

**LABORATORY REPORTS FOR  
PRIMARY SAMPLES**

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF008 ISRA Performance  
Sampling Outfall 008

Sampled: 12/12/09  
Received: 12/14/09  
Revised: 01/06/10 14:41

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**ADDITIONAL  
INFORMATION:**

WATER, 1613B, Dioxins/Furans with Totals

Sample: 1

Some analytes in this sample and the associated method blank (MB) have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

The analytical result for 2,3,7,8-TCDF in this sample is reported from the confirmation data that was analyzed on December 31, 2009 and on December 29, 2009 for the MB. Analytical results are reported with a "CON" flag.

There are no other anomalies associated with this project.

This is a revised report to include the Case Narrative.

**LABORATORY ID**

ISL1627-01

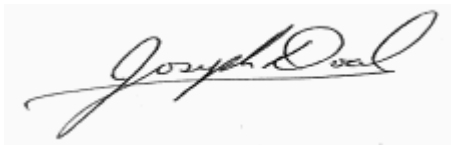
**CLIENT ID**

HZSW0003S001

**MATRIX**

Water

Reviewed By:



**TestAmerica Irvine**

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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
<b>Sample ID: ISL1627-01 (HZSW0003S001 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	9L16116	0.50	2.0	2.4	1	12/16/09	12/21/09	
Lead	EPA 200.8	9L16116	0.20	1.0	ND	1	12/16/09	12/21/09	

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## DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1627-01 (HZSW0003S001 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8-Diss	9L16120	0.50	2.0	2.4	1	12/16/09	12/21/09	
Lead	EPA 200.8-Diss	9L16120	0.20	1.0	ND	1	12/16/09	12/21/09	

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## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1627-01 (HZSW0003S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	9L18149	1.0	10	94	1	12/18/09	12/18/09	

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## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1627-01 (HZSW0003S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	9358229	0.000002	0.00005	7.8e-006	1.01	12/24/09	12/30/09	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	9358229	0.0000013	0.00005	4.8e-006	1.01	12/24/09	12/30/09	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	9358229	0.0000021	0.00005	ND	1.01	12/24/09	12/30/09	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	9358229	0.0000014	0.00005	ND	1.01	12/24/09	12/30/09	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	9358229	0.0000089	0.00005	2.2e-006	1.01	12/24/09	12/30/09	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	9358229	0.0000012	0.00005	1.3e-006	1.01	12/24/09	12/30/09	J, Q, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	9358229	0.0000082	0.00005	1.4e-006	1.01	12/24/09	12/30/09	J, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	9358229	0.0000011	0.00005	1.9e-006	1.01	12/24/09	12/30/09	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	9358229	0.000001	0.00005	7e-007	1.01	12/24/09	12/30/09	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	9358229	0.0000019	0.00005	ND	1.01	12/24/09	12/30/09	
1,2,3,7,8-PeCDF	EPA-5 1613B	9358229	0.0000014	0.00005	ND	1.01	12/24/09	12/30/09	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	9358229	0.0000079	0.00005	1e-006	1.01	12/24/09	12/30/09	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	9358229	0.0000015	0.00005	ND	1.01	12/24/09	12/30/09	
2,3,7,8-TCDD	EPA-5 1613B	9358229	0.000001	0.00001	ND	1.01	12/24/09	12/30/09	
2,3,7,8-TCDF	EPA-5 1613B	9358229	0.000004	0.00001	ND	1.01	12/24/09	12/30/09	CON
OCDD	EPA-5 1613B	9358229	0.0000013	0.0001	5e-005	1.01	12/24/09	12/30/09	J, B
OCDF	EPA-5 1613B	9358229	0.000001	0.0001	1.3e-005	1.01	12/24/09	12/30/09	J, B
Total HpCDD	EPA-5 1613B	9358229	0.000002	0.00005	1.7e-005	1.01	12/24/09	12/30/09	J, B
Total HpCDF	EPA-5 1613B	9358229	0.0000013	0.00005	8.2e-006	1.01	12/24/09	12/30/09	J, B
Total HxCDD	EPA-5 1613B	9358229	0.0000011	0.00005	3.2e-006	1.01	12/24/09	12/30/09	J, Q, B
Total HxCDF	EPA-5 1613B	9358229	0.0000079	0.00005	8.1e-006	1.01	12/24/09	12/30/09	J, Q, B
Total PeCDD	EPA-5 1613B	9358229	0.0000019	0.00005	ND	1.01	12/24/09	12/30/09	
Total PeCDF	EPA-5 1613B	9358229	0.0000014	0.00005	ND	1.01	12/24/09	12/30/09	
Total TCDD	EPA-5 1613B	9358229	0.000001	0.00001	ND	1.01	12/24/09	12/30/09	
Total TCDF	EPA-5 1613B	9358229	0.0000085	0.00001	1.4e-006	1.01	12/24/09	12/30/09	J, Q, B

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	58 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	61 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	57 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	57 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	58 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	64 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	67 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	60 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	65 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	60 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	66 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	65 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	52 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	55 %
Surrogate: 13C-OCDD (17-157%)	58 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	79 %

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## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: HZSW0003S001 (ISL1627-01) - Water</b>					
Filtration	1	12/12/2009 10:43	12/14/2009 04:30	12/14/2009 17:11	12/14/2009 17:12

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L16116 Extracted: 12/16/09</b>											
<b>Blank Analyzed: 12/21/2009 (9L16116-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 12/21/2009 (9L16116-BS1)</b>											
Copper	81.4	2.0	0.50	ug/l	80.0		102	85-115			
Lead	78.0	1.0	0.20	ug/l	80.0		98	85-115			
<b>Matrix Spike Analyzed: 12/21/2009 (9L16116-MS1) Source: ISL1752-01</b>											
Copper	82.5	2.0	0.50	ug/l	80.0	4.77	97	70-130			
Lead	70.7	1.0	0.20	ug/l	80.0	0.218	88	70-130			
<b>Matrix Spike Analyzed: 12/21/2009 (9L16116-MS2) Source: ISL1746-01</b>											
Copper	85.7	2.0	0.50	ug/l	80.0	5.48	100	70-130			
Lead	77.1	1.0	0.20	ug/l	80.0	0.861	95	70-130			
<b>Matrix Spike Dup Analyzed: 12/21/2009 (9L16116-MSD1) Source: ISL1752-01</b>											
Copper	82.2	2.0	0.50	ug/l	80.0	4.77	97	70-130	0	20	
Lead	71.8	1.0	0.20	ug/l	80.0	0.218	89	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
<b>Batch: 9L16120 Extracted: 12/16/09</b>											
<b>Blank Analyzed: 12/21/2009 (9L16120-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 12/21/2009 (9L16120-BS1)</b>											
Copper	82.7	2.0	0.50	ug/l	80.0		103	85-115			
Lead	76.4	1.0	0.20	ug/l	80.0		96	85-115			
<b>Matrix Spike Analyzed: 12/21/2009 (9L16120-MS1) Source: ISL1709-01</b>											
Copper	77.8	2.0	0.50	ug/l	80.0	1.57	95	70-130			
Lead	70.4	1.0	0.20	ug/l	80.0	ND	88	70-130			
<b>Matrix Spike Dup Analyzed: 12/21/2009 (9L16120-MSD1) Source: ISL1709-01</b>											
Copper	77.6	2.0	0.50	ug/l	80.0	1.57	95	70-130	0	20	
Lead	69.9	1.0	0.20	ug/l	80.0	ND	87	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 Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L18149 Extracted: 12/18/09</b>											
<b>Blank Analyzed: 12/18/2009 (9L18149-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 12/18/2009 (9L18149-BS1)</b>											
Total Suspended Solids	992	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 12/18/2009 (9L18149-DUP1)</b>											
Total Suspended Solids	18.0	10	1.0	mg/l		Source: ISL1827-01 18.0			0	10	

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 9358229 Extracted: 12/24/09</b>										
<b>Blank Analyzed: 12/29/2009 (G9L240000229B)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00004	0.00005	0.0000087	ug/L			-			J
1,2,3,4,6,7,8-HpCDF	0.00004	0.00005	0.0000013	ug/L			-			J
1,2,3,4,7,8,9-HpCDF	0.000038	0.00005	0.0000018	ug/L			-			J
1,2,3,4,7,8-HxCDD	0.000032	0.00005	0.0000011	ug/L			-			J
1,2,3,4,7,8-HxCDF	0.000033	0.00005	0.0000001	ug/L			-			J
1,2,3,6,7,8-HxCDD	0.000031	0.00005	0.0000001	ug/L			-			J
1,2,3,6,7,8-HxCDF	0.00003	0.00005	0.0000001	ug/L			-			J
1,2,3,7,8,9-HxCDD	0.000033	0.00005	0.00000095	ug/L			-			J
1,2,3,7,8,9-HxCDF	0.000031	0.00005	0.0000011	ug/L			-			J
1,2,3,7,8-PeCDD	0.000024	0.00005	0.0000015	ug/L			-			J
1,2,3,7,8-PeCDF	0.000021	0.00005	0.0000015	ug/L			-			J
2,3,4,6,7,8-HxCDF	0.000029	0.00005	0.00000092	ug/L			-			J
2,3,4,7,8-PeCDF	0.000025	0.00005	0.0000016	ug/L			-			J
2,3,7,8-TCDD	0.0000027	0.00001	0.00000062	ug/L			-			J, Q
2,3,7,8-TCDF	ND	0.00001	0.0000039	ug/L			-			CON
OCDD	0.000096	0.0001	0.00000097	ug/L			-			J
OCDF	0.000085	0.0001	0.00000083	ug/L			-			J
Total HpCDD	0.000043	0.00005	0.00000087	ug/L			-			J
Total HpCDF	0.000081	0.00005	0.0000013	ug/L			-			J
Total HxCDD	0.000096	0.00005	0.00000095	ug/L			-			J
Total HxCDF	0.00012	0.00005	0.00000092	ug/L			-			J, Q
Total PeCDD	0.000025	0.00005	0.0000015	ug/L			-			J, Q
Total PeCDF	0.000047	0.00005	0.0000015	ug/L			-			J, Q
Total TCDD	0.0000055	0.00001	0.00000062	ug/L			-			J, Q
Total TCDF	0.000012	0.00001	0.00000098	ug/L			-			J, Q
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	1400			ug/L	2000		72	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	1400			ug/L	2000		71	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	1400			ug/L	2000		70	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	1300			ug/L	2000		66	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	1300			ug/L	2000		67	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	1400			ug/L	2000		68	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	1400			ug/L	2000		71	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	1400			ug/L	2000		70	29-147		
Surrogate: 13C-1,2,3,7,8-PeCDD	1100			ug/L	2000		57	25-181		
Surrogate: 13C-1,2,3,7,8-PeCDF	1100			ug/L	2000		57	24-185		

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 9358229 Extracted: 12/24/09</b>										
<b>Blank Analyzed: 12/29/2009 (G9L240000229B)</b>					<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	1500			ug/L	2000		73	28-136		
Surrogate: 13C-2,3,4,7,8-PeCDF	1200			ug/L	2000		59	21-178		
Surrogate: 13C-2,3,7,8-TCDD	1200			ug/L	2000		61	25-164		
Surrogate: 13C-2,3,7,8-TCDF	1200			ug/L	2000		62	24-169		
Surrogate: 13C-OCDD	2800			ug/L	4000		70	17-157		
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00061			ug/L	0.0008		77	35-197		
<b>LCS Analyzed: 12/29/2009 (G9L240000229C)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00093	0.00005	1.1	ug/L	0.001		93	70-140		B
1,2,3,4,6,7,8-HpCDF	0.000924	0.00005	3.3	ug/L	0.001		92	82-122		B
1,2,3,4,7,8,9-HpCDF	0.000939	0.00005	4.9	ug/L	0.001		94	78-138		B
1,2,3,4,7,8-HxCDD	0.000967	0.00005	0.57	ug/L	0.001		97	70-164		B
1,2,3,4,7,8-HxCDF	0.000987	0.00005	0.7	ug/L	0.001		99	72-134		B
1,2,3,6,7,8-HxCDD	0.000955	0.00005	0.51	ug/L	0.001		95	76-134		B
1,2,3,6,7,8-HxCDF	0.000944	0.00005	0.71	ug/L	0.001		94	84-130		B
1,2,3,7,8,9-HxCDD	0.00098	0.00005	0.49	ug/L	0.001		98	64-162		B
1,2,3,7,8,9-HxCDF	0.000942	0.00005	0.76	ug/L	0.001		94	78-130		B
1,2,3,7,8-PeCDD	0.000947	0.00005	2	ug/L	0.001		95	70-142		B
1,2,3,7,8-PeCDF	0.00097	0.00005	1.5	ug/L	0.001		97	80-134		B
2,3,4,6,7,8-HxCDF	0.00096	0.00005	0.63	ug/L	0.001		96	70-156		B
2,3,4,7,8-PeCDF	0.000961	0.00005	1.7	ug/L	0.001		96	68-160		B
2,3,7,8-TCDD	0.000187	0.00001	0.8	ug/L	0.0002		93	67-158		B
2,3,7,8-TCDF	0.000184	0.00001	0.89	ug/L	0.0002		92	75-158		
OCDD	0.00185	0.0001	2	ug/L	0.002		93	78-144		B
OCDF	0.00186	0.0001	1.3	ug/L	0.002		93	63-170		B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00134			ug/L	2000		67	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	2000		70	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0013			ug/L	2000		65	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	2000		65	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00133			ug/L	2000		66	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00135			ug/L	2000		67	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00142			ug/L	2000		71	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00135			ug/L	2000		67	29-147		
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00113			ug/L	2000		57	25-181		
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00115			ug/L	2000		57	24-185		
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00142			ug/L	2000		71	28-136		

### TestAmerica Irvine

Joseph Doak  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling Outfall 008

Report Number: ISL1627

Sampled: 12/12/09  
 Received: 12/14/09

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9358229 Extracted: 12/24/09</b>											
<b>LCS Analyzed: 12/29/2009 (G9L240000229C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00118			ug/L	2000		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00127			ug/L	2000		63	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00131			ug/L	2000		66	24-169			
Surrogate: 13C-OCDD	0.00253			ug/L	4000		63	17-157			
Surrogate: 37C14-2,3,7,8-TCDD	0.000616			ug/L	0.0008		77	35-197			

TestAmerica Irvine

Joseph Doak  
 Project Manager

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Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling Outfall 008

Report Number: ISL1627

Sampled: 12/12/09  
Received: 12/14/09

## DATA QUALIFIERS AND DEFINITIONS

<b>B</b>	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
<b>CON</b>	Confirmation analysis.
<b>H3</b>	Sample was received and analyzed past holding time.
<b>J</b>	Estimated result. Result is less than the reporting limit.
<b>Q</b>	Estimated maximum possible concentration (EMPC).
<b>ND</b>	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
<b>RPD</b>	Relative Percent Difference

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**ISL1627 <Page 14 of 15>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling Outfall 008

Report Number: ISL1627

Sampled: 12/12/09  
Received: 12/14/09

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ISL1627-01

### TestAmerica Irvine

Joseph Doak  
Project Manager



# Chain of Custody Record

ISL 1627

Client Contact		Project Manager: Alex Fischl Tel: 925-627-4627		Site Contact: Shelby Valenzuela		Date:	
MWH		2121 N. California Blvd. Suite 600 Walnut Creek, CA 94596		Lab Contact: Joe Doak		Carrier:	
Phone: 925-627-4500		Analysis Turnaround Time		COC No: 1 of 2 COCs		Job No: 10072275.	
FAX: 925-627-4501		Calendar (C) or Work Days (W)		COPPER, DISSOLVED BY 200.8		SDG No: 6121112	
Project Name: OF008 ISFA Performance Sampling		TAT if different from Below		LEAD, TOTAL BY 200.8		Sample Specific Notes:	
Site: Outfall 008		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		COPPER, TOTAL BY 200.8			
P O #		Sample Date		COPPER, DISSOLVED BY 200.8			
Sample Identification		Sample Time		LEAD, DISSOLVED BY 200.8			
HZSW0003S001		12/14/09		DIOXIN BY 1613		CYN-1, DRG-1	
← HZSW0004S001				Total Suspended Solids by 2540		DRG-1	
← HZSW0005S001						CYN-1	
← HZSW0006S001						CYN-1, DRG-1	
← HZSW0007S001						HVS-1, 2A, 2B, 1, 2C, 2D, 3,	
← HZSW0008S001						HVS-1	
← HZSW0009S001						HVS-1	
← HZSW0010S001						HVS-3, 4	
← HZSW0011S001						HVS-3, 4	
← HZSW0012S001						HVS-2C	
← HZSW0013S001						HVS-2C	
← HZSW0014S001						HVS-2B, 1, 2B-2	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown

Special Instructions/QC Requirements & Comments:  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia

Report Level II Data Package and provide ADD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: *[Signature]* Company: MWH Date/Time: 12-13-09 06:00  
 Received by: *[Signature]* Company: MWH Date/Time: 12-13-09 12:26  
 Relinquished by: *[Signature]* Company: TestAmerica Date/Time: 12/13/09 04:30  
 Received by: *[Signature]* Company: TA-I Date/Time: 12/14/09 04:30

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months

4.5°C

SUBCONTRACT ORDER

TestAmerica Irvine

ISL1627

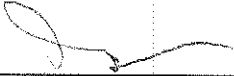
SENDING LABORATORY:


TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak  
Client: MWH-Pasadena/Boeing

RECEIVING LABORATORY:

TestAmerica West Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Phone : (916) 373-5600  
Fax: (916) 372-1059  
Project Location: CA - CALIFORNIA  
Receipt Temperature: 2 °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ISL1627-01 (HZSW00103S001 - Water) <span style="float: right;">Sampled: 12/12/09 10:43</span>						
1613-Dioxin-HR OUT	pg/l	12/23/09	12/19/09 10:43	\$0.00	0%	J flags, 17 congeners, no TEQ, ug/L, sub=TA West Sac
Containers Supplied: 1 L Amber (D)						

  
\_\_\_\_\_  
Released By 12/15/09 17:00  
Date/Time

  
\_\_\_\_\_  
Received By 12/15/09 17:00  
Date/Time

\_\_\_\_\_  
Released By Date/Time

  
\_\_\_\_\_  
Received By 12/16/09 - 0925  
Date/Time Page 1 of 1

CLIENT TAL-IRVINE PM U LOG # 62478

LOT# (QUANTIMS ID) 59160562 QUOTE# 84779 LOCATION W22B

DATE RECEIVED 12/16/09 TIME RECEIVED 0850 Checked (✓)

DELIVERED BY  FEDEX  ON TRAC  CLIENT

GOLDENSTATE  UPS  GO-GETTERS  OTHER

TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) Seal

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) 102104 106047 NA

TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2,2,2 Average 2 Corrected Average 2

**LABORATORY THERMOMETER ID:**

IR UNIT: #4  #5  OTHER \_\_\_\_\_

CV 12/16/09  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY \_\_\_\_\_

LABELS CHECKED BY \_\_\_\_\_

PEER REVIEW \_\_\_\_\_  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)<sup>\*1</sup>  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

CV 12/16/09  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot

ID:

99L160562

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	1																			
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 Performance Sampling  
Outfall 009

Sampled: 12/11/09  
Received: 12/11/09  
Issued: 12/22/09 18:32

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 2°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

ISL1633-01

ISL1633-02

#### CLIENT ID

A1SW0004S001

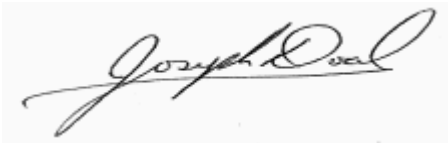
A1SW0005S001

#### MATRIX

Water

Water

Reviewed By:



**TestAmerica Irvine**

Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1633-01 (A1SW0004S001 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1	9L17096	0.00010	0.00020	ND	1	12/17/09	12/17/09	
<b>Sample ID: ISL1633-02 (A1SW0005S001 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1	9L17096	0.00010	0.00020	ND	1	12/17/09	12/17/09	
<b>Sample ID: ISL1633-01 (A1SW0004S001 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8	9L16018	0.10	1.0	<b>0.25</b>	1	12/16/09	12/16/09	J
Copper	EPA 200.8	9L16018	0.50	2.0	<b>5.3</b>	1	12/16/09	12/16/09	
Lead	EPA 200.8	9L16018	0.20	1.0	<b>0.96</b>	1	12/16/09	12/16/09	J
<b>Sample ID: ISL1633-02 (A1SW0005S001 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8	9L16018	0.10	1.0	<b>0.15</b>	1	12/16/09	12/16/09	J
Copper	EPA 200.8	9L16018	0.50	2.0	<b>5.1</b>	1	12/16/09	12/16/09	
Lead	EPA 200.8	9L16018	0.20	1.0	ND	1	12/16/09	12/16/09	

TestAmerica Irvine

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1633-01 (A1SW0004S001 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1-Diss	9L17104	0.00010	0.00020	ND	1	12/17/09	12/17/09	
<b>Sample ID: ISL1633-02 (A1SW0005S001 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1-Diss	9L17104	0.00010	0.00020	ND	1	12/17/09	12/17/09	
<b>Sample ID: ISL1633-01 (A1SW0004S001 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	9L16103	0.10	1.0	<b>0.18</b>	1	12/16/09	12/18/09	J
Copper	EPA 200.8-Diss	9L16103	0.50	2.0	<b>5.3</b>	1	12/16/09	12/17/09	
Lead	EPA 200.8-Diss	9L16103	0.20	1.0	ND	1	12/16/09	12/18/09	
<b>Sample ID: ISL1633-02 (A1SW0005S001 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8-Diss	9L16103	0.10	1.0	<b>0.13</b>	1	12/16/09	12/18/09	J
Copper	EPA 200.8-Diss	9L16103	0.50	2.0	<b>5.2</b>	1	12/16/09	12/17/09	
Lead	EPA 200.8-Diss	9L16103	0.20	1.0	ND	1	12/16/09	12/18/09	

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ISL1633-01 (A1SW0004S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	9L17138	1.0	10	<b>100</b>	1	12/17/09	12/17/09	
<b>Sample ID: ISL1633-02 (A1SW0005S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	9L17138	1.0	10	<b>7.0</b>	1	12/17/09	12/17/09	J

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
Received: 12/11/09

## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: A1SW0004S001 (ISL1633-01) - Water</b>					
Filtration	1	12/11/2009 11:51	12/11/2009 17:40	12/14/2009 17:11	12/14/2009 17:12
<b>Sample ID: A1SW0005S001 (ISL1633-02) - Water</b>					
Filtration	1	12/11/2009 12:07	12/11/2009 17:40	12/14/2009 17:11	12/14/2009 17:12

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**ISL1633 <Page 5 of 12>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
Received: 12/11/09

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L16018 Extracted: 12/16/09</b>											
<b>Blank Analyzed: 12/16/2009 (9L16018-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 12/16/2009 (9L16018-BS1)</b>											
Cadmium	75.9	1.0	0.10	ug/l	80.0		95	85-115			
Copper	75.0	2.0	0.50	ug/l	80.0		94	85-115			
Lead	72.0	1.0	0.20	ug/l	80.0		90	85-115			
<b>Matrix Spike Analyzed: 12/16/2009 (9L16018-MS1)</b>											
						<b>Source: ISL1568-01</b>					
Cadmium	71.6	1.0	0.10	ug/l	80.0	ND	90	70-130			
Copper	72.3	2.0	0.50	ug/l	80.0	0.546	90	70-130			
Lead	70.9	1.0	0.20	ug/l	80.0	ND	89	70-130			
<b>Matrix Spike Dup Analyzed: 12/16/2009 (9L16018-MSD1)</b>											
						<b>Source: ISL1568-01</b>					
Cadmium	72.2	1.0	0.10	ug/l	80.0	ND	90	70-130	1	20	
Copper	73.2	2.0	0.50	ug/l	80.0	0.546	91	70-130	1	20	
Lead	70.9	1.0	0.20	ug/l	80.0	ND	89	70-130	0	20	
<b>Batch: 9L17096 Extracted: 12/17/09</b>											
<b>Blank Analyzed: 12/17/2009 (9L17096-BLK1)</b>											
Mercury	ND	0.00020	0.00010	mg/l							
<b>LCS Analyzed: 12/17/2009 (9L17096-BS1)</b>											
Mercury	0.00793	0.00020	0.00010	mg/l	0.00800		99	85-115			

TestAmerica Irvine

Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L17096 Extracted: 12/17/09</b>											
<b>Matrix Spike Analyzed: 12/17/2009 (9L17096-MS1)</b>						<b>Source: ISL1670-01</b>					
Mercury	0.00778	0.00020	0.00010	mg/l	0.00800	ND	97	70-130			
<b>Matrix Spike Dup Analyzed: 12/17/2009 (9L17096-MSD1)</b>						<b>Source: ISL1670-01</b>					
Mercury	0.00792	0.00020	0.00010	mg/l	0.00800	ND	99	70-130	2	20	

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Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## METHOD BLANK/QC DATA

### DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 9L16103 Extracted: 12/16/09</u></b>											
<b>Blank Analyzed: 12/17/2009-12/18/2009 (9L16103-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 12/17/2009-12/18/2009 (9L16103-BS1)</b>											
Cadmium	79.1	1.0	0.10	ug/l	80.0		99	85-115			
Copper	79.5	2.0	0.50	ug/l	80.0		99	85-115			
Lead	81.0	1.0	0.20	ug/l	80.0		101	85-115			
<b>Matrix Spike Analyzed: 12/17/2009-12/18/2009 (9L16103-MS1) Source: ISL1633-01</b>											
Cadmium	81.3	1.0	0.10	ug/l	80.0	0.182	101	70-130			
Copper	83.2	2.0	0.50	ug/l	80.0	5.35	97	70-130			
Lead	77.0	1.0	0.20	ug/l	80.0	ND	96	70-130			
<b>Matrix Spike Dup Analyzed: 12/17/2009-12/18/2009 (9L16103-MSD1) Source: ISL1633-01</b>											
Cadmium	80.8	1.0	0.10	ug/l	80.0	0.182	101	70-130	1	20	
Copper	82.8	2.0	0.50	ug/l	80.0	5.35	97	70-130	1	20	
Lead	76.5	1.0	0.20	ug/l	80.0	ND	96	70-130	1	20	
<b><u>Batch: 9L17104 Extracted: 12/17/09</u></b>											
<b>Blank Analyzed: 12/17/2009 (9L17104-BLK1)</b>											
Mercury	ND	0.00020	0.00010	mg/l							
<b>LCS Analyzed: 12/17/2009 (9L17104-BS1)</b>											
Mercury	0.00822	0.00020	0.00010	mg/l	0.00800		103	85-115			

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Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## METHOD BLANK/QC DATA

### DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L17104 Extracted: 12/17/09</b>											
<b>Matrix Spike Analyzed: 12/17/2009 (9L17104-MS1)</b>						<b>Source: ISL1531-01</b>					
Mercury	0.00731	0.00020	0.00010	mg/l	0.00800	ND	91	70-130			
<b>Matrix Spike Dup Analyzed: 12/17/2009 (9L17104-MSD1)</b>						<b>Source: ISL1531-01</b>					
Mercury	0.00734	0.00020	0.00010	mg/l	0.00800	ND	92	70-130	0	20	

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Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
 Received: 12/11/09

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9L17138 Extracted: 12/17/09</b>											
<b>Blank Analyzed: 12/17/2009 (9L17138-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 12/17/2009 (9L17138-BS1)</b>											
Total Suspended Solids	984	10	1.0	mg/l	1000		98	85-115			
<b>Duplicate Analyzed: 12/17/2009 (9L17138-DUP1)</b>											
Total Suspended Solids	48.0	10	1.0	mg/l		48.0			0	10	

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Report Number: ISL1633

Sampled: 12/11/09  
Received: 12/11/09

## 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.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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**ISL1633 <Page 11 of 12>**

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Project ID: OF009 Performance Sampling Outfall 009

Report Number: ISL1633

Sampled: 12/11/09  
Received: 12/11/09

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
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
Filtration	Water	N/A	N/A
SM 2540D	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](http://www.testamericainc.com)*

### TestAmerica Irvine

Joseph Doak  
Project Manager



**Chain of Custody Record**

17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

ISL 1638

Project Manager: Alex Fischl  
Tel: 925-627-4627  
Analysis Turnaround Time  
Calendar (C) or Work Days (W) \_\_\_\_\_  
TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont	Filtered, Sample	Cadmium, dissolved by 200.8	Cadmium, total by 200.8	Copper, dissolved by 200.8	Copper, total by 200.8	Lead, dissolved by 200.8	Lead, total by 200.8	Mercury, dissolved by 245.1	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540	Carrier:	Date:	COC No.:	Job No.:	SDG No.:	Sample Specific Notes:
MWB LXS0004S001			Water	Water														12-11-09				
MWB LXS0005S001			Water	Water																		
MWB A1SW0005S001			Water	Water																		
MWB A1SW0005S001			Water	Water																		
	12/11/09	11:51	Water	Water	2		X	X	X	X	X	X	X	X		X						
	12/11/09	12:07	Water	Water	2		X	X	X	X	X	X	X	X		X						
<del>MWB</del>																						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt.

Relinquished by: *Margaret A. McInerney-Barnes*  
Relinquished by: *Alexander Fischl*  
Relinquished by: \_\_\_\_\_

Company: MWH  
Company: Test America  
Company: \_\_\_\_\_

Date/Time: 14:11  
Date/Time: 12-11-09 17:40  
Date/Time: \_\_\_\_\_

Received by: *Alexander Fischl*  
Received by: \_\_\_\_\_  
Received by: \_\_\_\_\_

Company: Test America  
Company: TAF  
Company: \_\_\_\_\_

Date/Time: 12-11-09 14:28  
Date/Time: 11/11/09 17:40  
Date/Time: \_\_\_\_\_

M112 24

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: OF009 Boeing Performance  
Sampling/Outfall 009

Sampled: 01/19/10  
Received: 01/19/10  
Issued: 01/29/10 19:52

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

ITA1533-01  
ITA1533-02

### CLIENT ID

A1SW0004S002  
A1SW0005S002

### MATRIX

Water  
Water

Reviewed By:



**TestAmerica Irvine**

Pat Abe For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
 Received: 01/19/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1533-01 (A1SW0004S002 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10A2021	0.10	0.20	ND	1	01/21/10	01/21/10	
<b>Cadmium</b>	EPA 200.8	10A1872	0.10	1.0	<b>0.18</b>	1	01/20/10	01/22/10	J
<b>Copper</b>	EPA 200.8	10A1872	0.50	2.0	<b>4.4</b>	1	01/20/10	01/22/10	
Lead	EPA 200.8	10A1872	0.20	1.0	ND	1	01/20/10	01/22/10	
<b>Sample ID: ITA1533-02 (A1SW0005S002 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10A2021	0.10	0.20	ND	1	01/21/10	01/21/10	
<b>Cadmium</b>	EPA 200.8	10A1872	0.10	1.0	<b>0.15</b>	1	01/20/10	01/22/10	J
<b>Copper</b>	EPA 200.8	10A1872	0.50	2.0	<b>4.3</b>	1	01/20/10	01/22/10	
<b>Lead</b>	EPA 200.8	10A1872	0.20	1.0	<b>0.34</b>	1	01/20/10	01/22/10	J

TestAmerica Irvine

Pat Abe For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
 Received: 01/19/10

## DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1533-01 (A1SW0004S002 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10A2023	0.10	0.20	ND	1	01/21/10	01/21/10	C
<b>Cadmium</b>	EPA 200.8-Diss	10A1999	0.10	1.0	<b>0.18</b>	1	01/21/10	01/25/10	J
<b>Copper</b>	EPA 200.8-Diss	10A1999	0.50	2.0	<b>4.0</b>	1	01/21/10	01/25/10	
Lead	EPA 200.8-Diss	10A1999	0.20	1.0	ND	1	01/21/10	01/25/10	C
<b>Sample ID: ITA1533-02 (A1SW0005S002 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10A2023	0.10	0.20	ND	1	01/21/10	01/21/10	C
<b>Cadmium</b>	EPA 200.8-Diss	10A1999	0.10	1.0	<b>0.12</b>	1	01/21/10	01/25/10	J
<b>Copper</b>	EPA 200.8-Diss	10A1999	0.50	2.0	<b>4.0</b>	1	01/21/10	01/25/10	
Lead	EPA 200.8-Diss	10A1999	0.20	1.0	ND	1	01/21/10	01/25/10	C

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Pat Abe For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
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Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
Received: 01/19/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1533-01 (A1SW0004S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	4.0	1	01/23/10	01/23/10	J
<b>Sample ID: ITA1533-02 (A1SW0005S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	21	1	01/23/10	01/23/10	

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Project Manager

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Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
Received: 01/19/10

## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: A1SW0004S002 (ITA1533-01) - Water</b>					
Filtration	1	01/19/2010 09:00	01/19/2010 18:55	01/20/2010 16:50	01/20/2010 16:53
<b>Sample ID: A1SW0005S002 (ITA1533-02) - Water</b>					
Filtration	1	01/19/2010 09:29	01/19/2010 18:55	01/20/2010 16:50	01/20/2010 16:53

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**ITA1533 <Page 5 of 12>**

MWH-Walnut Creek  
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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 10A1872 Extracted: 01/20/10</u></b>											
<b>Blank Analyzed: 01/22/2010 (10A1872-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 01/22/2010 (10A1872-BS1)</b>											
Cadmium	79.3	1.0	0.10	ug/l	80.0		99	85-115			
Copper	77.5	2.0	0.50	ug/l	80.0		97	85-115			
Lead	86.8	1.0	0.20	ug/l	80.0		108	85-115			
<b>Matrix Spike Analyzed: 01/22/2010 (10A1872-MS1) Source: ITA1191-06</b>											
Cadmium	80.4	5.0	0.50	ug/l	80.0	2.33	98	70-130			
Copper	90.5	10	2.5	ug/l	80.0	11.9	98	70-130			
Lead	83.4	5.0	1.0	ug/l	80.0	2.33	101	70-130			
<b>Matrix Spike Dup Analyzed: 01/22/2010 (10A1872-MSD1) Source: ITA1191-06</b>											
Cadmium	81.6	5.0	0.50	ug/l	80.0	2.33	99	70-130	1	20	
Copper	91.3	10	2.5	ug/l	80.0	11.9	99	70-130	1	20	
Lead	83.1	5.0	1.0	ug/l	80.0	2.33	101	70-130	0	20	
<b><u>Batch: 10A2021 Extracted: 01/21/10</u></b>											
<b>Blank Analyzed: 01/21/2010 (10A2021-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 01/21/2010 (10A2021-BS1)</b>											
Mercury	8.50	0.20	0.10	ug/l	8.00		106	85-115			

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 Project Manager

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Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2021 Extracted: 01/21/10</b>											
<b>Matrix Spike Analyzed: 01/21/2010 (10A2021-MS1)</b>						<b>Source: ITA1598-01</b>					
Mercury	8.24	0.20	0.10	ug/l	8.00	ND	103	70-130			
<b>Matrix Spike Dup Analyzed: 01/21/2010 (10A2021-MSD1)</b>						<b>Source: ITA1598-01</b>					
Mercury	8.31	0.20	0.10	ug/l	8.00	ND	104	70-130	1	20	

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Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A1999 Extracted: 01/21/10</b>											
<b>Blank Analyzed: 01/25/2010 (10A1999-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 01/25/2010 (10A1999-BS1)</b>											
Cadmium	79.9	1.0	0.10	ug/l	80.0		100	85-115			
Copper	84.4	2.0	0.50	ug/l	80.0		106	85-115			
Lead	88.1	1.0	0.20	ug/l	80.0		110	85-115			
<b>Matrix Spike Analyzed: 01/25/2010 (10A1999-MS1) Source: ITA1358-02</b>											
Cadmium	78.2	1.0	0.10	ug/l	80.0	0.217	98	70-130			
Copper	86.7	2.0	0.50	ug/l	80.0	4.63	103	70-130			
Lead	91.4	1.0	0.20	ug/l	80.0	5.21	108	70-130			
<b>Matrix Spike Dup Analyzed: 01/25/2010 (10A1999-MSD1) Source: ITA1358-02</b>											
Cadmium	79.1	1.0	0.10	ug/l	80.0	0.217	99	70-130	1	20	
Copper	85.7	2.0	0.50	ug/l	80.0	4.63	101	70-130	1	20	
Lead	91.0	1.0	0.20	ug/l	80.0	5.21	107	70-130	1	20	
<b>Batch: 10A2023 Extracted: 01/21/10</b>											
<b>Blank Analyzed: 01/21/2010 (10A2023-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 01/21/2010 (10A2023-BS1)</b>											
Mercury	8.84	0.20	0.10	ug/l	8.00		110	85-115			

TestAmerica Irvine

Pat Abe For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009  
Report Number: ITA1533  
Sampled: 01/19/10  
Received: 01/19/10

## METHOD BLANK/QC DATA

### DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2023 Extracted: 01/21/10</b>											
<b>Matrix Spike Analyzed: 01/21/2010 (10A2023-MS1)</b>						<b>Source: ITA1481-02</b>					
Mercury	8.85	0.20	0.10	ug/l	8.00	ND	111	70-130			
<b>Matrix Spike Dup Analyzed: 01/21/2010 (10A2023-MSD1)</b>						<b>Source: ITA1481-02</b>					
Mercury	8.92	0.20	0.10	ug/l	8.00	ND	111	70-130	1	20	

TestAmerica Irvine

Pat Abe For Joseph Doak  
Project Manager

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ITA1533 <Page 9 of 12>

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009  
 Report Number: ITA1533  
 Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2228 Extracted: 01/23/10</b>											
<b>Blank Analyzed: 01/23/2010 (10A2228-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/23/2010 (10A2228-BS1)</b>											
Total Suspended Solids	988	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 01/23/2010 (10A2228-DUP1)</b>											
Total Suspended Solids	16.0	10	1.0	mg/l		Source: ITA1969-21 16.0			0	10	

**TestAmerica Irvine**

Pat Abe For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10

Received: 01/19/10

## DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- 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.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

**TestAmerica Irvine**

Pat Abe For Joseph Doak  
Project Manager

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**ITA1533 <Page 11 of 12>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: OF009 Boeing Performance Sampling/Outfall 009

Report Number: ITA1533

Sampled: 01/19/10  
Received: 01/19/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
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
Filtration	Water	N/A	N/A
SM 2540D	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](http://www.testamericainc.com)*

### TestAmerica Irvine

Pat Abe For Joseph Doak  
Project Manager

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**Chain of Custody Record**

ITA 1033

TestAmerica Laboratories, Inc.

Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

**Client Contact**  
MWH  
2121 N. California Blvd. Suite 600  
Walnut Creek, CA 94596  
Phone: 925-627-4500  
FAX: 925-627-4501  
Project Name: OF009 Boeing Performance Sampling  
Site: Outfall 009  
PO #

**Project Manager:** Alex Fischl  
Tel: 925-627-4627

**Analysis Turnaround Time**  
Calendar (C) or Work Days (W) W  
TAT if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact:** Shelby Valenzuela  
**Lab Contact:** Joe Doak

**Date:** 1-19-10  
**Carrier:** LAB COURIER

**COC No:** \_\_\_\_\_ of \_\_\_\_\_ COCs  
**Job No.:** 1008007, 112, 1101  
**SDG No.:** \_\_\_\_\_

**Sample Identification**

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
LXSW0001S001				Water	
LXSW0002S001				Water	
ATSW0002S001				Water	
ATSW0003S001				Water	
AR AISW0004S001 500Z	1-19-10	09:00	POLY	Water	2
AR AISW0005S001 300Z	1-19-10	09:29	POLY	Water	2

**Sample Specific Notes:**  
AR  
AR  
AR  
AR  
UG  
DG  
1-19-10  
1-19-10  
1-19-10

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  
 Archive For \_\_\_\_\_ Months

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

**Possible Hazard Identification**  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown

**Special Instructions/QC Requirements & Comments:**  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt

**Relinquished by:** *Alton M. Probst*  
Date/Time: 1/19/10 13:10  
Company: MWH

**Relinquished by:** *Steve Quail*  
Date/Time: 1-19-10 18:55  
Company: Test America

**Relinquished by:** \_\_\_\_\_  
Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_

**Received by:** *Steve Quail*  
Date/Time: 1-19-10 14:18  
Company: MWH

**Received by:** *JA*  
Date/Time: 1/19/10 18:55  
Company: \_\_\_\_\_

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 NASA Performance  
Sampling/Outfall 009  
Sampled: 01/19/10  
Received: 01/19/10  
Issued: 02/15/10 16:20

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 2 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: WATER, 1613B, Dioxins/Furans with Totals

Samples: 1, 2

Some analytes in these samples and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

Revised to report dioxins to Boeing specifications.

### LABORATORY ID

ITA1534-01

ITA1534-02

### CLIENT ID

A2SW0001S001

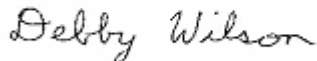
A2SW0002S001

### MATRIX

Water

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling/Outfall 00  
Report Number: ITA1534  
Sampled: 01/19/10  
Received: 01/19/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1534-01 (A2SW0001S001 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10A1872	0.20	1.0	55	1	01/20/10	01/22/10	
<b>Sample ID: ITA1534-02 (A2SW0002S001 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10A1872	0.20	1.0	39	1	01/20/10	01/22/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
Report Number: ITA1534  
Received: 01/19/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1534-01 (A2SW0001S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	<b>890</b>	1	01/23/10	01/23/10	
<b>Sample ID: ITA1534-02 (A2SW0002S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	<b>610</b>	1	01/23/10	01/23/10	

### TestAmerica Irvine

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Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1534-01 (A2SW0001S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	29113	0.00003	0.000053	<b>0.002</b>	1.06	01/29/10	02/02/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	29113	0.000011	0.000053	<b>0.00032</b>	1.06	01/29/10	02/02/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	29113	0.000017	0.000053	<b>0.000054</b>	1.06	01/29/10	02/02/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	29113	0.000012	0.000053	<b>0.000047</b>	1.06	01/29/10	02/02/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	29113	0.00001	0.000053	<b>0.000031</b>	1.06	01/29/10	02/02/10	J
1,2,3,6,7,8-HxCDD	EPA-5 1613B	29113	0.000011	0.000053	<b>0.0001</b>	1.06	01/29/10	02/02/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	29113	0.000009	0.000053	<b>0.000023</b>	1.06	01/29/10	02/02/10	J, Q
1,2,3,7,8,9-HxCDD	EPA-5 1613B	29113	0.0000094	0.000053	<b>0.000086</b>	1.06	01/29/10	02/02/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	29113	0.00001	0.000053	<b>0.000022</b>	1.06	01/29/10	02/02/10	J
1,2,3,7,8-PeCDD	EPA-5 1613B	29113	0.000018	0.000053	<b>0.000025</b>	1.06	01/29/10	02/02/10	J, Q
1,2,3,7,8-PeCDF	EPA-5 1613B	29113	0.00001	0.000053	ND	1.06	01/29/10	02/02/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000091	0.000053	<b>0.000034</b>	1.06	01/29/10	02/02/10	J
2,3,4,7,8-PeCDF	EPA-5 1613B	29113	0.000012	0.000053	ND	1.06	01/29/10	02/02/10	
2,3,7,8-TCDD	EPA-5 1613B	29113	0.0000067	0.000011	ND	1.06	01/29/10	02/02/10	
OCDF	EPA-5 1613B	29113	0.000018	0.00011	<b>0.0015</b>	1.06	01/29/10	02/02/10	
Total HpCDD	EPA-5 1613B	29113	0.00003	0.000053	<b>0.005</b>	1.06	01/29/10	02/02/10	B
Total HpCDF	EPA-5 1613B	29113	0.000011	0.000053	<b>0.001</b>	1.06	01/29/10	02/02/10	
Total PeCDF	EPA-5 1613B	29113	0.0000071	0.000053	<b>0.000033</b>	1.06	01/29/10	02/02/10	J, Q
Total TCDD	EPA-5 1613B	29113	0.0000067	0.000011	ND	1.06	01/29/10	02/02/10	
Total TCDF	EPA-5 1613B	29113	0.0000048	0.000011	ND	1.06	01/29/10	02/02/10	
2,3,7,8-TCDF	EPA-5 1613B	29113	0.0000048	0.000011	ND	1.06	01/29/10	02/02/10	
OCDD	EPA-5 1613B	29113	0.000068	0.00011	<b>0.034</b>	1.06	01/29/10	02/02/10	B
Total HxCDD	EPA-5 1613B	29113	0.0000094	0.000053	<b>0.00042</b>	1.06	01/29/10	02/02/10	J, Q
Total HxCDF	EPA-5 1613B	29113	0.000009	0.000053	<b>0.00025</b>	1.06	01/29/10	02/02/10	J, Q
Total PeCDD	EPA-5 1613B	29113	0.000018	0.000053	<b>0.000025</b>	1.06	01/29/10	02/02/10	J, Q

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	42 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	47 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	42 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	38 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	38 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	41 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	41 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	39 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	36 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	35 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	42 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	33 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	35 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	34 %
Surrogate: 13C-OCDD (17-157%)	42 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	87 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1534-02 (A2SW0002S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	29113	0.000019	0.00005	<b>0.00083</b>	0.99	01/29/10	02/02/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	29113	0.0000075	0.00005	<b>0.00013</b>	0.99	01/29/10	02/02/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	29113	0.000013	0.00005	ND	0.99	01/29/10	02/02/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	29113	0.0000084	0.00005	<b>0.000017</b>	0.99	01/29/10	02/02/10	J
1,2,3,4,7,8-HxCDF	EPA-5 1613B	29113	0.0000041	0.00005	<b>0.0000088</b>	0.99	01/29/10	02/02/10	J, Q
1,2,3,6,7,8-HxCDD	EPA-5 1613B	29113	0.0000073	0.00005	<b>0.000037</b>	0.99	01/29/10	02/02/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000037	0.00005	<b>0.0000051</b>	0.99	01/29/10	02/02/10	J
1,2,3,7,8,9-HxCDD	EPA-5 1613B	29113	0.0000062	0.00005	<b>0.00003</b>	0.99	01/29/10	02/02/10	J
1,2,3,7,8,9-HxCDF	EPA-5 1613B	29113	0.0000038	0.00005	ND	0.99	01/29/10	02/02/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	29113	0.000011	0.00005	<b>0.0000075</b>	0.99	01/29/10	02/02/10	J, Q
1,2,3,7,8-PeCDF	EPA-5 1613B	29113	0.0000063	0.00005	ND	0.99	01/29/10	02/02/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000036	0.00005	<b>0.0000086</b>	0.99	01/29/10	02/02/10	J, Q
2,3,4,7,8-PeCDF	EPA-5 1613B	29113	0.0000076	0.00005	ND	0.99	01/29/10	02/02/10	
2,3,7,8-TCDD	EPA-5 1613B	29113	0.0000038	0.0000099	ND	0.99	01/29/10	02/02/10	
OCDF	EPA-5 1613B	29113	0.000011	0.000099	<b>0.00055</b>	0.99	01/29/10	02/02/10	
Total HpCDD	EPA-5 1613B	29113	0.000019	0.00005	<b>0.0023</b>	0.99	01/29/10	02/02/10	B
Total HpCDF	EPA-5 1613B	29113	0.0000075	0.00005	<b>0.00037</b>	0.99	01/29/10	02/02/10	J
Total PeCDF	EPA-5 1613B	29113	0.0000042	0.00005	<b>0.0000066</b>	0.99	01/29/10	02/02/10	J, Q
Total TCDD	EPA-5 1613B	29113	0.0000038	0.0000099	ND	0.99	01/29/10	02/02/10	
Total TCDF	EPA-5 1613B	29113	0.0000027	0.0000099	ND	0.99	01/29/10	02/02/10	
2,3,7,8-TCDF	EPA-5 1613B	29113	0.0000027	0.0000099	ND	0.99	01/29/10	02/02/10	
OCDD	EPA-5 1613B	29113	0.000049	0.000099	<b>0.016</b>	0.99	01/29/10	02/02/10	B
Total HxCDD	EPA-5 1613B	29113	0.0000062	0.00005	<b>0.0002</b>	0.99	01/29/10	02/02/10	J
Total HxCDF	EPA-5 1613B	29113	0.0000036	0.00005	<b>0.000099</b>	0.99	01/29/10	02/02/10	J, Q
Total PeCDD	EPA-5 1613B	29113	0.000011	0.00005	<b>0.0000075</b>	0.99	01/29/10	02/02/10	J, Q

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	62 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	70 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	58 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	48 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	54 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	62 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	58 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	57 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	50 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	52 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	60 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	51 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	49 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	47 %
Surrogate: 13C-OCDD (17-157%)	61 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	90 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A1872 Extracted: 01/20/10</b>											
<b>Blank Analyzed: 01/22/2010 (10A1872-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 01/22/2010 (10A1872-BS1)</b>											
Lead	86.8	1.0	0.20	ug/l	80.0		108	85-115			
<b>Matrix Spike Analyzed: 01/22/2010 (10A1872-MS1)</b>											
						<b>Source: ITA1191-06</b>					
Lead	83.4	5.0	1.0	ug/l	80.0	2.33	101	70-130			
<b>Matrix Spike Dup Analyzed: 01/22/2010 (10A1872-MSD1)</b>											
						<b>Source: ITA1191-06</b>					
Lead	83.1	5.0	1.0	ug/l	80.0	2.33	101	70-130	0.3	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2228 Extracted: 01/23/10</b>											
<b>Blank Analyzed: 01/23/2010 (10A2228-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/23/2010 (10A2228-BS1)</b>											
Total Suspended Solids	988	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 01/23/2010 (10A2228-DUP1)</b>											
Total Suspended Solids	16.0	10	1.0	mg/l		Source: ITA1969-21 16.0			0	10	

TestAmerica Irvine

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 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>Blank Analyzed: 02/01/2010 (G0A290000113B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	9.1e-006	0.00005	0.000068	ug/L				-			J
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.000056	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.000098	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.000052	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.000038	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.000046	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.000033	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.000039	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.000035	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.00001	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.000004	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000003	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.000048	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.000031	ug/L				-			
OCDF	ND	0.0001	0.00001	ug/L				-			
Total HpCDD	1.5e-005	0.00005	0.000068	ug/L				-			J
Total HpCDF	ND	0.00005	0.000056	ug/L				-			
Total PeCDF	ND	0.00005	0.000004	ug/L				-			
Total TCDD	ND	0.00001	0.000031	ug/L				-			
Total TCDF	ND	0.00001	0.000031	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.000031	ug/L				-			
OCDD	1.7e-005	0.0001	0.000011	ug/L				-			J, Q
Total HxCDD	ND	0.00005	0.000039	ug/L				-			
Total HxCDF	ND	0.00005	0.000003	ug/L				-			
Total PeCDD	ND	0.00005	0.00001	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0014			ug/L	0.002		71	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0017			ug/L	0.002		86	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0015			ug/L	0.002		73	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0012			ug/L	0.002		61	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		64	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0015			ug/L	0.002		76	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		72	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		74	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		62	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0013			ug/L	0.002		64	24-185			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>Blank Analyzed: 02/01/2010 (G0A290000113B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0015			ug/L	0.002		77	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0013			ug/L	0.002		63	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		59	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0011			ug/L	0.002		55	24-169			
Surrogate: 13C-OCDD	0.0026			ug/L	0.004		65	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/02/2010 (G0A290000113C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00114	0.00005	0.000012	ug/L	0.001		114	70-140			
1,2,3,4,6,7,8-HpCDF	0.0012	0.00005	0.0000084	ug/L	0.001		120	82-122			
1,2,3,4,7,8,9-HpCDF	0.00121	0.00005	0.000013	ug/L	0.001		121	78-138			
1,2,3,4,7,8-HxCDD	0.000963	0.00005	0.0000069	ug/L	0.001		96	70-164			
1,2,3,4,7,8-HxCDF	0.00116	0.00005	0.0000079	ug/L	0.001		116	72-134			
1,2,3,6,7,8-HxCDD	0.00123	0.00005	0.0000061	ug/L	0.001		123	76-134			
1,2,3,6,7,8-HxCDF	0.00124	0.00005	0.000007	ug/L	0.001		124	84-130			
1,2,3,7,8,9-HxCDD	0.00108	0.00005	0.0000052	ug/L	0.001		108	64-162			
1,2,3,7,8,9-HxCDF	0.00113	0.00005	0.0000067	ug/L	0.001		113	78-130			
1,2,3,7,8-PeCDD	0.0011	0.00005	0.00001	ug/L	0.001		110	70-142			
1,2,3,7,8-PeCDF	0.00119	0.00005	0.0000069	ug/L	0.001		119	80-134			
2,3,4,6,7,8-HxCDF	0.00117	0.00005	0.0000064	ug/L	0.001		117	70-156			
2,3,4,7,8-PeCDF	0.00117	0.00005	0.0000083	ug/L	0.001		117	68-160			
2,3,7,8-TCDD	0.000185	0.00001	0.0000034	ug/L	0.0002		92	67-158			
OCDF	0.00239	0.0001	0.000014	ug/L	0.002		120	63-170			
2,3,7,8-TCDF	0.000238	0.00001	0.0000026	ug/L	0.0002		119	75-158			
OCDD	0.00221	0.0001	0.000031	ug/L	0.002		111	78-144			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00133			ug/L	0.002		66	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0015			ug/L	0.002		75	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00132			ug/L	0.002		66	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00116			ug/L	0.002		58	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00116			ug/L	0.002		58	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00126			ug/L	0.002		63	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00123			ug/L	0.002		62	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00134			ug/L	0.002		67	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00117			ug/L	0.002		59	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00112			ug/L	0.002		56	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00135			ug/L	0.002		68	28-136			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
 Report Number: ITA1534  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>LCS Analyzed: 02/02/2010 (G0A290000113C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00115			ug/L	0.002		58	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00102			ug/L	0.002		51	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.000957			ug/L	0.002		48	24-169			
Surrogate: 13C-OCDD	0.00252			ug/L	0.004		63	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000608			ug/L	0.0008		76	35-197			
<b>LCS Dup Analyzed: 02/02/2010 (G0A290000113L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.000013	ug/L	0.001		106	70-140	7.2	50	
1,2,3,4,6,7,8-HpCDF	0.0011	0.00005	0.00001	ug/L	0.001		110	82-122	9.3	50	
1,2,3,4,7,8,9-HpCDF	0.00113	0.00005	0.000017	ug/L	0.001		113	78-138	7.1	50	
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000068	ug/L	0.001		104	70-164	8.1	50	
1,2,3,4,7,8-HxCDF	0.00113	0.00005	0.0000062	ug/L	0.001		113	72-134	2.8	50	
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.000005	ug/L	0.001		102	76-134	18	50	
1,2,3,6,7,8-HxCDF	0.00116	0.00005	0.0000052	ug/L	0.001		116	84-130	6.6	50	
1,2,3,7,8,9-HxCDD	0.000956	0.00005	0.0000045	ug/L	0.001		96	64-162	12	50	
1,2,3,7,8,9-HxCDF	0.00109	0.00005	0.0000058	ug/L	0.001		109	78-130	3.1	50	
1,2,3,7,8-PeCDD	0.00102	0.00005	0.000011	ug/L	0.001		102	70-142	7.9	50	
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000065	ug/L	0.001		110	80-134	8	50	
2,3,4,6,7,8-HxCDF	0.0011	0.00005	0.0000051	ug/L	0.001		110	70-156	6.5	50	
2,3,4,7,8-PeCDF	0.00111	0.00005	0.0000079	ug/L	0.001		111	68-160	5.4	50	
2,3,7,8-TCDD	0.000181	0.00001	0.0000038	ug/L	0.0002		91	67-158	1.8	50	
OCDF	0.00224	0.0001	0.000017	ug/L	0.002		112	63-170	6.5	50	
2,3,7,8-TCDF	0.000214	0.00001	0.0000034	ug/L	0.0002		107	75-158	11	50	
OCDD	0.0021	0.0001	0.00003	ug/L	0.002		105	78-144	5.4	50	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00135			ug/L	0.002		68	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00157			ug/L	0.002		79	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00135			ug/L	0.002		67	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00118			ug/L	0.002		59	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00118			ug/L	0.002		59	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00136			ug/L	0.002		68	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00131			ug/L	0.002		66	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00115			ug/L	0.002		57	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00115			ug/L	0.002		58	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00137			ug/L	0.002		69	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00115			ug/L	0.002		58	21-178			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
Report Number: ITA1534  
Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>LCS Dup Analyzed: 02/02/2010 (G0A290000113L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.00108			ug/L	0.002		54	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00101			ug/L	0.002		50	24-169			
Surrogate: 13C-OCDD	0.00251			ug/L	0.004		63	17-157			
Surrogate: 37C14-2,3,7,8-TCDD	0.000658			ug/L	0.0008		82	35-197			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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ITA1534 <Page 11 of 13>

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
Report Number: ITA1534  
Received: 01/19/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

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**ITA1534 <Page 12 of 13>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling/Outfall 00 Sampled: 01/19/10  
Report Number: ITA1534  
Received: 01/19/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITA1534-01, ITA1534-02

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**Irvine**

17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

**Chain of Custody Record**

ITA1534

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Alex Fischl		Site Contact: Shelby Valenzuela			Date: 1-19-10			COC No:				
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak			Carrier: LAB COURIER			__1__ of __1__ COCs				
2121 N. California Blvd. Suite 600				Analysis Turnaround Time Calendar (C) or Work Days (W) <u>W</u>  TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Job No.				
Walnut Creek, CA 94596										1008067.				
Phone: 925-627-4500										SDG No.				
FAX: 925-627-4501										Sample Specific Notes:				
Project Name: OF009 NASA Performance Sampling										A2LF-3 <u>AG</u>				
Site: Outfall 009										A2LF-3 <u>UG</u>				
P O #				A2LF-1 <u>e</u>										
A2LF-1 <u>e</u>				Filtered Sample Lead, dissolved by 200.8 Lead, total by 200.8 Dioxin by 1613 Total Suspended Solids by 2540										
Sample Identification	Sample Date	Sample Time	Sample Type				Matrix	# of Cont.						
A2SW0001S001	1/19/10	1329	Amber poly				Water	3	X	X	X	X		
A2SW0002S001	"	1331	Amber poly				Water	3	X	X	X	X		
<del>A2SW0003S001</del>							Water				X	X		
<del>A2SW0004S001</del>							Water				X	X		
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4= <u>HNO3</u> ; 5=NaOH; 6= Other _____							<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>														
<b>Special Instructions/QC Requirements &amp; Comments:</b> Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access Bill MWH-Arcadia Report Level II Data Package and provide EDD all dissolved metals samples are to be filtered within 24 hours of receipt														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			
	MWH	1/19/10 14:18		Test America	1-19-10 14:18		Test America	1-19-10 14:18		Test America	1-19-10 14:18			
	Test America	1-19-10 18:55		Test America	1-19-10 18:55		Test America	1-19-10 18:55		Test America	1-19-10 18:55			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			
	MWH			Test America			Test America			Test America				

L.F.  
1-20-10  
10:35

2.25

**Chain of Custody Record**

ITA1534

**Client Contact**  
MWH  
2121 N. California Blvd. Suite 600  
Walnut Creek, CA 94596  
Phone: 925-627-4500  
FAX: 925-627-4501  
Project Name: OF009 NASA Performance Sampling  
Site: Outfall 009  
PO #

**Project Manager:** Alex Fischl  
Tel: 925-627-4627

**Analysis Turnaround Time**  
Calendar (C) or Work Days (W) W  
TAT if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact:** Shelby Valenzuela  
**Lab Contact:** Joe Doak

**Date:** 1-19-10  
**Carrier:** LAB COOPER

**COC No.:** \_\_\_\_\_ of \_\_\_\_\_ COCs  
**Job No.:** 1008067  
**SDG No.:** \_\_\_\_\_

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Lead, dissolved by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
A2SW0001S001	1/19/10	1329	Amber poly	Water	3	X	X	X			A6
A2SW0002S001	"	1331	Amber poly	Water	3	X	X	X			UG
A2SW0003S001			Water	Water				X			e
A2SW0004S001			Water	Water				X			e

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other \_\_\_\_\_

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt.

