0	610	1	07/25/06	07/25/06	

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Sampled: 07/24/06
Received: 07/24/06

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: P-DUP-EFF (IPG2036-01) - Water					
EPA 150.1	1	07/24/2006 08:35	07/24/2006 16:35	07/25/2006 09:15	07/25/2006 09:30
EPA 180.1	2	07/24/2006 08:35	07/24/2006 16:35	07/25/2006 14:00	07/25/2006 15:27
EPA 300.0	2	07/24/2006 08:35	07/24/2006 16:35	07/24/2006 22:15	07/24/2006 23:17

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 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 6G25056 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25056-BLK1)											
Antimony	ND	2.0	0.18	ug/l							
Cadmium	0.0317	1.0	0.015	ug/l							J
Lead	0.130	1.0	0.13	ug/l							J
Selenium	ND	2.0	0.36	ug/l							
Silver	0.0344	1.0	0.025	ug/l							J
Thallium	ND	1.0	0.075	ug/l							
LCS Analyzed: 07/25/2006 (6G25056-BS1)											
Antimony	80.6	2.0	0.18	ug/l	80.0		101	85-115			
Cadmium	80.1	1.0	0.015	ug/l	80.0		100	85-115			
Lead	79.8	1.0	0.13	ug/l	80.0		100	85-115			
Selenium	80.3	2.0	0.36	ug/l	80.0		100	85-115			
Silver	75.0	1.0	0.089	ug/l	80.0		94	85-115			
Thallium	79.3	1.0	0.075	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25056-MS1) Source: IPG2034-01											
Antimony	86.1	2.0	0.18	ug/l	80.0	0.46	107	70-130			
Cadmium	82.2	1.0	0.015	ug/l	80.0	0.034	103	70-130			
Lead	79.8	1.0	0.13	ug/l	80.0	0.27	99	70-130			
Selenium	78.6	2.0	0.36	ug/l	80.0	0.43	98	70-130			
Silver	74.3	1.0	0.089	ug/l	80.0	ND	93	70-130			
Thallium	80.8	1.0	0.075	ug/l	80.0	0.11	101	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25056-MSD1) Source: IPG2034-01											
Antimony	85.8	2.0	0.18	ug/l	80.0	0.46	107	70-130	0	20	
Cadmium	82.7	1.0	0.015	ug/l	80.0	0.034	103	70-130	1	20	
Lead	79.4	1.0	0.13	ug/l	80.0	0.27	99	70-130	1	20	
Selenium	82.9	2.0	0.36	ug/l	80.0	0.43	103	70-130	5	20	
Silver	73.7	1.0	0.089	ug/l	80.0	ND	92	70-130	1	20	
Thallium	79.8	1.0	0.075	ug/l	80.0	0.11	100	70-130	1	20	

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Project ID: Boeing-SSFL BMP/NPDES
 R-2A Pond Pilot Test
 Report Number: IPG2036

Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 6G25057 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25057-BLK1)

Arsenic	ND	5.0	4.4	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	0.0217	0.040	0.015	mg/l							J
Magnesium	ND	0.020	N/A	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Zinc	ND	20	15	ug/l							

LCS Analyzed: 07/25/2006 (6G25057-BS1)

Arsenic	530	5.0	4.4	ug/l	500		106	85-115			
Beryllium	507	2.0	0.90	ug/l	500		101	85-115			
Calcium	2.44	0.10	N/A	mg/l	2.50		98	85-115			
Chromium	526	5.0	2.0	ug/l	500		105	85-115			
Iron	0.556	0.040	0.015	mg/l	0.500		111	85-115			
Magnesium	2.64	0.020	N/A	mg/l	2.50		106	85-115			
Manganese	514	20	7.0	ug/l	500		103	85-115			
Nickel	518	10	2.0	ug/l	500		104	85-115			
Zinc	514	20	15	ug/l	500		103	85-115			

Matrix Spike Analyzed: 07/25/2006 (6G25057-MS1)