**Relinquished by:** *Alexander Fischl*  
**Relinquished by:** *Shelby Valenzuela*  
**Relinquished by:** *Shelby Valenzuela*

**Company:** MWH  
**Company:** Test America  
**Company:** Test America

**Date/Time:** 1/19/10 14:18  
**Date/Time:** 1-19-10 18:55  
**Date/Time:** 1-19-10 18:55

**Received by:** *Shelby Valenzuela*  
**Received by:** *Shelby Valenzuela*  
**Received by:** *Shelby Valenzuela*

**Company:** Test America  
**Company:** Test America  
**Company:** Test America

**Date/Time:** 1-19-10 / 14:18  
**Date/Time:** 1/19/10 18:55  
**Date/Time:** 1/19/10 18:55

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 Boeing Performance  
Sampling  
Sampled: 01/19/10  
Received: 01/19/10  
Issued: 02/22/10 09:32

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 3 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: WATER, 1613B, Dioxins/Furans with Totals

Samples: 1, 2

Several analytes in these samples and the associated method blank for this extraction batch have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

The continuing calibration standard analyzed February 1, 2010 at 19:45 has a percent difference value for 1,2,3,4,6,7,8-HpCDF and for the internal standard 13C-1,2,3,6,7,8-HxCDD that is above the method recommended criteria from the initial calibration curve. Because these samples do not have detected concentrations of 1,2,3,4,6,7,8-HpCDF above the reporting limit and they have a percent recovery within acceptance limits for 13C-1,2,3,6,7,8-HxCDD there is no adverse impact on the data.

Revised to report dioxins according to Boeing specifications.

Amended to add Metals to sample LXSW001S001

### LABORATORY ID

ITA1617-01  
ITA1617-02

### CLIENT ID

LXSW0001S001  
LXSW0002S001

### MATRIX

Water  
Water

Reviewed By:



TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1617-01 (LXSW0001S001 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B2583	0.10	0.20	ND	1	02/21/10	02/21/10	H-1
<b>Cadmium</b>	EPA 200.8	10B2218	0.20	2.0	<b>0.26</b>	2	02/18/10	02/18/10	RL1, J
<b>Copper</b>	EPA 200.8	10B2218	1.0	4.0	<b>7.5</b>	2	02/18/10	02/18/10	
<b>Lead</b>	EPA 200.8	10B2218	0.40	2.0	<b>16</b>	2	02/18/10	02/18/10	
<b>Sample ID: ITA1617-02 (LXSW0002S001 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B0245	0.10	0.20	ND	1	02/02/10	02/02/10	
<b>Cadmium</b>	EPA 200.8	10B0247	0.50	5.0	<b>0.91</b>	5	02/02/10	02/03/10	RL1, J
<b>Copper</b>	EPA 200.8	10B0247	2.5	10	<b>12</b>	5	02/02/10	02/03/10	
<b>Lead</b>	EPA 200.8	10B0247	1.0	5.0	<b>27</b>	5	02/02/10	02/03/10	

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1617

Sampled: 01/19/10  
Received: 01/19/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1617-01 (LXSW0001S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	39	1	01/23/10	01/23/10	
<b>Sample ID: ITA1617-02 (LXSW0002S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2228	1.0	10	190	1	01/23/10	01/23/10	

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1617-01 (LXSW0001S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	29113	0.000013	0.000059	1.9e-005	1.17	01/29/10	02/02/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	29113	0.0000079	0.000059	6.1e-006	1.17	01/29/10	02/02/10	J, Q
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	29113	0.000014	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	29113	0.00001	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	29113	0.0000064	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	29113	0.0000085	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000052	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	29113	0.0000074	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	29113	0.0000065	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	29113	0.000013	0.000059	ND	1.17	01/29/10	02/02/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	29113	0.0000068	0.000059	ND	1.17	01/29/10	02/02/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000048	0.000059	ND	1.17	01/29/10	02/02/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	29113	0.0000084	0.000059	ND	1.17	01/29/10	02/02/10	
OCDD	EPA-5 1613B	29113	0.000024	0.00012	0.00014	1.17	01/29/10	02/02/10	B
OCDF	EPA-5 1613B	29113	0.000023	0.00012	1.5e-005	1.17	01/29/10	02/02/10	J
Total HpCDD	EPA-5 1613B	29113	0.000013	0.000059	4.1e-005	1.17	01/29/10	02/02/10	J, B
Total PeCDD	EPA-5 1613B	29113	0.000013	0.000059	8.3e-006	1.17	01/29/10	02/02/10	J, Q
Total PeCDF	EPA-5 1613B	29113	0.0000052	0.000059	ND	1.17	01/29/10	02/02/10	
Total TCDD	EPA-5 1613B	29113	0.0000054	0.000012	ND	1.17	01/29/10	02/02/10	
2,3,7,8-TCDD	EPA-5 1613B	29113	0.0000054	0.000012	ND	1.17	01/29/10	02/02/10	
2,3,7,8-TCDF	EPA-5 1613B	29113	0.0000047	0.000012	ND	1.17	01/29/10	02/02/10	
Total HpCDF	EPA-5 1613B	29113	0.0000079	0.000059	6.1e-006	1.17	01/29/10	02/02/10	J, Q
Total HxCDD	EPA-5 1613B	29113	0.0000074	0.000059	ND	1.17	01/29/10	02/02/10	
Total HxCDF	EPA-5 1613B	29113	0.0000048	0.000059	ND	1.17	01/29/10	02/02/10	
Total TCDF	EPA-5 1613B	29113	0.0000047	0.000012	ND	1.17	01/29/10	02/02/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 47 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 57 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 47 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 40 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 44 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 55 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 51 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 45 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 41 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 42 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 55 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 41 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 39 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 36 %  
 Surrogate: 13C-OCDD (17-157%) 44 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 85 %

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1617-02 (LXSW0002S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	29113	0.000012	0.000053	8e-005	1.05	01/29/10	02/02/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	29113	0.0000065	0.000053	3.6e-005	1.05	01/29/10	02/02/10	J
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	29113	0.000012	0.000053	2.4e-005	1.05	01/29/10	02/02/10	J
1,2,3,4,7,8-HxCDD	EPA-5 1613B	29113	0.0000078	0.000053	1.8e-005	1.05	01/29/10	02/02/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	29113	0.0000048	0.000053	2.1e-005	1.05	01/29/10	02/02/10	J
1,2,3,6,7,8-HxCDD	EPA-5 1613B	29113	0.0000069	0.000053	2.1e-005	1.05	01/29/10	02/02/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000043	0.000053	1.6e-005	1.05	01/29/10	02/02/10	J
1,2,3,7,8,9-HxCDD	EPA-5 1613B	29113	0.0000058	0.000053	1.5e-005	1.05	01/29/10	02/02/10	J, Q
1,2,3,7,8,9-HxCDF	EPA-5 1613B	29113	0.0000052	0.000053	1.9e-005	1.05	01/29/10	02/02/10	J
1,2,3,7,8-PeCDD	EPA-5 1613B	29113	0.000012	0.000053	1.3e-005	1.05	01/29/10	02/02/10	J
1,2,3,7,8-PeCDF	EPA-5 1613B	29113	0.0000071	0.000053	8.3e-006	1.05	01/29/10	02/02/10	J, Q
2,3,4,6,7,8-HxCDF	EPA-5 1613B	29113	0.0000042	0.000053	2e-005	1.05	01/29/10	02/02/10	J
2,3,4,7,8-PeCDF	EPA-5 1613B	29113	0.0000091	0.000053	1.4e-005	1.05	01/29/10	02/02/10	J
OCDD	EPA-5 1613B	29113	0.000023	0.00011	0.00096	1.05	01/29/10	02/02/10	B
OCDF	EPA-5 1613B	29113	0.000014	0.00011	0.0001	1.05	01/29/10	02/02/10	
Total HpCDD	EPA-5 1613B	29113	0.000012	0.000053	0.0002	1.05	01/29/10	02/02/10	B
Total PeCDD	EPA-5 1613B	29113	0.000012	0.000053	1.3e-005	1.05	01/29/10	02/02/10	J
Total PeCDF	EPA-5 1613B	29113	0.0000057	0.000053	2.3e-005	1.05	01/29/10	02/02/10	J, Q
Total TCDD	EPA-5 1613B	29113	0.0000041	0.000011	ND	1.05	01/29/10	02/02/10	
2,3,7,8-TCDD	EPA-5 1613B	29113	0.0000041	0.000011	ND	1.05	01/29/10	02/02/10	
2,3,7,8-TCDF	EPA-5 1613B	29113	0.0000041	0.000011	ND	1.05	01/29/10	02/02/10	
Total HpCDF	EPA-5 1613B	29113	0.0000065	0.000053	9e-005	1.05	01/29/10	02/02/10	J
Total HxCDD	EPA-5 1613B	29113	0.0000058	0.000053	5.4e-005	1.05	01/29/10	02/02/10	J, Q
Total HxCDF	EPA-5 1613B	29113	0.0000042	0.000053	7.9e-005	1.05	01/29/10	02/02/10	J, Q
Total TCDF	EPA-5 1613B	29113	0.0000041	0.000011	ND	1.05	01/29/10	02/02/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 56 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 69 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 56 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 47 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 54 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 63 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 58 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 54 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 47 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 47 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 62 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 44 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 47 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 43 %  
 Surrogate: 13C-OCDD (17-157%) 50 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 76 %

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B0245 Extracted: 02/02/10</b>											
<b>Blank Analyzed: 02/02/2010 (10B0245-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 02/02/2010 (10B0245-BS1)</b>											
Mercury	8.20	0.20	0.10	ug/l	8.00		102	85-115			
<b>Matrix Spike Analyzed: 02/02/2010 (10B0245-MS1)</b>											
						<b>Source: ITB0084-02</b>					
Mercury	7.31	0.20	0.10	ug/l	8.00	ND	91	70-130			
<b>Matrix Spike Dup Analyzed: 02/02/2010 (10B0245-MSD1)</b>											
						<b>Source: ITB0084-02</b>					
Mercury	7.46	0.20	0.10	ug/l	8.00	ND	93	70-130	2	20	
<b>Batch: 10B0247 Extracted: 02/02/10</b>											
<b>Blank Analyzed: 02/03/2010 (10B0247-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/03/2010 (10B0247-BS1)</b>											
Cadmium	91.0	1.0	0.10	ug/l	80.0		114	85-115			
Copper	82.1	2.0	0.50	ug/l	80.0		103	85-115			
Lead	79.9	1.0	0.20	ug/l	80.0		100	85-115			
<b>Matrix Spike Analyzed: 02/03/2010 (10B0247-MS1)</b>											
						<b>Source: ITA1617-02</b>					
Cadmium	86.3	5.0	0.50	ug/l	80.0	0.907	107	70-130			
Copper	89.9	10	2.5	ug/l	80.0	11.5	98	70-130			
Lead	104	5.0	1.0	ug/l	80.0	27.3	96	70-130			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617  
 Sampled: 01/19/10  
 Received: 01/19/10

## 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: 10B0247 Extracted: 02/02/10**

**Matrix Spike Dup Analyzed: 02/03/2010 (10B0247-MSD1)**

Source: ITA1617-02

Cadmium	86.6	5.0	0.50	ug/l	80.0	0.907	107	70-130	0.3	20	
Copper	90.8	10	2.5	ug/l	80.0	11.5	99	70-130	1	20	
Lead	108	5.0	1.0	ug/l	80.0	27.3	100	70-130	4	20	

**Batch: 10B2218 Extracted: 02/18/10**

**Blank Analyzed: 02/18/2010 (10B2218-BLK1)**

Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							

**LCS Analyzed: 02/18/2010 (10B2218-BS1)**

Cadmium	80.0	1.0	0.10	ug/l	80.0		100	85-115			
Copper	81.8	2.0	0.50	ug/l	80.0		102	85-115			
Lead	80.2	1.0	0.20	ug/l	80.0		100	85-115			

**Matrix Spike Analyzed: 02/18/2010 (10B2218-MS1)**

Source: ITB1924-07

Cadmium	85.4	2.0	0.20	ug/l	80.0	9.82	94	70-130			
Copper	1080	4.0	1.0	ug/l	80.0	1020	74	70-130			
Lead	550	2.0	0.40	ug/l	80.0	483	84	70-130			

**Matrix Spike Dup Analyzed: 02/18/2010 (10B2218-MSD1)**

Source: ITB1924-07

Cadmium	84.9	2.0	0.20	ug/l	80.0	9.82	94	70-130	0.5	20	
Copper	1090	4.0	1.0	ug/l	80.0	1020	87	70-130	1	20	
Lead	561	2.0	0.40	ug/l	80.0	483	97	70-130	2	20	

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B2583 Extracted: 02/21/10</b>											
<b>Blank Analyzed: 02/21/2010 (10B2583-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 02/21/2010 (10B2583-BS1)</b>											
Mercury	8.37	0.20	0.10	ug/l	8.00		105	85-115			
<b>Matrix Spike Analyzed: 02/21/2010 (10B2583-MS1)</b>											
						<b>Source: ITA1617-01</b>					
Mercury	8.42	0.20	0.10	ug/l	8.00	ND	105	70-130			
<b>Matrix Spike Dup Analyzed: 02/21/2010 (10B2583-MSD1)</b>											
						<b>Source: ITA1617-01</b>					
Mercury	8.44	0.20	0.10	ug/l	8.00	ND	105	70-130	0.2	20	

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2228 Extracted: 01/23/10</b>											
<b>Blank Analyzed: 01/23/2010 (10A2228-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/23/2010 (10A2228-BS1)</b>											
Total Suspended Solids	988	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 01/23/2010 (10A2228-DUP1)</b>											
Total Suspended Solids	16.0	10	1.0	mg/l		Source: ITA1969-21 16.0			0	10	

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 Project Manager

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 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
---------	--------	-----------------	-----	-------	-------------	---------------	-----------	-------------	---------	-----------	-----------------

**Batch: 29113 Extracted: 01/29/10**

**Blank Analyzed: 02/01/2010 (G0A290000113B)**

**Source:**

1,2,3,4,6,7,8-HpCDD	9.1e-006	0.00005	0.0000068	ug/L				-			J
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.0000056	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000098	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000052	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.0000038	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000046	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.0000033	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000039	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000035	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.00001	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.000004	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000003	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.0000048	ug/L				-			
OCDD	1.7e-005	0.0001	0.000011	ug/L				-			J, Q
OCDF	ND	0.0001	0.00001	ug/L				-			
Total HpCDD	1.5e-005	0.00005	0.0000068	ug/L				-			J
Total PeCDD	ND	0.00005	0.00001	ug/L				-			
Total PeCDF	ND	0.00005	0.000004	ug/L				-			
Total TCDD	ND	0.00001	0.0000031	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.0000031	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000031	ug/L				-			
Total HpCDF	ND	0.00005	0.0000056	ug/L				-			
Total HxCDD	ND	0.00005	0.0000039	ug/L				-			
Total HxCDF	ND	0.00005	0.000003	ug/L				-			
Total TCDF	ND	0.00001	0.0000031	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	1400			ug/L	0.002		71	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	1700			ug/L	0.002		86	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	1500			ug/L	0.002		73	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	1200			ug/L	0.002		61	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	1300			ug/L	0.002		64	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	1500			ug/L	0.002		76	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	1400			ug/L	0.002		72	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	1500			ug/L	0.002		74	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	1200			ug/L	0.002		62	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	1300			ug/L	0.002		64	24-185			

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617  
 Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>Blank Analyzed: 02/01/2010 (G0A290000113B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	1500			ug/L	0.002		77	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	1300			ug/L	0.002		63	21-178			
Surrogate: 13C-2,3,7,8-TCDD	1200			ug/L	0.002		59	25-164			
Surrogate: 13C-2,3,7,8-TCDF	1100			ug/L	0.002		55	24-169			
Surrogate: 13C-OCDD	2600			ug/L	0.004		65	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/02/2010 (G0A290000113C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00114	0.00005	0.000012	ug/L	0.001		114	70-140			
1,2,3,4,6,7,8-HpCDF	0.0012	0.00005	0.0000084	ug/L	0.001		120	82-122			
1,2,3,4,7,8,9-HpCDF	0.00121	0.00005	0.000013	ug/L	0.001		121	78-138			
1,2,3,4,7,8-HxCDD	0.000963	0.00005	0.0000069	ug/L	0.001		96	70-164			
1,2,3,4,7,8-HxCDF	0.00116	0.00005	0.0000079	ug/L	0.001		116	72-134			
1,2,3,6,7,8-HxCDD	0.00123	0.00005	0.0000061	ug/L	0.001		123	76-134			
1,2,3,6,7,8-HxCDF	0.00124	0.00005	0.000007	ug/L	0.001		124	84-130			
1,2,3,7,8,9-HxCDD	0.00108	0.00005	0.0000052	ug/L	0.001		108	64-162			
1,2,3,7,8,9-HxCDF	0.00113	0.00005	0.0000067	ug/L	0.001		113	78-130			
1,2,3,7,8-PeCDD	0.0011	0.00005	0.00001	ug/L	0.001		110	70-142			
1,2,3,7,8-PeCDF	0.00119	0.00005	0.0000069	ug/L	0.001		119	80-134			
2,3,4,6,7,8-HxCDF	0.00117	0.00005	0.0000064	ug/L	0.001		117	70-156			
2,3,4,7,8-PeCDF	0.00117	0.00005	0.0000083	ug/L	0.001		117	68-160			
OCDD	0.00221	0.0001	0.000031	ug/L	0.002		111	78-144			
OCDF	0.00239	0.0001	0.000014	ug/L	0.002		120	63-170			
2,3,7,8-TCDD	0.000185	0.00001	0.0000034	ug/L	0.0002		92	67-158			
2,3,7,8-TCDF	0.000238	0.00001	0.0000026	ug/L	0.0002		119	75-158			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00133			ug/L	0.002		66	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0015			ug/L	0.002		75	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00132			ug/L	0.002		66	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00116			ug/L	0.002		58	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00116			ug/L	0.002		58	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00126			ug/L	0.002		63	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00123			ug/L	0.002		62	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00134			ug/L	0.002		67	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00117			ug/L	0.002		59	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00112			ug/L	0.002		56	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00135			ug/L	0.002		68	28-136			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617  
 Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>LCS Analyzed: 02/02/2010 (G0A290000113C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00115			ug/L	0.002		58	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00102			ug/L	0.002		51	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.000957			ug/L	0.002		48	24-169			
Surrogate: 13C-OCDD	0.00252			ug/L	0.004		63	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000608			ug/L	0.0008		76	35-197			
<b>LCS Dup Analyzed: 02/02/2010 (G0A290000113L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.000013	ug/L	0.001		106	70-140	7.2	50	
1,2,3,4,6,7,8-HpCDF	0.0011	0.00005	0.00001	ug/L	0.001		110	82-122	9.3	50	
1,2,3,4,7,8,9-HpCDF	0.00113	0.00005	0.000017	ug/L	0.001		113	78-138	7.1	50	
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000068	ug/L	0.001		104	70-164	8.1	50	
1,2,3,4,7,8-HxCDF	0.00113	0.00005	0.0000062	ug/L	0.001		113	72-134	2.8	50	
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.000005	ug/L	0.001		102	76-134	18	50	
1,2,3,6,7,8-HxCDF	0.00116	0.00005	0.0000052	ug/L	0.001		116	84-130	6.6	50	
1,2,3,7,8,9-HxCDD	0.000956	0.00005	0.0000045	ug/L	0.001		96	64-162	12	50	
1,2,3,7,8,9-HxCDF	0.00109	0.00005	0.0000058	ug/L	0.001		109	78-130	3.1	50	
1,2,3,7,8-PeCDD	0.00102	0.00005	0.000011	ug/L	0.001		102	70-142	7.9	50	
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000065	ug/L	0.001		110	80-134	8	50	
2,3,4,6,7,8-HxCDF	0.0011	0.00005	0.0000051	ug/L	0.001		110	70-156	6.5	50	
2,3,4,7,8-PeCDF	0.00111	0.00005	0.0000079	ug/L	0.001		111	68-160	5.4	50	
OCDD	0.0021	0.0001	0.00003	ug/L	0.002		105	78-144	5.4	50	
OCDF	0.00224	0.0001	0.000017	ug/L	0.002		112	63-170	6.5	50	
2,3,7,8-TCDD	0.000181	0.00001	0.0000038	ug/L	0.0002		91	67-158	1.8	50	
2,3,7,8-TCDF	0.000214	0.00001	0.0000034	ug/L	0.0002		107	75-158	11	50	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00135			ug/L	0.002		68	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00157			ug/L	0.002		79	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00135			ug/L	0.002		67	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00118			ug/L	0.002		59	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00118			ug/L	0.002		59	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00136			ug/L	0.002		68	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00131			ug/L	0.002		66	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00115			ug/L	0.002		57	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00115			ug/L	0.002		58	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00137			ug/L	0.002		69	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00115			ug/L	0.002		58	21-178			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1617

Sampled: 01/19/10  
 Received: 01/19/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 29113 Extracted: 01/29/10</b>											
<b>LCS Dup Analyzed: 02/02/2010 (G0A290000113L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.00108			ug/L	0.002		54	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00101			ug/L	0.002		50	24-169			
Surrogate: 13C-OCDD	0.00251			ug/L	0.004		63	17-157			
Surrogate: 37C14-2,3,7,8-TCDD	0.000658			ug/L	0.0008		82	35-197			

**TestAmerica Irvine**

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 Project Manager

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Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1617

Sampled: 01/19/10  
Received: 01/19/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- H-1** Sample analysis performed past the method-specified holding time per client's approval.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- RL1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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**ITA1617 <Page 14 of 15>**

MWH-Walnut Creek  
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Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1617

Sampled: 01/19/10  
Received: 01/19/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
Preservation	Water	N/A	N/A
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITA1617-01, ITA1617-02

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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**Irvine**

17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
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**Chain of Custody Record**

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

27A1617

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 1-19-10</b>		<b>COC No:</b>												
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier: LAB COURIER		___1___ of ___1___ COCs												
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>		Filtered Sample Cadmium, dissolved by 200.8 Cadmium, total by 200.8 Copper, dissolved by 200.8 Copper, total by 200.8 Lead, dissolved by 200.8 Lead, total by 200.8 Mercury, dissolved by 245.1 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540				Job No.												
Walnut Creek, CA 94596		Calendar (C) or Work Days (W) <u>W</u>						1008067.												
Phone: 925-627-4500		TAT if different from Below _____						SDG No.												
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks																		
Project Name: OF009 Boeing Performance Sampling		<input type="checkbox"/> 1 week																		
Site: Outfall 009		<input type="checkbox"/> 2 days																		
P O #		<input type="checkbox"/> 1 day						Sample Specific Notes:												
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Cadmium, dissolved by 200.8	Cadmium, total by 200.8	Copper, dissolved by 200.8	Copper, total by 200.8	Lead, dissolved by 200.8	Lead, total by 200.8	Mercury, dissolved by 245.1	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540				
LXSW0001S001	1-19-10	13:42	AMBER, POLY	Water	3										X	X		CM-3	US	
LXSW0002S001	1-19-10	13:45	AMBER, POLY	Water	3										X	X		CM-3	DN	
<del>A1SW0002S001</del>				Water							X	X				X		CM-8		
<del>A1SW0003S001</del>				Water							X	X				X		CM-8		
<del>A1SW0004S001</del>				Water		X	X	X	X	X	X	X	X	X	X	X			CM-9	
<del>A1SW0005S001</del>				Water		X	X	X	X	X	X	X	X	X	X	X			CM-9	
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____																				
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>														
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
<b>Special Instructions/QC Requirements &amp; Comments:</b>																				
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access																				
Bill MWH-Arcadia																				
Report Level II Data Package and provide EDD																				
all dissolved metals samples are to be filtered within 24 hours of receipt																				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:															
	MWH	1/19/10 14:18		Test America	1-19-10 14:18															
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:															
	Test America	1-19-10 18:55		TAI	1/19/10 18:55															
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:															

0.0  
01/21/10  
6:10

2x2x

27A1617

**Chain of Custody Record**

Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 1-19-10</b>		<b>COC No:</b>			
<b>Analysis Turnaround Time</b>		Calendar (C) or Work Days (W) <u>W</u>		Lab Contact: <b>Joe Doak</b>		Carrier: <b>LAB COURIER</b>		Job No. <b>1008067</b>			
TAT if different from Below		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Total Suspended Solids by 2540 Dioxin by 1613 Mercury, total by 245.1 Mercury, dissolved by 245.1 Lead, total by 200.8 Lead, dissolved by 200.8 Copper, total by 200.8 Copper, dissolved by 200.8 Cadmium, total by 200.8 Cadmium, dissolved by 200.8		Filtered Sample Cadmium, total by 200.8 Cadmium, dissolved by 200.8 Lead, total by 200.8 Lead, dissolved by 200.8 Copper, total by 200.8 Copper, dissolved by 200.8 Mercury, total by 245.1 Mercury, dissolved by 245.1 Dioxin by 1613 Total Suspended Solids by 2540		SDG No.			
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	CM-3	CM-3	CM-8	CM-8	CM-9	CM-9
LXSW0001S001	1-19-10	13:42	AMBER POLY	Water	3	X	X	X	X	X	X
LXSW0002S001	1-19-10	13:45	AMBER POLY	Water	3	X	X	X	X	X	X
ATSW0002S001				Water		X	X	X	X	X	X
ATSW0003S001				Water		X	X	X	X	X	X
ATSW0004S001				Water		X	X	X	X	X	X
ATSW0005S001				Water		X	X	X	X	X	X

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other  
 Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt

Relinquished by: <i>[Signature]</i>	Company: MWH	Date/Time: 1/19/10 14:18	Received by: <i>[Signature]</i>	Company: Test America	Date/Time: 1-19-10 14:18
Relinquished by: <i>[Signature]</i>	Company: Test America	Date/Time: 1-19-10 18:55	Received by: <i>[Signature]</i>	Company: TAI	Date/Time: 1/19/10 18:55
Relinquished by: <i>[Signature]</i>	Company:	Date/Time:	Received by:	Company:	Date/Time:

2421

0.0110  
0.01210

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

## ADDITIONAL ANALYSIS REQUEST FORM

Date: 2/10/10 Project Manager: Heather Clark  
 Client: MWH-Pasadena / Boeing Contact: Bronwyn Kelly  
 Project: OFO09 Performance Sampling  
 Date Sampled: 1/19/10 Date Received: 1/19/10

### Request Via:

Telephone  COC Form  Fax  E-mail  Other

### Status:

In Progress  Completed  Received Today  Received Yesterday  
 On Hold  Other

### Turn Around Time:

Same Day  24HR  48HR  3Day  5Day  Standard  No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
<u>HA1017-01</u>	<u>LXSW00015001</u>		<u>Pb, Cu, Cd by 200.8</u> <u>Hg by 245.1</u> <u>Preservation - total metals</u>

*\* Please add to same work order*

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 Boeing Performance  
Sampling  
Sampled: 01/20/10  
Received: 01/20/10  
Issued: 02/22/10 12:33

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 3 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

### ADDITIONAL INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in the Method Blank and in samples 1 and 2 have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

The MB has results for TCDF and TCDD totals that are above the lower calibration limit (LCL) that is also present in the samples. There was insufficient sample to perform a re-extraction for this sample. The data is reported from the original extraction, and the MB results have been taken into account when evaluating the sample results.

### LABORATORY ID

ITA1671-01  
ITA1671-02  
ITA1671-03  
ITA1671-04

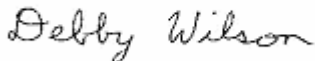
### CLIENT ID

A1SW0002S002  
A1SW0003S001  
A1SW0006S001  
A1SW0007S001

### MATRIX

Water  
Water  
Water  
Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager



MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1671

Sampled: 01/20/10  
Received: 01/20/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1671-01 (A1SW0002S002 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10A2171	0.20	1.0	8.5	1	01/22/10	01/28/10	
<b>Sample ID: ITA1671-02 (A1SW0003S001 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10A2171	0.20	1.0	2.5	1	01/22/10	01/28/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1671-01 (A1SW0002S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2356	1.0	10	82	1	01/25/10	01/25/10	
<b>Sample ID: ITA1671-02 (A1SW0003S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2492	1.0	10	26	1	01/26/10	01/26/10	
<b>Sample ID: ITA1671-03 (A1SW0006S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2492	1.0	10	19	1	01/26/10	01/26/10	
<b>Sample ID: ITA1671-04 (A1SW0007S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2492	1.0	10	9.0	1	01/26/10	01/26/10	Ja

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1671-03 (A1SW0006S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	41281	0.000013	0.000048	2e-005	0.96	02/10/10	02/11/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	41281	0.00000035	0.000048	5.7e-007	0.96	02/10/10	02/11/10	J
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	41281	0.00000074	0.000048	9.2e-006	0.96	02/10/10	02/11/10	J, B
2,3,7,8-TCDD	EPA-5 1613B	41281	0.000000940	0.0000096	ND	0.96	02/10/10	02/11/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	41281	0.0000011	0.000048	1.4e-006	0.96	02/10/10	02/11/10	J
2,3,7,8-TCDF	EPA-5 1613B	41281	0.000000580	0.0000096	7.9e-007	0.96	02/10/10	02/11/10	J, Q
1,2,3,4,7,8-HxCDD	EPA-5 1613B	41281	0.0000015	0.000048	ND	0.96	02/10/10	02/11/10	
Total HpCDD	EPA-5 1613B	41281	0.0000013	0.000048	5.8e-005	0.96	02/10/10	02/11/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	41281	0.00000058	0.000048	2.2e-006	0.96	02/10/10	02/11/10	J
Total HpCDF	EPA-5 1613B	41281	0.00000074	0.000048	2.1e-005	0.96	02/10/10	02/11/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	41281	0.0000014	0.000048	1.2e-006	0.96	02/10/10	02/11/10	J, Q
Total HxCDD	EPA-5 1613B	41281	0.0000013	0.000048	4.3e-006	0.96	02/10/10	02/11/10	J, Q
1,2,3,6,7,8-HxCDF	EPA-5 1613B	41281	0.00000055	0.000048	1.5e-006	0.96	02/10/10	02/11/10	J, B
Total TCDD	EPA-5 1613B	41281	0.000000940	0.0000096	1.9e-006	0.96	02/10/10	02/11/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	41281	0.0000013	0.000048	1.5e-006	0.96	02/10/10	02/11/10	J, Q
Total TCDF	EPA-5 1613B	41281	0.000000580	0.0000096	1.1e-006	0.96	02/10/10	02/11/10	J, Q, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	41281	0.00000062	0.000048	1.2e-006	0.96	02/10/10	02/11/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	41281	0.0000013	0.000048	ND	0.96	02/10/10	02/11/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	41281	0.00000031	0.000048	7.7e-007	0.96	02/10/10	02/11/10	J, Q
2,3,4,6,7,8-HxCDF	EPA-5 1613B	41281	0.00000005	0.000048	1e-006	0.96	02/10/10	02/11/10	J, Q, B
OCDD	EPA-5 1613B	41281	0.000001	0.000096	0.00014	0.96	02/10/10	02/11/10	J, B
OCDF	EPA-5 1613B	41281	0.00000063	0.000096	2.3e-005	0.96	02/10/10	02/11/10	J
Total HxCDF	EPA-5 1613B	41281	0.00000005	0.000048	9.1e-006	0.96	02/10/10	02/11/10	J, Q, B
Total PeCDD	EPA-5 1613B	41281	0.0000013	0.000048	ND	0.96	02/10/10	02/11/10	
Total PeCDF	EPA-5 1613B	41281	0.00000002	0.000048	1.9e-006	0.96	02/10/10	02/11/10	J, Q, B

Surrogate: 13C-2,3,7,8-TCDF (24-169%) 75 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 89 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 83 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 88 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 77 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 84 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 84 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 85 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 85 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 82 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 82 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 75 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 89 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 71 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 77 %  
 Surrogate: 13C-OCDD (17-157%) 74 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1671-03RE1 (A1SW0006S001 - Water) - cont.</b>									
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	41281	0.0000018	0.0000096	ND	0.97	02/10/10	02/17/10	
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					90 %				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					0 %				*

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1671-04 (A1SW0007S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	41281	0.0000015	0.00005	1.2e-005	0.99	02/10/10	02/11/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	41281	0.0000031	0.00005	ND	0.99	02/10/10	02/11/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	41281	0.0000078	0.00005	7.4e-006	0.99	02/10/10	02/11/10	J, B
2,3,7,8-TCDD	EPA-5 1613B	41281	0.0000014	0.0000099	ND	0.99	02/10/10	02/11/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	41281	0.0000011	0.00005	1.1e-006	0.99	02/10/10	02/11/10	J, Q
2,3,7,8-TCDF	EPA-5 1613B	41281	0.0000017	0.0000099	ND	0.99	02/10/10	02/11/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	41281	0.0000013	0.00005	ND	0.99	02/10/10	02/11/10	
Total HpCDD	EPA-5 1613B	41281	0.0000015	0.00005	2.8e-005	0.99	02/10/10	02/11/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	41281	0.0000058	0.00005	9.9e-007	0.99	02/10/10	02/11/10	J, Q
Total HpCDF	EPA-5 1613B	41281	0.0000078	0.00005	1.7e-005	0.99	02/10/10	02/11/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	41281	0.0000012	0.00005	ND	0.99	02/10/10	02/11/10	
Total HxCDD	EPA-5 1613B	41281	0.0000011	0.00005	2.1e-006	0.99	02/10/10	02/11/10	J, Q
1,2,3,6,7,8-HxCDF	EPA-5 1613B	41281	0.0000055	0.00005	8.9e-007	0.99	02/10/10	02/11/10	J, B
Total TCDD	EPA-5 1613B	41281	0.0000014	0.0000099	9.4e-006	0.99	02/10/10	02/11/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	41281	0.0000011	0.00005	8.5e-007	0.99	02/10/10	02/11/10	J, Q
Total TCDF	EPA-5 1613B	41281	0.0000017	0.0000099	4.1e-005	0.99	02/10/10	02/11/10	Q, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	41281	0.0000006	0.00005	9.6e-007	0.99	02/10/10	02/11/10	J
1,2,3,7,8-PeCDD	EPA-5 1613B	41281	0.0000016	0.00005	ND	0.99	02/10/10	02/11/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	41281	0.0000028	0.00005	8.7e-007	0.99	02/10/10	02/11/10	J, Q
2,3,4,6,7,8-HxCDF	EPA-5 1613B	41281	0.0000005	0.00005	6.6e-007	0.99	02/10/10	02/11/10	J, Q, B
OCDD	EPA-5 1613B	41281	0.000001	0.000099	0.0001	0.99	02/10/10	02/11/10	B
OCDF	EPA-5 1613B	41281	0.0000035	0.000099	1.7e-005	0.99	02/10/10	02/11/10	J
Total HxCDF	EPA-5 1613B	41281	0.0000005	0.00005	6.3e-006	0.99	02/10/10	02/11/10	J, Q, B
Total PeCDD	EPA-5 1613B	41281	0.0000016	0.00005	ND	0.99	02/10/10	02/11/10	
Total PeCDF	EPA-5 1613B	41281	0.0000003	0.00005	1.1e-006	0.99	02/10/10	02/11/10	J, Q, B

Surrogate: 13C-2,3,7,8-TCDF (24-169%) 71 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 89 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 82 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 85 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 77 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 80 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 80 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 80 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 80 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 80 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 80 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 73 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 83 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 71 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 74 %  
 Surrogate: 13C-OCDD (17-157%) 77 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2171 Extracted: 01/22/10</b>											
<b>Blank Analyzed: 01/27/2010 (10A2171-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 01/27/2010 (10A2171-BS1)</b>											
Lead	79.1	1.0	0.20	ug/l	80.0		99	85-115			
<b>Matrix Spike Analyzed: 01/27/2010 (10A2171-MS1)</b>											
Lead	81.6	1.0	0.20	ug/l	80.0	0.392	101	70-130			
<b>Matrix Spike Analyzed: 01/27/2010 (10A2171-MS2)</b>											
Lead	81.2	1.0	0.20	ug/l	80.0	1.80	99	70-130			
<b>Matrix Spike Dup Analyzed: 01/27/2010 (10A2171-MSD1)</b>											
Lead	86.9	1.0	0.20	ug/l	80.0	0.392	108	70-130	6	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 10A2356 Extracted: 01/25/10</u></b>											
<b>Blank Analyzed: 01/25/2010 (10A2356-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/25/2010 (10A2356-BS1)</b>											
Total Suspended Solids	971	10	1.0	mg/l	1000		97	85-115			
<b>Duplicate Analyzed: 01/25/2010 (10A2356-DUP1)</b>											
Total Suspended Solids	27.0	10	1.0	mg/l		Source: ITA2083-01 28.0			4	10	
<b><u>Batch: 10A2492 Extracted: 01/26/10</u></b>											
<b>Blank Analyzed: 01/26/2010 (10A2492-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/26/2010 (10A2492-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 01/26/2010 (10A2492-DUP1)</b>											
Total Suspended Solids	11.0	10	1.0	mg/l		Source: ITA2173-01 10.0			10	10	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 41281 Extracted: 02/10/10</b>											
<b>Blank Analyzed: 02/11/2010 (G0B100000281B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	2.6e-006	0.00005	0.0000014	ug/L				-			J
2,3,4,7,8-PeCDF	ND	0.00005	0.00000042	ug/L				-			
1,2,3,4,6,7,8-HpCDF	2e-006	0.00005	0.00000079	ug/L				-			J
2,3,7,8-TCDD	ND	0.00001	0.0000026	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000012	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000066	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000013	ug/L				-			
Total HpCDD	5e-006	0.00005	0.0000014	ug/L				-			J
1,2,3,4,7,8-HxCDF	ND	0.00005	0.0000004	ug/L				-			
Total HpCDF	4.1e-006	0.00005	0.00000079	ug/L				-			J
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000012	ug/L				-			
Total HxCDD	ND	0.00005	0.0000011	ug/L				-			
1,2,3,6,7,8-HxCDF	8.1e-007	0.00005	0.00000037	ug/L				-			J, Q
Total TCDD	3.8e-005	0.00005	0.0000026	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000011	ug/L				-			
Total TCDF	0.00019	0.00001	0.0000066	ug/L				-			Q
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000004	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.0000014	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.00000038	ug/L				-			
2,3,4,6,7,8-HxCDF	4.5e-007	0.00005	0.00000035	ug/L				-			J, Q
OCDD	2e-005	0.0001	0.00000095	ug/L				-			J
OCDF	ND	0.0001	0.000022	ug/L				-			
Total HxCDF	1.7e-006	0.00005	0.00000035	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000014	ug/L				-			
Total PeCDF	ND	0.00005	0.00000002	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		66	24-169			
Surrogate: 37C14-2,3,7,8-TCDD	0.0007			ug/L	0.0008		87	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		84	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		88	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		79	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0018			ug/L	0.002		90	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.002		85	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0016			ug/L	0.002		81	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002		82	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0016			ug/L	0.002		81	29-147			

#### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 41281 Extracted: 02/10/10</b>											
<b>Blank Analyzed: 02/11/2010 (G0B100000281B)</b>						<b>Source:</b>					
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0016			ug/L	0.002		80	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0014			ug/L	0.002		71	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0018			ug/L	0.002		88	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0014			ug/L	0.002		72	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0014			ug/L	0.002		69	25-164			
Surrogate: 13C-OCDD	0.003			ug/L	0.004		76	17-157			
<b>LCS Analyzed: 02/11/2010 (G0B100000281C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00104	0.00005	0.0000022	ug/L	0.001		104	70-140			B
2,3,4,7,8-PeCDF	0.00105	0.00005	0.0000024	ug/L	0.001		105	68-160			
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.0000031	ug/L	0.001		106	82-122			B
2,3,7,8-TCDD	0.000198	0.00001	0.0000012	ug/L	0.0002		99	67-158			
1,2,3,4,7,8,9-HpCDF	0.00106	0.00005	0.0000043	ug/L	0.001		106	78-138			
2,3,7,8-TCDF	0.000205	0.00001	0.0000011	ug/L	0.0002		102	75-158			
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	70-164			
1,2,3,4,7,8-HxCDF	0.00107	0.00005	0.0000026	ug/L	0.001		107	72-134			
1,2,3,6,7,8-HxCDD	0.00101	0.00005	0.0000012	ug/L	0.001		101	76-134			
1,2,3,6,7,8-HxCDF	0.00106	0.00005	0.0000024	ug/L	0.001		106	84-130			B
1,2,3,7,8,9-HxCDD	0.00101	0.00005	0.0000011	ug/L	0.001		101	64-162			
1,2,3,7,8,9-HxCDF	0.00106	0.00005	0.0000027	ug/L	0.001		106	78-130			
1,2,3,7,8-PeCDD	0.000961	0.00005	0.0000019	ug/L	0.001		96	70-142			
1,2,3,7,8-PeCDF	0.00107	0.00005	0.0000022	ug/L	0.001		107	80-134			
2,3,4,6,7,8-HxCDF	0.00106	0.00005	0.0000023	ug/L	0.001		106	70-156			B
OCDD	0.00205	0.0001	0.000002	ug/L	0.002		102	78-144			B
OCDF	0.002	0.0001	0.0000012	ug/L	0.002		100	63-170			
Surrogate: 13C-2,3,7,8-TCDF	0.00127			ug/L	0.002		63	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000686			ug/L	0.0008		86	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00169			ug/L	0.002		85	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00169			ug/L	0.002		85	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00158			ug/L	0.002		79	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00174			ug/L	0.002		87	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00168			ug/L	0.002		84	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00161			ug/L	0.002		80	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00162			ug/L	0.002		81	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00156			ug/L	0.002		78	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00158			ug/L	0.002		79	25-181			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITA1671

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 41281 Extracted: 02/10/10</b>											
<b>LCS Analyzed: 02/11/2010 (G0B100000281C)</b>											
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0014			ug/L	0.002		70	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0017			ug/L	0.002		85	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00138			ug/L	0.002		69	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00133			ug/L	0.002		67	25-164			
Surrogate: 13C-OCDD	0.00308			ug/L	0.004		77	17-157			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1671

Sampled: 01/20/10  
Received: 01/20/10

## DATA QUALIFIERS AND DEFINITIONS

- \* Surrogate recovery is outside stated control limits.
- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**ITA1671 <Page 12 of 13>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITA1671

Sampled: 01/20/10  
Received: 01/20/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITA1671-03, ITA1671-03RE1, ITA1671-04

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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*ITA 1671 Add In*

## ADDITIONAL ANALYSIS REQUEST FORM

Date: 2-5-10

Project Manager: Debby Wilson

Client: MWH

Contact: Krissi McKenna

Project: ITA 1671

Date Sampled: 1/20/10

Date Received: 1/20/10

### Request Via:

Telephone  COC Form  Fax  E-mail  Other

### Status:

In Progress  Completed  Received Today  Received Yesterday  
 On Hold  Other

### Turn Around Time:

Same Day  24HR  48HR  3Day  5Day  Standard  No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
-------------------	--------------------	--------------------	----------------------

<u>ITA 1671-03</u>	<u>AJSW00065001</u>	<u>1613 dioxin</u>	
<u>-04</u>	<u>75001</u>	<u>↓</u>	

Add in same work order

**Irvine**  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

ITA 1671

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 1/20/10</b>		<b>COC No:</b>	
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier: LAB COURIER		___ of ___ COCs	
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>		Filtered Sample Cadmium, dissolved by 200.8 Cadmium, total by 200.8 Copper, dissolved by 200.8 Copper, total by 200.8 Lead, dissolved by 200.8 Lead, total by 200.8 Mercury, dissolved by 245.1 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540 PH				Job No.	
Walnut Creek, CA 94596		Calendar ( C ) or Work Days ( W ) <u>W</u>						1008067	
Phone: 925-627-4500		TAT if different from Below _____						SDG No.	
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: OF009 Boeing Performance Sampling									
Site: Outfall 009								Sample Specific Notes:	
P O #									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b>	<b>Matrix</b>	<b># of Cont.</b>			
<del>AR L XSW0001S001</del>				Water				X	X
<del>AR L XSW0002S001</del>				Water				X	X
AR A1SW0002S001 5002		1/20/10	12:30	POLY	Water	3		X	X
A1SW0003S001		1/20/10	12:36	POLY	Water	2		X	X
<del>AR A1SW0004S001</del>				Water			X	X	X
<del>AR A1SW0005S001</del>				Water			X	X	X
A1SW0006S001		1/20/10	12:20	POLY AMBER	WATER	3	X	X	X
A1SW0007S001		1/20/10	12:22	POLY AMBER	WATER	3	X	X	X
<del>AR</del>									
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
<b>Special Instructions/QC Requirements &amp; Comments:</b>									
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access									
Bill MWH-Arcadia									
Report Level II Data Package and provide EDD									
all dissolved metals samples are to be filtered within 24 hours of receipt									
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>Alexander Fischl</i>	MWH	1/20/10 14:22	<i>Joe Doak</i>	Test America	1-20-10 16:40				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				
<i>Joe Doak</i>	TA	1-20-10 20:30	<i>Joe Doak</i>	TAI	1/20/10 20:30				
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:				

12:45  
 01/20/10  
 NJ

**Chain of Custody Record**

IT# 1671

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 1/20/10</b>		<b>COC No:</b>	
<b>Tel: 925-627-4627</b>		<b>Analysis Turnaround Time</b>		<b>Lab Contact: Joe Doak</b>		<b>Carrier: LAB COURIER</b>		<b>Job No. 1008067</b>	
Calendar (C) or Work Days (W) <u>W</u>		TAT if different from below		Total Suspended Solids by 2540		Dioxin by 1613		SDG No.	
<input checked="" type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week		<input type="checkbox"/> Mercury, total by 245.1		<input type="checkbox"/> Mercury, dissolved by 245.1			
<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day		<input type="checkbox"/> Lead, total by 200.8		<input type="checkbox"/> Lead, dissolved by 200.8			
<input type="checkbox"/>				<input type="checkbox"/> Copper, total by 200.8		<input type="checkbox"/> Copper, dissolved by 200.8			
<input type="checkbox"/>				<input type="checkbox"/> Cadmium, total by 200.8		<input type="checkbox"/> Cadmium, dissolved by 200.8			
<input type="checkbox"/>				<input type="checkbox"/> Filtered Sample					
<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b>	<b>Matrix</b>	<b># of Cont.</b>	<b>CM-3</b>	<b>CM-8 U9</b>	<b>CM-8 D9</b>	<b>Sample Specific Notes:</b>	
1/20/10	12:30	POLY	Water	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1/20/10	12:30	POLY	Water	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1/20/10	12:20	POLY AMBER	Water	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1/20/10	12:22	POLY AMBER	Water	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
		CR			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
	1/20/10				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:45 01/20/10 M	

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

**Possible Hazard Identification:**  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Special Instructions/QC Requirements & Comments:**  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt

**Relinquished by:** *Y. Hooy - M. R. Ratts* **Company:** MWH **Date/Time:** 1/20/10 14:22

**Relinquished by:** *Max Chung* **Company:** TH **Date/Time:** 1-20-10 20:30

**Received by:** *Max Chung* **Company:** Test America **Date/Time:** 1-20-10 16:46

**Received by:** *Max Chung* **Company:** TH **Date/Time:** 1/20/10 20:30

**Return To Client:**  **Return To Client:**  **Disposal By Lab:**  **Archive For:**  **Months:**

February 22, 2010

**TestAmerica Project Number: G0B080438**

PO/Contract: ITA1671

Joe Doak  
TestAmerica Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614-5817

Dear Mr. Doak,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on February 6, 2010. These samples are associated with your ITA1671 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,



for  
Linda C. Laver  
Project Manager



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### TestAmerica West Sacramento Project Number G0B080438

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## Case Narrative

### TestAmerica West Sacramento Project Number G0B080438

#### **WATER, 1613B, Dioxins/Furans with Totals**

Samples: 1, 2

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in the Method Blank (MB) and in samples 1 and 2 have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

The MB has results for TCDF and TCDD totals that are above the lower calibration limit (LCL) that is also present in the samples. There was insufficient sample to perform a re-extraction for this sample. The data is reported from the original extraction, and the MB results have been taken into account when evaluating the sample results.

There are no other anomalies associated with this project.

### TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary

## TestAmerica West Sacramento Project Number G0B080438

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LVEDR	1	ITA1671-03	1/20/2010 12:20 PM	2/6/2010 09:10 AM
LVED1	2	ITA1671-04	1/20/2010 12:20 PM	2/6/2010 09:10 AM

### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SUBCONTRACT ORDER  
TestAmerica Irvine

ITA1671

SENDING LABORATORY:

TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak  
Client: MWH-Walnut Creek

RECEIVING LABORATORY:

TestAmerica West Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Phone: (916) 373-5600  
Fax: (916) 372-1059  
Project Location: CA - CALIFORNIA  
Receipt Temperature: \_\_\_\_\_ °C Ice: Y / N

Analysis                      Units                      Due                      Expires                      Interlab Price Surch                      Comments

Sample ID: ITA1671-03 (A1SW0006S001 - Water)

Sampled: 01/20/10 12:20

1613-Dioxin-HR                      mg/l                      02/04/10                      01/27/10 12:20                      \$1,400.00                      0%                      17 congeners; J&B flags; sub to TA West Sac


Containers Supplied:  
1 L Amber (E)

Sample ID: ITA1671-04 (A1SW0007S001 - Water)

Sampled: 01/20/10 12:22

1613-Dioxin-HR                      mg/l                      02/04/10                      01/27/10 12:22                      \$1,400.00                      0%                      17 congeners; J&B flags; sub to TA West Sac

Containers Supplied:  
1 L Amber (E)

  
Released By                      2/5/10 17:00  
Date/Time

  
Received By                      2/5/10 17:00  
Date/Time

CLIENT TAL FVUine PM LL LOG # 63153

LOT# (QUANTIMS ID) G03080438 QUOTE# 84779 LOCATION W13B

DATE RECEIVED 2-6-10 TIME RECEIVED 910 Checked (✓)

DELIVERED BY  FEDEX  ON TRAC  CLIENT  
 GOLDENSTATE  UPS  GO-GETTERS  OTHER  
 TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) seal

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) NA

TEMPERATURE BLANK Observed: 1 Corrected: 1

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 1.011 Average 1 Corrected Average 1

LABORATORY THERMOMETER ID:

IR UNIT: #4  #5  OTHER

AL 2-6-10  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

yl 02 FEB 10  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot

ID:

G08080438

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	1	1																		
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

# WATER, 1613B, Dioxins/Furans with Totals



**TestAmerica Irvine**  
**Sample ID: ITA1671-03**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B080438 - 001	<b>Work Order #....:</b>	LVEDR1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	01/20/10	<b>Date Received....:</b>	02/06/10	<b>Dilution Factor:</b>	0.96
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1035.9 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.000096	0.0000094	ug/L
<b>Total TCDD</b>	<b>0.000019 J Q B</b>	<b>0.000096</b>	<b>0.0000094</b>	<b>ug/L</b>
1,2,3,7,8-PeCDD	ND	0.000048	0.0000013	ug/L
Total PeCDD	ND	0.000048	0.0000013	ug/L
1,2,3,4,7,8-HxCDD	ND	0.000048	0.0000015	ug/L
<b>1,2,3,6,7,8-HxCDD</b>	<b>0.000012 J Q</b>	<b>0.000048</b>	<b>0.0000014</b>	<b>ug/L</b>
<b>1,2,3,7,8,9-HxCDD</b>	<b>0.000015 J Q</b>	<b>0.000048</b>	<b>0.0000013</b>	<b>ug/L</b>
<b>Total HxCDD</b>	<b>0.000043 J Q</b>	<b>0.000048</b>	<b>0.0000013</b>	<b>ug/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.000020 J B</b>	<b>0.000048</b>	<b>0.000013</b>	<b>ug/L</b>
<b>Total HpCDD</b>	<b>0.000058 J B</b>	<b>0.000048</b>	<b>0.0000013</b>	<b>ug/L</b>
<b>OCDD</b>	<b>0.00014 J B</b>	<b>0.000096</b>	<b>0.0000010</b>	<b>ug/L</b>
2,3,7,8-TCDF	0.0000079 J Q	0.000096	0.0000058	ug/L
<b>Total TCDF</b>	<b>0.000011 J Q B</b>	<b>0.000096</b>	<b>0.0000058</b>	<b>ug/L</b>
1,2,3,7,8-PeCDF	0.0000077 J Q	0.000048	0.0000031	ug/L
2,3,4,7,8-PeCDF	0.0000057 J	0.000048	0.0000035	ug/L
<b>Total PeCDF</b>	<b>0.000019 J Q B</b>	<b>0.000048</b>	<b>0.00000020</b>	<b>ug/L</b>
1,2,3,4,7,8-HxCDF	0.0000022 J	0.000048	0.0000058	ug/L
1,2,3,6,7,8-HxCDF	0.0000015 J B	0.000048	0.0000055	ug/L
2,3,4,6,7,8-HxCDF	0.0000010 J Q B	0.000048	0.0000050	ug/L
1,2,3,7,8,9-HxCDF	0.0000012 J Q B	0.000048	0.0000062	ug/L
<b>Total HxCDF</b>	<b>0.0000091 J Q B</b>	<b>0.000048</b>	<b>0.0000050</b>	<b>ug/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.0000092 J B</b>	<b>0.000048</b>	<b>0.0000074</b>	<b>ug/L</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.0000014 J</b>	<b>0.000048</b>	<b>0.0000011</b>	<b>ug/L</b>
<b>Total HpCDF</b>	<b>0.000021 J Q B</b>	<b>0.000048</b>	<b>0.0000074</b>	<b>ug/L</b>
<b>OCDF</b>	<b>0.000023 J</b>	<b>0.000096</b>	<b>0.0000063</b>	<b>ug/L</b>

**TestAmerica Irvine**  
**Sample ID: ITA1671-03**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B080438 - 001	<b>Work Order #....:</b>	LVEDR1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	01/20/10	<b>Date Received....:</b>	02/06/10	<b>Dilution Factor:</b>	0.96
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1035.9 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	25 - 164
13C-1,2,3,7,8-PeCDD	82	25 - 181
13C-1,2,3,4,7,8-HxCDD	84	32 - 141
13C-1,2,3,6,7,8-HxCDD	85	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	83	23 - 140
13C-OCDD	74	17 - 157
13C-2,3,7,8-TCDF	75	24 - 169
13C-1,2,3,7,8-PeCDF	75	24 - 185
13C-2,3,4,7,8-PeCDF	71	21 - 178
13C-1,2,3,6,7,8-HxCDF	85	26 - 123
13C-2,3,4,6,7,8-HxCDF	89	28 - 136
13C-1,2,3,7,8,9-HxCDF	82	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	88	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	77	26 - 138
13C-1,2,3,4,7,8-HxCDF	84	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	89	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

**TestAmerica Irvine**  
**Sample ID: ITA1671-03**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B080438 - 001	<b>Work Order #....:</b>	LVEDR2AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	01/20/10	<b>Date Received....:</b>	02/06/10	<b>Dilution Factor:</b>	0.97
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/17/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	5D2		
<b>Initial Wgt/Vol :</b>	1035.9 mL	<b>Analyst ID....:</b>	Alora Kuczynski		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDF	ND	0.0000096	0.0000018	ug/L

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDF	90	24 - 169

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	0.0 *	35 - 197

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**TestAmerica Irvine**  
**Sample ID: ITA1671-04**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B080438 - 002	<b>Work Order #....:</b>	LVED11AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	01/20/10	<b>Date Received....:</b>	02/06/10	<b>Dilution Factor:</b>	0.99
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1006.2 mL	<b>Analyst ID....:</b>	Alora Kuczynski		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.0000099	0.0000014	ug/L
<b>Total TCDD</b>	<b>0.0000094 J Q B</b>	<b>0.0000099</b>	<b>0.0000014</b>	<b>ug/L</b>
1,2,3,7,8-PeCDD	ND	0.000050	0.0000016	ug/L
Total PeCDD	ND	0.000050	0.0000016	ug/L
1,2,3,4,7,8-HxCDD	ND	0.000050	0.0000013	ug/L
1,2,3,6,7,8-HxCDD	ND	0.000050	0.0000012	ug/L
<b>1,2,3,7,8,9-HxCDD</b>	<b>0.0000085 J Q</b>	<b>0.000050</b>	<b>0.0000011</b>	<b>ug/L</b>
<b>Total HxCDD</b>	<b>0.0000021 J Q</b>	<b>0.000050</b>	<b>0.0000011</b>	<b>ug/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.000012 J B</b>	<b>0.000050</b>	<b>0.0000015</b>	<b>ug/L</b>
<b>Total HpCDD</b>	<b>0.000028 J B</b>	<b>0.000050</b>	<b>0.0000015</b>	<b>ug/L</b>
<b>OCDD</b>	<b>0.00010 B</b>	<b>0.000099</b>	<b>0.0000010</b>	<b>ug/L</b>
2,3,7,8-TCDF	ND	0.0000099	0.0000017	ug/L
<b>Total TCDF</b>	<b>0.000041 Q B</b>	<b>0.0000099</b>	<b>0.0000017</b>	<b>ug/L</b>
<b>1,2,3,7,8-PeCDF</b>	<b>0.00000087 J Q</b>	<b>0.000050</b>	<b>0.00000028</b>	<b>ug/L</b>
2,3,4,7,8-PeCDF	ND	0.000050	0.00000031	ug/L
<b>Total PeCDF</b>	<b>0.0000011 J Q B</b>	<b>0.000050</b>	<b>0.000000030</b>	<b>ug/L</b>
<b>1,2,3,4,7,8-HxCDF</b>	<b>0.00000099 J Q</b>	<b>0.000050</b>	<b>0.00000058</b>	<b>ug/L</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.00000089 J B</b>	<b>0.000050</b>	<b>0.00000055</b>	<b>ug/L</b>
<b>2,3,4,6,7,8-HxCDF</b>	<b>0.00000066 J Q B</b>	<b>0.000050</b>	<b>0.00000050</b>	<b>ug/L</b>
<b>1,2,3,7,8,9-HxCDF</b>	<b>0.00000096 J</b>	<b>0.000050</b>	<b>0.00000060</b>	<b>ug/L</b>
<b>Total HxCDF</b>	<b>0.0000063 J Q B</b>	<b>0.000050</b>	<b>0.00000050</b>	<b>ug/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.0000074 J B</b>	<b>0.000050</b>	<b>0.00000078</b>	<b>ug/L</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.0000011 J Q</b>	<b>0.000050</b>	<b>0.0000011</b>	<b>ug/L</b>
<b>Total HpCDF</b>	<b>0.000017 J Q B</b>	<b>0.000050</b>	<b>0.00000078</b>	<b>ug/L</b>
<b>OCDF</b>	<b>0.000017 J</b>	<b>0.000099</b>	<b>0.0000035</b>	<b>ug/L</b>

**TestAmerica Irvine**  
**Sample ID: ITA1671-04**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B080438 - 002	<b>Work Order #....:</b>	LVED11AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	01/20/10	<b>Date Received....:</b>	02/06/10	<b>Dilution Factor:</b>	0.99
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1006.2 mL	<b>Analyst ID....:</b>	Alora Kuczynski		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	74	25 - 164
13C-1,2,3,7,8-PeCDD	80	25 - 181
13C-1,2,3,4,7,8-HxCDD	80	32 - 141
13C-1,2,3,6,7,8-HxCDD	80	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	82	23 - 140
13C-OCDD	77	17 - 157
13C-2,3,7,8-TCDF	71	24 - 169
13C-1,2,3,7,8-PeCDF	73	24 - 185
13C-2,3,4,7,8-PeCDF	71	21 - 178
13C-1,2,3,6,7,8-HxCDF	80	26 - 123
13C-2,3,4,6,7,8-HxCDF	83	28 - 136
13C-1,2,3,7,8,9-HxCDF	80	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	85	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	77	26 - 138
13C-1,2,3,4,7,8-HxCDF	80	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	89	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0B080438

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B		0041281	
002	WATER	EPA-5 1613B		0041281	

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B100000 - 281B	<b>Work Order #....:</b>	LVHG71AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/02/10	<b>Date Received....:</b>	02/05/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.000010	0.0000026	ug/L
<b>Total TCDD</b>	<b>0.000038 J Q</b>	<b>0.000050</b>	<b>0.0000026</b>	<b>ug/L</b>
1,2,3,7,8-PeCDD	ND	0.000050	0.0000014	ug/L
Total PeCDD	ND	0.000050	0.0000014	ug/L
1,2,3,4,7,8-HxCDD	ND	0.000050	0.0000013	ug/L
1,2,3,6,7,8-HxCDD	ND	0.000050	0.0000012	ug/L
1,2,3,7,8,9-HxCDD	ND	0.000050	0.0000011	ug/L
Total HxCDD	ND	0.000050	0.0000011	ug/L
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.0000026 J</b>	<b>0.000050</b>	<b>0.0000014</b>	<b>ug/L</b>
<b>Total HpCDD</b>	<b>0.0000050 J</b>	<b>0.000050</b>	<b>0.0000014</b>	<b>ug/L</b>
<b>OCDD</b>	<b>0.000020 J</b>	<b>0.000010</b>	<b>0.00000095</b>	<b>ug/L</b>
2,3,7,8-TCDF	ND	0.000010	0.0000066	ug/L
<b>Total TCDF</b>	<b>0.000019 Q</b>	<b>0.000010</b>	<b>0.0000066</b>	<b>ug/L</b>
1,2,3,7,8-PeCDF	ND	0.000050	0.00000038	ug/L
2,3,4,7,8-PeCDF	ND	0.000050	0.00000042	ug/L
Total PeCDF	ND	0.000050	0.00000020	ug/L
1,2,3,4,7,8-HxCDF	ND	0.000050	0.00000040	ug/L
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.00000081 J Q</b>	<b>0.000050</b>	<b>0.00000037</b>	<b>ug/L</b>
<b>2,3,4,6,7,8-HxCDF</b>	<b>0.00000045 J Q</b>	<b>0.000050</b>	<b>0.00000035</b>	<b>ug/L</b>
1,2,3,7,8,9-HxCDF	ND	0.000050	0.00000040	ug/L
<b>Total HxCDF</b>	<b>0.0000017 J Q</b>	<b>0.000050</b>	<b>0.00000035</b>	<b>ug/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.0000020 J</b>	<b>0.000050</b>	<b>0.00000079</b>	<b>ug/L</b>
1,2,3,4,7,8,9-HpCDF	ND	0.000050	0.0000012	ug/L
<b>Total HpCDF</b>	<b>0.0000041 J</b>	<b>0.000050</b>	<b>0.00000079</b>	<b>ug/L</b>
OCDF	ND	0.000010	0.000022	ug/L

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B100000 - 281B	<b>Work Order #....:</b>	LVHG71AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/02/10	<b>Date Received....:</b>	02/05/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	02/10/10	<b>Analysis Date....:</b>	02/11/10		
<b>Prep Batch # ....:</b>	0041281	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	69	25 - 164
13C-1,2,3,7,8-PeCDD	80	25 - 181
13C-1,2,3,4,7,8-HxCDD	90	32 - 141
13C-1,2,3,6,7,8-HxCDD	81	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	84	23 - 140
13C-OCDD	76	17 - 157
13C-2,3,7,8-TCDF	66	24 - 169
13C-1,2,3,7,8-PeCDF	71	24 - 185
13C-2,3,4,7,8-PeCDF	72	21 - 178
13C-1,2,3,6,7,8-HxCDF	82	26 - 123
13C-2,3,4,6,7,8-HxCDF	88	28 - 136
13C-1,2,3,7,8,9-HxCDF	81	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	88	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	79	26 - 138
13C-1,2,3,4,7,8-HxCDF	85	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	87	35 - 197

**QUALIFIERS**

- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).



**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

<b>Client Lot # ...:</b>	G0B080438	<b>Work Order # ...:</b>	LVHG71AC-LCS	<b>Matrix .....</b>	WATER
<b>LCS Lot-Sample# :</b>	G0B100000 - 281				
<b>Prep Date .....</b>	02/10/10	<b>Analysis Date ...:</b>	02/11/10		
<b>Prep Batch # ...:</b>	0041281				
<b>Dilution Factor :</b>	1				
<b>Analyst ID.....:</b>	Sonia Ouni	<b>Instrument ID.:</b>	4D5	<b>Method.....:</b>	EPA-5 1613B
<b>Initial Wgt/Vol:</b>	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	0.0	0.0	ug/L	99	(67 - 158)
1,2,3,7,8-PeCDD	0.000	0.0	ug/L	96	(70 - 142)
1,2,3,4,7,8-HxCDD	0.000	0.000	ug/L	104	(70 - 164)
1,2,3,6,7,8-HxCDD	0.000	0.000	ug/L	101	(76 - 134)
1,2,3,7,8,9-HxCDD	0.000	0.000	ug/L	101	(64 - 162)
1,2,3,4,6,7,8-HpCDD	0.00200	0.000	ug/L	0.000 a B	(70 - 140)
OCDD	0.00200	0.000	ug/L	0.000 a B	(78 - 144)
2,3,7,8-TCDF	0.0	0.0	ug/L	102	(75 - 158)
1,2,3,7,8-PeCDF	0.000	0.000	ug/L	107	(80 - 134)
2,3,4,7,8-PeCDF	0.000	0.000	ug/L	105	(68 - 160)
1,2,3,4,7,8-HxCDF	0.000	0.000	ug/L	107	(72 - 134)
1,2,3,6,7,8-HxCDF	0.00200	0.000	ug/L	0.000 a B	(84 - 130)
2,3,4,6,7,8-HxCDF	0.00200	0.000	ug/L	0.000 a B	(70 - 156)
1,2,3,7,8,9-HxCDF	0.00200	0.000	ug/L	0.000 a	(78 - 130)
1,2,3,4,6,7,8-HpCDF	0.00200	0.000	ug/L	0.000 a B	(82 - 122)
1,2,3,4,7,8,9-HpCDF	0.000	0.000	ug/L	106	(78 - 138)
OCDF	0.000	0.000	ug/L	100	(63 - 170)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	67	(25 - 164)
13C-1,2,3,7,8-PeCDD	79	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	87	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	80	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	85	(23 - 140)
13C-OCDD	77	(17 - 157)
13C-2,3,7,8-TCDF	63	(24 - 169)
13C-1,2,3,7,8-PeCDF	70	(24 - 185)
13C-2,3,4,7,8-PeCDF	69	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	81	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	85	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	78	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	85	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	79	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	84	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	86	(35 - 197)

## LABORATORY CONTROL SAMPLE DATA REPORT

### Trace Level Organic Compounds

#### Notes:

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

- a Spiked analyte recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF008 ISRA Performance  
Sampling  
Sampled: 01/20/10  
Received: 01/20/10  
Issued: 02/18/10 16:21

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 4 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: WATER, 1613B, Dioxins/Furans with Totals

Sample 3

Some analytes in these samples have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

Revised report to report dioxins according to Boeing specifications.

Amended to report OCDD for sample 1 IN UG/L

### LABORATORY ID

ITA1672-01

ITA1672-03

### CLIENT ID

HZSW0003S002

HZSW0007S002

### MATRIX

Water

Water

Reviewed By:



TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1672

Sampled: 01/20/10  
Received: 01/20/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1672-01 (HZSW0003S002 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10A2172	0.50	2.0	13	1	01/22/10	01/25/10	
Lead	EPA 200.8	10A2172	0.20	1.0	14	1	01/22/10	01/27/10	
<b>Sample ID: ITA1672-03 (HZSW0007S002 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10A2172	0.50	2.0	13	1	01/22/10	01/25/10	
Lead	EPA 200.8	10A2172	0.20	1.0	1.8	1	01/22/10	01/28/10	

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1672

Sampled: 01/20/10  
Received: 01/20/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1672-01 (HZSW0003S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2356	4.0	40	<b>840</b>	1	01/25/10	01/25/10	
<b>Sample ID: ITA1672-03 (HZSW0007S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2356	1.0	10	<b>140</b>	1	01/25/10	01/25/10	

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1672-01 (HZSW0003S002 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	32297	0.0000094	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	32297	0.0000052	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	32297	0.0000089	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	32297	0.0000063	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	32297	0.0000042	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	32297	0.000004	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	32297	0.0000092	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	32297	0.000005	0.000005	ND	0.99	02/01/10	02/02/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	32297	0.0000034	0.000005	ND	0.99	02/01/10	02/02/10	
<b>OCDD</b>	EPA-5 1613B	32297	0.0000013	0.0000099	<b>1.2e-005</b>	0.99	02/01/10	02/02/10	J, Q, B
OCDF	EPA-5 1613B	32297	0.0000011	0.0000099	ND	0.99	02/01/10	02/02/10	
Total HxCDF	EPA-5 1613B	32297	0.0000034	0.000005	ND	0.99	02/01/10	02/02/10	
<b>Total PeCDD</b>	EPA-5 1613B	32297	0.0000092	0.000005	<b>6.9e-006</b>	0.99	02/01/10	02/02/10	J, Q
Total PeCDF	EPA-5 1613B	32297	0.000004	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	32297	0.0000051	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	32297	0.0000037	0.000005	ND	0.99	02/01/10	02/02/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	32297	0.0000045	0.000005	ND	0.99	02/01/10	02/02/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	32297	0.0000056	0.000005	ND	0.99	02/01/10	02/02/10	
2,3,7,8-TCDD	EPA-5 1613B	32297	0.0000037	0.0000099	ND	0.99	02/01/10	02/02/10	
2,3,7,8-TCDF	EPA-5 1613B	32297	0.0000031	0.0000099	ND	0.99	02/01/10	02/02/10	
<b>Total HpCDD</b>	EPA-5 1613B	32297	0.0000094	0.000005	<b>3.5e-006</b>	0.99	02/01/10	02/02/10	J, Q
Total HpCDF	EPA-5 1613B	32297	0.0000052	0.000005	ND	0.99	02/01/10	02/02/10	
Total HxCDD	EPA-5 1613B	32297	0.0000045	0.000005	ND	0.99	02/01/10	02/02/10	
<b>Total TCDD</b>	EPA-5 1613B	32297	0.0000037	0.0000099	<b>1.9e-006</b>	0.99	02/01/10	02/02/10	J, Q
Total TCDF	EPA-5 1613B	32297	0.0000031	0.0000099	ND	0.99	02/01/10	02/02/10	

Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 65 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 78 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 72 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 71 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 51 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 47 %  
 Surrogate: 13C-OCDD (17-157%) 68 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 89 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 76 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 88 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 75 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 65 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 55 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 56 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 77 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 59 %

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1672

Sampled: 01/20/10  
Received: 01/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1672-03 (HZSW0007S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	32297	0.0000068	0.000048	2e-005	0.95	02/01/10	02/03/10	J
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	32297	0.000004	0.000048	8e-006	0.95	02/01/10	02/03/10	J, Q
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	32297	0.0000069	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	32297	0.0000047	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	32297	0.0000041	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	32297	0.0000039	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	32297	0.000006	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	32297	0.0000043	0.000048	ND	0.95	02/01/10	02/03/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	32297	0.0000034	0.000048	ND	0.95	02/01/10	02/03/10	
OCDD	EPA-5 1613B	32297	0.000011	0.000095	0.00017	0.95	02/01/10	02/03/10	B
OCDF	EPA-5 1613B	32297	0.0000061	0.000095	9e-006	0.95	02/01/10	02/03/10	J, Q
Total HxCDF	EPA-5 1613B	32297	0.0000034	0.000048	ND	0.95	02/01/10	02/03/10	
Total PeCDD	EPA-5 1613B	32297	0.000006	0.000048	4.3e-006	0.95	02/01/10	02/03/10	J, Q
Total PeCDF	EPA-5 1613B	32297	0.000003	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	32297	0.0000041	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	32297	0.0000035	0.000048	ND	0.95	02/01/10	02/03/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	32297	0.0000035	0.000048	ND	0.95	02/01/10	02/03/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	32297	0.0000052	0.000048	ND	0.95	02/01/10	02/03/10	
2,3,7,8-TCDD	EPA-5 1613B	32297	0.0000025	0.0000095	ND	0.95	02/01/10	02/03/10	
2,3,7,8-TCDF	EPA-5 1613B	32297	0.0000021	0.0000095	ND	0.95	02/01/10	02/03/10	
Total HpCDD	EPA-5 1613B	32297	0.0000068	0.000048	4.7e-005	0.95	02/01/10	02/03/10	J
Total HpCDF	EPA-5 1613B	32297	0.000004	0.000048	1.2e-005	0.95	02/01/10	02/03/10	J, Q
Total HxCDD	EPA-5 1613B	32297	0.0000035	0.000048	ND	0.95	02/01/10	02/03/10	
Total TCDD	EPA-5 1613B	32297	0.0000025	0.0000095	1.7e-006	0.95	02/01/10	02/03/10	J
Total TCDF	EPA-5 1613B	32297	0.0000021	0.0000095	ND	0.95	02/01/10	02/03/10	

Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	72 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	81 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	83 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	79 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	64 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	59 %
Surrogate: 13C-OCDD (17-157%)	74 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	89 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	79 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	93 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	77 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	74 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	68 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	72 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	85 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	69 %

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2172 Extracted: 01/22/10</b>											
<b>Blank Analyzed: 01/24/2010-01/25/2010 (10A2172-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 01/24/2010-01/25/2010 (10A2172-BS1)</b>											
Copper	83.4	2.0	0.50	ug/l	80.0		104	85-115			
Lead	89.5	1.0	0.20	ug/l	80.0		112	85-115			
<b>Matrix Spike Analyzed: 01/24/2010-01/25/2010 (10A2172-MS1) Source: ITA1887-01</b>											
Copper	83.2	10	2.5	ug/l	80.0	5.37	97	70-130			
Lead	83.3	5.0	1.0	ug/l	80.0	ND	104	70-130			
<b>Matrix Spike Analyzed: 01/24/2010-01/25/2010 (10A2172-MS2) Source: ITA1887-02</b>											
Copper	84.0	10	2.5	ug/l	80.0	5.68	98	70-130			
Lead	84.8	5.0	1.0	ug/l	80.0	ND	106	70-130			
<b>Matrix Spike Dup Analyzed: 01/24/2010-01/25/2010 (10A2172-MSD1) Source: ITA1887-01</b>											
Copper	85.4	10	2.5	ug/l	80.0	5.37	100	70-130	3	20	
Lead	84.5	5.0	1.0	ug/l	80.0	ND	106	70-130	1	20	

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
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Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2356 Extracted: 01/25/10</b>											
<b>Blank Analyzed: 01/25/2010 (10A2356-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/25/2010 (10A2356-BS1)</b>											
Total Suspended Solids	971	10	1.0	mg/l	1000		97	85-115			
<b>Duplicate Analyzed: 01/25/2010 (10A2356-DUP1)</b>											
Total Suspended Solids	27.0	10	1.0	mg/l		Source: ITA2083-01 28.0			4	10	

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Heather Clark For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 32297 Extracted: 02/01/10</b>											
<b>Blank Analyzed: 02/03/2010 (G0B010000297B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.000062	ug/L			-				
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.000039	ug/L			-				
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.000066	ug/L			-				
1,2,3,4,7,8-HxCDD	ND	0.00005	0.000051	ug/L			-				
1,2,3,4,7,8-HxCDF	2e-006	0.00005	0.000026	ug/L			-				J
1,2,3,7,8,9-HxCDF	ND	0.00005	0.000027	ug/L			-				
1,2,3,7,8-PeCDD	ND	0.00005	0.000079	ug/L			-				
1,2,3,7,8-PeCDF	ND	0.00005	0.000038	ug/L			-				
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000022	ug/L			-				
OCDD	5.1e-006	0.0001	0.000097	ug/L			-				J, Q
OCDF	ND	0.0001	0.000094	ug/L			-				
Total HxCDF	2e-006	0.00005	0.000022	ug/L			-				J
Total PeCDD	ND	0.00005	0.000079	ug/L			-				
Total PeCDF	ND	0.00005	0.000028	ug/L			-				
1,2,3,6,7,8-HxCDD	ND	0.00005	0.000042	ug/L			-				
1,2,3,6,7,8-HxCDF	ND	0.00005	0.000022	ug/L			-				
1,2,3,7,8,9-HxCDD	ND	0.00005	0.000037	ug/L			-				
2,3,4,7,8-PeCDF	ND	0.00005	0.000045	ug/L			-				
2,3,7,8-TCDD	ND	0.00001	0.000029	ug/L			-				
2,3,7,8-TCDF	ND	0.00001	0.000002	ug/L			-				
Total HpCDD	ND	0.00005	0.000062	ug/L			-				
Total HpCDF	ND	0.00005	0.000039	ug/L			-				
Total HxCDD	ND	0.00005	0.000037	ug/L			-				
Total TCDD	ND	0.00001	0.000029	ug/L			-				
Total TCDF	ND	0.00001	0.000002	ug/L			-				
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0015			ug/L	0.002		77	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.002			ug/L	0.002		100	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0018			ug/L	0.002		88	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017			ug/L	0.002		84	29-147			
Surrogate: 13C-2,3,7,8-TCDD	0.0014			ug/L	0.002		69	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		67	24-169			
Surrogate: 13C-OCDD	0.0028			ug/L	0.004		71	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00073			ug/L	0.0008		92	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0016			ug/L	0.002		80	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		92	28-143			

#### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 32297 Extracted: 02/01/10</b>											
<b>Blank Analyzed: 02/03/2010 (G0B010000297B)</b>						<b>Source:</b>					
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0015			ug/L	0.002		76	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0014			ug/L	0.002		68	32-141			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0014			ug/L	0.002		70	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0014			ug/L	0.002		72	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0018			ug/L	0.002		91	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0014			ug/L	0.002		72	21-178			
<b>LCS Analyzed: 02/03/2010 (G0B010000297C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.000087	ug/L	0.001		106	70-140			
1,2,3,4,6,7,8-HpCDF	0.00113	0.00005	0.000088	ug/L	0.001		113	82-122			
1,2,3,4,7,8,9-HpCDF	0.00115	0.00005	0.000013	ug/L	0.001		115	78-138			
1,2,3,4,7,8-HxCDD	0.000931	0.00005	0.000049	ug/L	0.001		93	70-164			
1,2,3,4,7,8-HxCDF	0.00109	0.00005	0.000033	ug/L	0.001		109	72-134			
1,2,3,7,8,9-HxCDF	0.00112	0.00005	0.000033	ug/L	0.001		112	78-130			
1,2,3,7,8-PeCDD	0.00103	0.00005	0.000085	ug/L	0.001		103	70-142			
1,2,3,7,8-PeCDF	0.00109	0.00005	0.000005	ug/L	0.001		109	80-134			
2,3,4,6,7,8-HxCDF	0.00112	0.00005	0.000028	ug/L	0.001		112	70-156			
OCDD	0.0021	0.0001	0.000013	ug/L	0.002		105	78-144			
OCDF	0.00218	0.0001	0.000018	ug/L	0.002		109	63-170			
1,2,3,6,7,8-HxCDD	0.00123	0.00005	0.000045	ug/L	0.001		123	76-134			
1,2,3,6,7,8-HxCDF	0.00117	0.00005	0.000031	ug/L	0.001		117	84-130			
1,2,3,7,8,9-HxCDD	0.00101	0.00005	0.000037	ug/L	0.001		101	64-162			
2,3,4,7,8-PeCDF	0.00113	0.00005	0.000062	ug/L	0.001		113	68-160			
2,3,7,8-TCDD	0.000204	0.00001	0.000026	ug/L	0.0002		102	67-158			
2,3,7,8-TCDF	0.000203	0.00001	0.000027	ug/L	0.0002		101	75-158			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00153			ug/L	0.002		77	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0016			ug/L	0.002		80	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00155			ug/L	0.002		78	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00159			ug/L	0.002		80	29-147			
Surrogate: 13C-2,3,7,8-TCDD	0.00123			ug/L	0.002		62	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00126			ug/L	0.002		63	24-169			
Surrogate: 13C-OCDD	0.00295			ug/L	0.004		74	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000719			ug/L	0.0008		90	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00158			ug/L	0.002		79	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00178			ug/L	0.002		89	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00154			ug/L	0.002		77	26-138			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 32297 Extracted: 02/01/10</b>											
<b>LCS Analyzed: 02/03/2010 (G0B010000297C)</b>						<b>Source:</b>					
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00155			ug/L	0.002		77	32-141			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00148			ug/L	0.002		74	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00148			ug/L	0.002		74	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00167			ug/L	0.002		83	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00143			ug/L	0.002		71	21-178			
<b>LCS Dup Analyzed: 02/03/2010 (G0B010000297L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.000011	ug/L	0.001		105	70-140	1.1	50	
1,2,3,4,6,7,8-HpCDF	0.0011	0.00005	0.0000083	ug/L	0.001		110	82-122	2.4	50	
1,2,3,4,7,8,9-HpCDF	0.00112	0.00005	0.000014	ug/L	0.001		112	78-138	2.3	50	
1,2,3,4,7,8-HxCDD	0.00101	0.00005	0.0000049	ug/L	0.001		101	70-164	8.2	50	
1,2,3,4,7,8-HxCDF	0.00111	0.00005	0.0000032	ug/L	0.001		111	72-134	2.2	50	
1,2,3,7,8,9-HxCDF	0.00108	0.00005	0.0000031	ug/L	0.001		108	78-130	3.7	50	
1,2,3,7,8-PeCDD	0.00105	0.00005	0.00001	ug/L	0.001		105	70-142	2	50	
1,2,3,7,8-PeCDF	0.00107	0.00005	0.0000058	ug/L	0.001		107	80-134	2.3	50	
2,3,4,6,7,8-HxCDF	0.00109	0.00005	0.0000026	ug/L	0.001		109	70-156	2.2	50	
OCDD	0.00216	0.0001	0.000015	ug/L	0.002		108	78-144	3	50	
OCDF	0.00226	0.0001	0.000017	ug/L	0.002		113	63-170	3.7	50	
1,2,3,6,7,8-HxCDD	0.00112	0.00005	0.0000042	ug/L	0.001		112	76-134	8.7	50	
1,2,3,6,7,8-HxCDF	0.00111	0.00005	0.0000026	ug/L	0.001		111	84-130	5.1	50	
1,2,3,7,8,9-HxCDD	0.00101	0.00005	0.0000036	ug/L	0.001		101	64-162	0.08	50	
2,3,4,7,8-PeCDF	0.0011	0.00005	0.000007	ug/L	0.001		110	68-160	2.4	50	
2,3,7,8-TCDD	0.000191	0.00001	0.0000029	ug/L	0.0002		96	67-158	6.7	50	
2,3,7,8-TCDF	0.000194	0.00001	0.0000026	ug/L	0.0002		97	75-158	4.6	50	
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00143			ug/L	0.002		72	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00176			ug/L	0.002		88	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		82	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00152			ug/L	0.002		76	29-147			
Surrogate: 13C-2,3,7,8-TCDD	0.00125			ug/L	0.002		62	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00124			ug/L	0.002		62	24-169			
Surrogate: 13C-OCDD	0.00273			ug/L	0.004		68	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000702			ug/L	0.0008		88	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00154			ug/L	0.002		77	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00179			ug/L	0.002		89	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00149			ug/L	0.002		75	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00135			ug/L	0.002		67	32-141			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1672

Sampled: 01/20/10  
 Received: 01/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 32297 Extracted: 02/01/10</b>											
<b>LCS Dup Analyzed: 02/03/2010 (G0B010000297L)</b>											
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00143			ug/L	0.002		71	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00141			ug/L	0.002		71	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00168			ug/L	0.002		84	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00139			ug/L	0.002		69	21-178			

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Heather Clark For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1672

Sampled: 01/20/10  
Received: 01/20/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**ITA1672 <Page 12 of 13>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1672

Sampled: 01/20/10  
Received: 01/20/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITA1672-01, ITA1672-03

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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Project Manager: Alex Fischl  
Tel: 925-627-4627

Site Contact: Shelby Valenzuela  
Lab Contact: Joe Dosak

TestAmerica Laboratories, Inc.  
COC No: 1 of 2 COCs  
Job No: 1008067  
SDG No:

**Client Contact**  
MWH  
2121 N. California Blvd. Suite 600  
Walnut Creek, CA 94596  
Phone: 925-627-4500  
FAX: 925-627-4501  
Project Name: OF008 ISRA Performance Sampling  
Site: Outfall 008  
PO #

**Project Manager: Alex Fischl**  
Tel: 925-627-4627

**Site Contact: Shelby Valenzuela**  
**Lab Contact: Joe Dosak**

**Date:** 1/20/10  
**Carrier:** LAB COVER

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Copper, dissolved by 200.8	Copper, total by 200.8	Lead, dissolved by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
HZSW00035002	1/20/10	11:26	Poly Amber	Water	3	X	X	X	X	X	X	X	CYN-1, DRG-1
HZSW00045001	1/20/10	11:40	Poly Amber	Water	3	X	X	X	X	X	X	X	DRG-1
HZSW00055001				Water		X	X	X	X	X	X	X	CYN-1
HZSW00065001				Water		X	X	X	X	X	X	X	CYN-1, DRG-1
HZSW00075002	1/20/10	09:20	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-1, -2A, -2B-1, -2B-2, -2C, -2D, -3, -
HZSW00085001				Water		X	X	X	X	X	X	X	HVS-1
HZSW00095001	1/20/10	11:05	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-1
HZSW00105007	1/20/10	08:59	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-3, -4
HZSW00115001				Water		X	X	X	X	X	X	X	HVS-3, -4
HZSW00125001				Water		X	X	X	X	X	X	X	HVS-2C
HZSW00135001				Water		X	X	X	X	X	X	X	HVS-2C
HZSW00145001				Water		X	X	X	X	X	X	X	HVS-2B-1, -2B-2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: *Alloy M. B...* Company: MWH  
 Relinquished by: *Mark...* Company: TA  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_

Received by: *Mark...* Date/Time: 1/20/10 14:22  
 Received by: *TAI* Date/Time: 1/20/10 20:30  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Company: TestAmerica  
 Date/Time: 1-20-10 16:40

Company: TAI  
 Date/Time: 1/20/10 20:30

Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

M201



**Chain of Custody Record**

TestAmerica Laboratories, Inc.

**Irvine**  
17461 Derivan Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

<b>Client Contact</b> MWH 2121 N. California Blvd. Suite 600 Walnut Creek, CA 94596 Phone: 925-627-4500 FAX: 925-627-4501 Project Name: OF008 ISRA Performance Sampling Site: Outfall 008 PO #		<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627 Analysis Turnaround Time Calendar (C) or Work Days (W) <u>W</u> TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Shelby Valenzuela</b> Lab Contact: Joe Doak		<b>Date: 1/20/10</b> Carrier: <u>LAB COZIER</u> COC No: <u>2</u> of <u>2</u> COCs Job No: <u>1008067</u> SDG No.	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Analysis
<u>AR</u> HZSW001SS001				Water			
<u>AR</u> HZSW0016S001 <u>5002</u>	1/20/10	09:15	Poly	Water	2		
<u>AR</u> HZSW0018S001 <u>5002</u>	1/20/10	09:19	Poly	Water	2		
<i>(Large handwritten scribble across the table)</i>							

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

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 Return To Client  Archive For Months

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 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: <u>William M. P...</u>	Company: <u>MWH</u>	Date/Time: <u>1/20/10 14:22</u>	Received by: <u>Mark Cooney</u>	Company: <u>Test America</u>	Date/Time: <u>1-20-10 16:40</u>
Relinquished by: <u>Mark Cooney</u>	Company: <u>TA</u>	Date/Time: <u>1-20-10 20:30</u>	Received by: <u>[Signature]</u>	Company: <u>TAI</u>	Date/Time: <u>1/20/10 20:30</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

318 M201

**Chain of Custody Record**

Irvine  
17461 Derrian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

TestAmerica Laboratories, Inc.  
COC No: 1 of 2 COCs

ITAI 672

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Copper, dissolved by 200.8	Copper, total by 200.8	Lead, dissolved by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
HZSW00035002	1/20/10	11:26	Poly Amber	Water	3	X	X	X	X	X	X	X	CYN-1, DRG-1
HZSW00045001	1/20/10	11:40	Poly Amber	Water	3								DRG-1
HZSW00055001				Water									CYN-1
HZSW00065001				Water									CYN-1, DRG-1
HZSW00075002	1/20/10	09:20	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-1, -2A, -2B-1, -2B-2, -2C, -2D, -3, -
HZSW00085001				Water									HVS-1
HZSW00095001	1/20/10	11:05	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-1
HZSW00105007	1/20/10	08:59	Poly Amber	Water	3	X	X	X	X	X	X	X	HVS-3, -4
HZSW00115001				Water									HVS-3, -7
HZSW00125001				Water									HVS-2C
HZSW00135001				Water									HVS-2C
HZSW00145001				Water									HVS-2B-1, -2B-2

Project Manager: Alex Fischl  
Tel: 925-627-4627  
Site Contact: Shelby Valenzuela  
Lab Contact: Joe Dosk  
Date: 1/20/10  
Carrier: LAB COVER

Analysis Turnaround Time  
Calendar (C) or Work Days (W)  
TAT: if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other  
 Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
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 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: *Allyson M. B...* Company: MWH  
 Date/Time: 1/20/10 14:22  
 Received by: *Mark...* Company: ITAI  
 Date/Time: 1/20/10 20:30  
 Relinquished by: *Mark...* Company: TA  
 Date/Time: 1/20/10 20:30  
 Received by: *Mark...* Company: TA  
 Date/Time: 1/20/10 16:40

M201

**Chain of Custody Record**

TestAmerica Laboratories, Inc.

**Irvine**  
17461 Derivan Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

<b>Client Contact</b> MWH 2121 N. California Blvd. Suite 600 Walnut Creek, CA 94596 Phone: 925-627-4500 FAX: 925-627-4501 Project Name: OF008 ISRA Performance Sampling Site: Outfall 008 PO #		<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627 Analysis Turnaround Time Calendar (C) or Work Days (W) <u>W</u> TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Shelby Valenzuela</b> Lab Contact: Joe Doak		<b>Date: 1/20/10</b> Carrier: <u>LAB COZIER</u> COC No: <u>2</u> of <u>2</u> COCs Job No: <u>1008067</u> SDG No.	
<b>Sample Identification</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b>	<b>Matrix</b>	<b># of Cont.</b>	<b>Filtered Sample</b>	<b>Sample Specific Notes:</b>
<u>AR</u> HZSW001SS001	1/20/10	09:15	poly	Water	2	<input checked="" type="checkbox"/>	HVS-2B-1, -2D
<u>AR</u> HZSW0016SP01 5002	1/20/10	09:15	poly	Water	2	<input checked="" type="checkbox"/>	HVS-2B-1, -2
<u>AR</u> HZSW0017S001	1/20/10	09:15	poly	Water	2	<input checked="" type="checkbox"/>	HVS-2A, -2D
HZSW0018SP01 5002				Water		<input checked="" type="checkbox"/>	HSV-2A
<p><b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other</p> <p><b>Possible Hazard Identification</b></p> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Archive For _____ Months

**Special Instructions/QC Requirements & Comments:**  
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Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: William M. P... Company: MWH Date/Time: 1/20/10 14:22  
 Relinquished by: Matt C... Company: TA Date/Time: 1-20-10 20:30  
 Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by: Test America Company: Test America Date/Time: 1-20-10 16:40  
 Received by: TAI Company: \_\_\_\_\_ Date/Time: 1/20/10 20:30  
 Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_

318 M201

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project: N/A Boeing-MWH  
OF008 ISRA Performance  
Sampling  
Sampled: 01/21/10  
Received: 01/21/10  
Issued: 02/15/10 16:12

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL  
INFORMATION:

The OCDD in this sample has an ion abundance ratio that is outside of criteria. The analyte is considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

The continuing calibration standard analyzed February 4, 2010 at 00:29 has a percent difference value for the internal standard 13C-1,2,3,6,7,8-HxCDD that is above the method recommended criteria from the initial calibration curve. Because this sample has a recovery within acceptance limits for this IS there is no adverse impact on the data.

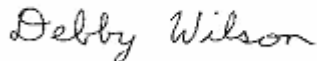
Revised to report dioxin data according to Boeing specifications.

**LABORATORY ID**  
ITA1818-02

**CLIENT ID**  
HZSW0011S001

**MATRIX**  
Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1818

Sampled: 01/21/10  
Received: 01/21/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1818-02 (HZSW0011S001 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10A2172	0.50	2.0	2.4	1	01/22/10	01/24/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1818

Sampled: 01/21/10  
Received: 01/21/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1818-02 (HZSW0011S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2818	1.0	10	<b>6.0</b>	1	01/28/10	01/28/10	Ja

### TestAmerica Irvine

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Project Manager

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MWH-Walnut Creek  
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 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1818-02 (HZSW0011S001 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	33243	0.000008	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	33243	0.0000065	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	33243	0.0000099	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	33243	0.000008	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	33243	0.0000061	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	33243	0.0000068	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	33243	0.0000052	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	33243	0.0000058	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	33243	0.0000055	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	33243	0.000012	0.00005	ND	1	02/02/10	02/04/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	33243	0.0000068	0.00005	ND	1	02/02/10	02/04/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	33243	0.0000047	0.00005	ND	1	02/02/10	02/04/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	33243	0.0000086	0.00005	ND	1	02/02/10	02/04/10	
2,3,7,8-TCDD	EPA-5 1613B	33243	0.0000052	0.00001	ND	1	02/02/10	02/04/10	
2,3,7,8-TCDF	EPA-5 1613B	33243	0.0000032	0.00001	ND	1	02/02/10	02/04/10	
<b>OCDD</b>	EPA-5 1613B	33243	0.000018	0.0001	<b>1.9e-005</b>	1	02/02/10	02/04/10	J, Q
OCDF	EPA-5 1613B	33243	0.000013	0.0001	ND	1	02/02/10	02/04/10	
Total HpCDD	EPA-5 1613B	33243	0.000008	0.00005	ND	1	02/02/10	02/04/10	
Total HpCDF	EPA-5 1613B	33243	0.0000065	0.00005	ND	1	02/02/10	02/04/10	
Total HxCDD	EPA-5 1613B	33243	0.0000058	0.00005	ND	1	02/02/10	02/04/10	
Total HxCDF	EPA-5 1613B	33243	0.0000047	0.00005	ND	1	02/02/10	02/04/10	
Total PeCDD	EPA-5 1613B	33243	0.000012	0.00005	ND	1	02/02/10	02/04/10	
Total PeCDF	EPA-5 1613B	33243	0.0000036	0.00005	ND	1	02/02/10	02/04/10	
Total TCDD	EPA-5 1613B	33243	0.0000052	0.00001	ND	1	02/02/10	02/04/10	
Total TCDF	EPA-5 1613B	33243	0.0000032	0.00001	ND	1	02/02/10	02/04/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 55 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 62 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 57 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 42 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 43 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 59 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 54 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 52 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 41 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 43 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 59 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 41 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 41 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 39 %  
 Surrogate: 13C-OCDD (17-157%) 50 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 88 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2172 Extracted: 01/22/10</b>											
<b>Blank Analyzed: 01/24/2010 (10A2172-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
<b>LCS Analyzed: 01/24/2010 (10A2172-BS1)</b>											
Copper	83.4	2.0	0.50	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 01/24/2010 (10A2172-MS1)</b>											
						<b>Source: ITA1887-01</b>					
Copper	83.2	10	2.5	ug/l	80.0	5.37	97	70-130			
<b>Matrix Spike Analyzed: 01/24/2010 (10A2172-MS2)</b>											
						<b>Source: ITA1887-02</b>					
Copper	84.0	10	2.5	ug/l	80.0	5.68	98	70-130			
<b>Matrix Spike Dup Analyzed: 01/24/2010 (10A2172-MSD1)</b>											
						<b>Source: ITA1887-01</b>					
Copper	85.4	10	2.5	ug/l	80.0	5.37	100	70-130	3	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2818 Extracted: 01/28/10</b>											
<b>Blank Analyzed: 01/28/2010 (10A2818-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/28/2010 (10A2818-BS1)</b>											
Total Suspended Solids	980	10	1.0	mg/l	1000		98	85-115			
<b>Duplicate Analyzed: 01/28/2010 (10A2818-DUP1)</b>											
Total Suspended Solids	6.00	10	1.0	mg/l		6.00			0	10	Ja

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 33243 Extracted: 02/02/10</b>											
<b>Blank Analyzed: 02/04/2010 (G0B020000243B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.000092	ug/L			-				
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.000072	ug/L			-				
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.000013	ug/L			-				
1,2,3,4,7,8-HxCDD	ND	0.00005	0.000075	ug/L			-				
1,2,3,4,7,8-HxCDF	ND	0.00005	0.000048	ug/L			-				
1,2,3,6,7,8-HxCDD	ND	0.00005	0.000056	ug/L			-				
1,2,3,6,7,8-HxCDF	2e-006	0.00005	0.000043	ug/L			-				J, Q
1,2,3,7,8,9-HxCDD	ND	0.00005	0.000049	ug/L			-				
1,2,3,7,8,9-HxCDF	ND	0.00005	0.000048	ug/L			-				
1,2,3,7,8-PeCDD	ND	0.00005	0.000012	ug/L			-				
1,2,3,7,8-PeCDF	ND	0.00005	0.000081	ug/L			-				
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000042	ug/L			-				
2,3,4,7,8-PeCDF	ND	0.00005	0.000094	ug/L			-				
2,3,7,8-TCDD	ND	0.00005	0.000051	ug/L			-				
2,3,7,8-TCDF	ND	0.00001	0.000004	ug/L			-				
OCDD	ND	0.0001	0.000011	ug/L			-				
OCDF	ND	0.0001	0.000015	ug/L			-				
Total HpCDD	ND	0.00005	0.000092	ug/L			-				
Total HpCDF	ND	0.00005	0.000072	ug/L			-				
Total HxCDD	ND	0.00005	0.000049	ug/L			-				
Total HxCDF	2e-006	0.00005	0.000042	ug/L			-				J, Q
Total PeCDD	ND	0.00005	0.000012	ug/L			-				
Total PeCDF	ND	0.00005	0.000061	ug/L			-				
Total TCDD	ND	0.00005	0.000051	ug/L			-				
Total TCDF	ND	0.00001	0.000004	ug/L			-				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0011			ug/L	0.002		52	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0012			ug/L	0.002		59	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00098			ug/L	0.002		49	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00086			ug/L	0.002		43	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00091			ug/L	0.002		46	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0012			ug/L	0.002		58	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.001			ug/L	0.002		53	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.001			ug/L	0.002		52	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00086			ug/L	0.002		43	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00086			ug/L	0.002		43	24-185			

#### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 33243 Extracted: 02/02/10</b>											
<b>Blank Analyzed: 02/04/2010 (G0B020000243B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0011			ug/L	0.002		54	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00086			ug/L	0.002		43	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00087			ug/L	0.002		44	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00087			ug/L	0.002		44	24-169			
Surrogate: 13C-OCDD	0.0019			ug/L	0.004		48	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00068			ug/L	0.0008		85	35-197			
<b>LCS Analyzed: 02/04/2010 (G0B020000243C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00111	0.00005	0.0000098	ug/L	0.001		111	70-140			
1,2,3,4,6,7,8-HpCDF	0.00115	0.00005	0.0000084	ug/L	0.001		115	82-122			
1,2,3,4,7,8,9-HpCDF	0.00118	0.00005	0.0000014	ug/L	0.001		118	78-138			
1,2,3,4,7,8-HxCDD	0.00111	0.00005	0.0000036	ug/L	0.001		111	70-164			
1,2,3,4,7,8-HxCDF	0.00111	0.00005	0.0000065	ug/L	0.001		111	72-134			
1,2,3,6,7,8-HxCDD	0.00109	0.00005	0.0000031	ug/L	0.001		109	76-134			
1,2,3,6,7,8-HxCDF	0.00116	0.00005	0.0000057	ug/L	0.001		116	84-130			B
1,2,3,7,8,9-HxCDD	0.00101	0.00005	0.0000026	ug/L	0.001		101	64-162			
1,2,3,7,8,9-HxCDF	0.00111	0.00005	0.0000006	ug/L	0.001		111	78-130			
1,2,3,7,8-PeCDD	0.0011	0.00005	0.0000084	ug/L	0.001		110	70-142			
1,2,3,7,8-PeCDF	0.00115	0.00005	0.0000065	ug/L	0.001		115	80-134			
2,3,4,6,7,8-HxCDF	0.00112	0.00005	0.0000051	ug/L	0.001		112	70-156			
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000074	ug/L	0.001		115	68-160			
2,3,7,8-TCDD	0.000187	0.00001	0.0000003	ug/L	0.0002		93	67-158			
2,3,7,8-TCDF	0.000215	0.00001	0.0000023	ug/L	0.0002		107	75-158			
OCDD	0.00216	0.0001	0.0000025	ug/L	0.002		108	78-144			
OCDF	0.00223	0.0001	0.0000015	ug/L	0.002		112	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00161			ug/L	0.002		80	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00188			ug/L	0.002		94	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00162			ug/L	0.002		81	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		73	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		78	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00189			ug/L	0.002		94	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00161			ug/L	0.002		81	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00167			ug/L	0.002		84	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00144			ug/L	0.002		72	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00141			ug/L	0.002		71	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00176			ug/L	0.002		88	28-136			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 33243 Extracted: 02/02/10</b>											
<b>LCS Analyzed: 02/04/2010 (G0B020000243C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00145			ug/L	0.002		72	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00138			ug/L	0.002		69	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		65	24-169			
Surrogate: 13C-OCDD	0.00314			ug/L	0.004		79	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000739			ug/L	0.0008		92	35-197			
<b>LCS Dup Analyzed: 02/04/2010 (G0B020000243L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00109	0.00005	0.00001	ug/L	0.001		109	70-140	1.6	50	
1,2,3,4,6,7,8-HpCDF	0.00116	0.00005	0.000009	ug/L	0.001		116	82-122	0.1	50	
1,2,3,4,7,8,9-HpCDF	0.00118	0.00005	0.000014	ug/L	0.001		118	78-138	0.4	50	
1,2,3,4,7,8-HxCDD	0.00107	0.00005	0.0000039	ug/L	0.001		107	70-164	4	50	
1,2,3,4,7,8-HxCDF	0.00114	0.00005	0.0000039	ug/L	0.001		114	72-134	2.4	50	
1,2,3,6,7,8-HxCDD	0.00117	0.00005	0.0000034	ug/L	0.001		117	76-134	7.7	50	
1,2,3,6,7,8-HxCDF	0.00118	0.00005	0.0000034	ug/L	0.001		118	84-130	1.4	50	B
1,2,3,7,8,9-HxCDD	0.00107	0.00005	0.0000029	ug/L	0.001		107	64-162	5.5	50	
1,2,3,7,8,9-HxCDF	0.00112	0.00005	0.0000034	ug/L	0.001		112	78-130	0.84	50	
1,2,3,7,8-PeCDD	0.00111	0.00005	0.0000095	ug/L	0.001		111	70-142	0.78	50	
1,2,3,7,8-PeCDF	0.00114	0.00005	0.0000054	ug/L	0.001		114	80-134	0.59	50	
2,3,4,6,7,8-HxCDF	0.00111	0.00005	0.0000032	ug/L	0.001		111	70-156	0.08	50	
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000063	ug/L	0.001		115	68-160	0.35	50	
2,3,7,8-TCDD	0.000199	0.00001	0.0000032	ug/L	0.0002		100	67-158	6.4	50	
2,3,7,8-TCDF	0.000211	0.00001	0.0000028	ug/L	0.0002		106	75-158	1.6	50	
OCDD	0.00221	0.0001	0.000015	ug/L	0.002		110	78-144	2.1	50	
OCDF	0.00232	0.0001	0.000027	ug/L	0.002		116	63-170	4	50	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00139			ug/L	0.002		69	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00151			ug/L	0.002		76	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00114			ug/L	0.002		57	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0012			ug/L	0.002		60	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00144			ug/L	0.002		72	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00129			ug/L	0.002		64	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00138			ug/L	0.002		69	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00116			ug/L	0.002		58	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00117			ug/L	0.002		58	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00142			ug/L	0.002		71	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00118			ug/L	0.002		59	21-178			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1818

Sampled: 01/21/10  
 Received: 01/21/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 33243 Extracted: 02/02/10</b>											
<b>LCS Dup Analyzed: 02/04/2010 (G0B020000243L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.00112			ug/L	0.002		56	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	24-169			
Surrogate: 13C-OCDD	0.00265			ug/L	0.004		66	17-157			
Surrogate: 37C14-2,3,7,8-TCDD	0.000705			ug/L	0.0008		88	35-197			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1818

Sampled: 01/21/10  
Received: 01/21/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1818

Sampled: 01/21/10  
Received: 01/21/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITA1818-02

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

**Chain of Custody Record**

ITA1818

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Alex Fischl Tel: 925-627-4627		Site Contact: Shelby Valenzuela Lab Contact: Joe Doak		Date: 1/21/10 Carrier: COVER		COC No: _____ Job No: 1008067.1121101	
Analysis Turnaround Time		Calendar (C) or Work Days (W) <u>W</u>		Total Suspended Solids by 2540		Dioxin by 1613		SDG No: L.F. 2/10 L.P. 2/10	
TAT if different from Below		X <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Copper, total by 200.8		Lead, total by 200.8		Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample			
HZSW0005001				Water		X	X	X	CYNH1, DRG1-AR
HZSW0004001				Water		X	X	X	DRG1-AR
HZSW0005001	1/21/10	09:27	POLY	Water	2	H	H	H	CYN-1
HZSW0006001				Water		X	X	X	CYN1, DRG1-AR
HZSW0007001				Water		X	X	X	HVS-1, 2A, 2B-1, 2B-2, 2C, 2D-2
HZSW0008001				Water		X	X	X	HVS-1-AR
HZSW0009001				Water		H	H	H	HVS-1-AR
HZSW0010001				Water		H	H	H	HVS-3, 4-AR
HZSW0011001	1/21/10	11:08	POLY AMBER	Water	4	X	X	X	HVS-3, 4
HZSW0012001				Water		X	X	X	HVS-2C-AR
HZSW0013001				Water		H	H	H	HVS-2C-AR
HZSW0014001				Water		X	X	X	HVS-2B-1, 2B-2-AR

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Relinquished by: <i>Alfonso M. P...</i>	Company: MWH	Received by: <i>[Signature]</i>	Company: TA	Date/Time: 1/21/10 14:33	Date/Time: 1-21-10 14:33
Relinquished by: <i>[Signature]</i>	Company: TA	Received by: <i>[Signature]</i>	Company: TA	Date/Time: 1-21-10 18:00	Date/Time: 1/21/10 18:00
Relinquished by: _____	Company: _____	Received by: _____	Company: _____	Date/Time: _____	Date/Time: _____

D25



## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project: N/A Boeing-MWH  
OF008 ISRA Performance  
Sampling  
Sampled: 01/22/10  
Received: 01/22/10  
Issued: 02/17/10 17:25

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 2 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

ADDITIONAL  
INFORMATION:

Revised report to include Lead on sample ITA1968-02 per chain of custody.