Source: IPG2034-01

Arsenic	529	5.0	4.4	ug/l	500	ND	106	70-130			
Beryllium	511	2.0	0.90	ug/l	500	ND	102	70-130			
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130			
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.705	0.040	0.015	mg/l	0.500	0.19	103	70-130			
Magnesium	17.9	0.020	N/A	mg/l	2.50	15	116	70-130			
Manganese	534	20	7.0	ug/l	500	34	100	70-130			
Nickel	494	10	2.0	ug/l	500	2.0	98	70-130			
Zinc	498	20	15	ug/l	500	ND	100	70-130			

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Sampled: 07/24/06
 Received: 07/24/06

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25057 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25057-MSD1)						Source: IPG2034-01					
Arsenic	534	5.0	4.4	ug/l	500	ND	107	70-130	1	20	
Beryllium	520	2.0	0.90	ug/l	500	ND	104	70-130	2	20	
Calcium	55.3	0.10	N/A	mg/l	2.50	53	92	70-130	0	20	
Chromium	518	5.0	2.0	ug/l	500	ND	104	70-130	1	20	
Iron	0.717	0.040	0.015	mg/l	0.500	0.19	105	70-130	2	20	
Magnesium	18.0	0.020	N/A	mg/l	2.50	15	120	70-130	1	20	
Manganese	543	20	7.0	ug/l	500	34	102	70-130	2	20	
Nickel	509	10	2.0	ug/l	500	2.0	101	70-130	3	20	
Zinc	513	20	15	ug/l	500	ND	103	70-130	3	20	

Batch: 6G25092 Extracted: 07/25/06

Blank Analyzed: 07/26/2006 (6G25092-BLK1)

Mercury	ND	0.20	0.15	ug/l							
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LCS Analyzed: 07/26/2006 (6G25092-BS1)

Mercury	8.23	0.20	0.15	ug/l	8.00		103	85-115			
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Matrix Spike Analyzed: 07/26/2006 (6G25092-MS1)

Mercury	8.04	0.20	0.15	ug/l	8.00	ND	100	70-130			
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Matrix Spike Dup Analyzed: 07/26/2006 (6G25092-MSD1)

Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	0	20	
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Batch: 6G25114 Extracted: 07/25/06

Blank Analyzed: 07/25/2006 (6G25114-BLK1)