**LABORATORY ID**

ITA1968-01  
ITA1968-02  
ITA1968-03  
ITA1968-04

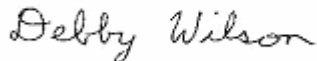
**CLIENT ID**

HZSW0005S002  
HZSW0012S001  
HZSW0014S001  
HZSW0019S001

**MATRIX**

Water  
Water  
Water  
Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1968

Sampled: 01/22/10  
 Received: 01/22/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1968-02 (HZSW0012S001 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1914	0.20	1.0	ND	1	02/16/10	02/17/10	
<b>Sample ID: ITA1968-03 (HZSW0014S001 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10A2318	0.50	2.0	<b>5.2</b>	1	01/25/10	01/28/10	B
Lead	EPA 200.8	10A2318	0.20	1.0	<b>1.8</b>	1	01/25/10	01/28/10	B

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1968

Sampled: 01/22/10  
Received: 01/22/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITA1968-02 (HZSW0012S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2930	1.0	10	7.0	1	01/29/10	01/29/10	J
<b>Sample ID: ITA1968-03 (HZSW0014S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10A2930	1.0	10	61	1	01/29/10	01/29/10	

### TestAmerica Irvine

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Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1968

Sampled: 01/22/10  
 Received: 01/22/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2318 Extracted: 01/25/10</b>											
<b>Blank Analyzed: 01/28/2010 (10A2318-BLK1)</b>											
Copper	0.773	2.0	0.50	ug/l							J
Lead	0.312	1.0	0.20	ug/l							J
<b>LCS Analyzed: 01/28/2010 (10A2318-BS1)</b>											
Copper	81.5	2.0	0.50	ug/l	80.0		102	85-115			
Lead	79.9	1.0	0.20	ug/l	80.0		100	85-115			
<b>Matrix Spike Analyzed: 01/28/2010 (10A2318-MS1) Source: ITA1845-06</b>											
Copper	87.3	10	2.5	ug/l	80.0	10.1	97	70-130			
Lead	75.7	5.0	1.0	ug/l	80.0	3.23	91	70-130			
<b>Matrix Spike Analyzed: 01/28/2010 (10A2318-MS2) Source: ITA1845-07</b>											
Copper	91.0	10	2.5	ug/l	80.0	5.84	106	70-130			
Lead	73.2	5.0	1.0	ug/l	80.0	1.51	90	70-130			
<b>Matrix Spike Dup Analyzed: 01/28/2010 (10A2318-MSD1) Source: ITA1845-06</b>											
Copper	86.7	10	2.5	ug/l	80.0	10.1	96	70-130	0.7	20	
Lead	73.9	5.0	1.0	ug/l	80.0	3.23	88	70-130	2	20	
<b>Batch: 10B1914 Extracted: 02/16/10</b>											
<b>Blank Analyzed: 02/16/2010 (10B1914-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/16/2010 (10B1914-BS1)</b>											
Lead	79.6	1.0	0.20	ug/l	80.0		99	85-115			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1968

Sampled: 01/22/10  
 Received: 01/22/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1914 Extracted: 02/16/10</b>											
<b>Matrix Spike Analyzed: 02/16/2010 (10B1914-MS1)</b>						<b>Source: ITB0984-01</b>					
Lead	80.1	1.0	0.20	ug/l	80.0	1.40	98	70-130			
<b>Matrix Spike Analyzed: 02/16/2010 (10B1914-MS2)</b>						<b>Source: ITB1589-03</b>					
Lead	78.0	1.0	0.20	ug/l	80.0	0.623	97	70-130			
<b>Matrix Spike Dup Analyzed: 02/16/2010 (10B1914-MSD1)</b>						<b>Source: ITB0984-01</b>					
Lead	83.7	1.0	0.20	ug/l	80.0	1.40	103	70-130	4	20	

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITA1968

Sampled: 01/22/10  
 Received: 01/22/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10A2930 Extracted: 01/29/10</b>											
<b>Blank Analyzed: 01/29/2010 (10A2930-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 01/29/2010 (10A2930-BS1)</b>											
Total Suspended Solids	995	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 01/29/2010 (10A2930-DUP1)</b>											
Total Suspended Solids	7.00	10	1.0	mg/l		Source: ITA1975-01 7.00			0	10	J

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MWH-Walnut Creek  
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Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1968

Sampled: 01/22/10  
Received: 01/22/10

## 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.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Rich Andrachek

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITA1968

Sampled: 01/22/10  
Received: 01/22/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
None	Water		
SM 2540D	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](http://www.testamericainc.com)*

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

# Chain of Custody Record

27A1968

TestAmerica Laboratories, Inc.

<b>Client Contact</b> MWH 2121 N. California Blvd. Suite 600 Walnut Creek, CA 94596 Phone: 925-627-4500 FAX: 925-627-4501 Project Name: OF008 ISRA Performance Sampling Site: Outfall 008 P O #		<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627 Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Shelby Valenzuela</b> Lab Contact: Joe Doak Date: 1-22-2010 Carrier: _____ COC No: _____ of 2 COCs Job No. _____ SDG No. _____		<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627 Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Shelby Valenzuela</b> Lab Contact: Joe Doak Date: 1-22-2010 Carrier: _____ COC No: _____ of 2 COCs Job No. _____ SDG No. _____			
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Copper, total by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
MWB HZSW0001S001			Water	Water		X	X	X	X	X	CYN-1, DRG-1
MWB HZSW0004S001			Water	Water		H	H	H	H	H	DRG-1
MWB HZSW0005S001	1-22-10	8:38	Water	Water	1	H	H	H	H	H	CYN-1
MWB HZSW0006S001			Water	Water		X	X	X	X	X	CYN-1, DRG-1
MWB HZSW0007S001			Water	Water		X	X	X	X	X	HVS-1, 2A, 2B-1, 2B-2, 2C, 2D-1, 2D-2, 3
MWB HZSW0008S001			Water	Water		X	X	X	X	X	HVS-1
MWB HZSW0009S001			Water	Water		H	H	H	H	H	HVS-1
MWB HZSW0010S001			Water	Water		H	H	H	H	H	HVS-3, -4
MWB HZSW0011S001			Water	Water		X	X	X	X	X	HVS-3, -4
MWB HZSW0012S001	1-22-10	12:16	Water	Water	2	X	X	X	X	X	HVS-2C
MWB HZSW0013S001	1-22-10	11:19	Water	Water		H	H	H	H	H	HVS-2C
MWB HZSW0014S001			Water	Water		X	X	X	X	X	HVS-2B-1, -2B-2
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____ Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Relinquished by: <i>Walter A. Milroy-Barnis</i> Relinquished by: <i>Walter A. Milroy-Barnis</i> Relinquished by: <i>Walter A. Milroy-Barnis</i>						Received by: <i>[Signature]</i> Received by: <i>[Signature]</i> Received by: <i>[Signature]</i>					
Company: MWH Company: TA Company: TA						Company: TA Company: TA Company: TA					
Date/Time: 1-22-10 14:59 Date/Time: 1-22-10 18:45 Date/Time: 1-22-10 18:45						Date/Time: 1-22-10 15:00 Date/Time: 1-22-10 18:45 Date/Time: 1-22-10 18:45					

Special Instructions/QC Requirements & Comments:  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD

4.3

**Chain of Custody Record**

TestAmerica Laboratories, Inc.

**Irvine**  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

**Client Contact**  
MWH  
2121 N. California Blvd. Suite 600  
Walnut Creek, CA 94596  
Phone: 925-627-4500  
FAX: 925-627-4501  
Project Name: OF008 ISRA Performance Sampling  
Site: Outfall 008  
P O #

**Project Manager:** Alex Fischl  
Tel: 925-627-4627  
Analysis Turnaround Time  
Calendar (C) or Work Days (W)  
TAT if different from Below  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact:** Shelby Valenzuela  
**Lab Contact:** Joe Doak

**Date:** -22-2010  
**Carrier:**

**COC No:** 2 of 2 COCs  
**Job No.:**  
**SDG No.:**

**Sample Specific Notes:**

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Copper, total by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540
MWB <del>HZSW0015001</del>			Water	Water		H	H	H		
MWB <del>HZSW00165001</del>			Water	Water		H	H	H		
MWB <del>HZSW00175001</del>			Water	Water		X	X	X		
MWB <del>HZSW00185001</del>			Water	Water		H	H	H		
HZSW00195001	1-22-10	09:19	Water	Water	2	H	H	H		

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month )**  
 Return To Client  Sposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD

**Relinquished by:** Margaret S. Wilson - Basis  
**Relinquished by:** Mark C. Smith  
**Relinquished by:**

**Received by:** [Signature]  
**Received by:** [Signature]  
**Received by:** [Signature]

**Company:** MWH  
**Company:** TA  
**Company:**

**Date/Time:** 1-22-10 14:59  
**Date/Time:** 1-22-10 18:45  
**Date/Time:**

**Date/Time:** 1-22-10 15:00  
**Date/Time:**  
**Date/Time:** 1-22-10 18:48

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 NASA Performance  
Sampling  
Sampled: 02/05/10  
Received: 02/05/10  
Issued: 02/22/10 11:33

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

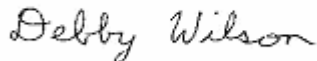
ADDITIONAL  
INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

LABORATORY ID	CLIENT ID	MATRIX
ITB0820-01	A2SW0002S002	Water
ITB0820-02	A2SW0006S001	Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0820

Sampled: 02/05/10  
Received: 02/05/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0820-01 (A2SW0002S002 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1571	0.20	1.0	12	1	02/12/10	02/16/10	
<b>Sample ID: ITB0820-02 (A2SW0006S001 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1571	0.40	2.0	17	2	02/12/10	02/16/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0820-01 (A2SW0002S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1607	1.0	10	46	1	02/12/10	02/12/10	
<b>Sample ID: ITB0820-02 (A2SW0006S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1607	1.0	10	250	1	02/12/10	02/12/10	

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0820-01 (A2SW0002S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000048	0.000005	<b>0.0002</b>	0.99	02/15/10	02/17/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000059	0.000005	<b>3.2e-005</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000075	0.000005	ND	0.99	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.000003	0.000005	<b>4.7e-006</b>	0.99	02/15/10	02/17/10	J, Q, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000032	0.000005	ND	0.99	02/15/10	02/17/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000027	0.000005	<b>8.9e-006</b>	0.99	02/15/10	02/17/10	J, Q, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000029	0.000005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000023	0.000005	<b>1e-005</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000024	0.000005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000066	0.000005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000026	0.000005	ND	0.99	02/15/10	02/17/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000024	0.000005	ND	0.99	02/15/10	02/17/10	
OCDD	EPA-5 1613B	46266	0.0000088	0.0000099	<b>0.0024</b>	0.99	02/15/10	02/17/10	B
OCDF	EPA-5 1613B	46266	0.0000051	0.0000099	<b>8.2e-005</b>	0.99	02/15/10	02/17/10	J, B
Total HpCDD	EPA-5 1613B	46266	0.0000048	0.000005	<b>0.00041</b>	0.99	02/15/10	02/17/10	B
Total PeCDD	EPA-5 1613B	46266	0.0000066	0.000005	ND	0.99	02/15/10	02/17/10	
Total PeCDF	EPA-5 1613B	46266	0.0000026	0.000005	<b>9.5e-006</b>	0.99	02/15/10	02/17/10	J, Q, B
Total TCDD	EPA-5 1613B	46266	0.0000023	0.0000099	<b>2.8e-006</b>	0.99	02/15/10	02/17/10	J, Q
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000029	0.000005	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000023	0.0000099	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.000002	0.0000099	ND	0.99	02/15/10	02/17/10	
Total HpCDF	EPA-5 1613B	46266	0.0000059	0.000005	<b>7.7e-005</b>	0.99	02/15/10	02/17/10	J, B
Total HxCDD	EPA-5 1613B	46266	0.0000023	0.000005	<b>5.5e-005</b>	0.99	02/15/10	02/17/10	J, Q, B
Total HxCDF	EPA-5 1613B	46266	0.0000024	0.000005	<b>1.3e-005</b>	0.99	02/15/10	02/17/10	J, Q, B
Total TCDF	EPA-5 1613B	46266	0.000002	0.0000099	ND	0.99	02/15/10	02/17/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	65 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	58 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	57 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	53 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	46 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	51 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	47 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	50 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	50 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	51 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	53 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	52 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	45 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	46 %
Surrogate: 13C-OCDD (17-157%)	73 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	86 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0820-02 (A2SW0006S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.000007	0.00005	<b>0.00056</b>	0.99	02/15/10	02/17/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000044	0.00005	<b>6.8e-005</b>	0.99	02/15/10	02/17/10	B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000062	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000031	0.00005	<b>8.4e-006</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000026	0.00005	<b>4e-006</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.000003	0.00005	<b>1.9e-005</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000024	0.00005	<b>2.4e-006</b>	0.99	02/15/10	02/17/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000025	0.00005	<b>2.1e-005</b>	0.99	02/15/10	02/17/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000021	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000065	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000031	0.00005	ND	0.99	02/15/10	02/17/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000023	0.00005	ND	0.99	02/15/10	02/17/10	
OCDD	EPA-5 1613B	46266	0.000011	0.000099	<b>0.0082</b>	0.99	02/15/10	02/17/10	B
OCDF	EPA-5 1613B	46266	0.0000049	0.000099	<b>0.0003</b>	0.99	02/15/10	02/17/10	B
Total HpCDD	EPA-5 1613B	46266	0.000007	0.00005	<b>0.0013</b>	0.99	02/15/10	02/17/10	B
Total PeCDD	EPA-5 1613B	46266	0.0000065	0.00005	ND	0.99	02/15/10	02/17/10	
Total PeCDF	EPA-5 1613B	46266	0.0000031	0.00005	<b>1.4e-005</b>	0.99	02/15/10	02/17/10	J, Q, B
Total TCDD	EPA-5 1613B	46266	0.0000014	0.0000099	ND	0.99	02/15/10	02/17/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000034	0.00005	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000014	0.0000099	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000016	0.0000099	ND	0.99	02/15/10	02/17/10	
Total HpCDF	EPA-5 1613B	46266	0.0000044	0.00005	<b>0.00022</b>	0.99	02/15/10	02/17/10	B
Total HxCDD	EPA-5 1613B	46266	0.0000025	0.00005	<b>0.00013</b>	0.99	02/15/10	02/17/10	J, Q, B
Total HxCDF	EPA-5 1613B	46266	0.0000021	0.00005	<b>4.5e-005</b>	0.99	02/15/10	02/17/10	J, Q, B
Total TCDF	EPA-5 1613B	46266	0.0000016	0.0000099	ND	0.99	02/15/10	02/17/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 79 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 79 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 71 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 63 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 67 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 69 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 62 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 64 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 50 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 51 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 64 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 52 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 59 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 62 %  
 Surrogate: 13C-OCDD (17-157%) 84 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 89 %

### TestAmerica Irvine

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 Project Manager

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Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1571 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/15/2010 (10B1571-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/15/2010 (10B1571-BS1)</b>											
Lead	83.1	1.0	0.20	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1571-MS1)</b>											
						<b>Source: ITB0573-01</b>					
Lead	84.2	1.0	0.20	ug/l	80.0	0.339	105	70-130			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1571-MS2)</b>											
						<b>Source: ITB0729-01</b>					
Lead	77.2	1.0	0.20	ug/l	80.0	0.446	96	70-130			
<b>Matrix Spike Dup Analyzed: 02/15/2010 (10B1571-MSD1)</b>											
						<b>Source: ITB0573-01</b>					
Lead	80.7	1.0	0.20	ug/l	80.0	0.339	100	70-130	4	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1607 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/12/2010 (10B1607-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/12/2010 (10B1607-BS1)</b>											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 02/12/2010 (10B1607-DUP1)</b>											
Total Suspended Solids	14.0	10	1.0	mg/l		Source: ITB0863-01 14.0			0	10	

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.000029	ug/L			-				J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.000036	ug/L			-				J, Q
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.000035	ug/L			-				J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.000028	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.000032	ug/L			-				J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.000024	ug/L			-				J
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.000027	ug/L			-				J, Q
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.000023	ug/L			-				J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.000033	ug/L			-				J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.000024	ug/L			-				J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.000025	ug/L			-				J
OCDD	0.000029	0.0001	0.000044	ug/L			-				J
OCDF	0.000019	0.0001	0.000038	ug/L			-				J, Q
Total HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
Total PeCDD	0.000016	0.00005	0.000033	ug/L			-				J, Q
Total PeCDF	0.000022	0.00005	0.000024	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.000017	ug/L			-				
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.000026	ug/L			-				J
2,3,7,8-TCDD	ND	0.00001	0.000017	ug/L			-				
2,3,7,8-TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Total HpCDF	0.000025	0.00005	0.000029	ug/L			-				J, Q
Total HxCDD	0.000031	0.00005	0.000027	ug/L			-				J, Q
Total HxCDF	0.000041	0.00005	0.000023	ug/L			-				J, Q
Total TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56	24-185			

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Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.001		100	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.001		101	82-122			B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.001		99	78-138			B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.001		112	70-164			B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.001		106	72-134			B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.001		102	76-134			B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.001		98	84-130			B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	64-162			B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.001		96	78-130			B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.001		101	70-142			B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.001		104	80-134			B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.001		99	70-156			B
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002		97	78-144			B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002		92	63-170			B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.001		104	68-160			B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.0002		100	75-158			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			

**TestAmerica Irvine**

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Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.001		105	70-140	4.4	50	B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.001		102	82-122	1.3	50	B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.001		101	78-138	2.1	50	B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.001		108	70-164	4	50	B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.001		108	72-134	1.2	50	B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.001		106	76-134	4.5	50	B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.001		103	84-130	4.3	50	B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.001		104	64-162	0.14	50	B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	78-130	8.2	50	B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.001		107	70-142	6.2	50	B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.001		110	80-134	5.9	50	B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	70-156	6.6	50	B
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002		100	78-144	2.3	50	B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002		92	63-170	0.06	50	B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.001		107	68-160	3.6	50	B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002		101	67-158	1.4	50	
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.0002		103	75-158	3.1	50	B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00127			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00997			ug/L	0.002		50	13-328			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0820

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
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Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0820

Sampled: 02/05/10  
Received: 02/05/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**ITB0820 <Page 12 of 13>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0820

Sampled: 02/05/10  
Received: 02/05/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITB0820-01, ITB0820-02

### TestAmerica Irvine

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Project Manager

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**Chain of Custody Record**

Project Manager: Alex Fischl  
 Tel: 925-627-4627  
 Site Contact: Shelby Valenzuela  
 Lab Contact: Joe Doak  
 Carrier: \_\_\_\_\_

COG No: 2-5-10 of 1 COCs  
 Job No. \_\_\_\_\_  
 SDG No. \_\_\_\_\_

Analysis Turnaround Time  
 Calendar (C) or Work Days (W)  
 TAT if different from Below

2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont.

MWB A2SW0001S002 | 2-5-10 | 09:50 | Water | Water | 3

MWB A2SW0002S002 | 2-5-10 | 09:50 | Water | Water | 3

MWB A2SW0003S001 | 2-5-10 | 09:10 | Water | Water | 3

A2SW0006 S001

Sample Specific Notes:  
 Upgradient: A2LF-3  
 Primary Downgradient: A2LF-3  
 Upgradient: A2LF-1  
 Primary Downgradient: A2LF-1  
 Upgradient east, A2LF-2

Filtered Sample | Lead, total by 2008 | Dioxin by 1613 | Total Suspended Solids by 2539

Return To Client  | Sposal By Lab  | Archive For \_\_\_\_\_ Months

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other  
 Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD

Relinquished by: Margareta Wilson-Bania  
 Relinquished by: Alex Fischl  
 Relinquished by: \_\_\_\_\_

Company: MWH  
 Company: Test America  
 Company: \_\_\_\_\_

Date/Time: 2-5-10/14:29  
 Date/Time: 2-5-10/19:24  
 Date/Time: \_\_\_\_\_

Received by: Alex Fischl  
 Received by: \_\_\_\_\_  
 Received by: \_\_\_\_\_

Company: Test America  
 Company: TAT  
 Company: \_\_\_\_\_

Date/Time: 2-5-10 14:24  
 Date/Time: 2/10/10 1000  
 Date/Time: \_\_\_\_\_

Company: Test America  
 Company: M257  
 Company: \_\_\_\_\_

Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_



## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF008 ISRA Performance  
Sampling  
Sampled: 02/05/10  
Received: 02/05/10  
Issued: 02/22/10 13:06

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL  
INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

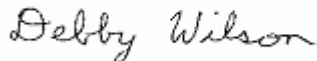
Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

**LABORATORY ID**  
ITB0846-01

**CLIENT ID**  
HZSW0003S003

**MATRIX**  
Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0846

Sampled: 02/05/10  
Received: 02/05/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0846-01 (HZSW0003S003 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10B1598	1.0	4.0	19	2	02/12/10	02/15/10	
Lead	EPA 200.8	10B1598	0.40	2.0	19	2	02/12/10	02/15/10	

### TestAmerica Irvine

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Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0846

Sampled: 02/05/10  
Received: 02/05/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0846-01 (HZSW0003S003 - Water)</b>									
Reporting Units: mg/l									
<b>Total Suspended Solids</b>	SM 2540D	10B1648	1.0	10	<b>150</b>	1	02/12/10	02/12/10	

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Project Manager

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MWH-Walnut Creek  
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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0846-01 (HZSW0003S003 - Water)</b>									
Reporting Units: ug/L									
<b>1,2,3,4,6,7,8-HpCDD</b>	EPA-5 1613B	46266	0.0000071	0.00005	<b>1.2e-005</b>	1	02/15/10	02/17/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000065	0.00005	ND	1	02/15/10	02/17/10	
<b>2,3,7,8-TCDF</b>	EPA-5 1613B	46266	0.0000029	0.00001	<b>3.6e-006</b>	1	02/15/10	02/17/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000091	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000061	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000044	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000058	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.000004	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000047	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000039	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.00001	0.00005	ND	1	02/15/10	02/17/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000054	0.00005	ND	1	02/15/10	02/17/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.000004	0.00005	ND	1	02/15/10	02/17/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000062	0.00005	ND	1	02/15/10	02/17/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000028	0.00001	ND	1	02/15/10	02/17/10	
<b>OCDD</b>	EPA-5 1613B	46266	0.000011	0.0001	<b>6.1e-005</b>	1	02/15/10	02/17/10	J, B
<b>OCDF</b>	EPA-5 1613B	46266	0.0000093	0.0001	<b>6.6e-006</b>	1	02/15/10	02/17/10	J, Q, B
<b>Total HpCDD</b>	EPA-5 1613B	46266	0.0000071	0.00005	<b>2.4e-005</b>	1	02/15/10	02/17/10	J, B
Total HpCDF	EPA-5 1613B	46266	0.0000065	0.00005	ND	1	02/15/10	02/17/10	
<b>Total HxCDD</b>	EPA-5 1613B	46266	0.0000047	0.00005	<b>7.8e-006</b>	1	02/15/10	02/17/10	J, Q, B
Total HxCDF	EPA-5 1613B	46266	0.0000039	0.00005	ND	1	02/15/10	02/17/10	
<b>Total PeCDD</b>	EPA-5 1613B	46266	0.00001	0.00005	<b>2.4e-005</b>	1	02/15/10	02/17/10	J, Q, B
<b>Total PeCDF</b>	EPA-5 1613B	46266	0.0000034	0.00005	<b>1.2e-005</b>	1	02/15/10	02/17/10	J, Q, B
<b>Total TCDD</b>	EPA-5 1613B	46266	0.0000028	0.00001	<b>5.7e-006</b>	1	02/15/10	02/17/10	J, Q
<b>Total TCDF</b>	EPA-5 1613B	46266	0.0000029	0.00001	<b>1.5e-005</b>	1	02/15/10	02/17/10	J, Q, B

Surrogate: 13C-2,3,7,8-TCDF (24-169%)	35 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	89 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	42 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	38 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	36 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	32 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	34 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	34 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	33 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	33 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	27 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	27 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	32 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	27 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	31 %
Surrogate: 13C-OCDD (17-157%)	42 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0846-01RE1 (HZSW0003S003 - Water) - cont.</b>									
<b>Reporting Units: ug/L</b>									
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000048	0.00001	ND	1	02/15/10	02/19/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>					42 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>					87 %				

**TestAmerica Irvine**

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 Project Manager

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 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1598 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/15/2010 (10B1598-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/15/2010 (10B1598-BS1)</b>											
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1) Source: ITB0888-01</b>											
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2) Source: ITB0900-02</b>											
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
<b>Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1) Source: ITB0888-01</b>											
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1648 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/12/2010 (10B1648-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/12/2010 (10B1648-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/12/2010 (10B1648-DUP1)</b>											
Total Suspended Solids	35.0	10	1.0	mg/l		Source: ITB1069-01 36.0			3	10	

**TestAmerica Irvine**

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 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>										
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.0000034	ug/L			-			J
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.0000029	ug/L			-			J
2,3,7,8-TCDF	0.0000025	0.00001	0.0000013	ug/L			-			J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.0000036	ug/L			-			J, Q
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.0000035	ug/L			-			J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.0000028	ug/L			-			J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.0000032	ug/L			-			J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.0000024	ug/L			-			J
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.0000027	ug/L			-			J, Q
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.0000023	ug/L			-			J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.0000033	ug/L			-			J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.0000024	ug/L			-			J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.0000025	ug/L			-			J
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.0000026	ug/L			-			J
2,3,7,8-TCDD	ND	0.00001	0.0000017	ug/L			-			
OCDD	0.000029	0.0001	0.0000044	ug/L			-			J
OCDF	0.000019	0.0001	0.0000038	ug/L			-			J, Q
Total HpCDD	0.000014	0.00005	0.0000034	ug/L			-			J
Total HpCDF	0.000025	0.00005	0.0000029	ug/L			-			J, Q
Total HxCDD	0.000031	0.00005	0.0000027	ug/L			-			J, Q
Total HxCDF	0.000041	0.00005	0.0000023	ug/L			-			J, Q
Total PeCDD	0.000016	0.00005	0.0000033	ug/L			-			J, Q
Total PeCDF	0.000022	0.00005	0.0000024	ug/L			-			J, Q
Total TCDD	ND	0.00001	0.0000017	ug/L			-			
Total TCDF	0.0000025	0.00001	0.0000013	ug/L			-			J
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169		
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73	29-147		

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.001		100	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.001		101	82-122			B
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.0002		100	75-158			B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.001		99	78-138			B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.001		112	70-164			B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.001		106	72-134			B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.001		102	76-134			B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.001		98	84-130			B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	64-162			B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.001		96	78-130			B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.001		101	70-142			B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.001		104	80-134			B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.001		99	70-156			B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.001		104	68-160			B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002		100	67-158			
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002		97	78-144			B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002		92	63-170			B
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846  
 Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.001		105	70-140	4.4	50	B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.001		102	82-122	1.3	50	B
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.0002		103	75-158	3.1	50	B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.001		101	78-138	2.1	50	B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.001		108	70-164	4	50	B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.001		108	72-134	1.2	50	B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.001		106	76-134	4.5	50	B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.001		103	84-130	4.3	50	B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.001		104	64-162	0.14	50	B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	78-130	8.2	50	B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.001		107	70-142	6.2	50	B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.001		110	80-134	5.9	50	B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	70-156	6.6	50	B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.001		107	68-160	3.6	50	B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002		101	67-158	1.4	50	
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002		100	78-144	2.3	50	B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002		92	63-170	0.06	50	B
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00127			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0846

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000997			ug/L	0.002		50	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
<b>Blank Analyzed: 02/19/2010 (G0B15000266B2)</b>											
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00064			ug/L	0.0008		80	35-197			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0846

Sampled: 02/05/10  
Received: 02/05/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**ITB0846 <Page 12 of 13>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0846

Sampled: 02/05/10  
Received: 02/05/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB0846-01, ITB0846-01RE1

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**Chain of Custody Record**

27B0846

Project Manager: Alex Fischl Tel: 925-627-4627		Site Contact: Shelby Valenzuela Lab Contact: Joe Doak		Date: 2-5-10	COC No: 1 of 2 COCs
Analysis Turnaround Time Calendar (C) or Work Days (W)		Carrier:			
TAT: if different from below		Total Suspended Solids by 2540			
<input checked="" type="checkbox"/> 2 weeks		Dioxin by 1613			
<input type="checkbox"/> 1 week		Lead, total by 200.8			
<input type="checkbox"/> 2 days		Copper, total by 200.8			
<input type="checkbox"/> 1 day		Filtered Sample			
Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
2-5-10	13:00		Water	3	Primary Downgradient, CYN-1, DRG-1
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Secondary Downgradient, DRG-1</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, DRG-1</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, CYN-1, DRG-1</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Primary Downgradient (at HVS)</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, HVS-1</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Secondary Downgradient, HVS-1</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Secondary Downgradient, HVS-3</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, HVS-3</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, HVS-2C</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Secondary Downgradient, HVS-2C</del>
<del>MWB</del>	<del></del>	<del></del>	<del>Water</del>	<del></del>	<del>Upgradient, HVS-2B-1, HVS-2B-2</del>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					
Special Instructions/QC Requirements & Comments: Please email data to Alexander.Fischl@mwhtglobal.com and post to Total Access Bill MWH-Arcadia					
Report Level II Data Package and provide EDD all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold					
Relinquished by: Margaret Milway-Barria	Company: MWH	Date/Time: 2-5-10 14:24	Received by: [Signature]	Company: Test America	Date/Time: 2-5-10 14:24
Relinquished by: [Signature]	Company: Test America	Date/Time: 2-5-10 19:24	Received by: [Signature]	Company: [Signature]	Date/Time: 2-5-10 19:24
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

8:15  
2/6/10

2.9 M257

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 Boeing Performance  
Sampling  
Sampled: 02/05/10  
Received: 02/05/10  
Issued: 02/23/10 08:21

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: WATER, 1613B, Dioxins/Furans with Totals

Samples: 5, 6

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There are no other anomalies associated with this project.

LABORATORY ID	CLIENT ID	MATRIX
ITB0848-01	A1SW0002S003	Water
ITB0848-02	A1SW0003S002	Water
ITB0848-03	A1SW0004S003	Water
ITB0848-04	A1SW0005S003	Water
ITB0848-05	A1SW0006S002	Water
ITB0848-06	A1SW0007S002	Water

Reviewed By:



TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848  
 Sampled: 02/05/10  
 Received: 02/05/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0848-01 (A1SW0002S003 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1598	0.20	1.0	<b>11</b>	1	02/12/10	02/15/10	
<b>Sample ID: ITB0848-02 (A1SW0003S002 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1598	0.20	1.0	<b>2.3</b>	1	02/12/10	02/15/10	
<b>Sample ID: ITB0848-03 (A1SW0004S003 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B1552	0.10	0.20	ND	1	02/12/10	02/12/10	
Cadmium	EPA 200.8	10B1598	0.20	2.0	<b>0.21</b>	2	02/12/10	02/15/10	RL1, J
Copper	EPA 200.8	10B1598	1.0	4.0	<b>9.9</b>	2	02/12/10	02/15/10	
Lead	EPA 200.8	10B1598	0.40	2.0	<b>6.9</b>	2	02/12/10	02/15/10	
<b>Sample ID: ITB0848-04 (A1SW0005S003 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B1552	0.10	0.20	ND	1	02/12/10	02/12/10	
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Copper	EPA 200.8	10B1598	0.50	2.0	<b>11</b>	1	02/12/10	02/15/10	
Lead	EPA 200.8	10B1598	0.20	1.0	<b>15</b>	1	02/12/10	02/15/10	

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0848-01 (A1SW0002S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	55	1	02/12/10	02/12/10	
<b>Sample ID: ITB0848-02 (A1SW0003S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	18	1	02/12/10	02/12/10	
<b>Sample ID: ITB0848-03 (A1SW0004S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	180	1	02/12/10	02/12/10	
<b>Sample ID: ITB0848-04 (A1SW0005S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	100	1	02/12/10	02/12/10	
<b>Sample ID: ITB0848-05 (A1SW0006S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	15	1	02/12/10	02/12/10	
<b>Sample ID: ITB0848-06 (A1SW0007S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1573	1.0	10	24	1	02/12/10	02/12/10	

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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0848-05 (A1SW0006S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.000005	0.00005	2.3e-005	0.99	02/15/10	02/17/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.000005	0.00005	8.6e-006	0.99	02/15/10	02/17/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000067	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000081	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000054	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000074	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000051	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000062	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000057	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.000008	0.00005	ND	0.99	02/15/10	02/17/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000032	0.00005	ND	0.99	02/15/10	02/17/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000046	0.00005	ND	0.99	02/15/10	02/17/10	
OCDD	EPA-5 1613B	46266	0.0000064	0.000099	0.00015	0.99	02/15/10	02/17/10	B
OCDF	EPA-5 1613B	46266	0.0000036	0.000099	2.8e-005	0.99	02/15/10	02/17/10	J, B
Total HxCDF	EPA-5 1613B	46266	0.0000046	0.00005	ND	0.99	02/15/10	02/17/10	
Total PeCDD	EPA-5 1613B	46266	0.000008	0.00005	ND	0.99	02/15/10	02/17/10	
Total PeCDF	EPA-5 1613B	46266	0.0000032	0.00005	ND	0.99	02/15/10	02/17/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000036	0.00005	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000022	0.0000099	ND	0.99	02/15/10	02/17/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000018	0.0000099	ND	0.99	02/15/10	02/17/10	
Total HpCDD	EPA-5 1613B	46266	0.000005	0.00005	5e-005	0.99	02/15/10	02/17/10	J, B
Total HpCDF	EPA-5 1613B	46266	0.000005	0.00005	2.1e-005	0.99	02/15/10	02/17/10	J, Q, B
Total HxCDD	EPA-5 1613B	46266	0.0000062	0.00005	ND	0.99	02/15/10	02/17/10	
Total TCDD	EPA-5 1613B	46266	0.0000022	0.0000099	ND	0.99	02/15/10	02/17/10	
Total TCDF	EPA-5 1613B	46266	0.0000018	0.0000099	ND	0.99	02/15/10	02/17/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	72 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	71 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	66 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	87 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	83 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	81 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	76 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	70 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	67 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	81 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	69 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	66 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	64 %
Surrogate: 13C-OCDD (17-157%)	81 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	88 %

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0848-06 (A1SW0007S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000042	0.000049	4.8e-005	0.98	02/15/10	02/17/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000035	0.000049	1.6e-005	0.98	02/15/10	02/17/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000049	0.000049	ND	0.98	02/15/10	02/17/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000033	0.000049	3.4e-006	0.98	02/15/10	02/17/10	J, Q, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000025	0.000049	3.8e-006	0.98	02/15/10	02/17/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000031	0.000049	4.7e-006	0.98	02/15/10	02/17/10	J, Q, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000024	0.000049	3.1e-006	0.98	02/15/10	02/17/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000025	0.000049	3.9e-006	0.98	02/15/10	02/17/10	J, Q, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000021	0.000049	2.8e-006	0.98	02/15/10	02/17/10	J, B
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000054	0.000049	ND	0.98	02/15/10	02/17/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000028	0.000049	2.3e-006	0.98	02/15/10	02/17/10	J, Q, B
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000002	0.000049	3.5e-006	0.98	02/15/10	02/17/10	J, B
OCDD	EPA-5 1613B	46266	0.0000083	0.000098	0.00035	0.98	02/15/10	02/17/10	B
OCDF	EPA-5 1613B	46266	0.0000055	0.000098	4.7e-005	0.98	02/15/10	02/17/10	J, B
Total HxCDF	EPA-5 1613B	46266	0.0000021	0.000049	1.3e-005	0.98	02/15/10	02/17/10	J, Q, B
Total PeCDD	EPA-5 1613B	46266	0.0000054	0.000049	7.3e-006	0.98	02/15/10	02/17/10	J, Q, B
Total PeCDF	EPA-5 1613B	46266	0.0000028	0.000049	5.1e-006	0.98	02/15/10	02/17/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000033	0.000049	ND	0.98	02/15/10	02/17/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.000018	0.0000098	ND	0.98	02/15/10	02/17/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000012	0.0000098	ND	0.98	02/15/10	02/17/10	
Total HpCDD	EPA-5 1613B	46266	0.0000042	0.000049	0.00012	0.98	02/15/10	02/17/10	J, B
Total HpCDF	EPA-5 1613B	46266	0.0000035	0.000049	3.8e-005	0.98	02/15/10	02/17/10	J, B
Total HxCDD	EPA-5 1613B	46266	0.0000025	0.000049	1.7e-005	0.98	02/15/10	02/17/10	J, Q, B
Total TCDD	EPA-5 1613B	46266	0.0000018	0.0000098	ND	0.98	02/15/10	02/17/10	
Total TCDF	EPA-5 1613B	46266	0.0000012	0.0000098	ND	0.98	02/15/10	02/17/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	77 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	75 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	67 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	66 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	63 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	75 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	63 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	57 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	49 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	69 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	48 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	56 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	62 %
Surrogate: 13C-OCDD (17-157%)	70 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	88 %

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 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848  
 Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 10B1552 Extracted: 02/12/10</u></b>											
<b>Blank Analyzed: 02/12/2010 (10B1552-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 02/12/2010 (10B1552-BS1)</b>											
Mercury	8.35	0.20	0.10	ug/l	8.00		104	85-115			
<b>Matrix Spike Analyzed: 02/12/2010 (10B1552-MS1)</b>											
						<b>Source: ITB0681-01</b>					
Mercury	6.52	0.20	0.10	ug/l	8.00	ND	81	70-130			
<b>Matrix Spike Dup Analyzed: 02/12/2010 (10B1552-MSD1)</b>											
						<b>Source: ITB0681-01</b>					
Mercury	6.51	0.20	0.10	ug/l	8.00	ND	81	70-130	0.04	20	
<b><u>Batch: 10B1598 Extracted: 02/12/10</u></b>											
<b>Blank Analyzed: 02/15/2010 (10B1598-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/15/2010 (10B1598-BS1)</b>											
Cadmium	82.4	1.0	0.10	ug/l	80.0		103	85-115			
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1)</b>											
						<b>Source: ITB0888-01</b>					
Cadmium	79.9	1.0	0.10	ug/l	80.0	ND	100	70-130			
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			

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Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1598 Extracted: 02/12/10</b>											
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2)</b>						<b>Source: ITB0900-02</b>					
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
<b>Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1)</b>						<b>Source: ITB0888-01</b>					
Cadmium	80.8	1.0	0.10	ug/l	80.0	ND	101	70-130	1	20	
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1573 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/12/2010 (10B1573-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/12/2010 (10B1573-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/12/2010 (10B1573-DUP1)</b>											
Total Suspended Solids	8.00	10	1.0	mg/l		Source: ITB1088-07 8.00			0	10	J

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Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.000029	ug/L			-				J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.000036	ug/L			-				J, Q
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.000035	ug/L			-				J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.000028	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.000032	ug/L			-				J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.000024	ug/L			-				J
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.000027	ug/L			-				J, Q
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.000023	ug/L			-				J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.000033	ug/L			-				J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.000024	ug/L			-				J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.000025	ug/L			-				J
OCDD	0.000029	0.0001	0.000044	ug/L			-				J
OCDF	0.000019	0.0001	0.000038	ug/L			-				J, Q
Total HxCDF	0.000041	0.00005	0.000023	ug/L			-				J, Q
Total PeCDD	0.000016	0.00005	0.000033	ug/L			-				J, Q
Total PeCDF	0.000022	0.00005	0.000024	ug/L			-				J, Q
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.000026	ug/L			-				J
2,3,7,8-TCDD	ND	0.00001	0.000017	ug/L			-				
2,3,7,8-TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Total HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
Total HpCDF	0.000025	0.00005	0.000029	ug/L			-				J, Q
Total HxCDD	0.000031	0.00005	0.000027	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.000017	ug/L			-				
Total TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56	24-185			

### TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848  
 Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.002	0	0	70-140			a, B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.002	0	0	82-122			a, B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.002	0	0	78-138			a, B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.002	0	0	70-164			a, B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.002	0	0	72-134			a, B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.002	0	0	76-134			a, B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.002	0	0	84-130			a, B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.002	0	0	64-162			a, B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.002	0	0	78-130			a, B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.002	0	0	70-142			a, B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.002	0	0	80-134			a, B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.002	0	0	70-156			a, B
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002	0	0	78-144			a, B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002	0	0	63-170			a, B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.002	0	0	68-160			a, B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002	100	100	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.002	0	0	75-158			a, B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.000177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.002	0	70-140	4.4	50		a, B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.002	0	82-122	1.3	50		a, B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.002	0	78-138	2.1	50		a, B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.002	0	70-164	4	50		a, B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.002	0	72-134	1.2	50		a, B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.002	0	76-134	4.5	50		a, B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.002	0	84-130	4.3	50		a, B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.002	0	64-162	0.14	50		a, B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.002	0	78-130	8.2	50		a, B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.002	0	70-142	6.2	50		a, B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.002	0	80-134	5.9	50		a, B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.002	0	70-156	6.6	50		a, B
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002	0	78-144	2.3	50		a, B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002	0	63-170	0.06	50		a, B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.002	0	68-160	3.6	50		a, B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002	101	67-158	1.4	50		
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.002	0	75-158	3.1	50		a, B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	1270			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000997			ug/L	0.002		50	13-328			

**TestAmerica Irvine**

Heather Clark For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0848

Sampled: 02/05/10  
 Received: 02/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			

TestAmerica Irvine

Heather Clark For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITB0848

Sampled: 02/05/10  
Received: 02/05/10

## DATA QUALIFIERS AND DEFINITIONS

- a** Spiked analyte recovery is outside stated control limits.
- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- RL1** Reporting limit raised due to sample matrix effects.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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**ITB0848 <Page 13 of 14>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITB0848

Sampled: 02/05/10  
Received: 02/05/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITB0848-05, ITB0848-06

### TestAmerica Irvine

Heather Clark For Joseph Doak  
Project Manager

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**Chain of Custody Record**

ZTB0848

**Irvine**  
17461 Dertian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 2-5-10</b>		<b>COC No:</b>	
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		___ of ___ COCs	
2121 N. California Blvd. Suite 600		Analysis Turnaround Time		Total Suspended Solids by 2540					
Walnut Creek, CA 94596		Calendar (C) or Work Days (W)		Dioxin by 1613					
Phone: 925-627-4500		TAT if different from Below _____		Mercury, total by 245.1					
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks		Lead, total by 200.8					
Project Name: OF009 Boeing Performance Sampling		<input type="checkbox"/> 1 week		Copper, total by 200.8					
Site: Outfall 009		<input type="checkbox"/> 2 days		Cadmium, total by 200.8					
P O #		<input type="checkbox"/> 1 day		Filtered Sample					
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:			
MWB <del>LXSW0001S002</del>	2-5-10	11:36	Water	Water	2	Upgradient, CM-3			
MWB <del>LXSW0002S002</del>	2-5-10	11:49	Water	Water	2	Primary Downgradient, CM-3			
AISW0002S003	2-5-10	10:26	Water	Water	2	Upgradient, CM-8			
AISW0003S002	2-5-10	10:37	Water	Water	2	Primary Downgradient, CM-8			
AISW0004S003	2-5-10	10:59	Water	Water	2	Upgradient, CM-9			
AISW0005S003	2-5-10	11:14	Water	Water	2	Primary Downgradient, CM-9			
AISW0006S002						Upgradient, CM-11			
AISW0007S002						Primary Downgradient, CM-11			

MWB

8:25  
2/6/10  
MD

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_  
Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Sposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD

Relinquished by: Margaret Milugin-Barria	Company: MWH	Received by: [Signature]	Company: TEST America	Date/Time: 2-5-10 14:29	Date/Time: 2-5-10 14:24
Relinquished by: [Signature]	Company: TEST America	Received by: [Signature]	Company: TPT	Date/Time: 2-5-10 11:20	Date/Time: 2-5-10 14:20
Relinquished by: [Signature]	Company:	Received by:	Company:	Date/Time:	Date/Time:

29 M 257

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF008 ISRA Performance  
Sampling  
Sampled: 02/06/10  
Received: 02/06/10  
Issued: 02/22/10 12:01

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 3 pages, are included and are an integral part of this report.*

*This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

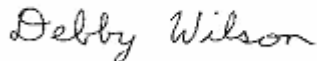
ADDITIONAL  
INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

LABORATORY ID	CLIENT ID	MATRIX
ITB0898-02	HZSW0005S003	Water
ITB0898-03	HZSW0007S003	Water
ITB0898-06	HZSW0017S001	Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0898

Sampled: 02/06/10  
Received: 02/06/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0898-03 (HZSW0007S003 - Water)</b>					<b>Sampled: 02/06/10</b>				
Reporting Units: ug/l									
Copper	EPA 200.8	10B1598	0.50	2.0	<b>6.9</b>	1	02/12/10	02/15/10	
Lead	EPA 200.8	10B1598	0.20	1.0	<b>3.1</b>	1	02/12/10	02/15/10	
<b>Sample ID: ITB0898-06 (HZSW0017S001 - Water)</b>					<b>Sampled: 02/06/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10B1598	0.40	2.0	<b>14</b>	2	02/12/10	02/15/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0898-02 (HZSW0005S003 - Water)</b>					<b>Sampled: 02/06/10</b>				
Reporting Units: mg/l									
<b>Total Suspended Solids</b>	SM 2540D	10B1648	1.0	10	<b>5.0</b>	1	02/12/10	02/12/10	J
<b>Sample ID: ITB0898-03 (HZSW0007S003 - Water)</b>					<b>Sampled: 02/06/10</b>				
Reporting Units: mg/l									
<b>Total Suspended Solids</b>	SM 2540D	10B1648	1.0	10	<b>22</b>	1	02/12/10	02/12/10	
<b>Sample ID: ITB0898-06 (HZSW0017S001 - Water)</b>					<b>Sampled: 02/06/10</b>				
Reporting Units: mg/l									
<b>Total Suspended Solids</b>	SM 2540D	10B1648	1.0	10	<b>76</b>	1	02/12/10	02/12/10	

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898  
 Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0898-02 (HZSW0005S003 - Water)</b>					<b>Sampled: 02/06/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	48124	0.0000012	0.00005	1.1e-005	1	02/17/10	02/19/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	48124	0.0000074	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	48124	0.0000041	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	48124	0.0000056	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	48124	0.0000023	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	48124	0.0000048	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	48124	0.0000021	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	48124	0.0000028	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	48124	0.0000043	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	48124	0.0000064	0.00005	ND	1	02/17/10	02/19/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	48124	0.0000036	0.00005	ND	1	02/17/10	02/19/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	48124	0.0000021	0.00005	ND	1	02/17/10	02/19/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	48124	0.0000043	0.00005	ND	1	02/17/10	02/19/10	
2,3,7,8-TCDD	EPA-5 1613B	48124	0.0000004	0.00001	ND	1	02/17/10	02/19/10	
2,3,7,8-TCDF	EPA-5 1613B	48124	0.0000046	0.00001	ND	1	02/17/10	02/19/10	
OCDD	EPA-5 1613B	48124	0.0000013	0.0001	7.1e-005	1	02/17/10	02/19/10	J, B
OCDF	EPA-5 1613B	48124	0.0000064	0.0001	2e-006	1	02/17/10	02/19/10	J, Q, B
Total HpCDD	EPA-5 1613B	48124	0.0000012	0.00005	5.7e-005	1	02/17/10	02/19/10	J, B
Total HpCDF	EPA-5 1613B	48124	0.0000041	0.00005	1.1e-006	1	02/17/10	02/19/10	J, Q, B
Total HxCDD	EPA-5 1613B	48124	0.0000043	0.00005	2.5e-006	1	02/17/10	02/19/10	J, Q
Total HxCDF	EPA-5 1613B	48124	0.0000021	0.00005	ND	1	02/17/10	02/19/10	
Total TCDF	EPA-5 1613B	48124	0.0000046	0.00001	ND	1	02/17/10	02/19/10	
Total PeCDD	EPA-5 1613B	48124	0.0000064	0.00005	ND	1	02/17/10	02/19/10	
Total PeCDF	EPA-5 1613B	48124	0.0000036	0.00005	ND	1	02/17/10	02/19/10	
Total TCDD	EPA-5 1613B	48124	0.0000004	0.00001	ND	1	02/17/10	02/19/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 95 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 90 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 87 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 81 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 89 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 91 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 89 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 85 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 84 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 83 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 80 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 95 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 69 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 79 %  
 Surrogate: 13C-OCDD (17-157%) 97 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 94 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0898-03 (HZSW0007S003 - Water)</b>					<b>Sampled: 02/06/10</b>				
<b>Reporting Units: ug/L</b>									
<b>1,2,3,4,6,7,8-HpCDD</b>	EPA-5 1613B	46266	0.0000041	0.000049	<b>9.6e-006</b>	0.98	02/15/10	02/18/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000046	0.000049	ND	0.98	02/15/10	02/18/10	
<b>1,2,3,4,6,7,8-HpCDF</b>	EPA-5 1613B	46266	0.0000032	0.000049	<b>3e-006</b>	0.98	02/15/10	02/18/10	J, Q, B
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000029	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000021	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000026	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.000002	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.000002	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000022	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000042	0.000049	ND	0.98	02/15/10	02/18/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000031	0.000049	ND	0.98	02/15/10	02/18/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000018	0.000049	ND	0.98	02/15/10	02/18/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000035	0.000049	ND	0.98	02/15/10	02/18/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000023	0.0000098	ND	0.98	02/15/10	02/18/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000016	0.0000098	ND	0.98	02/15/10	02/18/10	
<b>OCDD</b>	EPA-5 1613B	46266	0.0000039	0.000098	<b>8e-005</b>	0.98	02/15/10	02/18/10	J, B
<b>OCDF</b>	EPA-5 1613B	46266	0.0000047	0.000098	<b>6.8e-006</b>	0.98	02/15/10	02/18/10	J, B
<b>Total HpCDD</b>	EPA-5 1613B	46266	0.0000041	0.000049	<b>2.4e-005</b>	0.98	02/15/10	02/18/10	J, Q, B
<b>Total HpCDF</b>	EPA-5 1613B	46266	0.0000032	0.000049	<b>5.4e-006</b>	0.98	02/15/10	02/18/10	J, Q, B
Total HxCDD	EPA-5 1613B	46266	0.0000022	0.000049	ND	0.98	02/15/10	02/18/10	
Total HxCDF	EPA-5 1613B	46266	0.0000018	0.000049	ND	0.98	02/15/10	02/18/10	
Total TCDF	EPA-5 1613B	46266	0.0000016	0.0000098	ND	0.98	02/15/10	02/18/10	
<b>Total PeCDD</b>	EPA-5 1613B	46266	0.0000042	0.000049	<b>6.6e-006</b>	0.98	02/15/10	02/18/10	J, Q, B
Total PeCDF	EPA-5 1613B	46266	0.0000031	0.000049	ND	0.98	02/15/10	02/18/10	
Total TCDD	EPA-5 1613B	46266	0.0000023	0.0000098	ND	0.98	02/15/10	02/18/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	76 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	75 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	74 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	67 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	73 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	63 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	69 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	67 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	55 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	58 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	61 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	74 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	68 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	60 %
Surrogate: 13C-OCDD (17-157%)	70 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	88 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0898-06 (HZSW0017S001 - Water)</b>					<b>Sampled: 02/06/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000052	0.000005	1e-005	1	02/15/10	02/18/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000054	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.000004	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000046	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.000003	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000041	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000031	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.000003	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000034	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000058	0.000005	ND	1	02/15/10	02/18/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.000003	0.000005	ND	1	02/15/10	02/18/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.000003	0.000005	ND	1	02/15/10	02/18/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000037	0.000005	ND	1	02/15/10	02/18/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000026	0.000001	ND	1	02/15/10	02/18/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000024	0.000001	ND	1	02/15/10	02/18/10	
<b>OCDD</b>	EPA-5 1613B	46266	0.0000097	0.0001	3.6e-005	1	02/15/10	02/18/10	J, Q, B
<b>OCDF</b>	EPA-5 1613B	46266	0.0000081	0.0001	4.2e-006	1	02/15/10	02/18/10	J, Q, B
<b>Total HpCDD</b>	EPA-5 1613B	46266	0.0000052	0.000005	1.7e-005	1	02/15/10	02/18/10	J, Q, B
Total HpCDF	EPA-5 1613B	46266	0.000004	0.000005	ND	1	02/15/10	02/18/10	
<b>Total HxCDD</b>	EPA-5 1613B	46266	0.0000034	0.000005	3.5e-006	1	02/15/10	02/18/10	J, Q, B
Total HxCDF	EPA-5 1613B	46266	0.000003	0.000005	ND	1	02/15/10	02/18/10	
Total TCDF	EPA-5 1613B	46266	0.0000024	0.000001	ND	1	02/15/10	02/18/10	
<b>Total PeCDD</b>	EPA-5 1613B	46266	0.0000058	0.000005	1.3e-005	1	02/15/10	02/18/10	J, Q, B
<b>Total PeCDF</b>	EPA-5 1613B	46266	0.000003	0.000005	3.4e-006	1	02/15/10	02/18/10	J, Q, B
Total TCDD	EPA-5 1613B	46266	0.0000026	0.000001	ND	1	02/15/10	02/18/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 67 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 64 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 68 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 59 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 64 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 53 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 62 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 59 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 47 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 50 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 53 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 61 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 58 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 50 %  
 Surrogate: 13C-OCDD (17-157%) 57 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 87 %