Copper	ND	2.0	0.25	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: 6G25114 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25114-BS1)											
Copper	80.2	2.0	0.25	ug/l	80.0		100	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS1)											
Copper	74.2	2.0	0.25	ug/l	80.0	1.3	91	70-130			
Matrix Spike Analyzed: 07/25/2006 (6G25114-MS2)											
Copper	79.5	2.0	0.25	ug/l	80.0	1.1	98	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25114-MSD1)											
Copper	77.4	2.0	0.25	ug/l	80.0	1.3	95	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: 6G24138 Extracted: 07/24/06											
Blank Analyzed: 07/25/2006 (6G24138-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: 07/25/2006 (6G24138-BS1)											
Arsenic	985	5.0	4.4	ug/l	1000		98	85-115			
Beryllium	956	2.0	0.90	ug/l	1000		96	85-115			
Chromium	971	5.0	2.0	ug/l	1000		97	85-115			
Iron	0.977	0.040	0.015	mg/l	1.00		98	85-115			
Manganese	967	20	7.0	ug/l	1000		97	85-115			
Nickel	980	10	2.0	ug/l	1000		98	85-115			
Zinc	991	20	15	ug/l	1000		99	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G24138-MS1) Source: IPG2024-01											
Arsenic	1050	5.0	4.4	ug/l	1000	ND	105	70-130			
Beryllium	997	2.0	0.90	ug/l	1000	ND	100	70-130			
Chromium	1000	5.0	2.0	ug/l	1000	ND	100	70-130			
Iron	0.997	0.040	0.015	mg/l	1.00	ND	100	70-130			
Manganese	984	20	7.0	ug/l	1000	ND	98	70-130			
Nickel	988	10	2.0	ug/l	1000	ND	99	70-130			
Zinc	1020	20	15	ug/l	1000	ND	102	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G24138-MSD1) Source: IPG2024-01											
Arsenic	1040	5.0	4.4	ug/l	1000	ND	104	70-130	1	20	
Beryllium	986	2.0	0.90	ug/l	1000	ND	99	70-130	1	20	
Chromium	979	5.0	2.0	ug/l	1000	ND	98	70-130	2	20	
Iron	0.976	0.040	0.015	mg/l	1.00	ND	98	70-130	2	20	
Manganese	978	20	7.0	ug/l	1000	ND	98	70-130	1	20	
Nickel	966	10	2.0	ug/l	1000	ND	97	70-130	2	20	
Zinc	995	20	15	ug/l	1000	ND	100	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: 6G25089 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25089-BLK1)											
Antimony	0.0774	2.0	0.050	ug/l							J
Cadmium	0.0820	1.0	0.025	ug/l							J
Copper	ND	2.0	0.25	ug/l							
Lead	0.0787	1.0	0.040	ug/l							J
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: 07/25/2006 (6G25089-BS1)											
Antimony	78.8	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	78.9	1.0	0.025	ug/l	80.0		99	85-115			
Copper	77.0	2.0	0.25	ug/l	80.0		96	85-115			
Lead	75.9	1.0	0.040	ug/l	80.0		95	85-115			
Selenium	79.6	2.0	0.30	ug/l	80.0		100	85-115			
Silver	74.4	1.0	0.025	ug/l	80.0		93	85-115			
Thallium	75.9	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 07/25/2006 (6G25089-MS1) Source: IPG2038-01											
Antimony	83.4	2.0	0.050	ug/l	80.0	0.51	104	70-130			
Cadmium	79.4	1.0	0.025	ug/l	80.0	0.076	99	70-130			
Copper	76.5	2.0	0.25	ug/l	80.0	0.76	95	70-130			
Lead	74.2	1.0	0.040	ug/l	80.0	0.094	93	70-130			
Selenium	79.1	2.0	0.30	ug/l	80.0	0.64	98	70-130			
Silver	71.8	1.0	0.025	ug/l	80.0	ND	90	70-130			
Thallium	75.8	1.0	0.15	ug/l	80.0	ND	95	70-130			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25089-MSD1) Source: IPG2038-01											
Antimony	85.7	2.0	0.050	ug/l	80.0	0.51	106	70-130	3	20	
Cadmium	82.5	1.0	0.025	ug/l	80.0	0.076	103	70-130	4	20	
Copper	78.6	2.0	0.25	ug/l	80.0	0.76	97	70-130	3	20	
Lead	75.5	1.0	0.040	ug/l	80.0	0.094	94	70-130	2	20	
Selenium	81.1	2.0	0.30	ug/l	80.0	0.64	101	70-130	2	20	
Silver	74.8	1.0	0.025	ug/l	80.0	ND	94	70-130	4	20	
Thallium	77.0	1.0	0.15	ug/l	80.0	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: 6G25091 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25091-BLK1)											
Mercury	ND	0.20	0.15	ug/l							
LCS Analyzed: 07/26/2006 (6G25091-BS1)											
Mercury	8.24	0.20	0.15	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 07/26/2006 (6G25091-MS1)											
						Source: IPG2047-01					
Mercury	7.91	0.20	0.15	ug/l	8.00	ND	99	70-130			
Matrix Spike Dup Analyzed: 07/26/2006 (6G25091-MSD1)											
						Source: IPG2047-01					
Mercury	8.02	0.20	0.15	ug/l	8.00	ND	100	70-130	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
Batch: 6G24125 Extracted: 07/24/06										
Blank Analyzed: 07/24/2006 (6G24125-BLK1)										
Nitrate-N	ND	0.15	0.080	mg/l						
Nitrite-N	ND	0.15	0.080	mg/l						
Nitrate/Nitrite-N	ND	0.26	0.072	mg/l						
Sulfate	0.418	0.50	0.18	mg/l						J
LCS Analyzed: 07/24/2006 (6G24125-BS1)										
Nitrate-N	1.17	0.15	0.080	mg/l	1.13		104	90-110		
Nitrite-N	1.52	0.15	0.080	mg/l	1.52		100	90-110		
Sulfate	10.0	0.50	0.18	mg/l	10.0		100	90-110		M-3
Matrix Spike Analyzed: 07/24/2006 (6G24125-MS1) Source: IPG2024-01										
Nitrate-N	1.19	0.15	0.080	mg/l	1.13	0.10	96	80-120		
Nitrite-N	1.88	0.15	0.080	mg/l	1.52	ND	124	80-120		MI
Matrix Spike Dup Analyzed: 07/24/2006 (6G24125-MSD1) Source: IPG2024-01										
Nitrate-N	1.20	0.15	0.080	mg/l	1.13	0.10	97	80-120	1	20
Nitrite-N	1.87	0.15	0.080	mg/l	1.52	ND	123	80-120	1	20 MI
Batch: 6G25057 Extracted: 07/25/06										
Blank Analyzed: 07/25/2006 (6G25057-BLK1)										
Hardness (as CaCO3)	ND	1.0	1.0	mg/l						
Batch: 6G25065 Extracted: 07/25/06										
Blank Analyzed: 07/25/2006 (6G25065-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: 6G25065 Extracted: 07/25/06											
LCS Analyzed: 07/25/2006 (6G25065-BS1)											
Oil & Grease	18.1	5.0	0.94	mg/l	20.0		90	65-120			M-NR1
LCS Dup Analyzed: 07/25/2006 (6G25065-BSD1)											
Oil & Grease	18.5	5.0	0.94	mg/l	20.0		92	65-120	2	20	
Batch: 6G25069 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25069-DUP1)											
Alkalinity as CaCO3	164	2.0	2.0	mg/l		Source: IPG2024-01 160			2	20	
Reference Analyzed: 07/25/2006 (6G25069-SRM1)											
Alkalinity as CaCO3	234	2.0	2.0	mg/l	231		101	90-110			
Batch: 6G25070 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25070-DUP1)											
Specific Conductance	621	1.0	N/A	umhos/cm		Source: IPG2024-01 620			0	5	
Batch: 6G25072 Extracted: 07/25/06											
Blank Analyzed: 07/26/2006 (6G25072-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/26/2006 (6G25072-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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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: 6G25072 Extracted: 07/25/06											
Duplicate Analyzed: 07/26/2006 (6G25072-DUP1)											
Total Dissolved Solids	341	10	10	mg/l		Source: IPG2024-01 340			0	10	
Batch: 6G25080 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25080-DUP1)											
pH	7.20	NA	N/A	pH Units		Source: IPG2004-01 7.18			0	5	
Duplicate Analyzed: 07/25/2006 (6G25080-DUP2)											
pH	6.21	NA	N/A	pH Units		Source: IPG2046-01 6.21			0	5	
Batch: 6G25081 Extracted: 07/25/06											
Duplicate Analyzed: 07/25/2006 (6G25081-DUP1)											
Density	0.991	NA	N/A	g/cc		Source: IPG1738-01 0.99			0	20	
Batch: 6G25103 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25103-BLK1)											
Total Organic Carbon	0.512	1.0	0.50	mg/l							J
LCS Analyzed: 07/25/2006 (6G25103-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			
Matrix Spike Analyzed: 07/25/2006 (6G25103-MS1)											
Total Organic Carbon	16.4	1.0	0.50	mg/l	5.00	Source: IPG2024-01 11	108	80-120			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 6G25103 Extracted: 07/25/06											
Matrix Spike Dup Analyzed: 07/25/2006 (6G25103-MSD1)						Source: IPG2024-01					
Total Organic Carbon	16.3	1.0	0.50	mg/l	5.00	11	106	80-120	1	20	
Batch: 6G25108 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25108-BLK1)											
Turbidity	0.0400	1.0	0.040	NTU							J
Duplicate Analyzed: 07/25/2006 (6G25108-DUP1)						Source: IPG2026-01					
Turbidity	24.7	1.0	0.040	NTU		24			3	20	
Duplicate Analyzed: 07/25/2006 (6G25108-DUP2)						Source: IPG2048-03					
Turbidity	5.56	1.0	0.040	NTU		5.6			1	20	
Batch: 6G25115 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25115-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 07/25/2006 (6G25115-BS1)											
Ammonia-N (Distilled)	10.9	0.50	0.30	mg/l	10.0		109	80-115			
Matrix Spike Analyzed: 07/25/2006 (6G25115-MS1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25115-MSD1)						Source: IPG1589-01					
Ammonia-N (Distilled)	11.2	0.50	0.30	mg/l	10.0	ND	112	70-120	0	15	

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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
Batch: 6G25117 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25117-BLK1)											
Total Kjeldahl Nitrogen	ND	0.50	0.43	mg/l							
LCS Analyzed: 07/25/2006 (6G25117-BS1)											
Total Kjeldahl Nitrogen	19.9	0.50	0.43	mg/l	20.0		100	85-120			
LCS Dup Analyzed: 07/25/2006 (6G25117-BSD1)											
Total Kjeldahl Nitrogen	19.6	0.50	0.43	mg/l	20.0		98	85-120	2	15	
Matrix Spike Analyzed: 07/25/2006 (6G25117-MS1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120			
Matrix Spike Dup Analyzed: 07/25/2006 (6G25117-MSD1)											
						Source: IPG1800-01					
Total Kjeldahl Nitrogen	10.9	0.50	0.43	mg/l	10.0	0.56	103	85-120	0	15	
Batch: 6G25124 Extracted: 07/25/06											
Blank Analyzed: 07/25/2006 (6G25124-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/25/2006 (6G25124-BS1)											
Total Suspended Solids	929	10	10	mg/l	1000		93	85-115			
Duplicate Analyzed: 07/25/2006 (6G25124-DUP1)											
						Source: IPG2015-01					
Total Suspended Solids	228	10	10	mg/l		210			8	10	