### TestAmerica Irvine

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 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1598 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/15/2010 (10B1598-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/15/2010 (10B1598-BS1)</b>											
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1) Source: ITB0888-01</b>											
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2) Source: ITB0900-02</b>											
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
<b>Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1) Source: ITB0888-01</b>											
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
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MWH-Walnut Creek  
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 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1648 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/12/2010 (10B1648-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/12/2010 (10B1648-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/12/2010 (10B1648-DUP1)</b>											
Total Suspended Solids	35.0	10	1.0	mg/l		Source: ITB1069-01 36.0			3	10	

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MWH-Walnut Creek  
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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.0000034	ug/L			-				J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.0000036	ug/L			-				J, Q
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.0000029	ug/L			-				J
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.0000035	ug/L			-				J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.0000028	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.0000032	ug/L			-				J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.0000024	ug/L			-				J
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.0000023	ug/L			-				J, Q
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.0000027	ug/L			-				J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.0000033	ug/L			-				J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.0000024	ug/L			-				J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.0000025	ug/L			-				J
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.0000026	ug/L			-				J
2,3,7,8-TCDD	ND	0.00001	0.0000017	ug/L			-				
2,3,7,8-TCDF	0.0000025	0.00001	0.0000013	ug/L			-				J
OCDD	0.000029	0.0001	0.0000044	ug/L			-				J
OCDF	0.000019	0.0001	0.0000038	ug/L			-				J, Q
Total HpCDD	0.000014	0.00005	0.0000034	ug/L			-				J
Total HpCDF	0.000025	0.00005	0.0000029	ug/L			-				J, Q
Total HxCDD	0.000031	0.00005	0.0000027	ug/L			-				J, Q
Total HxCDF	0.000041	0.00005	0.0000023	ug/L			-				J, Q
Total TCDF	0.0000025	0.00001	0.0000013	ug/L			-				J
Total PeCDD	0.000016	0.00005	0.0000033	ug/L			-				J, Q
Total PeCDF	0.000022	0.00005	0.0000024	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.0000017	ug/L			-				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85				23-140
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80				28-143
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70				26-152
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81				26-138
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67				28-130
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66				32-141
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69				26-123
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73				29-147
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55				25-181
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56				24-185

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.001		100	70-140			B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.001		99	78-138			B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.001		101	82-122			B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.001		112	70-164			B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.001		106	72-134			B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.001		102	76-134			B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.001		98	84-130			B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.001		96	78-130			B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	64-162			B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.001		101	70-142			B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.001		104	80-134			B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.001		99	70-156			B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.001		104	68-160			B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.0002		100	75-158			B
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002		97	78-144			B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002		92	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898  
 Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.001		105	70-140	4.4	50	B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.001		101	78-138	2.1	50	B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.001		102	82-122	1.3	50	B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.001		108	70-164	4	50	B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.001		108	72-134	1.2	50	B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.001		106	76-134	4.5	50	B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.001		103	84-130	4.3	50	B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	78-130	8.2	50	B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.001		104	64-162	0.14	50	B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.001		107	70-142	6.2	50	B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.001		110	80-134	5.9	50	B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	70-156	6.6	50	B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.001		107	68-160	3.6	50	B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002		101	67-158	1.4	50	
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.0002		103	75-158	3.1	50	B
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002		100	78-144	2.3	50	B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002		92	63-170	0.06	50	B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	1280			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00127			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898  
 Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000997			ug/L	0.002		50	13-328			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			
<b>Batch: 48124 Extracted: 02/17/10</b>											
<b>Blank Analyzed: 02/18/2010 (G0B170000124B)</b>											
1,2,3,4,6,7,8-HpCDD	0.0000023	0.00005	0.0000011	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000069	ug/L				-			
1,2,3,4,6,7,8-HpCDF	0.0000006	0.00005	0.0000004	ug/L				-			J, Q
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000006	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.00000036	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000005	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.00000031	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000004	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.00000046	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.00000057	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.00000044	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.00000031	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.00000052	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.00000046	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.00000047	ug/L				-			
OCDD	0.000023	0.0001	0.00000084	ug/L				-			J
OCDF	0.00000072	0.0001	0.0000008	ug/L				-			J, Q
Total HpCDD	0.000013	0.00005	0.0000011	ug/L				-			J, Q
Total HpCDF	0.0000011	0.00005	0.0000004	ug/L				-			J, Q
Total HxCDD	ND	0.00005	0.00000046	ug/L				-			
Total HxCDF	ND	0.00005	0.00000031	ug/L				-			
Total TCDF	ND	0.00001	0.00000047	ug/L				-			
Total PeCDD	ND	0.00005	0.00000057	ug/L				-			
Total PeCDF	ND	0.00005	0.00000016	ug/L				-			
Total TCDD	ND	0.00001	0.00000046	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		92	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0017			ug/L	0.002		86	28-143			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0016			ug/L	0.002		82	26-152			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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**Batch: 48124 Extracted: 02/17/10**

**Blank Analyzed: 02/18/2010 (G0B170000124B)**

**Source:**

Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		79	26-138			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0017			ug/L	0.002		86	28-130			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0017			ug/L	0.002		87	32-141			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0017			ug/L	0.002		86	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0016			ug/L	0.002		81	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0016			ug/L	0.002		80	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0015			ug/L	0.002		75	24-185			
Surrogate: 13C-2,3,7,8-TCDD	0.0014			ug/L	0.002		71	25-164			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0018			ug/L	0.002		90	28-136			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		63	24-169			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		74	21-178			
Surrogate: 13C-OCDD	0.0039			ug/L	0.004		98	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00072			ug/L	0.0008		90	35-197			

**LCS Analyzed: 02/19/2010 (G0B170000124C)**

**Source:**

1,2,3,4,6,7,8-HpCDD	0.00111	0.00005	0.0000021	ug/L	0.001		111	70-140			B
1,2,3,4,7,8,9-HpCDF	0.00125	0.00005	0.0000004	ug/L	0.001		125	78-138			
1,2,3,4,6,7,8-HpCDF	0.00113	0.00005	0.0000023	ug/L	0.001		113	82-122			B
1,2,3,4,7,8-HxCDD	0.00128	0.00005	0.0000013	ug/L	0.001		128	70-164			
1,2,3,4,7,8-HxCDF	0.00119	0.00005	0.0000019	ug/L	0.001		119	72-134			
1,2,3,6,7,8-HxCDD	0.00109	0.00005	0.0000011	ug/L	0.001		109	76-134			
1,2,3,6,7,8-HxCDF	0.00114	0.00005	0.0000017	ug/L	0.001		114	84-130			
1,2,3,7,8,9-HxCDF	0.00118	0.00005	0.0000022	ug/L	0.001		118	78-130			
1,2,3,7,8,9-HxCDD	0.00102	0.00005	0.00000097	ug/L	0.001		102	64-162			
1,2,3,7,8-PeCDD	0.00112	0.00005	0.0000013	ug/L	0.001		112	70-142			
1,2,3,7,8-PeCDF	0.00114	0.00005	0.0000014	ug/L	0.001		114	80-134			
2,3,4,6,7,8-HxCDF	0.00116	0.00005	0.0000016	ug/L	0.001		116	70-156			
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000016	ug/L	0.001		115	68-160			
2,3,7,8-TCDD	0.000231	0.00001	0.00000063	ug/L	0.0002		115	67-158			
2,3,7,8-TCDF	0.000222	0.00001	0.00000048	ug/L	0.0002		111	75-158			
OCDD	0.00222	0.0001	0.0000034	ug/L	0.002		111	78-144			B
OCDF	0.0021	0.0001	0.0000025	ug/L	0.002		105	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00186			ug/L	0.002		93	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00176			ug/L	0.002		88	21-158			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00175			ug/L	0.002		87	19-202			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		80	20-186			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF008 ISRA Performance Sampling  
 Report Number: ITB0898

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 48124 Extracted: 02/17/10</b>											
<b>LCS Analyzed: 02/19/2010 (G0B170000124C)</b>											
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00189			ug/L	0.002		94	25-163			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00179			ug/L	0.002		89	21-193			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00177			ug/L	0.002		89	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00171			ug/L	0.002		85	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00174			ug/L	0.002		87	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00161			ug/L	0.002		81	21-192			
Surrogate: 13C-2,3,7,8-TCDD	0.00151			ug/L	0.002		76	20-175			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00192			ug/L	0.002		96	22-176			
Surrogate: 13C-2,3,7,8-TCDF	0.00139			ug/L	0.002		70	22-152			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00158			ug/L	0.002		79	13-328			
Surrogate: 13C-OCDD	0.00383			ug/L	0.004		96	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0898

Sampled: 02/06/10  
Received: 02/06/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**ITB0898 <Page 15 of 16>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF008 ISRA Performance Sampling  
Report Number: ITB0898

Sampled: 02/06/10  
Received: 02/06/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB0898-02, ITB0898-03, ITB0898-06

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**ITB0898 <Page 16 of 16>**

Revised  
ITB0898

**Chain of Custody Record**

Client Contact  
Project Manager: Alex Fischl  
Tel: 925-627-4627

Site Contact: Shelby Valenzuela  
Lab Contact: Joe Doak  
Date: \_\_\_\_\_  
Carrier: \_\_\_\_\_  
COC No: 1 of 2 COCs  
Job No. \_\_\_\_\_  
SDG No. \_\_\_\_\_

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Copper, total by 200.8	Lead, total by 200.8	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
HZSW0005S003	2/16/10	1104	1 polyn Amber	Water	2	X	X	X	X	X	Primary Downgradient, CYN-1, DRG-1
HZSW0004S002	2/16/10	1113	1 Amber	Water	2	X	X	X	X	X	Secondary Downgradient, DRG-1
HZSW0005S003	2/16/10	1025	1 Amber	Water	2	X	X	X	X	X	Upgradient, DRG-1
HZSW0006S001	2/16/10	1025	2 polyn Amber	Water	3	X	X	X	X	X	Upgradient, CYN-1, DRG-1
HZSW0007S003	2/16/10	1025	2 polyn Amber	Water	3	X	X	X	X	X	Primary Downgradient (all HVS)
HZSW0009S001	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Upgradient, HVS-1
HZSW0010S003	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Secondary Downgradient, HVS-1
HZSW0011S002	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Secondary Downgradient, HVS-3, -4
HZSW0012S002	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Upgradient, HVS-3
HZSW0013S001	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Upgradient, HVS-2C
HZSW0014S002	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Secondary Downgradient, HVS-2C
HZSW0015S002	2/16/10	0914	2 polyn Amber	Water	3	X	X	X	X	X	Upgradient, HVS-2B-1, HVS-2B-2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; (4=HN03); 5=NaOH; 6= Other  
Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant

Special Instructions/QC Requirements & Comments:  
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
Bill MWH-Arcadia  
Report Level II Data Package and provide EDD  
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: [Signature] Date/Time: 2/16/10 1357  
Relinquished by: [Signature] Date/Time: 2/16/10 2600  
Relinquished by: [Signature] Date/Time: 2/16/10 1430

Received by: [Signature] Date/Time: 2/16/10 2011  
Received by: [Signature] Date/Time: 2/16/10 2011

Return To Client  Spinal By Lab  Archive For \_\_\_\_\_ Months

\*Please run DIOXIN + TSS for HZSN0005S003 per K.M. 2/24/10

**Chain of Custody Record**

ITB 0898

TestAmerica Laboratories, Inc.

11 VIIIIC  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

Client Contact		Project Manager: Alex Fischl		Site Contact: Shelby Valenzuela		COC No.:	
Tel: 925-627-4627		Analysis Turnaround Time		Lab Contact: Joe Doak		1 of 2 COCs	
Calendar (C) or Work Days (W)		Sample Date		Date:		Job No.	
TAT if different from Below		Sample Time		Carrier:		SDG No.	
<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Type		Date:		Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Sample Specific Notes:
HZSW0005S003	2/6/10	10:04	1 <sup>st</sup> can	Water	2	X	Primary Downgradient, CYN-1, DRG-1
HZSW0004S002	2/6/10	11:13	1 <sup>st</sup> can	Water	2	X	Secondary Downgradient, DRG-1
HZSW0005S003	2/6/10	10:25	1 <sup>st</sup> can	Water	2	X	Upgradient, DRG-1
HZSW0006S001	2/6/10	10:25	2 <sup>nd</sup> can	Water	3	X	Upgradient, CYN-1, DRG-1
HZSW0007S003	2/6/10	10:25	2 <sup>nd</sup> can	Water	3	X	Primary Downgradient (all HVS)
HZSW0009S001	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Upgradient, HVS-1
HZSW0009S002	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Secondary Downgradient, HVS-1
HZSW0010S003	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Secondary Downgradient, HVS-3, -4
HZSW0011S002	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Upgradient, HVS-3
HZSW0012S002	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Upgradient, HVS-2C
HZSW0013S001	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Secondary Downgradient, HVS-2C
HZSW0014S002	2/6/10	09:14	2 <sup>nd</sup> can	Water	3	X	Upgradient, HVS-2B-1, HVS-2B-2

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by: *[Signature]* Date/Time: 2/6/10 17:00 Company: MWH  
 Relinquished by: *[Signature]* Date/Time: 2/6/10 2:00 Company: TAT  
 Relinquished by: *[Signature]* Date/Time: 2/6/10 14:30 Company: TAT

Received by: *[Signature]* Date/Time: 2/6/10 15:20 Company: TAT

Received by: *[Signature]* Date/Time: 2/6/10 14:30 Company: TAT

Received by: *[Signature]* Date/Time: 2/6/10 14:30 Company: TAT

2094

**Chain of Custody Record**

TestAmerica Laboratories, Inc.

17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

Client Contact		Project Manager: Alex Fischl Tel: 925-627-4627		Site Contact: Shelby Valenzuela		Date:	
MWH		Analysis Turnaround Time		Lab Contact: Joe Doak		Carrier:	
2121 N. California Blvd. Suite 600		Calendar (C) or Work Days (W)				COC No: 2 of 2 COCs	
Walnut Creek, CA 94596		TAT if different from Below				Job No.	
Phone: 925-627-4500		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				SDG No.	
FAX: 925-627-4501		Sample Date		Sample Time		Sample Type	
Project Name: OF008 ISRA Performance Sampling		Sample Date		Sample Time		Sample Type	
Site: Outfall 008		Sample Date		Sample Time		Sample Type	
P.O.#		Sample Date		Sample Time		Sample Type	
Sample Identification		Sample Date		Sample Time		Sample Type	
HZSW0015S001		2/6/10		1014		2 Poly	
HZSW0016S003		2/6/10		0944		2 Poly	
HZSW0017S001		2/6/10		1000		2 Poly	
HZSW0018S003							
<del>HZSW0019S002</del>		<del>2/6/10</del>		<del></del>		<del></del>	
Sample Specific Notes:		Filtered Sample		Copper, total by 200.8		Lead, total by 200.8	
Secondary Downgradient, HVS-2B-1, -2D		Water		H		H	
Secondary Downgradient, HVS-2B-1, -2		Water		H		H	
Upgradient, HVS-2A, HVS-2D		Water		X		X	
Secondary Downgradient, HVS-2A		Water		H		H	
Secondary Downgradient, CYN-1		Water		H		H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  isposal By Lab  Archive For \_\_\_\_\_ Months

292

Received by: <i>[Signature]</i>	Date/Time: 2/6/10 1357	Company: MWH
Received by: <i>[Signature]</i>	Date/Time: 2/6/10 1430	Company: TAA
Received by: <i>[Signature]</i>	Date/Time: 2/6/10 1700	Company: TAA

Special Instructions/QC Requirements & Comments:  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold



## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 NASA Performance  
Sampling  
Sampled: 02/06/10  
Received: 02/06/10  
Issued: 02/22/10 12:13

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 2 pages, are included and are an integral part of this report.  
This entire report was reviewed and approved for release.*

## SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL  
INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

**LABORATORY ID**

ITB0899-01

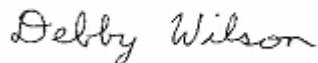
**CLIENT ID**

A2SW0001S002

**MATRIX**

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0899

Sampled: 02/06/10  
Received: 02/06/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0899-01 (A2SW0001S002 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B1834	0.40	2.0	<b>2.9</b>	2	02/15/10	02/17/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0899

Sampled: 02/06/10  
Received: 02/06/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0899-01 (A2SW0001S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1648	1.0	10	12	1	02/12/10	02/12/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0899-01 (A2SW0001S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000047	0.000051	1.3e-005	1.02	02/15/10	02/19/10	J, Q
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000032	0.000051	3.7e-006	1.02	02/15/10	02/19/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000047	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000036	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000022	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000033	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000021	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000027	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.000002	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000051	0.000051	ND	1.02	02/15/10	02/19/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000022	0.000051	ND	1.02	02/15/10	02/19/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.000002	0.000051	ND	1.02	02/15/10	02/19/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000025	0.000051	ND	1.02	02/15/10	02/19/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000018	0.00001	ND	1.02	02/15/10	02/19/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000012	0.00001	ND	1.02	02/15/10	02/19/10	
OCDD	EPA-5 1613B	46266	0.0000066	0.0001	0.00015	1.02	02/15/10	02/19/10	B
OCDF	EPA-5 1613B	46266	0.0000043	0.0001	1.1e-005	1.02	02/15/10	02/19/10	J, Q, B
Total HpCDD	EPA-5 1613B	46266	0.0000047	0.000051	2.9e-005	1.02	02/15/10	02/19/10	J, Q, B
Total HpCDF	EPA-5 1613B	46266	0.0000032	0.000051	8.5e-006	1.02	02/15/10	02/19/10	J, Q, B
Total HxCDD	EPA-5 1613B	46266	0.0000027	0.000051	ND	1.02	02/15/10	02/19/10	
Total HxCDF	EPA-5 1613B	46266	0.000002	0.000051	ND	1.02	02/15/10	02/19/10	
Total PeCDD	EPA-5 1613B	46266	0.0000051	0.000051	6.8e-006	1.02	02/15/10	02/19/10	J, Q, B
Total PeCDF	EPA-5 1613B	46266	0.0000022	0.000051	3.8e-006	1.02	02/15/10	02/19/10	J, Q, B
Total TCDD	EPA-5 1613B	46266	0.0000018	0.00001	ND	1.02	02/15/10	02/19/10	
Total TCDF	EPA-5 1613B	46266	0.0000012	0.00001	ND	1.02	02/15/10	02/19/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	97 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	91 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	81 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	84 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	92 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	84 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	87 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	85 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	70 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	87 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	71 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	75 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	85 %
Surrogate: 13C-OCDD (17-157%)	88 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	85 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1834 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (10B1834-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/16/2010 (10B1834-BS1)</b>											
Lead	76.0	1.0	0.20	ug/l	80.0		95	85-115			
<b>Matrix Spike Analyzed: 02/16/2010 (10B1834-MS1)</b>											
						<b>Source: ITB1082-03</b>					
Lead	66.6	1.0	0.20	ug/l	80.0	ND	83	70-130			
<b>Matrix Spike Analyzed: 02/16/2010 (10B1834-MS2)</b>											
						<b>Source: ITB1082-02</b>					
Lead	68.2	1.0	0.20	ug/l	80.0	1.44	83	70-130			
<b>Matrix Spike Dup Analyzed: 02/16/2010 (10B1834-MSD1)</b>											
						<b>Source: ITB1082-03</b>					
Lead	67.4	1.0	0.20	ug/l	80.0	ND	84	70-130	1	20	

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1648 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/12/2010 (10B1648-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/12/2010 (10B1648-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/12/2010 (10B1648-DUP1)</b>											
Total Suspended Solids	35.0	10	1.0	mg/l		Source: ITB1069-01 36.0			3	10	

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.000029	ug/L			-				J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.000036	ug/L			-				J, Q
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.000035	ug/L			-				J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.000028	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.000032	ug/L			-				J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.000024	ug/L			-				J
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.000027	ug/L			-				J, Q
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.000023	ug/L			-				J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.000033	ug/L			-				J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.000024	ug/L			-				J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.000025	ug/L			-				J
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.000026	ug/L			-				J
2,3,7,8-TCDD	ND	0.00001	0.000017	ug/L			-				
2,3,7,8-TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
OCDD	0.000029	0.0001	0.000044	ug/L			-				J
OCDF	0.000019	0.0001	0.000038	ug/L			-				J, Q
Total HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
Total HpCDF	0.000025	0.00005	0.000029	ug/L			-				J, Q
Total HxCDD	0.000031	0.00005	0.000027	ug/L			-				J, Q
Total HxCDF	0.000041	0.00005	0.000023	ug/L			-				J, Q
Total PeCDD	0.000016	0.00005	0.000033	ug/L			-				J, Q
Total PeCDF	0.000022	0.00005	0.000024	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.000017	ug/L			-				
Total TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85				23-140
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80				28-143
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81				26-138
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66				32-141
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70				26-152
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67				28-130
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69				26-123
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73				29-147
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55				25-181
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56				24-185

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.001		100	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.001		101	82-122			B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.001		99	78-138			B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.001		112	70-164			B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.001		106	72-134			B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.001		102	76-134			B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.001		98	84-130			B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	64-162			B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.001		96	78-130			B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.001		101	70-142			B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.001		104	80-134			B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.001		99	70-156			B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.001		104	68-160			B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.0002		100	75-158			B
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002		97	78-144			B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002		92	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.001		105	70-140	4.4	50	B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.001		102	82-122	1.3	50	B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.001		101	78-138	2.1	50	B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.001		108	70-164	4	50	B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.001		108	72-134	1.2	50	B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.001		106	76-134	4.5	50	B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.001		103	84-130	4.3	50	B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.001		104	64-162	0.14	50	B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	78-130	8.2	50	B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.001		107	70-142	6.2	50	B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.001		110	80-134	5.9	50	B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	70-156	6.6	50	B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.001		107	68-160	3.6	50	B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002		101	67-158	1.4	50	
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.0002		103	75-158	3.1	50	B
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002		100	78-144	2.3	50	B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002		92	63-170	0.06	50	B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00127			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000997			ug/L	0.002		50	13-328			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 NASA Performance Sampling  
 Report Number: ITB0899

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0899

Sampled: 02/06/10  
Received: 02/06/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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**ITB0899 <Page 11 of 12>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 NASA Performance Sampling  
Report Number: ITB0899

Sampled: 02/06/10  
Received: 02/06/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB0899-01

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**Client Contact**  
 MWH  
 2121 N. California Blvd. Suite 600  
 Walnut Creek, CA 94596  
 Phone: 925-827-4500  
 FAX: 925-827-4501  
 Project Name: OF009 NASA Performance Sampling  
 Site: Outfall 009  
 P O #

**Project Manager: Alex Fischl**  
 Tel: 925-627-4627

**Site Contact: Shelby Valenzuela**  
 Lab Contact: Joe Doak

**Carrier:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

**Analysis Turnaround Time**  
 Calendar (C) or Work Days (W) \_\_\_\_\_  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:
* A2SW0001S002	2/10/10	0745	Spots	Water	3	Run analysis Upgradient, A2LF-3
A2SW0002S002				Water		Primary Downgradient, A2LF-3
A2SW0003S001				Water		Upgradient, A2LF-1
A2SW0004S001				Water		Primary Downgradient, A2LF-1
<del>2/10/10 9:10 AM</del>						
<del>2/10/10 10:10 AM</del>						
<del>2/10/10 11:10 AM</del>						
<del>2/10/10 12:10 PM</del>						
<del>2/10/10 1:10 PM</del>						
<del>2/10/10 2:10 PM</del>						
<del>2/10/10 3:10 PM</del>						
<del>2/10/10 4:10 PM</del>						
<del>2/10/10 5:10 PM</del>						
<del>2/10/10 6:10 PM</del>						
<del>2/10/10 7:10 PM</del>						
<del>2/10/10 8:10 PM</del>						
<del>2/10/10 9:10 PM</del>						
<del>2/10/10 10:10 PM</del>						
<del>2/10/10 11:10 PM</del>						
<del>2/10/10 12:10 AM</del>						

**Filtered Sample**  
 Lead, total by 2008 \_\_\_\_\_  
 Boron by 1613 \_\_\_\_\_  
 Total Suspended Solids by 2539 \_\_\_\_\_

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Poison A  Archive For \_\_\_\_\_ Months

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Sposal By Lab

**Special Instructions/QC Requirements & Comments:**  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD

**Relinquished by:** *[Signature]* Date/Time: 2/10/10 13:57  
 Company: MWSA

**Relinquished by:** *[Signature]* Date/Time: 2/10/10 17:00  
 Company: TATZ

**Relinquished by:** *[Signature]* Date/Time: 2/10/10 17:00  
 Company: TATZ

**Received by:** *[Signature]* Date/Time: 2-10-10 18:30  
 Company: TATZ

**Received by:** *[Signature]* Date/Time: 2/10/10 17:00  
 Company: TATZ

**Received by:** *[Signature]* Date/Time: 2/10/10 17:00  
 Company: TATZ

**Special Notes:**  
 \* Please run A2SWOOD15002 for lead, DIOXINS and TSS. 2.91

Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

# Chain of Custody Record

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ITB0899

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date:</b>		<b>COC No:</b>		
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		___ of ___ COCs		
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>		Filtered Sample Lead, total by 200.8 Dioxin by 1613 Total Suspended Solids by 2539				Job No.		
Walnut Creek, CA 94596		Calendar (C) or Work Days (W) _____						SDG No.		
Phone: 925-627-4500		TAT if different from Below _____						Sample Specific Notes:		
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks								
Project Name: OF009 NASA Performance Sampling		<input type="checkbox"/> 1 week								
Site: Outfall 009		<input type="checkbox"/> 2 days								
P O #		<input type="checkbox"/> 1 day								
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b>	<b>Matrix</b>	<b># of Cont.</b>				
A2SW0001S002		2/6/10	0745	Spilling 1 Amber	Water	3	X	X	X	Run analysis Upgradient, A2LF-3
<del>A2SW0002S002</del>					Water		X	X	X	Primary Downgradient, A2LF-3
<del>A2SW0003S001</del>					Water		X	X		Upgradient, A2LF-1
<del>A2SW0004S001</del>					Water		X	X		Primary Downgradient, A2LF-1
5/ 2/6/10 /										
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____										
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>							<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
<b>Special Instructions/QC Requirements &amp; Comments:</b> Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access Bill MWH-Arcadia Report Level II Data Package and provide EDD										
Relinquished by:		Company: MWH		Date/Time: 2/6/10 1357		Received by:		Company: TAI		Date/Time: 2-6-10 1430
Relinquished by:		Company: TAI		Date/Time: 2/6/10 1700		Received by:		Company: TAI		Date/Time: 2/6/10 1700
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:

L.F.  
2-9-10  
2-8-20

2-9-10

## LABORATORY REPORT

Prepared For: MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project: N/A Boeing-MWH  
OF009 Boeing Performance  
Sampling  
Sampled: 02/06/10  
Received: 02/06/10  
Issued: 02/22/10 11:55

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

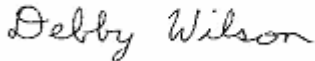
ADDITIONAL  
INFORMATION:

There are one or more analytes reported with a concentration less than the corresponding estimated detection limit (EDL). Even though the estimated concentration is less than the EDL it is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

LABORATORY ID	CLIENT ID	MATRIX
ITB0900-01	LXSW0001S002	Water
ITB0900-02	LXSW0002S002	Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0900-01 (LXSW0001S002 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1	10B1943	0.00010	0.00020	ND	1	02/16/10	02/16/10	
<b>Sample ID: ITB0900-02 (LXSW0002S002 - Water)</b>									
Reporting Units: mg/l									
Mercury	EPA 245.1	10B1943	0.00010	0.00020	ND	1	02/16/10	02/16/10	
<b>Sample ID: ITB0900-01 (LXSW0001S002 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Copper	EPA 200.8	10B1598	0.50	2.0	<b>1.5</b>	1	02/12/10	02/15/10	J
Lead	EPA 200.8	10B1598	0.20	1.0	<b>1.0</b>	1	02/12/10	02/15/10	
<b>Sample ID: ITB0900-02 (LXSW0002S002 - Water)</b>									
Reporting Units: ug/l									
Cadmium	EPA 200.8	10B1598	0.10	1.0	ND	1	02/12/10	02/15/10	
Copper	EPA 200.8	10B1598	0.50	2.0	<b>1.4</b>	1	02/12/10	02/15/10	J
Lead	EPA 200.8	10B1598	0.20	1.0	<b>0.25</b>	1	02/12/10	02/15/10	J

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITB0900

Sampled: 02/06/10  
Received: 02/06/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0900-01 (LXSW0001S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1088	1.0	10	<b>10</b>	1	02/09/10	02/09/10	
<b>Sample ID: ITB0900-02 (LXSW0002S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B1088	1.0	10	<b>2.0</b>	1	02/09/10	02/09/10	J

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0900-01 (LXSW0001S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000047	0.00005	5.8e-006	1.01	02/15/10	02/18/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000042	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000063	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000034	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.000003	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000029	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000028	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000025	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000027	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000054	0.00005	ND	1.01	02/15/10	02/18/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000039	0.00005	ND	1.01	02/15/10	02/18/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000027	0.00005	ND	1.01	02/15/10	02/18/10	
OCDD	EPA-5 1613B	46266	0.0000069	0.0001	1.8e-005	1.01	02/15/10	02/18/10	J, Q, B
OCDF	EPA-5 1613B	46266	0.0000089	0.0001	ND	1.01	02/15/10	02/18/10	
Total HxCDF	EPA-5 1613B	46266	0.0000027	0.00005	ND	1.01	02/15/10	02/18/10	
Total PeCDD	EPA-5 1613B	46266	0.0000054	0.00005	1.1e-005	1.01	02/15/10	02/18/10	J, Q, B
Total PeCDF	EPA-5 1613B	46266	0.0000039	0.00005	4.2e-006	1.01	02/15/10	02/18/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000043	0.00005	ND	1.01	02/15/10	02/18/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000026	0.00001	ND	1.01	02/15/10	02/18/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000027	0.00001	ND	1.01	02/15/10	02/18/10	
Total HpCDD	EPA-5 1613B	46266	0.0000047	0.00005	5.8e-006	1.01	02/15/10	02/18/10	J, B
Total HpCDF	EPA-5 1613B	46266	0.0000042	0.00005	ND	1.01	02/15/10	02/18/10	
Total HxCDD	EPA-5 1613B	46266	0.0000025	0.00005	ND	1.01	02/15/10	02/18/10	
Total TCDD	EPA-5 1613B	46266	0.0000026	0.00001	ND	1.01	02/15/10	02/18/10	
Total TCDF	EPA-5 1613B	46266	0.0000027	0.00001	ND	1.01	02/15/10	02/18/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	62 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	55 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	49 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	52 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	59 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	54 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	57 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	54 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	42 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	45 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	56 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	48 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	49 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	53 %
Surrogate: 13C-OCDD (17-157%)	51 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	88 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB0900-02 (LXSW0002S002 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	46266	0.0000052	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	46266	0.0000048	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	46266	0.0000069	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	46266	0.0000032	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	46266	0.0000029	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	46266	0.0000003	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000003	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	46266	0.0000025	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	46266	0.0000029	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	46266	0.0000008	0.000049	ND	0.97	02/15/10	02/18/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	46266	0.0000038	0.000049	ND	0.97	02/15/10	02/18/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	46266	0.0000003	0.000049	ND	0.97	02/15/10	02/18/10	
OCDD	EPA-5 1613B	46266	0.0000089	0.000097	ND	0.97	02/15/10	02/18/10	
OCDF	EPA-5 1613B	46266	0.0000096	0.000097	ND	0.97	02/15/10	02/18/10	
Total HxCDF	EPA-5 1613B	46266	0.0000029	0.000049	ND	0.97	02/15/10	02/18/10	
<b>Total PeCDD</b>	EPA-5 1613B	46266	0.0000008	0.000049	<b>9.5e-006</b>	0.97	02/15/10	02/18/10	J, Q, B
<b>Total PeCDF</b>	EPA-5 1613B	46266	0.0000038	0.000049	<b>3.7e-006</b>	0.97	02/15/10	02/18/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	46266	0.0000045	0.000049	ND	0.97	02/15/10	02/18/10	
2,3,7,8-TCDD	EPA-5 1613B	46266	0.0000021	0.0000097	ND	0.97	02/15/10	02/18/10	
2,3,7,8-TCDF	EPA-5 1613B	46266	0.0000021	0.0000097	ND	0.97	02/15/10	02/18/10	
Total HpCDD	EPA-5 1613B	46266	0.0000052	0.000049	ND	0.97	02/15/10	02/18/10	
Total HpCDF	EPA-5 1613B	46266	0.0000048	0.000049	ND	0.97	02/15/10	02/18/10	
Total HxCDD	EPA-5 1613B	46266	0.0000024	0.000049	ND	0.97	02/15/10	02/18/10	
Total TCDD	EPA-5 1613B	46266	0.0000021	0.0000097	ND	0.97	02/15/10	02/18/10	
Total TCDF	EPA-5 1613B	46266	0.0000021	0.0000097	ND	0.97	02/15/10	02/18/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	58 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	55 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	50 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	46 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	61 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	54 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	57 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	51 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	41 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	43 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	53 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	43 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	47 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	52 %
Surrogate: 13C-OCDD (17-157%)	48 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	90 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900  
 Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1598 Extracted: 02/12/10</b>											
<b>Blank Analyzed: 02/15/2010 (10B1598-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/15/2010 (10B1598-BS1)</b>											
Cadmium	82.4	1.0	0.10	ug/l	80.0		103	85-115			
Copper	81.0	2.0	0.50	ug/l	80.0		101	85-115			
Lead	84.3	1.0	0.20	ug/l	80.0		105	85-115			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS1) Source: ITB0888-01</b>											
Cadmium	79.9	1.0	0.10	ug/l	80.0	ND	100	70-130			
Copper	80.3	2.0	0.50	ug/l	80.0	1.68	98	70-130			
Lead	77.4	1.0	0.20	ug/l	80.0	0.398	96	70-130			
<b>Matrix Spike Analyzed: 02/15/2010 (10B1598-MS2) Source: ITB0900-02</b>											
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	84.1	2.0	0.50	ug/l	80.0	1.41	103	70-130			
Lead	78.7	1.0	0.20	ug/l	80.0	0.252	98	70-130			
<b>Matrix Spike Dup Analyzed: 02/15/2010 (10B1598-MSD1) Source: ITB0888-01</b>											
Cadmium	80.8	1.0	0.10	ug/l	80.0	ND	101	70-130	1	20	
Copper	82.7	2.0	0.50	ug/l	80.0	1.68	101	70-130	3	20	
Lead	79.1	1.0	0.20	ug/l	80.0	0.398	98	70-130	2	20	

### **Batch: 10B1943 Extracted: 02/16/10**

#### **Blank Analyzed: 02/16/2010 (10B1943-BLK1)**

Mercury	ND	0.00020	0.00010	mg/l
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#### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1943 Extracted: 02/16/10</b>											
<b>LCS Analyzed: 02/16/2010 (10B1943-BS1)</b>											
Mercury	0.00780	0.00020	0.00010	mg/l	0.00800		97	85-115			
<b>Matrix Spike Analyzed: 02/16/2010 (10B1943-MS1)</b>											
						<b>Source: ITB0895-01</b>					
Mercury	0.00769	0.00020	0.00010	mg/l	0.00800	ND	96	70-130			
<b>Matrix Spike Dup Analyzed: 02/16/2010 (10B1943-MSD1)</b>											
						<b>Source: ITB0895-01</b>					
Mercury	0.00791	0.00020	0.00010	mg/l	0.00800	ND	99	70-130	3	20	

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B1088 Extracted: 02/09/10</b>											
<b>Blank Analyzed: 02/09/2010 (10B1088-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/09/2010 (10B1088-BS1)</b>											
Total Suspended Solids	992	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 02/09/2010 (10B1088-DUP1)</b>											
Total Suspended Solids	4.00	10	1.0	mg/l		Source: ITB0998-01 4.00			0	10	J

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
1,2,3,4,6,7,8-HpCDF	0.000013	0.00005	0.000029	ug/L			-				J
1,2,3,4,7,8,9-HpCDF	0.000012	0.00005	0.000036	ug/L			-				J, Q
1,2,3,4,7,8-HxCDD	0.0000089	0.00005	0.000035	ug/L			-				J
1,2,3,4,7,8-HxCDF	0.0000084	0.00005	0.000028	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.000013	0.00005	0.000032	ug/L			-				J
1,2,3,6,7,8-HxCDF	0.000011	0.00005	0.000024	ug/L			-				J
1,2,3,7,8,9-HxCDD	0.0000094	0.00005	0.000027	ug/L			-				J, Q
1,2,3,7,8,9-HxCDF	0.0000097	0.00005	0.000023	ug/L			-				J, Q
1,2,3,7,8-PeCDD	0.000012	0.00005	0.000033	ug/L			-				J
1,2,3,7,8-PeCDF	0.0000078	0.00005	0.000024	ug/L			-				J
2,3,4,6,7,8-HxCDF	0.000012	0.00005	0.000025	ug/L			-				J
OCDD	0.000029	0.0001	0.000044	ug/L			-				J
OCDF	0.000019	0.0001	0.000038	ug/L			-				J, Q
Total HxCDF	0.000041	0.00005	0.000023	ug/L			-				J, Q
Total PeCDD	0.000016	0.00005	0.000033	ug/L			-				J, Q
Total PeCDF	0.000022	0.00005	0.000024	ug/L			-				J, Q
2,3,4,7,8-PeCDF	0.0000094	0.00005	0.000026	ug/L			-				J
2,3,7,8-TCDD	ND	0.00001	0.000017	ug/L			-				
2,3,7,8-TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Total HpCDD	0.000014	0.00005	0.000034	ug/L			-				J
Total HpCDF	0.000025	0.00005	0.000029	ug/L			-				J, Q
Total HxCDD	0.000031	0.00005	0.000027	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.000017	ug/L			-				
Total TCDF	0.0000025	0.00001	0.000013	ug/L			-				J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0017			ug/L	0.002		85	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0016			ug/L	0.002		80	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		66	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0013			ug/L	0.002		67	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		69	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0015			ug/L	0.002		73	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0011			ug/L	0.002		55	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.002		56	24-185			

#### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>Blank Analyzed: 02/16/2010 (G0B150000266B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0013			ug/L	0.002		67	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002		59	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0012			ug/L	0.002		58	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		64	24-169			
Surrogate: 13C-OCDD	0.0035			ug/L	0.004		88	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00066			ug/L	0.0008		82	35-197			
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.001	0.00005	0.000005	ug/L	0.001		100	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00101	0.00005	0.0000042	ug/L	0.001		101	82-122			B
1,2,3,4,7,8,9-HpCDF	0.000987	0.00005	0.0000054	ug/L	0.001		99	78-138			B
1,2,3,4,7,8-HxCDD	0.00112	0.00005	0.0000017	ug/L	0.001		112	70-164			B
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000018	ug/L	0.001		106	72-134			B
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000062	ug/L	0.001		102	76-134			B
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.0000016	ug/L	0.001		98	84-130			B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000013	ug/L	0.001		104	64-162			B
1,2,3,7,8,9-HxCDF	0.000964	0.00005	0.0000015	ug/L	0.001		96	78-130			B
1,2,3,7,8-PeCDD	0.00101	0.00005	0.0000047	ug/L	0.001		101	70-142			B
1,2,3,7,8-PeCDF	0.00104	0.00005	0.0000032	ug/L	0.001		104	80-134			B
2,3,4,6,7,8-HxCDF	0.000986	0.00005	0.0000015	ug/L	0.001		99	70-156			B
OCDD	0.00195	0.0001	0.0000053	ug/L	0.002		97	78-144			B
OCDF	0.00184	0.0001	0.0000068	ug/L	0.002		92	63-170			B
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000036	ug/L	0.001		104	68-160			B
2,3,7,8-TCDD	0.000199	0.00001	0.0000021	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.0000016	ug/L	0.0002		100	75-158			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	0.002		97	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		90	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	0.002		89	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00145			ug/L	0.002		72	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00155			ug/L	0.002		77	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00156			ug/L	0.002		78	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00163			ug/L	0.002		81	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00165			ug/L	0.002		83	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002		65	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00127			ug/L	0.002		64	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00152			ug/L	0.002		76	22-176			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Analyzed: 02/17/2010 (G0B150000266C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.002		65	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00146			ug/L	0.002		73	22-152			
Surrogate: 13C-OCDD	0.00387			ug/L	0.004		97	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000723			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
1,2,3,4,6,7,8-HpCDD	0.00105	0.00005	0.0000063	ug/L	0.001		105	70-140	4.4	50	B
1,2,3,4,6,7,8-HpCDF	0.00102	0.00005	0.0000074	ug/L	0.001		102	82-122	1.3	50	B
1,2,3,4,7,8,9-HpCDF	0.00101	0.00005	0.0000098	ug/L	0.001		101	78-138	2.1	50	B
1,2,3,4,7,8-HxCDD	0.00108	0.00005	0.0000035	ug/L	0.001		108	70-164	4	50	B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.000002	ug/L	0.001		108	72-134	1.2	50	B
1,2,3,6,7,8-HxCDD	0.00106	0.00005	0.0000032	ug/L	0.001		106	76-134	4.5	50	B
1,2,3,6,7,8-HxCDF	0.00103	0.00005	0.0000018	ug/L	0.001		103	84-130	4.3	50	B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000027	ug/L	0.001		104	64-162	0.14	50	B
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	78-130	8.2	50	B
1,2,3,7,8-PeCDD	0.00107	0.00005	0.0000074	ug/L	0.001		107	70-142	6.2	50	B
1,2,3,7,8-PeCDF	0.0011	0.00005	0.0000056	ug/L	0.001		110	80-134	5.9	50	B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.0000018	ug/L	0.001		105	70-156	6.6	50	B
OCDD	0.00199	0.0001	0.0000087	ug/L	0.002		100	78-144	2.3	50	B
OCDF	0.00184	0.0001	0.0000061	ug/L	0.002		92	63-170	0.06	50	B
2,3,4,7,8-PeCDF	0.00107	0.00005	0.0000065	ug/L	0.001		107	68-160	3.6	50	B
2,3,7,8-TCDD	0.000202	0.00001	0.0000034	ug/L	0.0002		101	67-158	1.4	50	
2,3,7,8-TCDF	0.000206	0.00001	0.0000027	ug/L	0.0002		103	75-158	3.1	50	B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00146			ug/L	0.002		73	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		70	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00136			ug/L	0.002		68	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00121			ug/L	0.002		61	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		65	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	0.002		64	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00127			ug/L	0.002		63	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000991			ug/L	0.002		49	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00122			ug/L	0.002		61	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000997			ug/L	0.002		50	13-328			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Walnut Creek  
 2121 North California Blvd., Suite 600  
 Walnut Creek, CA 94597  
 Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
 OF009 Boeing Performance Sampling  
 Report Number: ITB0900

Sampled: 02/06/10  
 Received: 02/06/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 46266 Extracted: 02/15/10</b>											
<b>LCS Dup Analyzed: 02/17/2010 (G0B150000266L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.000989			ug/L	0.002		49	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00111			ug/L	0.002		56	22-152			
Surrogate: 13C-OCDD	0.00291			ug/L	0.004		73	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000688			ug/L	0.0008		86	31-191			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITB0900

Sampled: 02/06/10  
Received: 02/06/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

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**ITB0900 <Page 13 of 14>**

MWH-Walnut Creek  
2121 North California Blvd., Suite 600  
Walnut Creek, CA 94597  
Attention: Alex Fischl

Project ID: N/A Boeing-MWH  
OF009 Boeing Performance Sampling  
Report Number: ITB0900

Sampled: 02/06/10  
Received: 02/06/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITB0900-01, ITB0900-02

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OFOO9 ISRA Performance  
Sampling

Sampled: 02/20/10  
Received: 02/20/10  
Issued: 03/10/10 14:26

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** Some analytes in this sample and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

Some analytes are reported at a concentration below the estimated detection limit (EDL). The data is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

**LABORATORY ID**  
ITB2189-01

**CLIENT ID**  
A1SW0004S004

**MATRIX**  
Water

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFO09 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10

Received: 02/20/10

**LABORATORY ID**

ITB2189-02

**CLIENT ID**

A1SW0006S003

**MATRIX**

Water

Reviewed By:

*Debby Wilson*

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

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**ITB2189 <Page 2 of 13>**

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10

Received: 02/20/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2189-01 (A1SW0004S004 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10B3105	0.10	0.20	ND	1	02/25/10	02/25/10	
<b>Cadmium</b>	EPA 200.8	10B2838	0.10	1.0	<b>0.18</b>	1	02/23/10	02/26/10	J
<b>Copper</b>	EPA 200.8	10B2838	0.50	2.0	<b>3.0</b>	1	02/23/10	02/26/10	
Lead	EPA 200.8	10B2838	0.20	1.0	ND	1	02/23/10	02/26/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
Received: 02/20/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2189-01 (A1SW0004S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B2996	1.0	10	7.0	1	02/24/10	02/24/10	J
<b>Sample ID: ITB2189-02 (A1SW0006S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B2996	1.0	10	19	1	02/24/10	02/24/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
Received: 02/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2189-02 (A1SW0006S003 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	57116	0.0000071	0.000058	4.9e-005	1.16	02/26/10	03/01/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	57116	0.0000059	0.000058	1.5e-005	1.16	02/26/10	03/01/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	57116	0.000011	0.000058	ND	1.16	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	57116	0.0000025	0.000058	4.7e-006	1.16	02/26/10	03/01/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	57116	0.000003	0.000058	4.6e-006	1.16	02/26/10	03/01/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	57116	0.000002	0.000058	5.1e-006	1.16	02/26/10	03/01/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000026	0.000058	3.3e-006	1.16	02/26/10	03/01/10	J, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	57116	0.000002	0.000058	5.3e-006	1.16	02/26/10	03/01/10	J, Q, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	57116	0.0000034	0.000058	3.2e-006	1.16	02/26/10	03/01/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	57116	0.0000014	0.000058	ND	1.16	02/26/10	03/01/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	57116	0.00000058	0.000058	ND	1.16	02/26/10	03/01/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000027	0.000058	4.1e-006	1.16	02/26/10	03/01/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	57116	0.00000069	0.000058	ND	1.16	02/26/10	03/01/10	
2,3,7,8-TCDD	EPA-5 1613B	57116	0.00000005	0.000012	ND	1.16	02/26/10	03/01/10	
2,3,7,8-TCDF	EPA-5 1613B	57116	0.00000005	0.000012	ND	1.16	02/26/10	03/01/10	
OCDD	EPA-5 1613B	57116	0.0000053	0.00012	0.00037	1.16	02/26/10	03/01/10	B
OCDF	EPA-5 1613B	57116	0.0000071	0.00012	4.1e-005	1.16	02/26/10	03/01/10	J, B
Total HpCDD	EPA-5 1613B	57116	0.0000071	0.000058	0.00013	1.16	02/26/10	03/01/10	J, B
Total HpCDF	EPA-5 1613B	57116	0.0000059	0.000058	2.9e-005	1.16	02/26/10	03/01/10	J, Q, B
Total HxCDD	EPA-5 1613B	57116	0.000002	0.000058	2.7e-005	1.16	02/26/10	03/01/10	J, Q, B
Total HxCDF	EPA-5 1613B	57116	0.0000026	0.000058	1.7e-005	1.16	02/26/10	03/01/10	J, Q, B
Total PeCDD	EPA-5 1613B	57116	0.0000014	0.000058	ND	1.16	02/26/10	03/01/10	
Total PeCDF	EPA-5 1613B	57116	0.00000006	0.000058	ND	1.16	02/26/10	03/01/10	
Total TCDD	EPA-5 1613B	57116	0.00000005	0.000012	ND	1.16	02/26/10	03/01/10	
Total TCDF	EPA-5 1613B	57116	0.00000005	0.000012	ND	1.16	02/26/10	03/01/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	41 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	41 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	38 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	32 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	35 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	40 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	38 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	39 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	34 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	35 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	39 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	33 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	34 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	35 %
Surrogate: 13C-OCDD (17-157%)	41 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	88 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B2838 Extracted: 02/23/10</b>											
<b>Blank Analyzed: 02/25/2010 (10B2838-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/25/2010 (10B2838-BS1)</b>											
Cadmium	82.5	1.0	0.10	ug/l	80.0		103	85-115			
Copper	85.9	2.0	0.50	ug/l	80.0		107	85-115			
Lead	82.4	1.0	0.20	ug/l	80.0		103	85-115			
<b>Matrix Spike Analyzed: 02/25/2010 (10B2838-MS1) Source: ITB1988-01</b>											
Cadmium	81.9	1.0	0.10	ug/l	80.0	ND	102	70-130			
Copper	97.9	2.0	0.50	ug/l	80.0	9.13	111	70-130			
Lead	78.6	1.0	0.20	ug/l	80.0	1.00	97	70-130			
<b>Matrix Spike Analyzed: 02/25/2010 (10B2838-MS2) Source: ITB2030-01</b>											
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	81.0	2.0	0.50	ug/l	80.0	2.67	98	70-130			
Lead	81.0	1.0	0.20	ug/l	80.0	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 02/25/2010 (10B2838-MSD1) Source: ITB1988-01</b>											
Cadmium	82.2	1.0	0.10	ug/l	80.0	ND	103	70-130	0.4	20	
Copper	93.6	2.0	0.50	ug/l	80.0	9.13	106	70-130	4	20	
Lead	81.3	1.0	0.20	ug/l	80.0	1.00	100	70-130	3	20	
<b>Batch: 10B3105 Extracted: 02/25/10</b>											
<b>Blank Analyzed: 02/25/2010 (10B3105-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							

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 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B3105 Extracted: 02/25/10</b>											
<b>LCS Analyzed: 02/25/2010 (10B3105-BS1)</b>											
Mercury	7.51	0.20	0.10	ug/l	8.00		94	85-115			
<b>Matrix Spike Analyzed: 02/25/2010 (10B3105-MS1)</b>											
						<b>Source: ITB2155-01</b>					
Mercury	7.44	0.20	0.10	ug/l	8.00	ND	93	70-130			
<b>Matrix Spike Dup Analyzed: 02/25/2010 (10B3105-MSD1)</b>											
						<b>Source: ITB2155-01</b>					
Mercury	7.64	0.20	0.10	ug/l	8.00	ND	96	70-130	3	20	

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 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

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Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B2996 Extracted: 02/24/10</b>											
<b>Blank Analyzed: 02/24/2010 (10B2996-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/24/2010 (10B2996-BS1)</b>											
Total Suspended Solids	997	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/24/2010 (10B2996-DUP1)</b>											
Total Suspended Solids	29.0	10	1.0	mg/l		Source: ITB2465-01 28.0			4	10	

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Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>											
<b>Blank Analyzed: 03/01/2010 (G0B260000116B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000096	0.00005	0.000017	ug/L				-			J
1,2,3,4,6,7,8-HpCDF	0.000086	0.00005	0.000023	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.000082	0.00005	0.000038	ug/L				-			J
1,2,3,4,7,8-HxCDD	0.000049	0.00005	0.000007	ug/L				-			J
1,2,3,4,7,8-HxCDF	0.000047	0.00005	0.000011	ug/L				-			J
1,2,3,6,7,8-HxCDD	0.000043	0.00005	0.0000062	ug/L				-			J
1,2,3,6,7,8-HxCDF	0.000044	0.00005	0.0000097	ug/L				-			J
1,2,3,7,8,9-HxCDD	0.000055	0.00005	0.0000059	ug/L				-			J
1,2,3,7,8,9-HxCDF	0.000056	0.00005	0.000012	ug/L				-			J
1,2,3,7,8-PeCDD	0.000021	0.00005	0.000006	ug/L				-			J, Q
1,2,3,7,8-PeCDF	0.0000091	0.00005	0.0000031	ug/L				-			J, Q
2,3,4,6,7,8-HxCDF	0.000058	0.00005	0.0000097	ug/L				-			J
2,3,4,7,8-PeCDF	0.000033	0.00005	0.0000037	ug/L				-			J
2,3,7,8-TCDD	ND	0.00001	0.0000003	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000094	ug/L				-			
OCDD	0.000028	0.0001	0.000015	ug/L				-			J, Q
OCDF	0.00002	0.0001	0.000013	ug/L				-			J
Total HpCDD	0.000012	0.00005	0.000017	ug/L				-			J, Q
Total HpCDF	0.000017	0.00005	0.000023	ug/L				-			J, Q
Total HxCDD	0.000015	0.00005	0.0000059	ug/L				-			J
Total HxCDF	0.000021	0.00005	0.0000097	ug/L				-			J
Total PeCDD	0.000021	0.00005	0.000006	ug/L				-			J, Q
Total PeCDF	0.000042	0.00005	0.000003	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000003	ug/L				-			
Total TCDF	ND	0.00001	0.0000002	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		89	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		88	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0016			ug/L	0.002		78	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.002		83	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0017			ug/L	0.002		86	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002		82	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017			ug/L	0.002		83	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0016			ug/L	0.002		78	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0016			ug/L	0.002		78	24-185			

#### TestAmerica Irvine

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Project Manager

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Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>											
<b>Blank Analyzed: 03/01/2010 (G0B260000116B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0017			ug/L	0.002		86	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		74	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0015			ug/L	0.002		75	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0015			ug/L	0.002		74	24-169			
Surrogate: 13C-OCDD	0.0034			ug/L	0.004		85	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00073			ug/L	0.0008		91	35-197			
<b>LCS Analyzed: 03/01/2010 (G0B260000116C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00102	0.00005	0.0000042	ug/L	0.001		102	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00105	0.00005	0.0000065	ug/L	0.001		105	82-122			B
1,2,3,4,7,8,9-HpCDF	0.00112	0.00005	0.0000011	ug/L	0.001		112	78-138			B
1,2,3,4,7,8-HxCDD	0.00106	0.00005	0.00000088	ug/L	0.001		106	70-164			B
1,2,3,4,7,8-HxCDF	0.0011	0.00005	0.00000088	ug/L	0.001		110	72-134			B
1,2,3,6,7,8-HxCDD	0.000966	0.00005	0.00000075	ug/L	0.001		97	76-134			B
1,2,3,6,7,8-HxCDF	0.00108	0.00005	0.0000008	ug/L	0.001		108	84-130			B
1,2,3,7,8,9-HxCDD	0.00106	0.00005	0.00000072	ug/L	0.001		106	64-162			B
1,2,3,7,8,9-HxCDF	0.00104	0.00005	0.00000093	ug/L	0.001		104	78-130			B
1,2,3,7,8-PeCDD	0.000998	0.00005	0.0000002	ug/L	0.001		100	70-142			B
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000016	ug/L	0.001		106	80-134			B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.00000078	ug/L	0.001		105	70-156			B
2,3,4,7,8-PeCDF	0.00113	0.00005	0.0000019	ug/L	0.001		113	68-160			B
2,3,7,8-TCDD	0.000194	0.00001	0.00000002	ug/L	0.0002		97	67-158			
2,3,7,8-TCDF	0.000198	0.00001	0.00000034	ug/L	0.0002		99	75-158			
OCDD	0.00203	0.0001	0.0000004	ug/L	0.002		102	78-144			B
OCDF	0.00196	0.0001	0.00000024	ug/L	0.002		98	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00191			ug/L	0.002		96	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00183			ug/L	0.002		92	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00174			ug/L	0.002		87	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00173			ug/L	0.002		87	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00168			ug/L	0.002		84	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.002		84	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00166			ug/L	0.002		83	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0018			ug/L	0.002		90	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00175			ug/L	0.002		87	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0017			ug/L	0.002		85	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00179			ug/L	0.002		90	22-176			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>											
<b>LCS Analyzed: 03/01/2010 (G0B260000116C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00161			ug/L	0.002		80	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00165			ug/L	0.002		82	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00166			ug/L	0.002		83	22-152			
Surrogate: 13C-OCDD	0.0038			ug/L	0.004		95	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000771			ug/L	0.0008		96	31-191			

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Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10

Received: 02/20/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Attention: Alex Fischl

Project ID: OFO09 ISRA Performance Sampling

Report Number: ITB2189

Sampled: 02/20/10  
Received: 02/20/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB2189-02

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

*2TB2189*

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date:</b>		<b>COC No:</b>	
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		1 of 7 COCs	
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>		Retained Sample Cadmium, total by 200.8 Copper, total by 200.8 Lead, total by 200.8 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540				Job No.	
Walnut Creek, CA 94596		Calendar (C) or Work Days (W) _____						SDG No.	
Phone: 925-627-4500		TAT if different from Below _____						Sample Specific Notes:	
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: OF008 ISRA Performance Sampling		Sample Date		Sample Time		Sample Type		Matrix	
Site: Outfall 008								# of Cont.	
PO #									
<b>Sample Identification</b>									
LXSW0001S003						Water		3	
LXSW0002S003						Water		3	
A1SW0002S004						Water		2	
A1SW0003S003						Water		2	
A1SW0004S004		2-20-10 0805		2 poly		Water		2	
A1SW0005S004						Water		2	
A1SW0006S003		2-20-10 0823		1 poly		Water		2	
A1SW0007S003						Water		2	
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments:</b> Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access Bill MWH-Arcadia Report Level II Data Package and provide EDD all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold									
Relinquished by: <i>[Signature]</i>		Company: MWH		Date/Time: 2/20/10 0949		Received by: <i>[Signature]</i>		Company: TestAmerica	
Relinquished by: <i>[Signature]</i>		Company: TestAmerica		Date/Time: 2/20/10 14:30		Received by: <i>[Signature]</i>		Company: ZAT	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	

*49*

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 02/20/10  
Received: 02/20/10  
Issued: 03/09/10 17:59

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID	CLIENT ID	MATRIX
ITB2190-01	A2SW0006S002	Water
ITB2190-02	A2SW0006S003	Water

Reviewed By:

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10

Received: 02/20/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2190-01 (A2SW0006S002 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B2838	0.20	1.0	1.6	1	02/23/10	02/26/10	
<b>Sample ID: ITB2190-02 (A2SW0006S003 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10B2838	0.20	1.0	ND	1	02/23/10	02/26/10	

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10

Received: 02/20/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2190-01 (A2SW0006S002 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B2996	1.0	10	16	1	02/24/10	02/24/10	
<b>Sample ID: ITB2190-02 (A2SW0006S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10B2996	1.0	10	7.0	1	02/24/10	02/24/10	J

### TestAmerica Irvine

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 Project Manager

MWH-Pasadena/Boeing  
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 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
 Received: 02/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2190-01 (A2SW0006S002 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	57116	0.000006	0.000057	3.4e-005	1.13	02/26/10	03/01/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	57116	0.0000034	0.000057	5.3e-006	1.13	02/26/10	03/01/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	57116	0.0000061	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	57116	0.0000019	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	57116	0.0000017	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	57116	0.0000016	0.000057	2.3e-006	1.13	02/26/10	03/01/10	J, Q, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000015	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	57116	0.0000016	0.000057	2.7e-006	1.13	02/26/10	03/01/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	57116	0.000002	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	57116	0.0000011	0.000057	ND	1.13	02/26/10	03/01/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	57116	0.00000049	0.000057	ND	1.13	02/26/10	03/01/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000016	0.000057	ND	1.13	02/26/10	03/01/10	
OCDD	EPA-5 1613B	57116	0.000005	0.00011	0.00045	1.13	02/26/10	03/01/10	B
OCDF	EPA-5 1613B	57116	0.0000041	0.00011	1.6e-005	1.13	02/26/10	03/01/10	J, Q, B
Total HpCDD	EPA-5 1613B	57116	0.000006	0.000057	7.9e-005	1.13	02/26/10	03/01/10	J, B
Total PeCDD	EPA-5 1613B	57116	0.0000011	0.000057	ND	1.13	02/26/10	03/01/10	
Total PeCDF	EPA-5 1613B	57116	0.00000007	0.000057	ND	1.13	02/26/10	03/01/10	
Total TCDD	EPA-5 1613B	57116	0.00000005	0.000011	ND	1.13	02/26/10	03/01/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	57116	0.00000055	0.000057	ND	1.13	02/26/10	03/01/10	
2,3,7,8-TCDD	EPA-5 1613B	57116	0.00000005	0.000011	ND	1.13	02/26/10	03/01/10	
2,3,7,8-TCDF	EPA-5 1613B	57116	0.00000005	0.000011	ND	1.13	02/26/10	03/01/10	
Total HpCDF	EPA-5 1613B	57116	0.0000034	0.000057	1.4e-005	1.13	02/26/10	03/01/10	J, Q, B
Total HxCDD	EPA-5 1613B	57116	0.0000016	0.000057	1.3e-005	1.13	02/26/10	03/01/10	J, Q, B
Total HxCDF	EPA-5 1613B	57116	0.0000015	0.000057	ND	1.13	02/26/10	03/01/10	
Total TCDF	EPA-5 1613B	57116	0.00000004	0.000011	ND	1.13	02/26/10	03/01/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	45 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	44 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	41 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	40 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	38 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	41 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	41 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	41 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	38 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	38 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	42 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	38 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	40 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	40 %
Surrogate: 13C-OCDD (17-157%)	44 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	93 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
 Received: 02/20/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2190-02 (A2SW0006S003 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	57116	0.0000094	0.000051	9.5e-006	1.02	02/26/10	03/01/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	57116	0.0000059	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	57116	0.000011	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	57116	0.0000021	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	57116	0.0000016	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	57116	0.0000018	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000014	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	57116	0.0000017	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	57116	0.000002	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	57116	0.0000012	0.000051	ND	1.02	02/26/10	03/01/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	57116	0.0000007	0.000051	ND	1.02	02/26/10	03/01/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	57116	0.0000014	0.000051	ND	1.02	02/26/10	03/01/10	
OCDD	EPA-5 1613B	57116	0.0000023	0.0001	4.6e-005	1.02	02/26/10	03/01/10	J, Q, B
OCDF	EPA-5 1613B	57116	0.0000029	0.0001	5.7e-006	1.02	02/26/10	03/01/10	J, B
Total HpCDD	EPA-5 1613B	57116	0.0000094	0.000051	9.5e-006	1.02	02/26/10	03/01/10	B
Total PeCDD	EPA-5 1613B	57116	0.0000012	0.000051	ND	1.02	02/26/10	03/01/10	
Total PeCDF	EPA-5 1613B	57116	0.00000006	0.000051	ND	1.02	02/26/10	03/01/10	
Total TCDD	EPA-5 1613B	57116	0.00000004	0.00001	ND	1.02	02/26/10	03/01/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	57116	0.00000081	0.000051	ND	1.02	02/26/10	03/01/10	
2,3,7,8-TCDD	EPA-5 1613B	57116	0.00000004	0.00001	ND	1.02	02/26/10	03/01/10	
2,3,7,8-TCDF	EPA-5 1613B	57116	0.00000005	0.00001	ND	1.02	02/26/10	03/01/10	
Total HpCDF	EPA-5 1613B	57116	0.0000059	0.000051	ND	1.02	02/26/10	03/01/10	
Total HxCDD	EPA-5 1613B	57116	0.0000017	0.000051	ND	1.02	02/26/10	03/01/10	
Total HxCDF	EPA-5 1613B	57116	0.0000014	0.000051	ND	1.02	02/26/10	03/01/10	
Total TCDF	EPA-5 1613B	57116	0.00000005	0.00001	ND	1.02	02/26/10	03/01/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	44 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	45 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	39 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	45 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	41 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	40 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	42 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	41 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	39 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	38 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	44 %
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Surrogate: 13C-2,3,7,8-TCDD (25-164%)	42 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	41 %
Surrogate: 13C-OCDD (17-157%)	40 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	89 %

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager



MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFO09 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10

Received: 02/20/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B2838 Extracted: 02/23/10</b>											
<b>Blank Analyzed: 02/25/2010 (10B2838-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 02/25/2010 (10B2838-BS1)</b>											
Lead	82.4	1.0	0.20	ug/l	80.0		103	85-115			
<b>Matrix Spike Analyzed: 02/25/2010 (10B2838-MS1)</b>											
						<b>Source: ITB1988-01</b>					
Lead	78.6	1.0	0.20	ug/l	80.0	1.00	97	70-130			
<b>Matrix Spike Analyzed: 02/25/2010 (10B2838-MS2)</b>											
						<b>Source: ITB2030-01</b>					
Lead	81.0	1.0	0.20	ug/l	80.0	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 02/25/2010 (10B2838-MSD1)</b>											
						<b>Source: ITB1988-01</b>					
Lead	81.3	1.0	0.20	ug/l	80.0	1.00	100	70-130	3	20	

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 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10B2996 Extracted: 02/24/10</b>											
<b>Blank Analyzed: 02/24/2010 (10B2996-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 02/24/2010 (10B2996-BS1)</b>											
Total Suspended Solids	997	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 02/24/2010 (10B2996-DUP1)</b>											
Total Suspended Solids	29.0	10	1.0	mg/l		Source: ITB2465-01			4	10	

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Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling  
Report Number: ITB2190

Sampled: 02/20/10  
Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>										
<b>Blank Analyzed: 03/01/2010 (G0B260000116B)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000096	0.00005	0.000017	ug/L				-		J
1,2,3,4,6,7,8-HpCDF	0.000086	0.00005	0.000023	ug/L				-		J, Q
1,2,3,4,7,8,9-HpCDF	0.000082	0.00005	0.000038	ug/L				-		J
1,2,3,4,7,8-HxCDD	0.000049	0.00005	0.000007	ug/L				-		J
1,2,3,4,7,8-HxCDF	0.000047	0.00005	0.000011	ug/L				-		J
1,2,3,6,7,8-HxCDD	0.000043	0.00005	0.0000062	ug/L				-		J
1,2,3,6,7,8-HxCDF	0.000044	0.00005	0.0000097	ug/L				-		J
1,2,3,7,8,9-HxCDD	0.000055	0.00005	0.0000059	ug/L				-		J
1,2,3,7,8,9-HxCDF	0.000056	0.00005	0.000012	ug/L				-		J
1,2,3,7,8-PeCDD	0.000021	0.00005	0.000006	ug/L				-		J, Q
1,2,3,7,8-PeCDF	0.0000091	0.00005	0.0000031	ug/L				-		J, Q
2,3,4,6,7,8-HxCDF	0.000058	0.00005	0.0000097	ug/L				-		J
OCDD	0.000028	0.0001	0.000015	ug/L				-		J, Q
OCDF	0.00002	0.0001	0.000013	ug/L				-		J
Total HpCDD	0.000012	0.00005	0.000017	ug/L				-		J, Q
Total PeCDD	0.000021	0.00005	0.000006	ug/L				-		J, Q
Total PeCDF	0.000042	0.00005	0.0000003	ug/L				-		J, Q
Total TCDD	ND	0.00001	0.0000003	ug/L				-		
2,3,4,7,8-PeCDF	0.000033	0.00005	0.0000037	ug/L				-		J
2,3,7,8-TCDD	ND	0.00001	0.0000003	ug/L				-		
2,3,7,8-TCDF	ND	0.00001	0.0000094	ug/L				-		
Total HpCDF	0.000017	0.00005	0.0000023	ug/L				-		J, Q
Total HxCDD	0.000015	0.00005	0.0000059	ug/L				-		J
Total HxCDF	0.000021	0.00005	0.0000097	ug/L				-		J
Total TCDF	ND	0.00001	0.0000002	ug/L				-		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		89	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002		88	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0016			ug/L	0.002		81	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0016			ug/L	0.002		78	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.002		83	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0017			ug/L	0.002		86	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002		82	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017			ug/L	0.002		83	29-147		
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0016			ug/L	0.002		78	25-181		
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0016			ug/L	0.002		78	24-185		

#### TestAmerica Irvine

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>											
<b>Blank Analyzed: 03/01/2010 (G0B260000116B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0017			ug/L	0.002		86	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		74	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0015			ug/L	0.002		75	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0015			ug/L	0.002		74	24-169			
Surrogate: 13C-OCDD	0.0034			ug/L	0.004		85	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00073			ug/L	0.0008		91	35-197			
<b>LCS Analyzed: 03/01/2010 (G0B260000116C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00102	0.00005	0.0000042	ug/L	0.001		102	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00105	0.00005	0.0000065	ug/L	0.001		105	82-122			B
1,2,3,4,7,8,9-HpCDF	0.00112	0.00005	0.000011	ug/L	0.001		112	78-138			B
1,2,3,4,7,8-HxCDD	0.00106	0.00005	0.00000088	ug/L	0.001		106	70-164			B
1,2,3,4,7,8-HxCDF	0.0011	0.00005	0.00000088	ug/L	0.001		110	72-134			B
1,2,3,6,7,8-HxCDD	0.000966	0.00005	0.00000075	ug/L	0.001		97	76-134			B
1,2,3,6,7,8-HxCDF	0.00108	0.00005	0.0000008	ug/L	0.001		108	84-130			B
1,2,3,7,8,9-HxCDD	0.00106	0.00005	0.00000072	ug/L	0.001		106	64-162			B
1,2,3,7,8,9-HxCDF	0.00104	0.00005	0.00000093	ug/L	0.001		104	78-130			B
1,2,3,7,8-PeCDD	0.000998	0.00005	0.000002	ug/L	0.001		100	70-142			B
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000016	ug/L	0.001		106	80-134			B
2,3,4,6,7,8-HxCDF	0.00105	0.00005	0.00000078	ug/L	0.001		105	70-156			B
OCDD	0.00203	0.0001	0.000004	ug/L	0.002		102	78-144			B
OCDF	0.00196	0.0001	0.0000024	ug/L	0.002		98	63-170			B
2,3,4,7,8-PeCDF	0.00113	0.00005	0.0000019	ug/L	0.001		113	68-160			B
2,3,7,8-TCDD	0.000194	0.00001	0.00000002	ug/L	0.0002		97	67-158			
2,3,7,8-TCDF	0.000198	0.00001	0.00000034	ug/L	0.0002		99	75-158			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00191			ug/L	0.002		96	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00183			ug/L	0.002		92	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00174			ug/L	0.002		87	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00173			ug/L	0.002		87	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00168			ug/L	0.002		84	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.002		84	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00166			ug/L	0.002		83	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0018			ug/L	0.002		90	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00175			ug/L	0.002		87	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0017			ug/L	0.002		85	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00179			ug/L	0.002		90	22-176			

**TestAmerica Irvine**

Debby Wilson For Joseph Doak  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
 Received: 02/20/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 57116 Extracted: 02/26/10</b>											
<b>LCS Analyzed: 03/01/2010 (G0B260000116C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00161			ug/L	0.002		80	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00165			ug/L	0.002		82	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00166			ug/L	0.002		83	22-152			
Surrogate: 13C-OCDD	0.0038			ug/L	0.004		95	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000771			ug/L	0.0008		96	31-191			

TestAmerica Irvine

Debby Wilson For Joseph Doak  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OFOO9 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10

Received: 02/20/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
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Attention: Alex Fischl

Project ID: OFO09 ISRA Performance Sampling

Report Number: ITB2190

Sampled: 02/20/10  
Received: 02/20/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB2190-01, ITB2190-02

### TestAmerica Irvine

Debby Wilson For Joseph Doak  
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## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 02/27/10  
Received: 02/27/10  
Issued: 03/19/10 14:44

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** WATER, 1613B, Dioxins/Furans with Totals

Some analytes in these samples and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

LABORATORY ID	CLIENT ID	MATRIX
ITB2832-01	LXSW0002S003	Water
ITB2832-02	A1SW0002S004	Water
ITB2832-03	A1SW0003S003	Water
ITB2832-04	A1SW0004S005	Water

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10

Received: 02/27/10

**LABORATORY ID**

ITB2832-05

ITB2832-06

ITB2832-07

**CLIENT ID**

A1SW0005S004

A1SW0006S004

A1SW0007S003

**MATRIX**

Water

Water

Water

Reviewed By:

*Debby Wilson*

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

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**ITB2832 <Page 2 of 15>**

MWH-Pasadena/Boeing  
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 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
 Received: 02/27/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2832-01 (LXSW0002S003 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10C0101	0.10	0.20	ND	1	03/01/10	03/01/10	
Cadmium	EPA 200.8	10C0046	0.10	1.0	ND	1	03/01/10	03/01/10	
Copper	EPA 200.8	10C0046	0.50	2.0	<b>1.7</b>	1	03/01/10	03/02/10	Ja
Lead	EPA 200.8	10C0046	0.20	1.0	<b>0.47</b>	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2832-02 (A1SW0002S004 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10C0046	0.20	1.0	<b>0.74</b>	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2832-03 (A1SW0003S003 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10C0046	0.20	1.0	<b>3.1</b>	1	03/01/10	03/01/10	
<b>Sample ID: ITB2832-04 (A1SW0004S005 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10C0101	0.10	0.20	ND	1	03/01/10	03/01/10	
Cadmium	EPA 200.8	10C0046	0.10	1.0	<b>0.96</b>	1	03/01/10	03/01/10	Ja
Copper	EPA 200.8	10C0046	0.50	2.0	<b>14</b>	1	03/01/10	03/02/10	
Lead	EPA 200.8	10C0046	0.20	1.0	<b>11</b>	1	03/01/10	03/01/10	
<b>Sample ID: ITB2832-05 (A1SW0005S004 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10C0101	0.10	0.20	ND	1	03/01/10	03/01/10	
Cadmium	EPA 200.8	10C0046	0.10	1.0	<b>0.43</b>	1	03/01/10	03/01/10	Ja
Copper	EPA 200.8	10C0046	0.50	2.0	<b>9.1</b>	1	03/01/10	03/02/10	
Lead	EPA 200.8	10C0046	0.20	1.0	<b>6.4</b>	1	03/01/10	03/01/10	

### TestAmerica Irvine

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
 Received: 02/27/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2832-01 (LXSW0002S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	4.0	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2832-02 (A1SW0002S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	2.0	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2832-03 (A1SW0003S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	10	1	03/01/10	03/01/10	
<b>Sample ID: ITB2832-04 (A1SW0004S005 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	110	1	03/01/10	03/01/10	
<b>Sample ID: ITB2832-05 (A1SW0005S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	87	1	03/01/10	03/01/10	
<b>Sample ID: ITB2832-06 (A1SW0006S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	3.0	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2832-07 (A1SW0007S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	2.0	1	03/01/10	03/01/10	Ja

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2832-01 (LXSW0002S003 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	67140	0.0000003	0.00005	2.3e-006	1.01	03/08/10	03/12/10	J
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	67140	0.00000037	0.00005	1.9e-006	1.01	03/08/10	03/12/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	67140	0.00000051	0.00005	ND	1.01	03/08/10	03/12/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	67140	0.00000028	0.00005	ND	1.01	03/08/10	03/12/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	5.8e-007	1.01	03/08/10	03/12/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	67140	0.00000033	0.00005	ND	1.01	03/08/10	03/12/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	6.6e-007	1.01	03/08/10	03/12/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	67140	0.00000051	0.00005	ND	1.01	03/08/10	03/12/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	67140	0.00000002	0.00005	4.5e-007	1.01	03/08/10	03/12/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	67140	0.00000031	0.00005	ND	1.01	03/08/10	03/12/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	67140	0.00000003	0.00005	ND	1.01	03/08/10	03/12/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	2.2e-007	1.01	03/08/10	03/12/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	67140	0.00000044	0.00005	ND	1.01	03/08/10	03/12/10	
2,3,7,8-TCDD	EPA-5 1613B	67140	0.00000031	0.00001	ND	1.01	03/08/10	03/12/10	
2,3,7,8-TCDF	EPA-5 1613B	67140	0.00000028	0.00001	ND	1.01	03/08/10	03/12/10	
OCDD	EPA-5 1613B	67140	0.00000023	0.0001	1.8e-005	1.01	03/08/10	03/12/10	J, B
OCDF	EPA-5 1613B	67140	0.00000034	0.0001	3.8e-006	1.01	03/08/10	03/12/10	J, B
Total HpCDD	EPA-5 1613B	67140	0.0000003	0.00005	6e-006	1.01	03/08/10	03/12/10	J
Total HpCDF	EPA-5 1613B	67140	0.00000037	0.00005	3.4e-006	1.01	03/08/10	03/12/10	J, Q, B
Total HxCDD	EPA-5 1613B	67140	0.00000028	0.00005	ND	1.01	03/08/10	03/12/10	
Total HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	2.2e-006	1.01	03/08/10	03/12/10	J, Q, B
Total PeCDD	EPA-5 1613B	67140	0.00000031	0.00005	ND	1.01	03/08/10	03/12/10	
Total PeCDF	EPA-5 1613B	67140	0.00000003	0.00005	ND	1.01	03/08/10	03/12/10	
Total TCDD	EPA-5 1613B	67140	0.00000031	0.00001	ND	1.01	03/08/10	03/12/10	
Total TCDF	EPA-5 1613B	67140	0.00000028	0.00001	ND	1.01	03/08/10	03/12/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	80 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	71 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	72 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	77 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	78 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	80 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	74 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	71 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	67 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	62 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	76 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	60 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	73 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	66 %
Surrogate: 13C-OCDD (17-157%)	76 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	83 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2832-06 (A1SW0006S004 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	67140	0.00000043	0.00005	1.2e-005	0.97	03/08/10	03/12/10	J
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	67140	0.00000049	0.00005	3.9e-006	0.97	03/08/10	03/12/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	67140	0.00000065	0.00005	ND	0.97	03/08/10	03/12/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	67140	0.00000003	0.00005	5.6e-007	0.97	03/08/10	03/12/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	67140	0.00000013	0.00005	4.6e-007	0.97	03/08/10	03/12/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	67140	0.00000003	0.00005	8e-007	0.97	03/08/10	03/12/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000013	0.00005	4e-007	0.97	03/08/10	03/12/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	67140	0.00000003	0.00005	7.6e-007	0.97	03/08/10	03/12/10	J, Q
1,2,3,7,8,9-HxCDF	EPA-5 1613B	67140	0.00000015	0.00005	1.8e-007	0.97	03/08/10	03/12/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	67140	0.00000031	0.00005	ND	0.97	03/08/10	03/12/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	67140	0.00000023	0.00005	ND	0.97	03/08/10	03/12/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000013	0.00005	3.7e-007	0.97	03/08/10	03/12/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	67140	0.00000011	0.00005	ND	0.97	03/08/10	03/12/10	
2,3,7,8-TCDD	EPA-5 1613B	67140	0.00000012	0.00001	ND	0.97	03/08/10	03/12/10	
2,3,7,8-TCDF	EPA-5 1613B	67140	0.00000009	0.00001	ND	0.97	03/08/10	03/12/10	
OCDD	EPA-5 1613B	67140	0.00000029	0.0001	7.2e-005	0.97	03/08/10	03/12/10	J, B
OCDF	EPA-5 1613B	67140	0.00000018	0.0001	8.3e-006	0.97	03/08/10	03/12/10	J, B
Total HpCDD	EPA-5 1613B	67140	0.00000043	0.00005	2.8e-005	0.97	03/08/10	03/12/10	J
Total HpCDF	EPA-5 1613B	67140	0.00000049	0.00005	7.9e-006	0.97	03/08/10	03/12/10	B
Total HxCDD	EPA-5 1613B	67140	0.00000003	0.00005	4.8e-006	0.97	03/08/10	03/12/10	J, Q
Total HxCDF	EPA-5 1613B	67140	0.00000013	0.00005	3.3e-006	0.97	03/08/10	03/12/10	J, Q, B
Total PeCDD	EPA-5 1613B	67140	0.00000031	0.00005	ND	0.97	03/08/10	03/12/10	
Total PeCDF	EPA-5 1613B	67140	0.00000001	0.00005	ND	0.97	03/08/10	03/12/10	
Total TCDD	EPA-5 1613B	67140	0.00000012	0.00001	ND	0.97	03/08/10	03/12/10	
Total TCDF	EPA-5 1613B	67140	0.00000009	0.00001	ND	0.97	03/08/10	03/12/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	76 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	66 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	67 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	69 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	73 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	75 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	70 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	68 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	64 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	59 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	68 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	57 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	68 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	62 %
Surrogate: 13C-OCDD (17-157%)	73 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	80 %

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2832-07 (A1SW0007S003 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	67140	0.00000094	0.00005	4e-005	1	03/08/10	03/13/10	J
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	67140	0.00000059	0.00005	2.4e-005	1	03/08/10	03/13/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	67140	0.00000082	0.00005	2e-006	1	03/08/10	03/13/10	J, Q
1,2,3,4,7,8-HxCDD	EPA-5 1613B	67140	0.00000002	0.00005	1.4e-006	1	03/08/10	03/13/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	2.7e-006	1	03/08/10	03/13/10	J, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	67140	0.00000016	0.00005	1.7e-006	1	03/08/10	03/13/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	1.8e-006	1	03/08/10	03/13/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	67140	0.00000015	0.00005	2.2e-006	1	03/08/10	03/13/10	J
1,2,3,7,8,9-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	9.3e-007	1	03/08/10	03/13/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	67140	0.00000024	0.00005	8.1e-007	1	03/08/10	03/13/10	J, Q
1,2,3,7,8-PeCDF	EPA-5 1613B	67140	0.00000002	0.00005	8.9e-007	1	03/08/10	03/13/10	J, Q
2,3,4,6,7,8-HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	1.7e-006	1	03/08/10	03/13/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	67140	0.00000002	0.00005	1.2e-006	1	03/08/10	03/13/10	J
2,3,7,8-TCDD	EPA-5 1613B	67140	0.00000021	0.00001	ND	1	03/08/10	03/13/10	
2,3,7,8-TCDF	EPA-5 1613B	67140	0.00000048	0.00001	ND	1	03/08/10	03/13/10	
OCDD	EPA-5 1613B	67140	0.00000071	0.0001	0.0003	1	03/08/10	03/13/10	B
OCDF	EPA-5 1613B	67140	0.00000002	0.0001	5.8e-005	1	03/08/10	03/13/10	J, B
Total HpCDD	EPA-5 1613B	67140	0.00000094	0.00005	8e-005	1	03/08/10	03/13/10	J
Total HpCDF	EPA-5 1613B	67140	0.00000059	0.00005	5.5e-005	1	03/08/10	03/13/10	J, Q, B
Total HxCDD	EPA-5 1613B	67140	0.00000015	0.00005	1.3e-005	1	03/08/10	03/13/10	J, Q
Total HxCDF	EPA-5 1613B	67140	0.00000001	0.00005	2.2e-005	1	03/08/10	03/13/10	J, Q, B
Total PeCDD	EPA-5 1613B	67140	0.00000024	0.00005	1.2e-006	1	03/08/10	03/13/10	J, Q
Total PeCDF	EPA-5 1613B	67140	0.00000002	0.00005	3.5e-006	1	03/08/10	03/13/10	J, Q
Total TCDD	EPA-5 1613B	67140	0.00000021	0.00001	ND	1	03/08/10	03/13/10	
Total TCDF	EPA-5 1613B	67140	0.00000048	0.00001	ND	1	03/08/10	03/13/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	81 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	70 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	72 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	80 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	74 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	77 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	74 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	70 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	67 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	62 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	74 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	59 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	74 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	66 %
Surrogate: 13C-OCDD (17-157%)	77 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	83 %

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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**Batch: 10C0046 Extracted: 03/01/10**

**Blank Analyzed: 03/01/2010-03/02/2010 (10C0046-BLK1)**

Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							

**LCS Analyzed: 03/01/2010-03/02/2010 (10C0046-BS1)**

Cadmium	80.5	1.0	0.10	ug/l	80.0		101	85-115			
Copper	78.4	2.0	0.50	ug/l	80.0		98	85-115			
Lead	73.5	1.0	0.20	ug/l	80.0		92	85-115			

**Matrix Spike Analyzed: 03/01/2010-03/02/2010 (10C0046-MS1)**

**Source: ITB2830-01**

Cadmium	78.7	1.0	0.10	ug/l	80.0	0.146	98	70-130			
Copper	79.2	2.0	0.50	ug/l	80.0	3.69	94	70-130			
Lead	71.7	1.0	0.20	ug/l	80.0	1.41	88	70-130			

**Matrix Spike Analyzed: 03/01/2010-03/02/2010 (10C0046-MS2)**

**Source: ITB2832-05**

Cadmium	79.0	1.0	0.10	ug/l	80.0	0.430	98	70-130			
Copper	86.9	2.0	0.50	ug/l	80.0	9.07	97	70-130			
Lead	78.9	1.0	0.20	ug/l	80.0	6.44	91	70-130			

**Matrix Spike Dup Analyzed: 03/01/2010-03/02/2010 (10C0046-MSD1)**

**Source: ITB2830-01**

Cadmium	78.0	1.0	0.10	ug/l	80.0	0.146	97	70-130	0.9	20	
Copper	79.7	2.0	0.50	ug/l	80.0	3.69	95	70-130	0.6	20	
Lead	71.4	1.0	0.20	ug/l	80.0	1.41	87	70-130	0.4	20	

**Batch: 10C0101 Extracted: 03/01/10**

**Blank Analyzed: 03/01/2010 (10C0101-BLK1)**

Mercury	ND	0.20	0.10	ug/l							
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Report Number: ITB2832

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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
<b><u>Batch: 10C0101 Extracted: 03/01/10</u></b>											
<b>LCS Analyzed: 03/01/2010 (10C0101-BS1)</b>											
Mercury	8.21	0.20	0.10	ug/l	8.00		103	85-115			
<b>Matrix Spike Analyzed: 03/01/2010 (10C0101-MS1)</b>											
						<b>Source: ITB2633-01</b>					
Mercury	8.06	0.20	0.10	ug/l	8.00	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 03/01/2010 (10C0101-MSD1)</b>											
						<b>Source: ITB2633-01</b>					
Mercury	8.22	0.20	0.10	ug/l	8.00	ND	103	70-130	2	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C0107 Extracted: 03/01/10</b>											
<b>Blank Analyzed: 03/01/2010 (10C0107-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/01/2010 (10C0107-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 03/01/2010 (10C0107-DUP1)</b>											
Total Suspended Solids	87.0	10	1.0	mg/l		87.0			0	10	

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>Blank Analyzed: 03/12/2010 (G0C080000140B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.000012	ug/L				-			
1,2,3,4,6,7,8-HpCDF	1e-005	0.00005	0.0000054	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000088	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000064	ug/L				-			
1,2,3,4,7,8-HxCDF	7e-006	0.00005	0.0000036	ug/L				-			J, Q
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000058	ug/L				-			
1,2,3,6,7,8-HxCDF	6.1e-006	0.00005	0.0000032	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,7,8,9-HxCDF	5.4e-006	0.00005	0.0000034	ug/L				-			J, Q
1,2,3,7,8-PeCDD	ND	0.00005	0.0000056	ug/L				-			
1,2,3,7,8-PeCDF	5.8e-006	0.00005	0.0000026	ug/L				-			J
2,3,4,6,7,8-HxCDF	5.6e-006	0.00005	0.0000003	ug/L				-			J, Q
2,3,4,7,8-PeCDF	6.5e-006	0.00005	0.0000003	ug/L				-			J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000021	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000014	ug/L				-			
OCDD	0.00011	0.0001	0.000015	ug/L				-			
OCDF	2e-005	0.0001	0.0000089	ug/L				-			J, Q
Total HpCDD	ND	0.00005	0.000012	ug/L				-			
Total HpCDF	1e-005	0.00005	0.0000054	ug/L				-			J, Q
Total HxCDD	ND	0.00005	0.0000048	ug/L				-			
Total HxCDF	2.4e-005	0.00005	0.0000003	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000056	ug/L				-			
Total PeCDF	1.8e-005	0.00005	0.0000026	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000021	ug/L				-			
Total TCDF	ND	0.00001	0.0000014	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		89	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.002			ug/L	0.002		101	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017			ug/L	0.002		84	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0017			ug/L	0.002		84	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.002		87	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0018			ug/L	0.002		90	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0019			ug/L	0.002		95	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017			ug/L	0.002		86	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0014			ug/L	0.002		70	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0015			ug/L	0.002		75	24-185			

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Report Number: ITB2832

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>Blank Analyzed: 03/12/2010 (G0C080000140B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0019			ug/L	0.002		95	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		76	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0015			ug/L	0.002		74	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0014			ug/L	0.002		71	24-169			
Surrogate: 13C-OCDD	0.003			ug/L	0.004		76	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00073			ug/L	0.0008		91	35-197			
<b>LCS Analyzed: 03/12/2010 (G0C080000140C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00112	0.00005	0.000018	ug/L	0.001		112	70-140			
1,2,3,4,6,7,8-HpCDF	0.00104	0.00005	0.0000096	ug/L	0.001		104	82-122			
1,2,3,4,7,8,9-HpCDF	0.00109	0.00005	0.000015	ug/L	0.001		109	78-138			
1,2,3,4,7,8-HxCDD	0.00103	0.00005	0.0000063	ug/L	0.001		103	70-164			
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000089	ug/L	0.001		106	72-134			
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000058	ug/L	0.001		102	76-134			
1,2,3,6,7,8-HxCDF	0.00107	0.00005	0.0000077	ug/L	0.001		107	84-130			
1,2,3,7,8,9-HxCDD	0.000932	0.00005	0.0000048	ug/L	0.001		93	64-162			
1,2,3,7,8,9-HxCDF	0.00103	0.00005	0.0000077	ug/L	0.001		103	78-130			
1,2,3,7,8-PeCDD	0.00106	0.00005	0.0000074	ug/L	0.001		106	70-142			
1,2,3,7,8-PeCDF	0.00102	0.00005	0.0000048	ug/L	0.001		102	80-134			
2,3,4,6,7,8-HxCDF	0.001	0.00005	0.0000072	ug/L	0.001		100	70-156			
2,3,4,7,8-PeCDF	0.00103	0.00005	0.000006	ug/L	0.001		103	68-160			
2,3,7,8-TCDD	0.0002	0.00001	0.0000014	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000202	0.00001	0.0000014	ug/L	0.0002		101	75-158			
OCDD	0.00214	0.0001	0.000018	ug/L	0.002		107	78-144			
OCDF	0.00204	0.0001	0.000007	ug/L	0.002		102	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00138			ug/L	0.002		69	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00162			ug/L	0.002		81	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00133			ug/L	0.002		66	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.002		75	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0015			ug/L	0.002		75	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00166			ug/L	0.002		83	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002		80	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00147			ug/L	0.002		74	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		60	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00136			ug/L	0.002		68	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00163			ug/L	0.002		81	22-176			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>LCS Analyzed: 03/12/2010 (G0C080000140C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00129			ug/L	0.002		65	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00138			ug/L	0.002		69	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00132			ug/L	0.002		66	22-152			
Surrogate: 13C-OCDD	0.00239			ug/L	0.004		60	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000677			ug/L	0.0008		85	31-191			

TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2832

Sampled: 02/27/10

Received: 02/27/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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**ITB2832 <Page 14 of 15>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling  
Report Number: ITB2832

Sampled: 02/27/10  
Received: 02/27/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB2832-01, ITB2832-06, ITB2832-07

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

# Chain of Custody Record

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

*27B2832*  
 TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Alex Fischl			Site Contact: Shelby Valenzuela			Date: <i>2-27-10</i>			COC No:									
MWH		Tel: 925-627-4627			Lab Contact: Joe Doak			Carrier:			___1___ of ___2___ COCs									
2121 N. California Blvd. Suite 600		Analysis Turnaround Time			Filtered Sample Cadmium, total by 200.8 Copper, total by 200.8 Lead, total by 200.8 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540						Job No.									
Walnut Creek, CA 94596		Calendar (C) or Work Days (W) _____																		
Phone: 925-627-4500		TAT if different from Below _____																		
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day																		
Project Name: OF008 ISRA Performance Sampling											SDG No.									
Site: Outfall 008											Sample Specific Notes:									
P O #																				
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Cadmium, total by 200.8	Copper, total by 200.8	Lead, total by 200.8	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540							
<del><i>mmb</i> LXSW0001S003</del>					water	3		X	X	X	X	X	X							<del>Upgradient, CM-3</del>
LXSW0002S003		<i>2-27-10</i>	<i>10:09</i>		Water	3		X	X	X	X	X	X							Primary Downgradient, CM-3
A1SW0002S004		<i>2-27-10</i>	<i>08:33</i>		Water	2				X			X							Upgradient, CM-8
A1SW0003S003		<i>2-27-10</i>	<i>08:47</i>		Water	2				X			X							Primary Downgradient, CM-8
A1SW0004S005		<i>2-27-10</i>	<i>08:00</i>		Water	2		X	X	X	X		X							Upgradient, CM-9
A1SW0005S004		<i>2-27-10</i>	<i>08:12</i>		Water	2		X	X	X	X		X							Primary Downgradient, CM-9
A1SW0006S004		<i>2-27-10</i>	<i>09:14</i>		Water	2						X	X							Upgradient, CM-11
A1SW0007S003		<i>2-27-10</i>	<i>09:26</i>		Water	2						X	X							Primary Downgradient, CM-11
<i>mmb</i>																				<i>18:05</i> <i>2/27/10</i> <i>ND</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; <u>4=HNO3</u> ; 5=NaOH; 6= Other _____															Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)					
Possible Hazard Identification															Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For _____ Months					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>																				
Special Instructions/QC Requirements & Comments:																				
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access																				
Bill MWH-Arcadia																				
Report Level II Data Package and provide EDD																				
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold																				
Relinquished by: <i>Margaret L. Wilmar-Banis</i>			Company: <i>MWH</i>			Date/Time: <i>2-27-10 14:38</i>			Received by: <i>[Signature]</i>			Company: <i>TAI</i>			Date/Time: <i>2/27/10 14:38</i>					
Relinquished by: <i>[Signature]</i>			Company: <i>TAI</i>			Date/Time: <i>2/27/10 1725</i>			Received by: <i>[Signature]</i>			Company: <i>TAI</i>			Date/Time: <i>2/27/10 1725</i>					
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:					



## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 02/27/10  
Received: 02/27/10  
Issued: 03/16/10 18:30

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

#### LABORATORY ID

ITB2833-02  
ITB2833-03

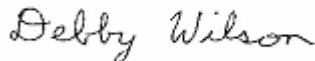
#### CLIENT ID

A2SW0006S003  
A2SW0002S004

#### MATRIX

Water  
Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10

Received: 02/27/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2833-02 (A2SW0006S003 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10C0046	0.20	1.0	<b>0.31</b>	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2833-03 (A2SW0002S004 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10C0046	0.20	1.0	<b>0.50</b>	1	03/01/10	03/01/10	Ja

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10

Received: 02/27/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2833-02 (A2SW0006S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	3.0	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2833-03 (A2SW0002S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	5.0	1	03/01/10	03/01/10	Ja

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2833-02 (A2SW0006S003 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	64219	0.000015	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	64219	0.0000044	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	64219	0.0000065	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	64219	0.0000069	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	64219	0.0000028	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	64219	0.0000065	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000025	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	64219	0.0000053	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	64219	0.0000028	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	64219	0.0000042	0.000047	ND	0.94	03/05/10	03/09/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	64219	0.000003	0.000047	ND	0.94	03/05/10	03/09/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000025	0.000047	ND	0.94	03/05/10	03/09/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	64219	0.0000036	0.000047	ND	0.94	03/05/10	03/09/10	
2,3,7,8-TCDD	EPA-5 1613B	64219	0.0000018	0.0000094	ND	0.94	03/05/10	03/09/10	
2,3,7,8-TCDF	EPA-5 1613B	64219	0.0000012	0.0000094	ND	0.94	03/05/10	03/09/10	
<b>OCDD</b>	EPA-5 1613B	64219	0.000022	0.000094	<b>6.1e-005</b>	0.94	03/05/10	03/09/10	J, Q
OCDF	EPA-5 1613B	64219	0.0000086	0.000094	ND	0.94	03/05/10	03/09/10	
Total HpCDD	EPA-5 1613B	64219	0.000015	0.000047	ND	0.94	03/05/10	03/09/10	
Total HpCDF	EPA-5 1613B	64219	0.0000044	0.000047	ND	0.94	03/05/10	03/09/10	
Total HxCDD	EPA-5 1613B	64219	0.0000053	0.000047	ND	0.94	03/05/10	03/09/10	
Total HxCDF	EPA-5 1613B	64219	0.0000025	0.000047	ND	0.94	03/05/10	03/09/10	
Total PeCDD	EPA-5 1613B	64219	0.0000042	0.000047	ND	0.94	03/05/10	03/09/10	
<b>Total PeCDF</b>	EPA-5 1613B	64219	0.0000023	0.000047	<b>1.8e-006</b>	0.94	03/05/10	03/09/10	J, Q
Total TCDD	EPA-5 1613B	64219	0.0000018	0.0000094	ND	0.94	03/05/10	03/09/10	
Total TCDF	EPA-5 1613B	64219	0.0000012	0.0000094	ND	0.94	03/05/10	03/09/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	57 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	67 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	58 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	76 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	70 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	71 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	72 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	57 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	53 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	73 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	53 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	61 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	54 %
Surrogate: 13C-OCDD (17-157%)	56 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	87 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2833-03 (A2SW0002S004 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	64219	0.000016	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	64219	0.0000034	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	64219	0.000005	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	64219	0.0000052	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	64219	0.000002	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	64219	0.000005	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000017	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	64219	0.0000041	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	64219	0.0000019	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	64219	0.000005	0.000049	ND	0.98	03/05/10	03/09/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	64219	0.0000027	0.000049	ND	0.98	03/05/10	03/09/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	64219	0.0000016	0.000049	ND	0.98	03/05/10	03/09/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	64219	0.0000032	0.000049	ND	0.98	03/05/10	03/09/10	
2,3,7,8-TCDD	EPA-5 1613B	64219	0.0000017	0.0000098	ND	0.98	03/05/10	03/09/10	
2,3,7,8-TCDF	EPA-5 1613B	64219	0.0000014	0.0000098	ND	0.98	03/05/10	03/09/10	
<b>OCDD</b>	EPA-5 1613B	64219	0.00002	0.000098	<b>9e-005</b>	0.98	03/05/10	03/09/10	J
<b>OCDF</b>	EPA-5 1613B	64219	0.0000069	0.000098	<b>3e-006</b>	0.98	03/05/10	03/09/10	J, Q
Total HpCDD	EPA-5 1613B	64219	0.000016	0.000049	ND	0.98	03/05/10	03/09/10	
Total HpCDF	EPA-5 1613B	64219	0.0000034	0.000049	ND	0.98	03/05/10	03/09/10	
Total HxCDD	EPA-5 1613B	64219	0.0000041	0.000049	ND	0.98	03/05/10	03/09/10	
Total HxCDF	EPA-5 1613B	64219	0.0000016	0.000049	ND	0.98	03/05/10	03/09/10	
<b>Total PeCDD</b>	EPA-5 1613B	64219	0.000005	0.000049	<b>7.7e-006</b>	0.98	03/05/10	03/09/10	J, Q, B
<b>Total PeCDF</b>	EPA-5 1613B	64219	0.0000017	0.000049	<b>2.7e-006</b>	0.98	03/05/10	03/09/10	J, Q
Total TCDD	EPA-5 1613B	64219	0.0000017	0.0000098	ND	0.98	03/05/10	03/09/10	
Total TCDF	EPA-5 1613B	64219	0.0000014	0.0000098	ND	0.98	03/05/10	03/09/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	65 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	71 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	64 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	77 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	75 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	77 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	79 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	70 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	62 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	82 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	60 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	62 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	55 %
Surrogate: 13C-OCDD (17-157%)	61 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	87 %

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 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C0046 Extracted: 03/01/10</b>											
<b>Blank Analyzed: 03/01/2010 (10C0046-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 03/01/2010 (10C0046-BS1)</b>											
Lead	73.5	1.0	0.20	ug/l	80.0		92	85-115			
<b>Matrix Spike Analyzed: 03/01/2010 (10C0046-MS1)</b>											
						<b>Source: ITB2830-01</b>					
Lead	71.7	1.0	0.20	ug/l	80.0	1.41	88	70-130			
<b>Matrix Spike Analyzed: 03/01/2010 (10C0046-MS2)</b>											
						<b>Source: ITB2832-05</b>					
Lead	78.9	1.0	0.20	ug/l	80.0	6.44	91	70-130			
<b>Matrix Spike Dup Analyzed: 03/01/2010 (10C0046-MSD1)</b>											
						<b>Source: ITB2830-01</b>					
Lead	71.4	1.0	0.20	ug/l	80.0	1.41	87	70-130	0.4	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C0107 Extracted: 03/01/10</b>											
<b>Blank Analyzed: 03/01/2010 (10C0107-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/01/2010 (10C0107-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 03/01/2010 (10C0107-DUP1)</b>											
Total Suspended Solids	87.0	10	1.0	mg/l		Source: ITB2832-05 87.0			0	10	

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 64219 Extracted: 03/05/10</b>											
<b>Blank Analyzed: 03/09/2010 (G0C050000219B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.000016	ug/L				-			
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.0000034	ug/L				-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000055	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,4,7,8-HxCDF	ND	0.00005	0.0000025	ug/L				-			
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,6,7,8-HxCDF	ND	0.00005	0.0000022	ug/L				-			
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000039	ug/L				-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.0000022	ug/L				-			
1,2,3,7,8-PeCDD	ND	0.00005	0.000004	ug/L				-			
1,2,3,7,8-PeCDF	ND	0.00005	0.0000031	ug/L				-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.000002	ug/L				-			
2,3,4,7,8-PeCDF	ND	0.00005	0.0000036	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.0000022	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000016	ug/L				-			
OCDD	ND	0.0001	0.000017	ug/L				-			
OCDF	ND	0.0001	0.0000083	ug/L				-			
Total HpCDD	ND	0.00005	0.000016	ug/L				-			
Total HpCDF	ND	0.00005	0.0000034	ug/L				-			
Total HxCDD	ND	0.00005	0.0000039	ug/L				-			
Total HxCDF	ND	0.00005	0.000002	ug/L				-			
Total PeCDD	1e-005	0.00005	0.000004	ug/L				-			J, Q
Total PeCDF	ND	0.00005	0.0000022	ug/L				-			
Total TCDD	ND	0.00001	0.0000022	ug/L				-			
Total TCDF	ND	0.00001	0.0000016	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0012			ug/L	0.002		61	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0015			ug/L	0.002		73	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0011			ug/L	0.002		57	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0013			ug/L	0.002		67	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0013			ug/L	0.002		66	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0015			ug/L	0.002		76	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0014			ug/L	0.002		72	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0014			ug/L	0.002		69	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.001			ug/L	0.002		50	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00098			ug/L	0.002		49	24-185			

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 64219 Extracted: 03/05/10</b>											
<b>Blank Analyzed: 03/09/2010 (G0C050000219B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0015			ug/L	0.002		73	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00095			ug/L	0.002		48	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00094			ug/L	0.002		47	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00081			ug/L	0.002		40	24-169			
Surrogate: 13C-OCDD	0.0021			ug/L	0.004		52	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00069			ug/L	0.0008		87	35-197			
<b>LCS Analyzed: 03/09/2010 (G0C050000219C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000991	0.00005	0.00002	ug/L	0.001		99	70-140			
1,2,3,4,6,7,8-HpCDF	0.000953	0.00005	0.000068	ug/L	0.001		95	82-122			
1,2,3,4,7,8,9-HpCDF	0.000998	0.00005	0.000096	ug/L	0.001		100	78-138			
1,2,3,4,7,8-HxCDD	0.00105	0.00005	0.000063	ug/L	0.001		105	70-164			
1,2,3,4,7,8-HxCDF	0.000993	0.00005	0.000042	ug/L	0.001		99	72-134			
1,2,3,6,7,8-HxCDD	0.00101	0.00005	0.000059	ug/L	0.001		101	76-134			
1,2,3,6,7,8-HxCDF	0.00102	0.00005	0.000036	ug/L	0.001		102	84-130			
1,2,3,7,8,9-HxCDD	0.000988	0.00005	0.000048	ug/L	0.001		99	64-162			
1,2,3,7,8,9-HxCDF	0.00102	0.00005	0.000036	ug/L	0.001		102	78-130			
1,2,3,7,8-PeCDD	0.000934	0.00005	0.000075	ug/L	0.001		93	70-142			
1,2,3,7,8-PeCDF	0.00101	0.00005	0.000034	ug/L	0.001		101	80-134			
2,3,4,6,7,8-HxCDF	0.000967	0.00005	0.000033	ug/L	0.001		97	70-156			
2,3,4,7,8-PeCDF	0.00102	0.00005	0.000037	ug/L	0.001		102	68-160			
2,3,7,8-TCDD	0.000183	0.00001	0.000002	ug/L	0.0002		91	67-158			
2,3,7,8-TCDF	0.000199	0.00001	0.000017	ug/L	0.0002		100	75-158			
OCDD	0.00196	0.0001	0.000025	ug/L	0.002		98	78-144			
OCDF	0.00191	0.0001	0.000013	ug/L	0.002		95	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00141			ug/L	0.002		71	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00153			ug/L	0.002		76	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00133			ug/L	0.002		67	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00138			ug/L	0.002		69	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00148			ug/L	0.002		74	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00164			ug/L	0.002		82	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00155			ug/L	0.002		77	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00145			ug/L	0.002		72	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00123			ug/L	0.002		61	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00122			ug/L	0.002		61	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00165			ug/L	0.002		82	22-176			

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITB2833

Sampled: 02/27/10  
Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 64219 Extracted: 03/05/10</b>											
<b>LCS Analyzed: 03/09/2010 (G0C050000219C)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00125			ug/L	0.002		63	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00107			ug/L	0.002		53	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000951			ug/L	0.002		48	22-152			
Surrogate: 13C-OCDD	0.00238			ug/L	0.004		59	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000717			ug/L	0.0008		90	31-191			
<b>LCS Dup Analyzed: 03/09/2010 (G0C050000219L)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00111	0.00005	0.000022	ug/L	0.001		111	70-140	11	50	
1,2,3,4,6,7,8-HpCDF	0.00104	0.00005	0.000087	ug/L	0.001		104	82-122	8.7	50	
1,2,3,4,7,8,9-HpCDF	0.00105	0.00005	0.000013	ug/L	0.001		105	78-138	4.8	50	
1,2,3,4,7,8-HxCDD	0.001	0.00005	0.0000071	ug/L	0.001		100	70-164	5	50	
1,2,3,4,7,8-HxCDF	0.00104	0.00005	0.0000064	ug/L	0.001		104	72-134	4.8	50	
1,2,3,6,7,8-HxCDD	0.00101	0.00005	0.0000068	ug/L	0.001		101	76-134	0.27	50	
1,2,3,6,7,8-HxCDF	0.00106	0.00005	0.0000055	ug/L	0.001		106	84-130	3.8	50	
1,2,3,7,8,9-HxCDD	0.00095	0.00005	0.0000055	ug/L	0.001		95	64-162	3.9	50	
1,2,3,7,8,9-HxCDF	0.00105	0.00005	0.0000058	ug/L	0.001		105	78-130	2.8	50	
1,2,3,7,8-PeCDD	0.000991	0.00005	0.0000075	ug/L	0.001		99	70-142	6	50	
1,2,3,7,8-PeCDF	0.00105	0.00005	0.0000058	ug/L	0.001		105	80-134	3.6	50	
2,3,4,6,7,8-HxCDF	0.001	0.00005	0.0000052	ug/L	0.001		100	70-156	3.6	50	
2,3,4,7,8-PeCDF	0.00105	0.00005	0.0000066	ug/L	0.001		105	68-160	3.2	50	
2,3,7,8-TCDD	0.000186	0.00001	0.0000023	ug/L	0.0002		93	67-158	1.7	50	
2,3,7,8-TCDF	0.000212	0.00001	0.000002	ug/L	0.0002		106	75-158	6.2	50	
OCDD	0.00229	0.0001	0.000041	ug/L	0.002		115	78-144	16	50	
OCDF	0.00217	0.0001	0.000021	ug/L	0.002		108	63-170	13	50	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.001			ug/L	0.002		50	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00119			ug/L	0.002		59	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.001			ug/L	0.002		50	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00113			ug/L	0.002		56	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00117			ug/L	0.002		59	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00127			ug/L	0.002		64	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00122			ug/L	0.002		61	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00113			ug/L	0.002		57	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.000927			ug/L	0.002		46	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000872			ug/L	0.002		44	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00127			ug/L	0.002		64	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000905			ug/L	0.002		45	13-328			

**TestAmerica Irvine**

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Report Number: ITB2833

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 64219 Extracted: 03/05/10</b>											
<b>LCS Dup Analyzed: 03/09/2010 (G0C050000219L)</b>											
Surrogate: 13C-2,3,7,8-TCDD	0.000855			ug/L	0.002		43	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000762			ug/L	0.002		38	22-152			
Surrogate: 13C-OCDD	0.00168			ug/L	0.004		42	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000666			ug/L	0.0008		83	31-191			

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Received: 02/27/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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**ITB2833 <Page 12 of 13>**

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## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB2833-02, ITB2833-03

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*



## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF008 ISRA Performance  
Sampling

Sampled: 02/27/10  
Received: 02/27/10  
Issued: 03/16/10 18:06

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** WATER, 1613B, Dioxins/Furans with Totals

The continuing calibration standard, ST0310, analyzed on March 10, 2010 at 15:48 has a percent difference value for 13C-1,2,3,6,7,8-HxCDD that is above the method recommended criteria of 118% recovery from the initial calibration curve. This standard is associated with these two samples but not the method blank or laboratory control sample. The percent recovery for this internal standard is within the acceptance limits in these samples and there is no adverse impact on the data.