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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-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the 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
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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PLT 2036

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/INPDES R-2A Pond Filtration Pilot Test		Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Field readings: Temp = 84° pH = 7.00									
Sampler: <i>L. Burro</i>		ANALYSIS REQUIRED		Comments		Field readings: Temp = 84° pH = 7.00									
Sample Description	Same Matrix	Container Type	# of Cont.	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:
P-DUP-EFF	W	Poly-1L	1	HNO3	1	X	X								
P-DUP-EFF	W	Poly-1L	1	None	2		X								
P-DUP-EFF	W	VOAs	2	HCl	3A, 3B			X							
P-DUP-EFF	W	1L Amber	2	HCl	4A, 4B				X						
P-DUP-EFF	W	Poly-500 ml	1	H2SO4	5					X					
P-DUP-EFF	W	Poly-500 ml	1	None	6						X				
P-DUP-EFF	W	Poly-500 ml	2	None	7A, 7B							X			
P-DUP-EFF	W	Poly-500 ml	1	H2SO4	8								X		
P-DUP-EFF	W	Poly-1L	1	None	9									X	
Relinquished By: <i>L. Burro</i>		Date/Time: 7/29/06		Received By: <i>[Signature]</i>		Date/Time: 7/29/06		Turn around Time: (check) 24 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 10 Days <input type="checkbox"/> 72 Hours <input type="checkbox"/> Normal <input type="checkbox"/>							
Relinquished By: <i>[Signature]</i>		Date/Time: 7-29-06 1635		Received By: <i>[Signature]</i>		Date/Time: 7/29/06 1635		Perchlorate Only 72 Hours <input type="checkbox"/>							
Relinquished By: <i>[Signature]</i>		Date/Time:		Received By:		Date/Time:		Metals Only 72 Hours <input type="checkbox"/>							
								Sample Integrity (Check) On Ice: <input checked="" type="checkbox"/> <i>52</i>							

11/19/00