Some analytes in sample 2 and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10

Received: 02/27/10

**LABORATORY ID**

ITB2834-01

ITB2834-02

**CLIENT ID**

HZSW0003S004

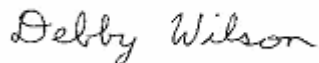
HZSW0007S004

**MATRIX**

Water

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

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Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10

Received: 02/27/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2834-01 (HZSW0003S004 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10C0046	0.50	2.0	<b>1.9</b>	1	03/01/10	03/02/10	Ja
Lead	EPA 200.8	10C0046	0.20	1.0	<b>0.40</b>	1	03/01/10	03/01/10	Ja
<b>Sample ID: ITB2834-02 (HZSW0007S004 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10C0046	0.50	2.0	<b>6.9</b>	1	03/01/10	03/02/10	
Lead	EPA 200.8	10C0046	0.20	1.0	<b>4.0</b>	1	03/01/10	03/01/10	

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Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10

Received: 02/27/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2834-01 (HZSW0003S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	16	1	03/01/10	03/01/10	
<b>Sample ID: ITB2834-02 (HZSW0007S004 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C0107	1.0	10	320	1	03/01/10	03/01/10	

### TestAmerica Irvine

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**ITB2834 <Page 4 of 13>**

MWH-Pasadena/Boeing  
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Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2834-01 (HZSW0003S004 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	67140	0.000014	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	67140	0.0000035	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	67140	0.0000052	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	67140	0.0000055	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	67140	0.0000033	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	67140	0.0000053	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	67140	0.0000028	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	67140	0.0000043	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	67140	0.0000034	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	67140	0.0000051	0.00005	ND	0.99	03/08/10	03/10/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	67140	0.000003	0.00005	ND	0.99	03/08/10	03/10/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	67140	0.0000029	0.00005	ND	0.99	03/08/10	03/10/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	67140	0.0000036	0.00005	ND	0.99	03/08/10	03/10/10	
2,3,7,8-TCDD	EPA-5 1613B	67140	0.0000016	0.00001	ND	0.99	03/08/10	03/10/10	
2,3,7,8-TCDF	EPA-5 1613B	67140	0.0000013	0.00001	ND	0.99	03/08/10	03/10/10	
<b>OCDD</b>	EPA-5 1613B	67140	0.000016	0.0001	<b>2.9e-005</b>	0.99	03/08/10	03/10/10	J, B
OCDF	EPA-5 1613B	67140	0.0000086	0.0001	ND	0.99	03/08/10	03/10/10	
Total HpCDD	EPA-5 1613B	67140	0.000014	0.00005	ND	0.99	03/08/10	03/10/10	
Total HpCDF	EPA-5 1613B	67140	0.0000035	0.00005	ND	0.99	03/08/10	03/10/10	
Total HxCDD	EPA-5 1613B	67140	0.0000043	0.00005	ND	0.99	03/08/10	03/10/10	
Total HxCDF	EPA-5 1613B	67140	0.0000028	0.00005	ND	0.99	03/08/10	03/10/10	
Total PeCDD	EPA-5 1613B	67140	0.0000051	0.00005	ND	0.99	03/08/10	03/10/10	
Total PeCDF	EPA-5 1613B	67140	0.000003	0.00005	ND	0.99	03/08/10	03/10/10	
Total TCDD	EPA-5 1613B	67140	0.0000016	0.00001	ND	0.99	03/08/10	03/10/10	
Total TCDF	EPA-5 1613B	67140	0.0000013	0.00001	ND	0.99	03/08/10	03/10/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 73 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 82 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 69 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 85 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 86 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 100 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 94 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 75 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 69 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 71 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 88 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 68 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 75 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 69 %  
 Surrogate: 13C-OCDD (17-157%) 58 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 83 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITB2834-02 (HZSW0007S004 - Water)</b>									
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	67140	0.000013	0.00005	1.5e-005	1.02	03/08/10	03/10/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	67140	0.0000043	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	67140	0.0000071	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	67140	0.0000064	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	67140	0.0000029	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	67140	0.0000059	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	67140	0.0000026	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	67140	0.0000049	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	67140	0.0000032	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	67140	0.0000059	0.00005	ND	1.02	03/08/10	03/10/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	67140	0.0000026	0.00005	ND	1.02	03/08/10	03/10/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	67140	0.0000025	0.00005	ND	1.02	03/08/10	03/10/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	67140	0.0000031	0.00005	ND	1.02	03/08/10	03/10/10	
2,3,7,8-TCDD	EPA-5 1613B	67140	0.0000018	0.00001	ND	1.02	03/08/10	03/10/10	
2,3,7,8-TCDF	EPA-5 1613B	67140	0.0000016	0.00001	ND	1.02	03/08/10	03/10/10	
OCDD	EPA-5 1613B	67140	0.000019	0.0001	8.9e-005	1.02	03/08/10	03/10/10	J, B
OCDF	EPA-5 1613B	67140	0.0000079	0.0001	9.3e-006	1.02	03/08/10	03/10/10	J, B
Total HpCDD	EPA-5 1613B	67140	0.000013	0.00005	3.1e-005	1.02	03/08/10	03/10/10	J, Q, B
Total HpCDF	EPA-5 1613B	67140	0.0000043	0.00005	ND	1.02	03/08/10	03/10/10	
Total HxCDD	EPA-5 1613B	67140	0.0000049	0.00005	ND	1.02	03/08/10	03/10/10	
Total HxCDF	EPA-5 1613B	67140	0.0000025	0.00005	ND	1.02	03/08/10	03/10/10	
Total PeCDD	EPA-5 1613B	67140	0.0000059	0.00005	ND	1.02	03/08/10	03/10/10	
Total PeCDF	EPA-5 1613B	67140	0.0000026	0.00005	ND	1.02	03/08/10	03/10/10	
Total TCDD	EPA-5 1613B	67140	0.0000018	0.00001	ND	1.02	03/08/10	03/10/10	
Total TCDF	EPA-5 1613B	67140	0.0000016	0.00001	ND	1.02	03/08/10	03/10/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 75 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 94 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 71 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 93 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 92 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 93 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 95 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 75 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 64 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 68 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 91 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 64 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 72 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 66 %  
 Surrogate: 13C-OCDD (17-157%) 67 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 81 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C0046 Extracted: 03/01/10</b>											
<b>Blank Analyzed: 03/01/2010-03/02/2010 (10C0046-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 03/01/2010-03/02/2010 (10C0046-BS1)</b>											
Copper	78.4	2.0	0.50	ug/l	80.0		98	85-115			
Lead	73.5	1.0	0.20	ug/l	80.0		92	85-115			
<b>Matrix Spike Analyzed: 03/01/2010-03/02/2010 (10C0046-MS1) Source: ITB2830-01</b>											
Copper	79.2	2.0	0.50	ug/l	80.0	3.69	94	70-130			
Lead	71.7	1.0	0.20	ug/l	80.0	1.41	88	70-130			
<b>Matrix Spike Analyzed: 03/01/2010-03/02/2010 (10C0046-MS2) Source: ITB2832-05</b>											
Copper	86.9	2.0	0.50	ug/l	80.0	9.07	97	70-130			
Lead	78.9	1.0	0.20	ug/l	80.0	6.44	91	70-130			
<b>Matrix Spike Dup Analyzed: 03/01/2010-03/02/2010 (10C0046-MSD1) Source: ITB2830-01</b>											
Copper	79.7	2.0	0.50	ug/l	80.0	3.69	95	70-130	0.6	20	
Lead	71.4	1.0	0.20	ug/l	80.0	1.41	87	70-130	0.4	20	

TestAmerica Irvine

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Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C0107 Extracted: 03/01/10</b>											
<b>Blank Analyzed: 03/01/2010 (10C0107-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/01/2010 (10C0107-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 03/01/2010 (10C0107-DUP1)</b>											
Total Suspended Solids	87.0	10	1.0	mg/l		Source: ITB2832-05 87.0			0	10	

TestAmerica Irvine

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 Project Manager

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Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>Blank Analyzed: 03/12/2010 (G0C080000140B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	1.6e-005	0.00005	0.000012	ug/L				-			J, Q
1,2,3,4,6,7,8-HpCDF	1e-005	0.00005	0.0000054	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000088	ug/L				-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000064	ug/L				-			
1,2,3,4,7,8-HxCDF	7e-006	0.00005	0.0000036	ug/L				-			J, Q
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000058	ug/L				-			
1,2,3,6,7,8-HxCDF	6.1e-006	0.00005	0.0000032	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000048	ug/L				-			
1,2,3,7,8,9-HxCDF	5.4e-006	0.00005	0.0000034	ug/L				-			J, Q
1,2,3,7,8-PeCDD	ND	0.00005	0.0000056	ug/L				-			
1,2,3,7,8-PeCDF	5.8e-006	0.00005	0.0000026	ug/L				-			J
2,3,4,6,7,8-HxCDF	5.6e-006	0.00005	0.0000003	ug/L				-			J, Q
2,3,4,7,8-PeCDF	6.5e-006	0.00005	0.0000003	ug/L				-			J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000021	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.0000014	ug/L				-			
OCDD	0.00011	0.0001	0.000015	ug/L				-			
OCDF	2e-005	0.0001	0.0000089	ug/L				-			J, Q
Total HpCDD	1.6e-005	0.00005	0.000012	ug/L				-			J, Q
Total HpCDF	1e-005	0.00005	0.0000054	ug/L				-			J, Q
Total HxCDD	ND	0.00005	0.0000048	ug/L				-			
Total HxCDF	2.4e-005	0.00005	0.0000003	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000056	ug/L				-			
Total PeCDF	1.8e-005	0.00005	0.0000026	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000021	ug/L				-			
Total TCDF	ND	0.00001	0.0000014	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018			ug/L	0.002		89	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.002			ug/L	0.002		101	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017			ug/L	0.002		84	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0017			ug/L	0.002		84	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.002		87	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0018			ug/L	0.002		90	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0019			ug/L	0.002		95	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017			ug/L	0.002		86	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0014			ug/L	0.002		70	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0015			ug/L	0.002		75	24-185			

#### TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>Blank Analyzed: 03/12/2010 (G0C080000140B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0019			ug/L	0.002		95	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0015			ug/L	0.002		76	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0015			ug/L	0.002		74	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0014			ug/L	0.002		71	24-169			
Surrogate: 13C-OCDD	0.003			ug/L	0.004		76	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00073			ug/L	0.0008		91	35-197			
<b>LCS Analyzed: 03/12/2010 (G0C080000140C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00112	0.00005	0.000018	ug/L	0.001		112	70-140			
1,2,3,4,6,7,8-HpCDF	0.00104	0.00005	0.0000096	ug/L	0.001		104	82-122			
1,2,3,4,7,8,9-HpCDF	0.00109	0.00005	0.000015	ug/L	0.001		109	78-138			
1,2,3,4,7,8-HxCDD	0.00103	0.00005	0.0000063	ug/L	0.001		103	70-164			
1,2,3,4,7,8-HxCDF	0.00106	0.00005	0.0000089	ug/L	0.001		106	72-134			
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000058	ug/L	0.001		102	76-134			
1,2,3,6,7,8-HxCDF	0.00107	0.00005	0.0000077	ug/L	0.001		107	84-130			
1,2,3,7,8,9-HxCDD	0.000932	0.00005	0.0000048	ug/L	0.001		93	64-162			
1,2,3,7,8,9-HxCDF	0.00103	0.00005	0.0000077	ug/L	0.001		103	78-130			
1,2,3,7,8-PeCDD	0.00106	0.00005	0.0000074	ug/L	0.001		106	70-142			
1,2,3,7,8-PeCDF	0.00102	0.00005	0.0000048	ug/L	0.001		102	80-134			
2,3,4,6,7,8-HxCDF	0.001	0.00005	0.0000072	ug/L	0.001		100	70-156			
2,3,4,7,8-PeCDF	0.00103	0.00005	0.000006	ug/L	0.001		103	68-160			
2,3,7,8-TCDD	0.0002	0.00001	0.0000014	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000202	0.00001	0.0000014	ug/L	0.0002		101	75-158			
OCDD	0.00214	0.0001	0.000018	ug/L	0.002		107	78-144			
OCDF	0.00204	0.0001	0.000007	ug/L	0.002		102	63-170			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00138			ug/L	0.002		69	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00162			ug/L	0.002		81	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00133			ug/L	0.002		66	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.002		75	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0015			ug/L	0.002		75	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00166			ug/L	0.002		83	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002		80	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00147			ug/L	0.002		74	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		60	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00136			ug/L	0.002		68	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00163			ug/L	0.002		81	22-176			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager



MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
 Received: 02/27/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 67140 Extracted: 03/08/10</b>											
<b>LCS Analyzed: 03/12/2010 (G0C080000140C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00129			ug/L	0.002		65	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00138			ug/L	0.002		69	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00132			ug/L	0.002		66	22-152			
Surrogate: 13C-OCDD	0.00239			ug/L	0.004		60	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000677			ug/L	0.0008		85	31-191			

TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10

Received: 02/27/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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**ITB2834 <Page 12 of 13>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITB2834

Sampled: 02/27/10  
Received: 02/27/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITB2834-01, ITB2834-02

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

# Chain of Custody Record

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

27B2834

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Alex Fischl		Site Contact: Shelby Valenzuela		Date: 2-27-10		COC No:	
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		1 of 2 COCs	
2121 N. California Blvd. Suite 600		Analysis Turnaround Time		Filtered Sample Cadmium, total by 200.8 Copper, total by 200.8 Lead, total by 200.8 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540				Job No.	
Walnut Creek, CA 94596		Calendar (C) or Work Days (W)							
Phone: 925-627-4500		TAT if different from Below							
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: OF008 ISRA Performance Sampling								SDG No.	
Site: Outfall 008									
PO #									
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			Sample Specific Notes:
HZSW0003S004		2-27-10	12:14	Water		3	X	X	Primary Downgradient, CYN-1, DRG-1
<del>MMB HZSW0004S003</del>				Water		2			<del>Secondary Downgradient, DRG-1</del>
<del>MMB HZSW0005S004</del>				Water		2			<del>Upgradient, DRG-1</del>
<del>MMB HZSW0006S001</del>				Water		3	X	X	<del>Upgradient, CYN-1, DRG-1</del>
HZSW0007S004		2-27-10	12:53	Water		3	X	X	Primary Downgradient (all HVS)
<del>MMB HZSW0008S001</del>				Water		3		X	<del>Upgradient, HVS-1</del>
<del>MMB HZSW0009S002</del>				Water		3		H	<del>Secondary Downgradient, HVS-1</del>
<del>MMB HZSW0010S004</del>				Water		3		H	<del>Secondary Downgradient, HVS 3, 4</del>
<del>MMB HZSW0011S002</del>				Water		3	X		<del>Upgradient, HVS-3</del>
<del>MMB HZSW0012S002</del>				Water		2		X	<del>Upgradient, HVS-2C</del>
<del>MMB HZSW0013S001</del>				Water		2		H	<del>Secondary Downgradient, HVS-2C</del>
<del>MMB HZSW0014S002</del>				Water		2	X	X	<del>Upgradient, HVS-2B-1, HVS-2B-2</del>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments:									
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access									
Bill MWH-Arcadia									
Report Level II Data Package and provide EDD									
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold									
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	
Margaret L. Milman-Baris		MWH		2-27-10 14:38		L. De Troy		2/27/10 14:38	
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	
L. De Troy		TAI		2/27/10		[Signature]		2/27/10 17:25	
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:	

18:10  
 2/27/10  
 NR

47

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 03/07/10  
Received: 03/08/10  
Issued: 03/24/10 17:44

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** WATER, 1613B, Dioxins/Furans with Totals

Samples: 1, 2

Some analytes in these samples and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

There are no other anomalies associated with this project.

#### LABORATORY ID

ITC0796-01  
ITC0796-02

#### CLIENT ID

A1SW0002S005  
A1SW0003S004

#### MATRIX

Water  
Water

#### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10

Received: 03/08/10

**LABORATORY ID**

ITC0796-03  
ITC0796-04  
ITC0796-05  
ITC0796-06

**CLIENT ID**

A1SW0004S006  
A1SW0005S005  
A1SW0006S005  
A1SW0007S004

**MATRIX**

Water  
Water  
Water  
Water

Reviewed By:



**TestAmerica Irvine**

Kathleen A. Robb For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0796-01 (A1SW0002S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10C1320	0.20	1.0	1.1	1	03/10/10	03/11/10	
<b>Sample ID: ITC0796-02 (A1SW0003S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10C1320	0.20	1.0	ND	1	03/10/10	03/11/10	
<b>Sample ID: ITC0796-03 (A1SW0004S006 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Mercury	EPA 7470A	10C2010	0.10	0.20	0.98	1	03/16/10	03/16/10	
Cadmium	EPA 200.8	10C1320	0.10	1.0	0.13	1	03/10/10	03/11/10	Ja
Copper	EPA 200.8	10C1320	0.50	2.0	2.6	1	03/10/10	03/11/10	
Lead	EPA 200.8	10C1320	0.20	1.0	ND	1	03/10/10	03/11/10	
<b>Sample ID: ITC0796-04 (A1SW0005S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Mercury	EPA 7470A	10C2010	0.10	0.20	1.7	1	03/16/10	03/16/10	
Cadmium	EPA 200.8	10C1320	0.10	1.0	0.11	1	03/10/10	03/11/10	Ja
Copper	EPA 200.8	10C1320	0.50	2.0	2.5	1	03/10/10	03/11/10	
Lead	EPA 200.8	10C1320	0.20	1.0	0.50	1	03/10/10	03/11/10	Ja

### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
 Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0796-01 (A1SW0002S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	11	1	03/11/10	03/11/10	
<b>Sample ID: ITC0796-02 (A1SW0003S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	10	1	03/11/10	03/11/10	
<b>Sample ID: ITC0796-03 (A1SW0004S006 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	8.0	1	03/11/10	03/11/10	Ja
<b>Sample ID: ITC0796-04 (A1SW0005S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	13	1	03/11/10	03/11/10	
<b>Sample ID: ITC0796-05 (A1SW0006S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	10	1	03/11/10	03/11/10	
<b>Sample ID: ITC0796-06 (A1SW0007S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	6.0	1	03/11/10	03/11/10	Ja

### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
 Project Manager

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 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0796-05 (A1SW0006S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	70198	0.0000025	0.00005	7.8e-006	0.99	03/11/10	03/16/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	70198	0.0000098	0.00005	2.3e-006	0.99	03/11/10	03/16/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	70198	0.0000016	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	70198	0.0000099	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	70198	0.0000038	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	70198	0.000009	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	70198	0.0000037	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	70198	0.0000078	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	70198	0.000005	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	70198	0.0000074	0.00005	ND	0.99	03/11/10	03/16/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	70198	0.0000041	0.00005	ND	0.99	03/11/10	03/16/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	70198	0.0000033	0.00005	ND	0.99	03/11/10	03/16/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	70198	0.0000047	0.00005	ND	0.99	03/11/10	03/16/10	
2,3,7,8-TCDD	EPA-5 1613B	70198	0.0000054	0.00001	ND	0.99	03/11/10	03/16/10	
2,3,7,8-TCDF	EPA-5 1613B	70198	0.0000081	0.00001	ND	0.99	03/11/10	03/16/10	
OCDD	EPA-5 1613B	70198	0.0000047	0.0001	5.7e-005	0.99	03/11/10	03/16/10	J, B
OCDF	EPA-5 1613B	70198	0.0000073	0.0001	4.6e-006	0.99	03/11/10	03/16/10	J, Q, B
Total HpCDD	EPA-5 1613B	70198	0.0000025	0.00005	1.6e-005	0.99	03/11/10	03/16/10	J, Q, B
Total HpCDF	EPA-5 1613B	70198	0.0000098	0.00005	4.3e-006	0.99	03/11/10	03/16/10	J, Q, B
Total HxCDD	EPA-5 1613B	70198	0.0000078	0.00005	ND	0.99	03/11/10	03/16/10	
Total HxCDF	EPA-5 1613B	70198	0.0000033	0.00005	ND	0.99	03/11/10	03/16/10	
Total PeCDD	EPA-5 1613B	70198	0.0000074	0.00005	ND	0.99	03/11/10	03/16/10	
Total PeCDF	EPA-5 1613B	70198	0.0000041	0.00005	ND	0.99	03/11/10	03/16/10	
Total TCDD	EPA-5 1613B	70198	0.0000054	0.00001	ND	0.99	03/11/10	03/16/10	
Total TCDF	EPA-5 1613B	70198	0.0000081	0.00001	ND	0.99	03/11/10	03/16/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	76 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	80 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	73 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	67 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	67 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	68 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	68 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	65 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	60 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	62 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	69 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	59 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	56 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	58 %
Surrogate: 13C-OCDD (17-157%)	74 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	102 %

### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0796-06 (A1SW0007S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	70198	0.0000019	0.00005	3.2e-006	0.95	03/11/10	03/16/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	70198	0.0000048	0.00005	1.3e-006	0.95	03/11/10	03/16/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	70198	0.0000082	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	70198	0.0000099	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	70198	0.0000021	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	70198	0.0000093	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	70198	0.0000021	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	70198	0.0000079	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	70198	0.0000026	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	70198	0.0000076	0.00005	ND	0.95	03/11/10	03/16/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	70198	0.0000047	0.00005	ND	0.95	03/11/10	03/16/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	70198	0.0000019	0.00005	ND	0.95	03/11/10	03/16/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	70198	0.0000053	0.00005	ND	0.95	03/11/10	03/16/10	
2,3,7,8-TCDD	EPA-5 1613B	70198	0.0000043	0.00001	ND	0.95	03/11/10	03/16/10	
2,3,7,8-TCDF	EPA-5 1613B	70198	0.0000004	0.00001	ND	0.95	03/11/10	03/16/10	
OCDD	EPA-5 1613B	70198	0.0000044	0.0001	2.4e-005	0.95	03/11/10	03/16/10	J, B
OCDF	EPA-5 1613B	70198	0.0000008	0.0001	3.6e-006	0.95	03/11/10	03/16/10	J, B
Total HpCDD	EPA-5 1613B	70198	0.0000019	0.00005	8.5e-006	0.95	03/11/10	03/16/10	B
Total HpCDF	EPA-5 1613B	70198	0.0000048	0.00005	2.8e-006	0.95	03/11/10	03/16/10	J, Q, B
Total HxCDD	EPA-5 1613B	70198	0.0000079	0.00005	ND	0.95	03/11/10	03/16/10	
Total HxCDF	EPA-5 1613B	70198	0.0000019	0.00005	ND	0.95	03/11/10	03/16/10	
Total PeCDD	EPA-5 1613B	70198	0.0000076	0.00005	2.4e-006	0.95	03/11/10	03/16/10	J, Q
Total PeCDF	EPA-5 1613B	70198	0.0000033	0.00005	ND	0.95	03/11/10	03/16/10	
Total TCDD	EPA-5 1613B	70198	0.0000043	0.00001	ND	0.95	03/11/10	03/16/10	
Total TCDF	EPA-5 1613B	70198	0.0000004	0.00001	ND	0.95	03/11/10	03/16/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	89 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	98 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	84 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	81 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	82 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	79 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	78 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	76 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	73 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	75 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	80 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	73 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	70 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	74 %
Surrogate: 13C-OCDD (17-157%)	81 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	100 %

### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C1320 Extracted: 03/10/10</b>											
<b>Blank Analyzed: 03/11/2010-03/12/2010 (10C1320-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 03/11/2010-03/12/2010 (10C1320-BS1)</b>											
Cadmium	79.4	1.0	0.10	ug/l	80.0		99	85-115			
Copper	78.4	2.0	0.50	ug/l	80.0		98	85-115			
Lead	80.3	1.0	0.20	ug/l	80.0		100	85-115			
<b>Matrix Spike Analyzed: 03/11/2010-03/12/2010 (10C1320-MS1) Source: ITC0790-03</b>											
Cadmium	81.1	1.0	0.10	ug/l	80.0	ND	101	70-130			
Copper	79.6	2.0	0.50	ug/l	80.0	1.76	97	70-130			
Lead	75.7	1.0	0.20	ug/l	80.0	0.316	94	70-130			
<b>Matrix Spike Analyzed: 03/11/2010-03/12/2010 (10C1320-MS2) Source: ITC0791-03</b>											
Cadmium	81.3	1.0	0.10	ug/l	80.0	ND	102	70-130			
Copper	79.8	2.0	0.50	ug/l	80.0	1.36	98	70-130			
Lead	75.1	1.0	0.20	ug/l	80.0	0.231	94	70-130			
<b>Matrix Spike Dup Analyzed: 03/11/2010-03/12/2010 (10C1320-MSD1) Source: ITC0790-03</b>											
Cadmium	78.2	1.0	0.10	ug/l	80.0	ND	98	70-130	4	20	
Copper	79.1	2.0	0.50	ug/l	80.0	1.76	97	70-130	0.6	20	
Lead	73.6	1.0	0.20	ug/l	80.0	0.316	92	70-130	3	20	
<b>Batch: 10C2010 Extracted: 03/16/10</b>											
<b>Blank Analyzed: 03/16/2010 (10C2010-BLK1)</b>											
Mercury	ND	0.0020	0.0010	ug/l							

**TestAmerica Irvine**

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Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 10C2010 Extracted: 03/16/10</u></b>											
<b>LCS Analyzed: 03/16/2010 (10C2010-BS1)</b>											
Mercury	8.36	0.0020	0.0010	ug/l	8.00		105	80-120			
<b>Matrix Spike Analyzed: 03/16/2010 (10C2010-MS1)</b>											
						<b>Source: ITC1476-01</b>					
Mercury	8.41	0.0020	0.0010	ug/l	8.00	0.0313	105	70-130			
<b>Matrix Spike Dup Analyzed: 03/16/2010 (10C2010-MSD1)</b>											
						<b>Source: ITC1476-01</b>					
Mercury	8.38	0.0020	0.0010	ug/l	8.00	0.0313	104	70-130	0.5	20	

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C1493 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/11/2010 (10C1493-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/11/2010 (10C1493-BS1)</b>											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 03/11/2010 (10C1493-DUP1)</b>											
Total Suspended Solids	162	10	1.0	mg/l		Source: ITC0808-01 163			0.6	10	

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000033	0.00005	0.0000074	ug/L				-			J, Q
1,2,3,4,6,7,8-HpCDF	0.000024	0.00005	0.0000082	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.000016	0.00005	0.000001	ug/L				-			J
1,2,3,4,7,8-HxCDD	0.000011	0.00005	0.0000071	ug/L				-			J, Q
1,2,3,4,7,8-HxCDF	0.000018	0.00005	0.0000021	ug/L				-			J
1,2,3,6,7,8-HxCDD	0.000015	0.00005	0.0000065	ug/L				-			J
1,2,3,6,7,8-HxCDF	0.000001	0.00005	0.0000002	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	0.000012	0.00005	0.0000061	ug/L				-			J, Q
1,2,3,7,8,9-HxCDF	0.000015	0.00005	0.0000022	ug/L				-			J, Q
1,2,3,7,8-PeCDD	ND	0.00005	0.0000032	ug/L				-			
1,2,3,7,8-PeCDF	0.000012	0.00005	0.0000004	ug/L				-			J
2,3,4,6,7,8-HxCDF	0.000016	0.00005	0.0000019	ug/L				-			J
2,3,4,7,8-PeCDF	0.000008	0.00005	0.0000004	ug/L				-			J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000003	ug/L				-			
2,3,7,8-TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
OCDD	0.000017	0.0001	0.0000084	ug/L				-			J
OCDF	0.000061	0.0001	0.0000067	ug/L				-			J
Total HpCDD	0.000006	0.00005	0.0000074	ug/L				-			J, Q
Total HpCDF	0.000004	0.00005	0.0000082	ug/L				-			J, Q
Total HxCDD	0.000039	0.00005	0.0000061	ug/L				-			J, Q
Total HxCDF	0.000063	0.00005	0.0000019	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000032	ug/L				-			
Total PeCDF	0.000024	0.00005	0.0000004	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000003	ug/L				-			
Total TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0015			ug/L	0.002		73	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		69	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0014			ug/L	0.002		69	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.002		74	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0014			ug/L	0.002		71	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0013			ug/L	0.002		67	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0013			ug/L	0.002		66	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		61	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.001			ug/L	0.002		52	24-185			

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Project Manager

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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0014			ug/L	0.002		70	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0011			ug/L	0.002		53	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0011			ug/L	0.002		57	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.001			ug/L	0.002		52	24-169			
Surrogate: 13C-OCDD	0.0029			ug/L	0.004		74	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00074			ug/L	0.0008		92	35-197			
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.0000016	ug/L	0.001		106	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.0000021	ug/L	0.001		106	82-122			B
1,2,3,4,7,8,9-HpCDF	0.0011	0.00005	0.0000029	ug/L	0.001		110	78-138			B
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000032	ug/L	0.001		104	70-164			B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	72-134			B
1,2,3,6,7,8-HxCDD	0.000997	0.00005	0.0000003	ug/L	0.001		100	76-134			B
1,2,3,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	84-130			B
1,2,3,7,8,9-HxCDD	0.000993	0.00005	0.00000028	ug/L	0.001		99	64-162			B
1,2,3,7,8,9-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	78-130			B
1,2,3,7,8-PeCDD	0.000957	0.00005	0.0000021	ug/L	0.001		96	70-142			
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000011	ug/L	0.001		106	80-134			B
2,3,4,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	70-156			B
2,3,4,7,8-PeCDF	0.00108	0.00005	0.0000012	ug/L	0.001		108	68-160			B
2,3,7,8-TCDD	0.000201	0.00001	0.00000002	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000195	0.00001	0.00000002	ug/L	0.0002		98	75-158			B
OCDD	0.00204	0.0001	0.0000015	ug/L	0.002		102	78-144			B
OCDF	0.00194	0.0001	0.00000081	ug/L	0.002		97	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00181			ug/L	0.002		91	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00175			ug/L	0.002		88	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017			ug/L	0.002		85	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00195			ug/L	0.002		98	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00182			ug/L	0.002		91	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.002		84	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00164			ug/L	0.002		82	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00169			ug/L	0.002		85	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00151			ug/L	0.002		76	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00129			ug/L	0.002		65	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00174			ug/L	0.002		87	22-176			

#### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00145			ug/L	0.002		73	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00137			ug/L	0.002		68	22-152			
Surrogate: 13C-OCDD	0.00375			ug/L	0.004		94	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000741			ug/L	0.0008		93	31-191			
<b>Blank Analyzed: 03/16/2010 (G0C1100098RE1)</b>											
2,3,7,8-TCDF	ND	0.00001	0.0000026	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0012			ug/L	0.002		58	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.0007			ug/L	0.0008		87	35-197			

**TestAmerica Irvine**

Kathleen A. Robb For Heather Clark  
 Project Manager

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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0796

Sampled: 03/07/10  
Received: 03/08/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

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Project Manager

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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling  
Report Number: ITC0796

Sampled: 03/07/10  
Received: 03/08/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 7470A	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B  
Samples: ITC0796-05, ITC0796-06

### TestAmerica Irvine

Kathleen A. Robb For Heather Clark  
Project Manager

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Irvine  
17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

**ITC0796**

TestAmerica Laboratories, Inc.

<b>Client Contact</b> MWH 2121 N. California Blvd. Suite 600 Walnut Creek, CA 94596 Phone: 925-627-4500 FAX: 925-627-4501 Project Name: OF009 ISRA Performance Sampling Site: Outfall 009 PO #	<b>Project Manager: Alex Fischl</b> Tel: 925-627-4627	<b>Site Contact: Shelby Valenzuela</b> Lab Contact: Joe Doak	<b>Date:</b> 3/7/10 <b>Carrier:</b>	<b>COC No:</b> 15 1 of 15 COCs
<b>Analysis Turnaround Time</b> Calendar (C) or Work Days (W) _____ TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Job No.</b>  <b>SDG No.</b>		

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Cadmium, total by 200.8	Copper, total by 200.8	Lead, total by 200.8	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540	Sample Specific Notes:
<del>LXSW0001S003</del>				Water	3	X	X	X	X	X	X	X	Upgradient, CM-3
LXSW0002S004				Water	3	X	X	X	X	X	X	X	Primary Downgradient, CM-3
A1SW0002S005	3/7/10	0931	2 poly	Water	2			X					Upgradient, CM-8
A1SW0003S004		0941	2 poly	Water	2			X					Primary Downgradient, CM-8
A1SW0004S006		0839	2 poly	Water	2	X	X	X	X				Upgradient, CM-9
A1SW0005S005		0915	2 poly	Water	2	X	X	X	X				Primary Downgradient, CM-9
A1SW0006S005		1039	1 Amob 1 poly	Water	2					X	X		Upgradient, CM-11
A1SW0007S004		1040	1 Amob 1 poly	Water	2					X	X		Primary Downgradient, CM-11

MS  
3/8/10  
7:30

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_ 4 4 4 4 1 1

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month )  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
 Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access  
 Bill MWH-Arcadia  
 Report Level II Data Package and provide EDD  
 all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold

Relinquished by:	Company: MWH	Date/Time: 3/7/10 12:24	Received by:	Company: MWH	Date/Time: 3/7/10 12:40
Relinquished by:	Company: MWH	Date/Time: 3/7/10 1415	Received by:	Company: TA-I	Date/Time: 3/7/10 1415
Relinquished by:	Company: TA-I	Date/Time: 3/7/10 1045	Received by:	Company: TA-I	Date/Time: 3/8/10 034

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF008 ISRA Performance  
Sampling

Sampled: 03/07/10  
Received: 03/08/10  
Issued: 03/19/10 17:06

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** WATER, 1613B, Dioxins/Furans with Totals

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

**LABORATORY ID**

ITC0797-01

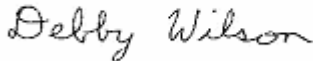
**CLIENT ID**

HZSW0003S005

**MATRIX**

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10

Received: 03/08/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0797-01 (HZSW0003S005 - Water)</b>									
Reporting Units: ug/l									
Copper	EPA 200.8	10C1320	0.50	2.0	1.5	1	03/10/10	03/11/10	Ja
Lead	EPA 200.8	10C1320	0.20	1.0	ND	1	03/10/10	03/11/10	

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10

Received: 03/08/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0797-01 (HZSW0003S005 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	<b>9.0</b>	1	03/11/10	03/11/10	Ja

### TestAmerica Irvine

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Project Manager

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618 Michillinda Avenue, Suite 200  
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Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0797-01 (HZSW0003S005 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	70198	0.00000053	0.00005	2.2e-006	1.03	03/11/10	03/15/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	70198	0.0000006	0.00005	1.7e-006	1.03	03/11/10	03/15/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	70198	0.00000078	0.00005	ND	1.03	03/11/10	03/15/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	70198	0.00000006	0.00005	9.5e-007	1.03	03/11/10	03/15/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	7.9e-007	1.03	03/11/10	03/15/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	70198	0.00000005	0.00005	1e-006	1.03	03/11/10	03/15/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	5.2e-007	1.03	03/11/10	03/15/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	70198	0.00000005	0.00005	1.3e-006	1.03	03/11/10	03/15/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	5.3e-007	1.03	03/11/10	03/15/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	70198	0.0000002	0.00005	ND	1.03	03/11/10	03/15/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	70198	0.00000004	0.00005	5.2e-007	1.03	03/11/10	03/15/10	J, Q, B
2,3,4,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	7.5e-007	1.03	03/11/10	03/15/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	70198	0.00000005	0.00005	ND	1.03	03/11/10	03/15/10	
2,3,7,8-TCDD	EPA-5 1613B	70198	0.00000003	0.00001	ND	1.03	03/11/10	03/15/10	
2,3,7,8-TCDF	EPA-5 1613B	70198	0.00000003	0.00001	ND	1.03	03/11/10	03/15/10	
OCDD	EPA-5 1613B	70198	0.0000012	0.0001	9.6e-006	1.03	03/11/10	03/15/10	J, B
OCDF	EPA-5 1613B	70198	0.0000007	0.0001	1.9e-006	1.03	03/11/10	03/15/10	J, Q, B
Total HpCDD	EPA-5 1613B	70198	0.00000053	0.00005	4.1e-006	1.03	03/11/10	03/15/10	J, Q, B
Total HpCDF	EPA-5 1613B	70198	0.0000006	0.00005	1.7e-006	1.03	03/11/10	03/15/10	J, Q, B
Total HxCDD	EPA-5 1613B	70198	0.00000005	0.00005	3.3e-006	1.03	03/11/10	03/15/10	J, B
Total HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	2.6e-006	1.03	03/11/10	03/15/10	J, Q, B
Total PeCDD	EPA-5 1613B	70198	0.00000097	0.00005	2e-006	1.03	03/11/10	03/15/10	J, Q
Total PeCDF	EPA-5 1613B	70198	0.00000004	0.00005	5.2e-007	1.03	03/11/10	03/15/10	J, Q, B
Total TCDD	EPA-5 1613B	70198	0.00000003	0.00001	ND	1.03	03/11/10	03/15/10	
Total TCDF	EPA-5 1613B	70198	0.00000003	0.00001	ND	1.03	03/11/10	03/15/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	87 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	84 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	80 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	91 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	87 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	80 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	82 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	80 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	72 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	64 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	83 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	62 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	71 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	66 %
Surrogate: 13C-OCDD (17-157%)	88 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	90 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C1320 Extracted: 03/10/10</b>											
<b>Blank Analyzed: 03/11/2010 (10C1320-BLK1)</b>											
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 03/11/2010 (10C1320-BS1)</b>											
Copper	78.4	2.0	0.50	ug/l	80.0		98	85-115			
Lead	80.3	1.0	0.20	ug/l	80.0		100	85-115			
<b>Matrix Spike Analyzed: 03/11/2010 (10C1320-MS1)</b>											
						<b>Source: ITC0790-03</b>					
Copper	79.6	2.0	0.50	ug/l	80.0	1.76	97	70-130			
Lead	75.7	1.0	0.20	ug/l	80.0	0.316	94	70-130			
<b>Matrix Spike Analyzed: 03/11/2010 (10C1320-MS2)</b>											
						<b>Source: ITC0791-03</b>					
Copper	79.8	2.0	0.50	ug/l	80.0	1.36	98	70-130			
Lead	75.1	1.0	0.20	ug/l	80.0	0.231	94	70-130			
<b>Matrix Spike Dup Analyzed: 03/11/2010 (10C1320-MSD1)</b>											
						<b>Source: ITC0790-03</b>					
Copper	79.1	2.0	0.50	ug/l	80.0	1.76	97	70-130	0.6	20	
Lead	73.6	1.0	0.20	ug/l	80.0	0.316	92	70-130	3	20	

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager



MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
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 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10

Received: 03/08/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C1493 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/11/2010 (10C1493-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/11/2010 (10C1493-BS1)</b>											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 03/11/2010 (10C1493-DUP1)</b>											
Total Suspended Solids	162	10	1.0	mg/l		Source: ITC0808-01 163			0.6	10	

TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

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Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000033	0.00005	0.0000074	ug/L				-			J, Q
1,2,3,4,6,7,8-HpCDF	0.000024	0.00005	0.0000082	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.000016	0.00005	0.000001	ug/L				-			J
1,2,3,4,7,8-HxCDD	0.000011	0.00005	0.0000071	ug/L				-			J, Q
1,2,3,4,7,8-HxCDF	0.000018	0.00005	0.0000021	ug/L				-			J
1,2,3,6,7,8-HxCDD	0.000015	0.00005	0.0000065	ug/L				-			J
1,2,3,6,7,8-HxCDF	0.000001	0.00005	0.0000002	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	0.000012	0.00005	0.0000061	ug/L				-			J, Q
1,2,3,7,8,9-HxCDF	0.000015	0.00005	0.0000022	ug/L				-			J, Q
1,2,3,7,8-PeCDD	ND	0.00005	0.0000032	ug/L				-			
1,2,3,7,8-PeCDF	0.000012	0.00005	0.0000004	ug/L				-			J
2,3,4,6,7,8-HxCDF	0.000016	0.00005	0.0000019	ug/L				-			J
2,3,4,7,8-PeCDF	0.000008	0.00005	0.0000004	ug/L				-			J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000003	ug/L				-			
2,3,7,8-TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
OCDD	0.000017	0.0001	0.0000084	ug/L				-			J
OCDF	0.000061	0.0001	0.0000067	ug/L				-			J
Total HpCDD	0.000006	0.00005	0.0000074	ug/L				-			J, Q
Total HpCDF	0.000004	0.00005	0.0000082	ug/L				-			J, Q
Total HxCDD	0.000039	0.00005	0.0000061	ug/L				-			J, Q
Total HxCDF	0.000063	0.00005	0.0000019	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000032	ug/L				-			
Total PeCDF	0.000024	0.00005	0.0000004	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000003	ug/L				-			
Total TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0015			ug/L	0.002		73	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		69	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0014			ug/L	0.002		69	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.002		74	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0014			ug/L	0.002		71	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0013			ug/L	0.002		67	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0013			ug/L	0.002		66	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		61	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.001			ug/L	0.002		52	24-185			

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0014			ug/L	0.002		70	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0011			ug/L	0.002		53	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0011			ug/L	0.002		57	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.001			ug/L	0.002		52	24-169			
Surrogate: 13C-OCDD	0.0029			ug/L	0.004		74	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00074			ug/L	0.0008		92	35-197			
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.0000016	ug/L	0.001		106	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.0000021	ug/L	0.001		106	82-122			B
1,2,3,4,7,8,9-HpCDF	0.0011	0.00005	0.0000029	ug/L	0.001		110	78-138			B
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000032	ug/L	0.001		104	70-164			B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	72-134			B
1,2,3,6,7,8-HxCDD	0.000997	0.00005	0.0000003	ug/L	0.001		100	76-134			B
1,2,3,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	84-130			B
1,2,3,7,8,9-HxCDD	0.000993	0.00005	0.00000028	ug/L	0.001		99	64-162			B
1,2,3,7,8,9-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	78-130			B
1,2,3,7,8-PeCDD	0.000957	0.00005	0.0000021	ug/L	0.001		96	70-142			
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000011	ug/L	0.001		106	80-134			B
2,3,4,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	70-156			B
2,3,4,7,8-PeCDF	0.00108	0.00005	0.0000012	ug/L	0.001		108	68-160			B
2,3,7,8-TCDD	0.000201	0.00001	0.00000002	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000195	0.00001	0.00000002	ug/L	0.0002		98	75-158			B
OCDD	0.00204	0.0001	0.0000015	ug/L	0.002		102	78-144			B
OCDF	0.00194	0.0001	0.00000081	ug/L	0.002		97	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00181			ug/L	0.002		91	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00175			ug/L	0.002		88	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017			ug/L	0.002		85	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00195			ug/L	0.002		98	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00182			ug/L	0.002		91	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.002		84	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00164			ug/L	0.002		82	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00169			ug/L	0.002		85	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00151			ug/L	0.002		76	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00129			ug/L	0.002		65	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00174			ug/L	0.002		87	22-176			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00145			ug/L	0.002		73	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00137			ug/L	0.002		68	22-152			
Surrogate: 13C-OCDD	0.00375			ug/L	0.004		94	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000741			ug/L	0.0008		93	31-191			
<b>Blank Analyzed: 03/16/2010 (G0C1100098RE1)</b>											
2,3,7,8-TCDF	ND	0.00001	0.0000026	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0012			ug/L	0.002		58	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.0007			ug/L	0.0008		87	35-197			

TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
Received: 03/08/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF008 ISRA Performance Sampling

Report Number: ITC0797

Sampled: 03/07/10  
Received: 03/08/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITC0797-01

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

# Chain of Custody Record

JTC0797

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 3/7/10</b>		<b>COC No: 19</b>									
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		1 of 7 COCs									
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b> Calendar (C) or Work Days (W) _____ TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Job No.							
Walnut Creek, CA 94596										SDG No.							
Phone: 925-627-4500										Sample Specific Notes:							
FAX: 925-627-4501																	
Project Name: OF008 ISRA Performance Sampling																	
Site: Outfall 008																	
P O #																	
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b>	<b>Matrix</b>	<b># of Cont.</b>	<b>Filtered Sample</b>	<b>Cadmium, total by 200.8</b>	<b>Copper, total by 200.8</b>	<b>Lead, total by 200.8</b>	<b>Mercury, total by 245.1</b>	<b>Dioxin by 1613</b>	<b>Total Suspended Solids by 2540</b>				
HZSW0003S005		3/7/10	1140	2 <sup>ppm</sup> Water	Water	3		X	X	X	X			Primary Downgradient, CYN-1, DRG-1			
<del>HZSW0004S003 SV</del>				Water	Water	2					H	H		Secondary Downgradient, DRG-1			
<del>HZSW0005S004 SV</del>				Water	Water	2					H	H		Upgradient, DRG-1			
<del>HZSW0006S001 SV</del>				Water	Water	3		X	X	X	X			Upgradient, CYN-1, DRG-1			
<del>HZSW0007S005 SV</del>				Water	Water	3		X	X	X	X			Primary Downgradient (all HVS)			
<del>HZSW0008S001 SV</del>				Water	Water	3			X	X	X			Upgradient, HVS-1			
<del>HZSW0009S002 SV</del>				Water	Water	3			H	H	H			Secondary Downgradient, HVS-1			
<del>HZSW0010S004 SV</del>				Water	Water	3			H		H	H		Secondary Downgradient, HVS-3, -4			
<del>HZSW0011S002 SV</del>				Water	Water	3		X		X	X			Upgradient, HVS-3			
<del>HZSW0012S002 SV</del>				Water	Water	2			X		X			Upgradient, HVS-2C			
<del>HZSW0013S001 SV</del>				Water	Water	2			H		H			Secondary Downgradient, HVS-2C			
<del>HZSW0014S002 SV</del>				Water	Water	2		X	X		X			Upgradient, HVS-2B-1, HVS-2B-2			
<b>Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other</b>							4 4 4 1 1										
<b>Possible Hazard Identification</b>							<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
<b>Special Instructions/QC Requirements &amp; Comments:</b>																	
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access																	
Bill MWH-Arcadia																	
Report Level II Data Package and provide EDD																	
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold																	
Relinquished by:			Company: MWH			Date/Time: 3/7/10 1240			Received by:			Company: MWH			Date/Time: 3/7/10 1240		
Relinquished by:			Company: MWH			Date/Time: 3/7/10 1415			Received by:			Company: TA-I			Date/Time: 3/7/10 1415		
Relinquished by:			Company: TA-I			Date/Time: 3/7/10 1645			Received by:			Company: TA-I			Date/Time: 3/8/10 0345		

MS  
 3/8/10  
 7:10

From rec fridge

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 03/07/10  
Received: 03/08/10  
Issued: 03/19/10 17:14

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** WATER, 1613B, Dioxins/Furans with Totals

Some analytes in these samples and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

#### LABORATORY ID

ITC0798-01

ITC0798-02

#### CLIENT ID

A2SW0006S004

A2SW0002S005

#### MATRIX

Water

Water

Reviewed By:

*Debby Wilson*

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager



MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10

Received: 03/08/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0798-01 (A2SW0006S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10C1120	0.20	1.0	1.5	1	03/09/10	03/09/10	
<b>Sample ID: ITC0798-02 (A2SW0002S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10C1120	0.20	1.0	ND	1	03/09/10	03/09/10	

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10

Received: 03/08/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0798-01 (A2SW0006S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: mg/l</b>									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	ND	1	03/11/10	03/11/10	
<b>Sample ID: ITC0798-02 (A2SW0002S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: mg/l</b>									
Total Suspended Solids	SM 2540D	10C1493	1.0	10	<b>10</b>	1	03/11/10	03/11/10	

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0798-01 (A2SW0006S004 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	70198	0.00000069	0.00005	2e-005	0.95	03/11/10	03/15/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	70198	0.00000007	0.00005	2.8e-006	0.95	03/11/10	03/15/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	70198	0.00000096	0.00005	ND	0.95	03/11/10	03/15/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	70198	0.00000035	0.00005	8.6e-007	0.95	03/11/10	03/15/10	J, Q, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	70198	0.00000002	0.00005	9.9e-007	0.95	03/11/10	03/15/10	J, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	70198	0.00000032	0.00005	1.4e-006	0.95	03/11/10	03/15/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000002	0.00005	5.8e-007	0.95	03/11/10	03/15/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	70198	0.00000003	0.00005	1.7e-006	0.95	03/11/10	03/15/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	70198	0.00000002	0.00005	9.2e-007	0.95	03/11/10	03/15/10	J, B
1,2,3,7,8-PeCDD	EPA-5 1613B	70198	0.00000069	0.00005	ND	0.95	03/11/10	03/15/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	70198	0.00000003	0.00005	ND	0.95	03/11/10	03/15/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000002	0.00005	8.1e-007	0.95	03/11/10	03/15/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	70198	0.00000003	0.00005	ND	0.95	03/11/10	03/15/10	
2,3,7,8-TCDD	EPA-5 1613B	70198	0.00000002	0.00001	ND	0.95	03/11/10	03/15/10	
2,3,7,8-TCDF	EPA-5 1613B	70198	0.00000002	0.00001	5.8e-007	0.95	03/11/10	03/15/10	J, Q, B
OCDD	EPA-5 1613B	70198	0.0000015	0.0001	0.00022	0.95	03/11/10	03/15/10	B
OCDF	EPA-5 1613B	70198	0.00000053	0.0001	1.3e-005	0.95	03/11/10	03/15/10	J, B
Total HpCDD	EPA-5 1613B	70198	0.00000069	0.00005	4.4e-005	0.95	03/11/10	03/15/10	J, B
Total HpCDF	EPA-5 1613B	70198	0.00000007	0.00005	9e-006	0.95	03/11/10	03/15/10	J, Q, B
Total HxCDD	EPA-5 1613B	70198	0.00000003	0.00005	9e-006	0.95	03/11/10	03/15/10	J, Q, B
Total HxCDF	EPA-5 1613B	70198	0.00000002	0.00005	4.3e-006	0.95	03/11/10	03/15/10	J, Q, B
Total PeCDD	EPA-5 1613B	70198	0.00000069	0.00005	2.4e-006	0.95	03/11/10	03/15/10	J, Q
Total PeCDF	EPA-5 1613B	70198	0.00000002	0.00005	6.4e-007	0.95	03/11/10	03/15/10	J, Q, B
Total TCDD	EPA-5 1613B	70198	0.00000002	0.00001	ND	0.95	03/11/10	03/15/10	
Total TCDF	EPA-5 1613B	70198	0.00000002	0.00001	5.8e-007	0.95	03/11/10	03/15/10	J, Q, B

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	84 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	82 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	78 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	87 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	82 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	79 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	80 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	76 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	72 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	65 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	79 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	63 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	73 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	69 %
Surrogate: 13C-OCDD (17-157%)	84 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	90 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10

Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0798-01RE1 (A2SW0006S004 - Water) - cont.</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: ug/L</b>									
2,3,7,8-TCDF	EPA-5 1613B	70198	0.0000014	0.0000095	ND	0.95	03/11/10	03/16/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>					71 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>					84 %				

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
Received: 03/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITC0798-02 (A2SW0002S005 - Water)</b>					<b>Sampled: 03/07/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	70198	0.00000067	0.00005	5.9e-006	1	03/11/10	03/15/10	J, B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	70198	0.00000047	0.00005	1.7e-006	1	03/11/10	03/15/10	J, Q, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	70198	0.00000062	0.00005	ND	1	03/11/10	03/15/10	
1,2,3,4,7,8-HxCDD	EPA-5 1613B	70198	0.00000002	0.00005	ND	1	03/11/10	03/15/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	6.6e-007	1	03/11/10	03/15/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	70198	0.00000002	0.00005	6.9e-007	1	03/11/10	03/15/10	J, Q, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000009	0.00005	3.9e-007	1	03/11/10	03/15/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	70198	0.00000002	0.00005	9.1e-007	1	03/11/10	03/15/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	70198	0.00000001	0.00005	3.5e-007	1	03/11/10	03/15/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	70198	0.00000075	0.00005	ND	1	03/11/10	03/15/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	70198	0.00000003	0.00005	ND	1	03/11/10	03/15/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	70198	0.00000009	0.00005	4.9e-007	1	03/11/10	03/15/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	70198	0.00000003	0.00005	ND	1	03/11/10	03/15/10	
2,3,7,8-TCDD	EPA-5 1613B	70198	0.00000002	0.00001	ND	1	03/11/10	03/15/10	
2,3,7,8-TCDF	EPA-5 1613B	70198	0.00000003	0.00001	ND	1	03/11/10	03/15/10	
OCDD	EPA-5 1613B	70198	0.00000071	0.0001	5.1e-005	1	03/11/10	03/15/10	J, B
OCDF	EPA-5 1613B	70198	0.00000031	0.0001	4.2e-006	1	03/11/10	03/15/10	J, B
Total HpCDD	EPA-5 1613B	70198	0.00000067	0.00005	1.1e-005	1	03/11/10	03/15/10	J, Q, B
Total HpCDF	EPA-5 1613B	70198	0.00000047	0.00005	3.5e-006	1	03/11/10	03/15/10	J, Q, B
Total HxCDD	EPA-5 1613B	70198	0.00000002	0.00005	1.6e-006	1	03/11/10	03/15/10	J, Q, B
Total HxCDF	EPA-5 1613B	70198	0.00000009	0.00005	2.3e-006	1	03/11/10	03/15/10	J, Q, B
Total PeCDD	EPA-5 1613B	70198	0.00000075	0.00005	2.8e-006	1	03/11/10	03/15/10	J, Q
Total PeCDF	EPA-5 1613B	70198	0.00000003	0.00005	ND	1	03/11/10	03/15/10	
Total TCDD	EPA-5 1613B	70198	0.00000002	0.00001	ND	1	03/11/10	03/15/10	
Total TCDF	EPA-5 1613B	70198	0.00000003	0.00001	ND	1	03/11/10	03/15/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	68 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	64 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	65 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	67 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	65 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	62 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	62 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	63 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	59 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	52 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	63 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	52 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	57 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	54 %
Surrogate: 13C-OCDD (17-157%)	74 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	92 %

### TestAmerica Irvine

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Project Manager

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10C1120 Extracted: 03/09/10</b>											
<b>Blank Analyzed: 03/09/2010 (10C1120-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 03/09/2010 (10C1120-BS1)</b>											
Lead	83.1	1.0	0.20	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 03/09/2010 (10C1120-MS1)</b>											
						<b>Source: ITC0798-01</b>					
Lead	81.5	1.0	0.20	ug/l	80.0	1.46	100	70-130			
<b>Matrix Spike Dup Analyzed: 03/09/2010 (10C1120-MSD1)</b>											
						<b>Source: ITC0798-01</b>					
Lead	83.2	1.0	0.20	ug/l	80.0	1.46	102	70-130	2	20	

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 Received: 03/08/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 10C1493 Extracted: 03/11/10</u></b>											
<b>Blank Analyzed: 03/11/2010 (10C1493-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 03/11/2010 (10C1493-BS1)</b>											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 03/11/2010 (10C1493-DUP1)</b>											
Total Suspended Solids	162	10	1.0	mg/l		Source: ITC0808-01 163			0.6	10	

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Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.000033	0.00005	0.0000074	ug/L				-			J, Q
1,2,3,4,6,7,8-HpCDF	0.000024	0.00005	0.0000082	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.000016	0.00005	0.000001	ug/L				-			J
1,2,3,4,7,8-HxCDD	0.000011	0.00005	0.0000071	ug/L				-			J, Q
1,2,3,4,7,8-HxCDF	0.000018	0.00005	0.0000021	ug/L				-			J
1,2,3,6,7,8-HxCDD	0.000015	0.00005	0.0000065	ug/L				-			J
1,2,3,6,7,8-HxCDF	0.000001	0.00005	0.0000002	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	0.000012	0.00005	0.0000061	ug/L				-			J, Q
1,2,3,7,8,9-HxCDF	0.000015	0.00005	0.0000022	ug/L				-			J, Q
1,2,3,7,8-PeCDD	ND	0.00005	0.0000032	ug/L				-			
1,2,3,7,8-PeCDF	0.000012	0.00005	0.0000004	ug/L				-			J
2,3,4,6,7,8-HxCDF	0.000016	0.00005	0.0000019	ug/L				-			J
2,3,4,7,8-PeCDF	0.000008	0.00005	0.0000004	ug/L				-			J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000003	ug/L				-			
2,3,7,8-TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
OCDD	0.000017	0.0001	0.0000084	ug/L				-			J
OCDF	0.000061	0.0001	0.0000067	ug/L				-			J
Total HpCDD	0.000006	0.00005	0.0000074	ug/L				-			J, Q
Total HpCDF	0.000004	0.00005	0.0000082	ug/L				-			J, Q
Total HxCDD	0.000039	0.00005	0.0000061	ug/L				-			J, Q
Total HxCDF	0.000063	0.00005	0.0000019	ug/L				-			J, Q
Total PeCDD	ND	0.00005	0.0000032	ug/L				-			
Total PeCDF	0.000024	0.00005	0.0000004	ug/L				-			J, Q
Total TCDD	ND	0.00001	0.0000003	ug/L				-			
Total TCDF	0.0000086	0.00001	0.0000004	ug/L				-			J
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0015			ug/L	0.002		73	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0014			ug/L	0.002		69	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0014			ug/L	0.002		69	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.002		74	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.002		70	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0014			ug/L	0.002		71	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0013			ug/L	0.002		67	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0013			ug/L	0.002		66	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0012			ug/L	0.002		61	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.001			ug/L	0.002		52	24-185			

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Project Manager



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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>Blank Analyzed: 03/15/2010 (G0C110000198B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0014			ug/L	0.002		70	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0011			ug/L	0.002		53	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0011			ug/L	0.002		57	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.001			ug/L	0.002		52	24-169			
Surrogate: 13C-OCDD	0.0029			ug/L	0.004		74	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00074			ug/L	0.0008		92	35-197			
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00106	0.00005	0.0000016	ug/L	0.001		106	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.0000021	ug/L	0.001		106	82-122			B
1,2,3,4,7,8,9-HpCDF	0.0011	0.00005	0.0000029	ug/L	0.001		110	78-138			B
1,2,3,4,7,8-HxCDD	0.00104	0.00005	0.0000032	ug/L	0.001		104	70-164			B
1,2,3,4,7,8-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	72-134			B
1,2,3,6,7,8-HxCDD	0.000997	0.00005	0.0000003	ug/L	0.001		100	76-134			B
1,2,3,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	84-130			B
1,2,3,7,8,9-HxCDD	0.000993	0.00005	0.00000028	ug/L	0.001		99	64-162			B
1,2,3,7,8,9-HxCDF	0.00108	0.00005	0.0000001	ug/L	0.001		108	78-130			B
1,2,3,7,8-PeCDD	0.000957	0.00005	0.0000021	ug/L	0.001		96	70-142			
1,2,3,7,8-PeCDF	0.00106	0.00005	0.0000011	ug/L	0.001		106	80-134			B
2,3,4,6,7,8-HxCDF	0.00109	0.00005	0.0000001	ug/L	0.001		109	70-156			B
2,3,4,7,8-PeCDF	0.00108	0.00005	0.0000012	ug/L	0.001		108	68-160			B
2,3,7,8-TCDD	0.000201	0.00001	0.00000002	ug/L	0.0002		100	67-158			
2,3,7,8-TCDF	0.000195	0.00001	0.00000002	ug/L	0.0002		98	75-158			B
OCDD	0.00204	0.0001	0.0000015	ug/L	0.002		102	78-144			B
OCDF	0.00194	0.0001	0.00000081	ug/L	0.002		97	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00181			ug/L	0.002		91	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00175			ug/L	0.002		88	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017			ug/L	0.002		85	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00195			ug/L	0.002		98	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00182			ug/L	0.002		91	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.002		84	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00164			ug/L	0.002		82	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00169			ug/L	0.002		85	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00151			ug/L	0.002		76	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00129			ug/L	0.002		65	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00174			ug/L	0.002		87	22-176			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
 Received: 03/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 70198 Extracted: 03/11/10</b>											
<b>LCS Analyzed: 03/15/2010 (G0C110000198C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00132			ug/L	0.002		66	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00145			ug/L	0.002		73	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.00137			ug/L	0.002		68	22-152			
Surrogate: 13C-OCDD	0.00375			ug/L	0.004		94	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000741			ug/L	0.0008		93	31-191			
<b>Blank Analyzed: 03/16/2010 (G0C1100098RE1)</b>											
2,3,7,8-TCDF	ND	0.00001	0.0000026	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0012			ug/L	0.002		58	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.0007			ug/L	0.0008		87	35-197			

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Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10

Received: 03/08/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J** Estimated result. Result is less than the reporting limit.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITC0798

Sampled: 03/07/10  
Received: 03/08/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITC0798-01, ITC0798-01RE1, ITC0798-02

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

ITCO798

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Alex Fischl		Site Contact: Shelby Valenzuela		Date: 3/7/10		COC No: 15	
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		1 of 7 COCs	
2121 N. California Blvd. Suite 600		Analysis Turnaround Time		Filtered Sample Cadmium, total by 200.8 Copper, total by 200.8 Lead, total by 200.8 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540				Job No.	
Walnut Creek, CA 94596		Calendar ( C ) or Work Days (W) _____							
Phone: 925-627-4500		TAT if different from Below _____							
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: OF009 ISRA Performance Sampling									
Site: Outfall 009								SDG No.	
PO #								Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.				
<del>A2SW0001S004</del>				Water	3				Upgradient west, A2LF-3
A2SW0006S004	3/7/10	0959	1 Amber Poly	Water	3		X	X	Upgradient east, A2LF-3
A2SW0002S005	11	10/16	1 Amber Poly	Water	3		X	X	Primary Downgradient, A2LF-3
<del>A2SW0003S001</del>				Water	2			X	Upgradient, A2LF-1
<del>A2SW0004S001</del>				Water	2			X	Primary Downgradient, A2LF-1
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____						4	1	1	
Possible Hazard Identification						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements & Comments:									
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access									
Bill MWH-Arcadia									
Report Level II Data Package and provide EDD									
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold									
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
		MWH		3/7/10 1240				MWH	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
		MWH		3/7/10 1415				TA-I	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
		TA-I		3/7/10 1645				TA-I	

MWS  
 3/8/10  
 7:20

Intact / 4°C

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: Outfall 009

Sampled: 04/05/10  
Received: 04/05/10  
Issued: 04/20/10 21:57

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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(s) of Custody, 3 pages, are included and are 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:** Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

**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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** Sample ITD0283-03 was received under coc on April 7, 2010. Samples ITD0283-01 and ITD0283-02 were received under coc on April 10. Both COC's are included in this report.  
Sample:1,2,3  
Some analytes in these samples and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.  
Sample 1  
Some analytes in this sample and the associated method blank are reported at a concentration below the estimated detection limit (EDL). The data is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2:5:1..

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

**LABORATORY ID**

ITD0283-01

ITD0283-02

ITD0283-03

**CLIENT ID**

A1SW0004S007

A2SW0001S004

A2SW0002S006

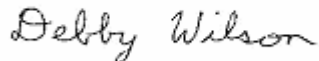
**MATRIX**

Water

Water

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

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**ITD0283 <Page 2 of 21>**

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-01 (A1SW0004S007 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: ug/l									
Mercury	EPA 245.1	10D0779	0.10	0.20	ND	1	04/07/10	04/07/10	
Cadmium	EPA 200.8	10D0554	0.10	1.0	<b>0.23</b>	1	04/06/10	04/13/10	J
Copper	EPA 200.8	10D0554	0.50	2.0	<b>7.6</b>	1	04/06/10	04/13/10	
Lead	EPA 200.8	10D0554	0.20	1.0	<b>7.3</b>	1	04/06/10	04/13/10	
<b>Sample ID: ITD0283-02 (A2SW0001S004 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10D1004	0.20	1.0	<b>5.1</b>	1	04/09/10	04/12/10	
<b>Sample ID: ITD0283-03 (A2SW0002S006 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: ug/l									
Lead	EPA 200.8	10D0554	0.20	1.0	<b>2.9</b>	1	04/06/10	04/13/10	

### TestAmerica Irvine

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 618 Michillinda Avenue, Suite 200  
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 Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-01 (A1SW0004S007 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10D0785	1.0	10	23	1	04/07/10	04/07/10	
<b>Sample ID: ITD0283-02 (A2SW0001S004 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10D0940	1.0	10	17	1	04/08/10	04/08/10	
<b>Sample ID: ITD0283-03 (A2SW0002S006 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10D0785	1.0	10	11	1	04/07/10	04/07/10	
<b>Sample ID: ITD0283-01 (A1SW0004S007 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: pH Units									
pH	EPA 9040B	10D0697	0.100	0.100	7.73	1	04/07/10	04/07/10	HFT
<b>Sample ID: ITD0283-02 (A2SW0001S004 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: pH Units									
pH	EPA 9040B	10D1010	0.100	0.100	7.01	1	04/09/10	04/09/10	HFT
<b>Sample ID: ITD0283-03 (A2SW0002S006 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: pH Units									
pH	EPA 9040B	10D0697	0.100	0.100	7.55	1	04/07/10	04/07/10	HFT

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Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-01 (A1SW0004S007 - Water)</b>					<b>Sampled: 04/05/10</b>				
<b>Reporting Units: ug/L</b>									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	102334	0.0000013	0.000052	<b>0.00011</b>	1.03	04/12/10	04/14/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	102334	0.0000078	0.000052	<b>0.000025</b>	1.03	04/12/10	04/14/10	J
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	102334	0.0000013	0.000052	<b>0.000022</b>	1.03	04/12/10	04/14/10	J, Q
1,2,3,4,7,8-HxCDD	EPA-5 1613B	102334	0.0000059	0.000052	<b>0.000035</b>	1.03	04/12/10	04/14/10	J
1,2,3,4,7,8-HxCDF	EPA-5 1613B	102334	0.0000078	0.000052	ND	1.03	04/12/10	04/14/10	
1,2,3,6,7,8-HxCDD	EPA-5 1613B	102334	0.0000055	0.000052	<b>0.000008</b>	1.03	04/12/10	04/14/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	102334	0.0000072	0.000052	ND	1.03	04/12/10	04/14/10	
1,2,3,7,8,9-HxCDD	EPA-5 1613B	102334	0.0000047	0.000052	<b>0.000055</b>	1.03	04/12/10	04/14/10	J, Q
1,2,3,7,8,9-HxCDF	EPA-5 1613B	102334	0.0000081	0.000052	ND	1.03	04/12/10	04/14/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	102334	0.0000014	0.000052	ND	1.03	04/12/10	04/14/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	102334	0.0000012	0.000052	ND	1.03	04/12/10	04/14/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	102334	0.0000006	0.000052	ND	1.03	04/12/10	04/14/10	
2,3,4,7,8-PeCDF	EPA-5 1613B	102334	0.0000014	0.000052	ND	1.03	04/12/10	04/14/10	
2,3,7,8-TCDD	EPA-5 1613B	102334	0.0000055	0.00001	ND	1.03	04/12/10	04/14/10	
2,3,7,8-TCDF	EPA-5 1613B	102334	0.0000064	0.00001	<b>0.000003</b>	1.03	04/12/10	04/14/10	J, Q
OCDD	EPA-5 1613B	102334	0.000002	0.0001	<b>0.00082</b>	1.03	04/12/10	04/14/10	B
OCDF	EPA-5 1613B	102334	0.0000011	0.0001	<b>0.000057</b>	1.03	04/12/10	04/14/10	J, B
Total HpCDD	EPA-5 1613B	102334	0.0000013	0.000052	<b>0.00029</b>	1.03	04/12/10	04/14/10	
Total HpCDF	EPA-5 1613B	102334	0.0000078	0.000052	<b>0.000068</b>	1.03	04/12/10	04/14/10	J, Q
Total HxCDD	EPA-5 1613B	102334	0.0000047	0.000052	<b>0.000037</b>	1.03	04/12/10	04/14/10	J, Q
Total HxCDF	EPA-5 1613B	102334	0.0000062	0.000052	<b>0.000016</b>	1.03	04/12/10	04/14/10	J, Q
Total PeCDD	EPA-5 1613B	102334	0.0000014	0.000052	ND	1.03	04/12/10	04/14/10	
Total PeCDF	EPA-5 1613B	102334	0.0000012	0.000052	ND	1.03	04/12/10	04/14/10	
Total TCDD	EPA-5 1613B	102334	0.0000055	0.00001	ND	1.03	04/12/10	04/14/10	
Total TCDF	EPA-5 1613B	102334	0.0000064	0.00001	<b>0.000003</b>	1.03	04/12/10	04/14/10	J, Q
<i>Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)</i>					36 %				
<i>Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)</i>					35 %				
<i>Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)</i>					33 %				
<i>Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)</i>					32 %				
<i>Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)</i>					32 %				
<i>Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)</i>					31 %				
<i>Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)</i>					31 %				
<i>Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)</i>					31 %				
<i>Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)</i>					31 %				
<i>Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)</i>					31 %				
<i>Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)</i>					33 %				
<i>Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)</i>					30 %				
<i>Surrogate: 13C-2,3,7,8-TCDD (25-164%)</i>					28 %				
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>					29 %				
<i>Surrogate: 13C-OCDD (17-157%)</i>					35 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>					89 %				

### TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-01RE1 (A1SW0004S007 - Water) - cont.</b>					<b>Sampled: 04/05/10</b>				
<b>Reporting Units: ug/L</b>									
2,3,7,8-TCDF	EPA-5 1613B	102334	0.0000037	0.00001	ND	1.03	04/12/10	04/14/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>									27 %
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>									59 %

### TestAmerica Irvine

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Project Manager

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618 Michillinda Avenue, Suite 200  
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Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-02 (A2SW0001S004 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	102334	0.0000028	0.000049	<b>0.00053</b>	0.97	04/12/10	04/14/10	
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	102334	0.0000095	0.000049	<b>0.00012</b>	0.97	04/12/10	04/14/10	
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	102334	0.0000017	0.000049	<b>0.000007</b>	0.97	04/12/10	04/14/10	J
1,2,3,4,7,8-HxCDD	EPA-5 1613B	102334	0.0000023	0.000049	<b>0.000014</b>	0.97	04/12/10	04/14/10	J
1,2,3,4,7,8-HxCDF	EPA-5 1613B	102334	0.000001	0.000049	<b>0.0000047</b>	0.97	04/12/10	04/14/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	102334	0.0000098	0.000049	<b>0.000025</b>	0.97	04/12/10	04/14/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	102334	0.0000096	0.000049	<b>0.0000046</b>	0.97	04/12/10	04/14/10	J, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	102334	0.0000085	0.000049	<b>0.000028</b>	0.97	04/12/10	04/14/10	J, Q
1,2,3,7,8,9-HxCDF	EPA-5 1613B	102334	0.0000011	0.000049	ND	0.97	04/12/10	04/14/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	102334	0.0000016	0.000049	<b>0.0000084</b>	0.97	04/12/10	04/14/10	J
1,2,3,7,8-PeCDF	EPA-5 1613B	102334	0.000001	0.000049	ND	0.97	04/12/10	04/14/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	102334	0.0000083	0.000049	<b>0.000003</b>	0.97	04/12/10	04/14/10	J
2,3,4,7,8-PeCDF	EPA-5 1613B	102334	0.0000011	0.000049	ND	0.97	04/12/10	04/14/10	
2,3,7,8-TCDD	EPA-5 1613B	102334	0.00000530	0.000097	ND	0.97	04/12/10	04/14/10	
2,3,7,8-TCDF	EPA-5 1613B	102334	0.0000006	0.000097	<b>0.0000024</b>	0.97	04/12/10	04/14/10	J
OCDD	EPA-5 1613B	102334	0.0000047	0.000097	<b>0.0051</b>	0.97	04/12/10	04/14/10	B
OCDF	EPA-5 1613B	102334	0.0000014	0.000097	<b>0.00031</b>	0.97	04/12/10	04/14/10	B
Total HpCDD	EPA-5 1613B	102334	0.0000028	0.000049	<b>0.001</b>	0.97	04/12/10	04/14/10	
Total HpCDF	EPA-5 1613B	102334	0.0000095	0.000049	<b>0.00027</b>	0.97	04/12/10	04/14/10	J
Total HxCDD	EPA-5 1613B	102334	0.0000085	0.000049	<b>0.00015</b>	0.97	04/12/10	04/14/10	J, Q
Total HxCDF	EPA-5 1613B	102334	0.0000083	0.000049	<b>0.00009</b>	0.97	04/12/10	04/14/10	J, Q, B
Total PeCDD	EPA-5 1613B	102334	0.0000016	0.000049	<b>0.0000084</b>	0.97	04/12/10	04/14/10	J
Total PeCDF	EPA-5 1613B	102334	0.000001	0.000049	<b>0.0000065</b>	0.97	04/12/10	04/14/10	J
Total TCDD	EPA-5 1613B	102334	0.00000530	0.000097	ND	0.97	04/12/10	04/14/10	
Total TCDF	EPA-5 1613B	102334	0.0000006	0.000097	<b>0.0000024</b>	0.97	04/12/10	04/14/10	J

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)

41 %

Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)

40 %

Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)

37 %

Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)

36 %

Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)

37 %

Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)

35 %

Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)

36 %

Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)

34 %

Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)

35 %

Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)

36 %

Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)

38 %

Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)

35 %

Surrogate: 13C-2,3,7,8-TCDD (25-164%)

34 %

Surrogate: 13C-2,3,7,8-TCDF (24-169%)

35 %

Surrogate: 13C-OCDD (17-157%)

39 %

Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)

92 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-02RE1 (A2SW0001S004 - Water) - cont.</b>					<b>Sampled: 04/05/10</b>				
<b>Reporting Units: ug/L</b>									
2,3,7,8-TCDF	EPA-5 1613B	102334	0.0000034	0.0000097	ND	0.97	04/12/10	04/14/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>						33 %			
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>						62 %			

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MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0283-03 (A2SW0002S006 - Water)</b>					<b>Sampled: 04/05/10</b>				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	99181	0.000002	0.00005	0.00031	0.98	04/09/10	04/13/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	99181	0.0000015	0.00005	0.000055	0.98	04/09/10	04/13/10	B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	99181	0.0000023	0.00005	0.000037	0.98	04/09/10	04/13/10	J, B
1,2,3,4,7,8-HxCDD	EPA-5 1613B	99181	0.00000054	0.00005	0.000083	0.98	04/09/10	04/13/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	99181	0.0000008	0.00005	0.000024	0.98	04/09/10	04/13/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	99181	0.0000005	0.00005	0.000014	0.98	04/09/10	04/13/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	99181	0.00000073	0.00005	0.000022	0.98	04/09/10	04/13/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	99181	0.00000043	0.00005	0.000017	0.98	04/09/10	04/13/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	99181	0.00000079	0.00005	0.0000071	0.98	04/09/10	04/13/10	J, B
1,2,3,7,8-PeCDD	EPA-5 1613B	99181	0.0000013	0.00005	0.0000061	0.98	04/09/10	04/13/10	J
1,2,3,7,8-PeCDF	EPA-5 1613B	99181	0.00000077	0.00005	ND	0.98	04/09/10	04/13/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	99181	0.00000065	0.00005	0.0000019	0.98	04/09/10	04/13/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	99181	0.00000092	0.00005	ND	0.98	04/09/10	04/13/10	
2,3,7,8-TCDD	EPA-5 1613B	99181	0.00000063	0.00001	ND	0.98	04/09/10	04/13/10	
2,3,7,8-TCDF	EPA-5 1613B	99181	0.00000056	0.00001	ND	0.98	04/09/10	04/13/10	
OCDD	EPA-5 1613B	99181	0.000003	0.0001	0.0037	0.98	04/09/10	04/13/10	B
OCDF	EPA-5 1613B	99181	0.0000007	0.0001	0.00017	0.98	04/09/10	04/13/10	B
Total HpCDD	EPA-5 1613B	99181	0.000002	0.00005	0.00061	0.98	04/09/10	04/13/10	B
Total HpCDF	EPA-5 1613B	99181	0.0000014	0.00005	0.00013	0.98	04/09/10	04/13/10	J, B
Total HxCDD	EPA-5 1613B	99181	0.00000043	0.00005	0.000087	0.98	04/09/10	04/13/10	J, B
Total HxCDF	EPA-5 1613B	99181	0.00000065	0.00005	0.000041	0.98	04/09/10	04/13/10	J, Q, B
Total PeCDD	EPA-5 1613B	99181	0.0000013	0.00005	0.0000061	0.98	04/09/10	04/13/10	J
Total PeCDF	EPA-5 1613B	99181	0.00000019	0.00005	ND	0.98	04/09/10	04/13/10	
Total TCDD	EPA-5 1613B	99181	0.00000032	0.00001	ND	0.98	04/09/10	04/13/10	
Total TCDF	EPA-5 1613B	99181	0.00000028	0.00001	ND	0.98	04/09/10	04/13/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	47 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	43 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	39 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	42 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	41 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	40 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	40 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	38 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	38 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	38 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	41 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	36 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	31 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	30 %
Surrogate: 13C-OCDD (17-157%)	45 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	104 %

### TestAmerica Irvine

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 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10  
Received: 04/05/10

## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: A1SW0004S007 (ITD0283-01) - Water</b>					
EPA 9040B	1	04/05/2010 10:56	04/05/2010 17:30	04/07/2010 08:17	04/07/2010 13:30
<b>Sample ID: A2SW0001S004 (ITD0283-02) - Water</b>					
EPA 9040B	1	04/05/2010 09:52	04/05/2010 17:30	04/09/2010 08:10	04/09/2010 08:10
<b>Sample ID: A2SW0002S006 (ITD0283-03) - Water</b>					
EPA 9040B	1	04/05/2010 10:09	04/05/2010 17:30	04/07/2010 08:17	04/07/2010 13:30

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Project Manager

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Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D0554 Extracted: 04/06/10</b>											
<b>Blank Analyzed: 04/13/2010 (10D0554-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 04/13/2010 (10D0554-BS1)</b>											
Cadmium	78.6	1.0	0.10	ug/l	80.0		98	85-115			
Copper	84.9	2.0	0.50	ug/l	80.0		106	85-115			
Lead	83.0	1.0	0.20	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 04/13/2010 (10D0554-MS1) Source: ITD0283-01</b>											
Cadmium	74.9	1.0	0.10	ug/l	80.0	0.232	93	70-130			
Copper	88.6	2.0	0.50	ug/l	80.0	7.57	101	70-130			
Lead	87.2	1.0	0.20	ug/l	80.0	7.34	100	70-130			
<b>Matrix Spike Dup Analyzed: 04/13/2010 (10D0554-MSD1) Source: ITD0283-01</b>											
Cadmium	79.5	1.0	0.10	ug/l	80.0	0.232	99	70-130	6	20	
Copper	90.6	2.0	0.50	ug/l	80.0	7.57	104	70-130	2	20	
Lead	93.8	1.0	0.20	ug/l	80.0	7.34	108	70-130	7	20	
<b>Batch: 10D0779 Extracted: 04/07/10</b>											
<b>Blank Analyzed: 04/07/2010 (10D0779-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 04/07/2010 (10D0779-BS1)</b>											
Mercury	8.05	0.20	0.10	ug/l	8.00		101	85-115			

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 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D0779 Extracted: 04/07/10</b>											
<b>Matrix Spike Analyzed: 04/07/2010 (10D0779-MS1)</b>						<b>Source: ITD0281-02</b>					
Mercury	8.10	0.20	0.10	ug/l	8.00	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 04/07/2010 (10D0779-MSD1)</b>						<b>Source: ITD0281-02</b>					
Mercury	7.98	0.20	0.10	ug/l	8.00	ND	100	70-130	1	20	
<b>Batch: 10D1004 Extracted: 04/09/10</b>											
<b>Blank Analyzed: 04/12/2010 (10D1004-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 04/12/2010 (10D1004-BS1)</b>											
Lead	77.5	1.0	0.20	ug/l	80.0		97	85-115			
<b>Matrix Spike Analyzed: 04/12/2010 (10D1004-MS1)</b>						<b>Source: ITD0712-01</b>					
Lead	64.5	1.0	0.20	ug/l	80.0	ND	81	70-130			
<b>Matrix Spike Dup Analyzed: 04/12/2010 (10D1004-MSD1)</b>						<b>Source: ITD0712-01</b>					
Lead	64.4	1.0	0.20	ug/l	80.0	ND	81	70-130	0.1	20	

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Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D0697 Extracted: 04/07/10</b>											
<b>Duplicate Analyzed: 04/07/2010 (10D0697-DUP1)</b>						<b>Source: ITD0283-01</b>					
pH	7.71	0.100	0.100	pH Units		7.73			0.3	5	HFT
<b>Duplicate Analyzed: 04/07/2010 (10D0697-DUP2)</b>						<b>Source: ITD0320-04</b>					
pH	7.97	0.100	0.100	pH Units		7.97			0	5	HFT
<b>Batch: 10D0785 Extracted: 04/07/10</b>											
<b>Blank Analyzed: 04/07/2010 (10D0785-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 04/07/2010 (10D0785-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 04/07/2010 (10D0785-DUP1)</b>						<b>Source: ITD0499-01</b>					
Total Suspended Solids	14.0	10	1.0	mg/l		14.0			0	10	
<b>Batch: 10D0940 Extracted: 04/08/10</b>											
<b>Blank Analyzed: 04/08/2010 (10D0940-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 04/08/2010 (10D0940-BS1)</b>											
Total Suspended Solids	1000	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 04/08/2010 (10D0940-DUP1)</b>						<b>Source: ITD0277-01</b>					
Total Suspended Solids	47.0	10	1.0	mg/l		47.0			0	10	

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Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10

Received: 04/05/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D1010 Extracted: 04/09/10</b>											
<b>Duplicate Analyzed: 04/09/2010 (10D1010-DUP1)</b>						<b>Source: ITD0283-02</b>					
pH	6.99	0.100	0.100	pH Units		7.01			0.3	5	HFT
<b>Duplicate Analyzed: 04/09/2010 (10D1010-DUP2)</b>						<b>Source: ITD0748-01</b>					
pH	7.85	0.100	0.100	pH Units		7.85			0	5	HFT

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**ITD0283 <Page 14 of 21>**

MWH-Pasadena/Boeing  
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Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 102334 Extracted: 04/12/10</b>										
<b>Blank Analyzed: 04/13/2010 (G0D120000334B)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	ND	0.00005	0.00000084	ug/L			-			
1,2,3,4,6,7,8-HpCDF	ND	0.00005	0.00000071	ug/L			-			
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000013	ug/L			-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.00000053	ug/L			-			
1,2,3,4,7,8-HxCDF	0.00000074	0.00005	0.00000053	ug/L			-			J
1,2,3,6,7,8-HxCDD	ND	0.00005	0.00000005	ug/L			-			
1,2,3,6,7,8-HxCDF	0.00000051	0.00005	0.00000049	ug/L			-			Q, J
1,2,3,7,8,9-HxCDD	ND	0.00005	0.00000043	ug/L			-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.00000055	ug/L			-			
1,2,3,7,8-PeCDD	ND	0.00005	0.0000011	ug/L			-			
1,2,3,7,8-PeCDF	ND	0.00005	0.00000068	ug/L			-			
2,3,4,6,7,8-HxCDF	ND	0.00005	0.00000004	ug/L			-			
2,3,4,7,8-PeCDF	ND	0.00005	0.00000071	ug/L			-			
2,3,7,8-TCDD	ND	0.00001	0.00000061	ug/L			-			
2,3,7,8-TCDF	ND	0.00001	0.00000057	ug/L			-			
OCDD	0.0000057	0.0001	0.0000014	ug/L			-			J, Q
OCDF	0.0000032	0.0001	0.0000012	ug/L			-			J
Total HpCDD	ND	0.00005	0.00000084	ug/L			-			
Total HpCDF	ND	0.00005	0.00000071	ug/L			-			
Total HxCDD	ND	0.00005	0.00000043	ug/L			-			
Total HxCDF	0.0000012	0.00005	0.00000004	ug/L			-			J, Q
Total PeCDD	ND	0.00005	0.0000011	ug/L			-			
Total PeCDF	ND	0.00005	0.00000068	ug/L			-			
Total TCDD	ND	0.00001	0.00000061	ug/L			-			
Total TCDF	ND	0.00001	0.00000057	ug/L			-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00092			ug/L	0.00200		46	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00085			ug/L	0.00200		43	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00082			ug/L	0.00200		41	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00087			ug/L	0.00200		44	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00083			ug/L	0.00200		41	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00091			ug/L	0.00200		46	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00083			ug/L	0.00200		42	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00084			ug/L	0.00200		42	29-147		
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00081			ug/L	0.00200		40	25-181		
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00076			ug/L	0.00200		38	24-185		

#### TestAmerica Irvine

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 Attention: Alex Fischl

Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 102334 Extracted: 04/12/10</b>										
<b>Blank Analyzed: 04/13/2010 (G0D120000334B)</b>					<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00096			ug/L	0.00200		48	28-136		
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00081			ug/L	0.00200		41	21-178		
Surrogate: 13C-2,3,7,8-TCDD	0.00066			ug/L	0.00200		33	25-164		
Surrogate: 13C-2,3,7,8-TCDF	0.00071			ug/L	0.00200		36	24-169		
Surrogate: 13C-OCDD	0.0016			ug/L	0.00400		40	17-157		
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00072			ug/L	0.000800		90	35-197		
<b>LCS Analyzed: 04/14/2010 (G0D120000334C)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00109	0.00005	0.0000089	ug/L	0.00100		109	70-140		
1,2,3,4,6,7,8-HpCDF	0.0011	0.00005	0.0000016	ug/L	0.00100		110	82-122		
1,2,3,4,7,8,9-HpCDF	0.00116	0.00005	0.0000025	ug/L	0.00100		116	78-138		
1,2,3,4,7,8-HxCDD	0.00111	0.00005	0.0000097	ug/L	0.00100		111	70-164		
1,2,3,4,7,8-HxCDF	0.00115	0.00005	0.0000012	ug/L	0.00100		115	72-134		B
1,2,3,6,7,8-HxCDD	0.00114	0.00005	0.0000089	ug/L	0.00100		114	76-134		
1,2,3,6,7,8-HxCDF	0.0011	0.00005	0.0000011	ug/L	0.00100		110	84-130		B
1,2,3,7,8,9-HxCDD	0.00104	0.00005	0.0000077	ug/L	0.00100		104	64-162		
1,2,3,7,8,9-HxCDF	0.00114	0.00005	0.0000011	ug/L	0.00100		114	78-130		
1,2,3,7,8-PeCDD	0.00112	0.00005	0.0000017	ug/L	0.00100		112	70-142		
1,2,3,7,8-PeCDF	0.00113	0.00005	0.0000019	ug/L	0.00100		113	80-134		
2,3,4,6,7,8-HxCDF	0.00111	0.00005	0.0000088	ug/L	0.00100		111	70-156		
2,3,4,7,8-PeCDF	0.00118	0.00005	0.000002	ug/L	0.00100		118	68-160		
2,3,7,8-TCDD	0.000235	0.00001	0.0000068	ug/L	0.000200		117	67-158		
2,3,7,8-TCDF	0.000224	0.00001	0.0000006	ug/L	0.000200		112	75-158		
OCDD	0.00222	0.0001	0.0000021	ug/L	0.00200		111	78-144		B
OCDF	0.00217	0.0001	0.0000017	ug/L	0.00200		108	63-170		B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00115			ug/L	0.00200		57	26-166		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00115			ug/L	0.00200		58	21-158		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0011			ug/L	0.00200		55	20-186		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.000985			ug/L	0.00200		49	21-193		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.000906			ug/L	0.00200		45	19-202		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.000987			ug/L	0.00200		49	25-163		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.000901			ug/L	0.00200		45	21-159		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.000982			ug/L	0.00200		49	17-205		
Surrogate: 13C-1,2,3,7,8-PeCDD	0.000835			ug/L	0.00200		42	21-227		
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000767			ug/L	0.00200		38	21-192		
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00101			ug/L	0.00200		51	22-176		

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 102334 Extracted: 04/12/10</b>											
<b>LCS Analyzed: 04/14/2010 (G0D120000334C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000795			ug/L	0.00200		40	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00061			ug/L	0.00200		31	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000637			ug/L	0.00200		32	22-152			
Surrogate: 13C-OCDD	0.0023			ug/L	0.00400		57	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00072			ug/L	0.000800		90	31-191			

**Batch: 99181 Extracted: 04/09/10**

**Blank Analyzed: 04/12/2010 (G0D090000181B)**

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Source:</b>											
1,2,3,4,6,7,8-HpCDD	0.0000064	0.00005	0.00000081	ug/L			-				J
1,2,3,4,6,7,8-HpCDF	0.0000021	0.00005	0.00000039	ug/L			-				J, Q
1,2,3,4,7,8,9-HpCDF	0.0000018	0.00005	0.00000066	ug/L			-				J
1,2,3,4,7,8-HxCDD	0.00000095	0.00005	0.00000054	ug/L			-				J, Q
1,2,3,4,7,8-HxCDF	0.0000011	0.00005	0.00000042	ug/L			-				J, Q
1,2,3,6,7,8-HxCDD	0.0000012	0.00005	0.00000005	ug/L			-				J, Q
1,2,3,6,7,8-HxCDF	0.00000082	0.00005	0.00000037	ug/L			-				J, Q
1,2,3,7,8,9-HxCDD	0.0000014	0.00005	0.00000043	ug/L			-				J
1,2,3,7,8,9-HxCDF	0.0000012	0.00005	0.00000004	ug/L			-				J
1,2,3,7,8-PeCDD	0.0000003	0.00005	0.00000073	ug/L			-				J, Q
1,2,3,7,8-PeCDF	ND	0.00005	0.00000069	ug/L			-				
2,3,4,6,7,8-HxCDF	0.0000012	0.00005	0.00000003	ug/L			-				J
2,3,4,7,8-PeCDF	ND	0.00005	0.00000072	ug/L			-				
2,3,7,8-TCDD	ND	0.00001	0.00000054	ug/L			-				
2,3,7,8-TCDF	ND	0.00001	0.00000052	ug/L			-				
OCDD	0.000044	0.0001	0.000001	ug/L			-				J
OCDF	0.0000052	0.0001	0.00000071	ug/L			-				J
Total HpCDD	0.000014	0.00005	0.00000081	ug/L			-				J
Total HpCDF	0.0000051	0.00005	0.00000039	ug/L			-				J, Q
Total HxCDD	0.0000036	0.00005	0.00000043	ug/L			-				J, Q
Total HxCDF	0.0000047	0.00005	0.00000003	ug/L			-				J, Q
Total PeCDD	0.0000003	0.00005	0.00000073	ug/L			-				J, Q
Total PeCDF	ND	0.00005	0.00000058	ug/L			-				
Total TCDD	ND	0.00001	0.00000054	ug/L			-				
Total TCDF	ND	0.00001	0.00000052	ug/L			-				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.001			ug/L	0.00200		51	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00093			ug/L	0.00200		46	28-143			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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**Batch: 99181 Extracted: 04/09/10**

**Blank Analyzed: 04/12/2010 (G0D090000181B)**

**Source:**

Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00084			ug/L	0.00200		42	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00091			ug/L	0.00200		46	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00084			ug/L	0.00200		42	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00095			ug/L	0.00200		47	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00083			ug/L	0.00200		42	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00085			ug/L	0.00200		43	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00087			ug/L	0.00200		44	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00078			ug/L	0.00200		39	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00094			ug/L	0.00200		47	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00083			ug/L	0.00200		42	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00069			ug/L	0.00200		34	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.00074			ug/L	0.00200		37	24-169			
Surrogate: 13C-OCDD	0.002			ug/L	0.00400		51	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00081			ug/L	0.000800		101	35-197			

**LCS Analyzed: 04/13/2010 (G0D090000181C)**

**Source:**

1,2,3,4,6,7,8-HpCDD	0.00107	0.00005	0.0000086	ug/L	0.00100		107	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.000001	ug/L	0.00100		106	82-122			B
1,2,3,4,7,8,9-HpCDF	0.00126	0.00005	0.0000016	ug/L	0.00100		126	78-138			B
1,2,3,4,7,8-HxCDD	0.00117	0.00005	0.000001	ug/L	0.00100		117	70-164			B
1,2,3,4,7,8-HxCDF	0.00114	0.00005	0.0000023	ug/L	0.00100		114	72-134			B
1,2,3,6,7,8-HxCDD	0.00121	0.00005	0.0000096	ug/L	0.00100		121	76-134			B
1,2,3,6,7,8-HxCDF	0.00111	0.00005	0.0000021	ug/L	0.00100		111	84-130			B
1,2,3,7,8,9-HxCDD	0.00107	0.00005	0.0000083	ug/L	0.00100		107	64-162			B
1,2,3,7,8,9-HxCDF	0.00112	0.00005	0.0000019	ug/L	0.00100		112	78-130			B
1,2,3,7,8-PeCDD	0.0011	0.00005	0.0000023	ug/L	0.00100		110	70-142			B
1,2,3,7,8-PeCDF	0.00114	0.00005	0.0000026	ug/L	0.00100		114	80-134			
2,3,4,6,7,8-HxCDF	0.00108	0.00005	0.0000016	ug/L	0.00100		108	70-156			B
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000026	ug/L	0.00100		115	68-160			
2,3,7,8-TCDD	0.000245	0.00001	0.0000096	ug/L	0.000200		123	67-158			
2,3,7,8-TCDF	0.000221	0.00001	0.0000078	ug/L	0.000200		111	75-158			
OCDD	0.00228	0.0001	0.0000023	ug/L	0.00200		114	78-144			B
OCDF	0.00212	0.0001	0.0000011	ug/L	0.00200		106	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00119			ug/L	0.00200		59	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00111			ug/L	0.00200		56	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.000984			ug/L	0.00200		49	20-186			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: Outfall 009  
 Report Number: ITD0283

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 99181 Extracted: 04/09/10</b>											
<b>LCS Analyzed: 04/13/2010 (G0D090000181C)</b>											
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.000984			ug/L	0.00200		49	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.000885			ug/L	0.00200		44	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.000957			ug/L	0.00200		48	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.000879			ug/L	0.00200		44	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.000952			ug/L	0.00200		48	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.000837			ug/L	0.00200		42	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000701			ug/L	0.00200		35	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00102			ug/L	0.00200		51	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000763			ug/L	0.00200		38	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.000549			ug/L	0.00200		28	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000586			ug/L	0.00200		29	22-152			
Surrogate: 13C-OCDD	0.0024			ug/L	0.00400		60	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000815			ug/L	0.000800		102	31-191			

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager



MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009

Report Number: ITD0283

Sampled: 04/05/10  
Received: 04/05/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- HFT** The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.*

**ITD0283 <Page 20 of 21>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: Outfall 009  
Report Number: ITD0283

Sampled: 04/05/10  
Received: 04/05/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
EPA 9040B	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITD0283-01, ITD0283-01RE1, ITD0283-02, ITD0283-02RE1, ITD0283-03

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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Irvine

17461 Derian Ave  
Suite 100  
Irvine, CA 92614  
phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ITD0283

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 4-5-10</b>		<b>COC No:</b>						
MWH		Tel: 925-627-4627		Lab Contact: Joe Doak		Carrier:		1 of 2 COCs						
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>		Filtered Sample Cadmium, total by 200.8 Copper, total by 200.8 Lead, total by 200.8 Mercury, total by 245.1 Dioxin by 1613 Total Suspended Solids by 2540 PH				Job No.						
Walnut Creek, CA 94596		Calendar (C) or Work Days (W)						SDG No.						
Phone: 925-627-4500		TAT if different from Below						Sample Specific Notes:						
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks												
Project Name: OF009 ISRA Performance Sampling		<input type="checkbox"/> 1 week												
Site: Outfall 009		<input type="checkbox"/> 2 days												
P O #		<input type="checkbox"/> 1 day												
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Cadmium, total by 200.8	Copper, total by 200.8	Lead, total by 200.8	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540	PH	Sample Specific Notes:
<del>MWB LXS0001S003</del>			Water		4		X	X	X	X	X	X	X	Upgradient, CM-3
<del>MWB LXS0002S004</del>			Water		4		X	X	X	X	X	X	X	Primary Downgradient, CM-3
<del>MWB A1SW0002S006</del>		<del>4-5-10 10:09</del>	Water		3			X			X			Upgradient, CM-8
<del>MWB A1SW0003S005</del>			Water		3			X			X			Primary Downgradient, CM-8
A1SW0004S007	4-5-10	10:56	Water		3		X	X	X	X	H	X	X	Upgradient, CM-9
<del>MWB A1SW0005S006</del>			Water		3		X	X	X	X	X	X	X	Primary Downgradient, CM-9
<del>MWB A1SW0006S006</del>			Water		3						X	X		Upgradient, CM-11
<del>MWB A1SW0007S005</del>			Water		3						X	X		Primary Downgradient, CM-11
<del>MWB A1SW0008S001</del>	4-5-10	11:13					X	X	X	X	X	X	X	
<del>MWB</del>														
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments:														
Please email data to Alexander.Fischl@mwglobal.com and post to Total Access														
Bill MWH-Arcadia														
Report Level II Data Package and provide EDD														
all dissolved metals samples are to be filtered within 24 hours of receipt, even those placed on hold														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:									
Marjaret L. Wilman-Barnie	MWH	4-5-10 13:34	[Signature]	Test America	4-5-10 13:34									
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:									
[Signature]	Test America	4-5-10 17:30	[Signature]	TAT/UV	4/5/10 17:30									
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:									

5V10 4.0



## ADDITIONAL ANALYSIS REQUEST FORM

Date: 4.7.10 Project Manager: Heather Clark  
Client: MWH Walnut Creek Contact: Alex F ischl  
Project: ISRA Sampling  
Date Sampled: 4-5-10 Date Received: 4-5-10

**Request Via:**

Telephone  COC Form  Fax  E-mail  Other

**Status:**

In Progress  Completed  Received Today  Received Yesterday  
 On Hold  Other

**Turn Around Time:**

Same Day  24HR  48HR  3Day  5Day  Standard  No Rush Charge

Work Order Number	Sample Description	Analysis Requested	Special Requirements
1TD0283-01	A1SW0004S007	1613-Dioxin-HR	- sub to TA W-SAC
1TD0283-02	A2SW001S004	Pb, TSS, pH, DIOXINS	- DIOXIN to W-SAC

Add in to same work order

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: SWPPP/Outfall 009

Sampled: 04/05/10  
Received: 04/05/10  
Issued: 04/19/10 20:02

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 2°C, on ice and with chain of custody documentation.

**HOLDING TIMES:** Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

**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:** Refer to the last page for specific subcontract laboratory information included in this report.

**ADDITIONAL INFORMATION:** Some analytes in this sample and the associated method blank have an ion abundance ratio that is outside of criteria. The analytes are considered as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio. Analytical results are reported with a "Q" flag.

Some analytes in the associated method blank are reported at a concentration below the estimated detection limit (EDL). The data is reported as a positive detection because the peaks elute at the correct retention time for both characteristic ions and have a signal to noise ratio greater than the method required 2.5:1.

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: SWPPP/Outfall 009

Report Number: ITD0285

Sampled: 04/05/10

Received: 04/05/10

**LABORATORY ID**

ITD0285-01

**CLIENT ID**

A1SW0008S001

**MATRIX**

Water

Reviewed By:

*Debby Wilson*

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

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**ITD0285 <Page 2 of 14>**

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Sampled: 04/05/10

Received: 04/05/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0285-01 (A1SW0008S001 - Water)</b>									
Reporting Units: ug/l									
Mercury	EPA 245.1	10D0779	0.10	0.20	ND	1	04/07/10	04/07/10	
<b>Cadmium</b>	EPA 200.8	10D0554	0.10	1.0	<b>0.21</b>	1	04/06/10	04/13/10	J
<b>Copper</b>	EPA 200.8	10D0554	0.50	2.0	<b>7.5</b>	1	04/06/10	04/13/10	
<b>Lead</b>	EPA 200.8	10D0554	0.20	1.0	<b>7.4</b>	1	04/06/10	04/13/10	

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## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0285-01 (A1SW0008S001 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10D0796	1.0	10	82	1	04/07/10	04/07/10	
<b>Sample ID: ITD0285-01 (A1SW0008S001 - Water)</b>									
Reporting Units: pH Units									
pH	EPA 9040B	10D0697	0.100	0.100	7.49	1	04/07/10	04/07/10	HFT

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Sampled: 04/05/10  
Received: 04/05/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0285-01 (A1SW0008S001 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	99181	0.0000011	0.00005	<b>0.00012</b>	1.01	04/09/10	04/13/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	99181	0.0000069	0.00005	<b>0.000071</b>	1.01	04/09/10	04/13/10	B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	99181	0.0000012	0.00005	<b>0.000024</b>	1.01	04/09/10	04/13/10	J, Q, B
1,2,3,4,7,8-HxCDD	EPA-5 1613B	99181	0.0000045	0.00005	<b>0.000043</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,4,7,8-HxCDF	EPA-5 1613B	99181	0.0000056	0.00005	<b>0.000038</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	99181	0.0000004	0.00005	<b>0.000084</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,6,7,8-HxCDF	EPA-5 1613B	99181	0.0000053	0.00005	<b>0.000039</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	99181	0.0000035	0.00005	<b>0.000064</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,7,8,9-HxCDF	EPA-5 1613B	99181	0.0000058	0.00005	<b>0.000006</b>	1.01	04/09/10	04/13/10	J, Q, B
1,2,3,7,8-PeCDD	EPA-5 1613B	99181	0.0000097	0.00005	<b>0.000032</b>	1.01	04/09/10	04/13/10	J, B
1,2,3,7,8-PeCDF	EPA-5 1613B	99181	0.0000066	0.00005	ND	1.01	04/09/10	04/13/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	99181	0.0000046	0.00005	<b>0.000029</b>	1.01	04/09/10	04/13/10	J, B
2,3,4,7,8-PeCDF	EPA-5 1613B	99181	0.0000075	0.00005	ND	1.01	04/09/10	04/13/10	
2,3,7,8-TCDD	EPA-5 1613B	99181	0.0000005	0.00001	ND	1.01	04/09/10	04/13/10	
2,3,7,8-TCDF	EPA-5 1613B	99181	0.0000046	0.00001	ND	1.01	04/09/10	04/13/10	
OCDD	EPA-5 1613B	99181	0.000002	0.0001	<b>0.00092</b>	1.01	04/09/10	04/13/10	B
OCDF	EPA-5 1613B	99181	0.0000087	0.0001	<b>0.00009</b>	1.01	04/09/10	04/13/10	J, B
Total HpCDD	EPA-5 1613B	99181	0.0000011	0.00005	<b>0.00028</b>	1.01	04/09/10	04/13/10	B
Total HpCDF	EPA-5 1613B	99181	0.0000069	0.00005	<b>0.00013</b>	1.01	04/09/10	04/13/10	J, Q, B
Total HxCDD	EPA-5 1613B	99181	0.0000035	0.00005	<b>0.000042</b>	1.01	04/09/10	04/13/10	J, Q, B
Total HxCDF	EPA-5 1613B	99181	0.0000046	0.00005	<b>0.000066</b>	1.01	04/09/10	04/13/10	J, Q, B
Total PeCDD	EPA-5 1613B	99181	0.0000097	0.00005	<b>0.000032</b>	1.01	04/09/10	04/13/10	J, B
Total PeCDF	EPA-5 1613B	99181	0.0000052	0.00005	<b>0.000011</b>	1.01	04/09/10	04/13/10	
Total TCDD	EPA-5 1613B	99181	0.0000026	0.00001	ND	1.01	04/09/10	04/13/10	
Total TCDF	EPA-5 1613B	99181	0.0000002	0.00001	ND	1.01	04/09/10	04/13/10	

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 52 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 50 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 42 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 48 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 49 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 48 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 47 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 45 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 47 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 46 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 50 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 45 %  
 Surrogate: 13C-2,3,7,8-TCDD (25-164%) 41 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 43 %  
 Surrogate: 13C-OCDD (17-157%) 50 %  
 Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%) 99 %

### TestAmerica Irvine

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Project Manager

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Sampled: 04/05/10

Received: 04/05/10

## SHORT HOLD TIME DETAIL REPORT

	<b>Hold Time (in days)</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>	<b>Date/Time Extracted</b>	<b>Date/Time Analyzed</b>
<b>Sample ID: A1SW0008S001 (ITD0285-01) - Water</b>					
EPA 9040B	1	04/05/2010 11:13	04/05/2010 17:30	04/07/2010 08:17	04/07/2010 13:30

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## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D0554 Extracted: 04/06/10</b>											
<b>Blank Analyzed: 04/13/2010 (10D0554-BLK1)</b>											
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 04/13/2010 (10D0554-BS1)</b>											
Cadmium	78.6	1.0	0.10	ug/l	80.0		98	85-115			
Copper	84.9	2.0	0.50	ug/l	80.0		106	85-115			
Lead	83.0	1.0	0.20	ug/l	80.0		104	85-115			
<b>Matrix Spike Analyzed: 04/13/2010 (10D0554-MS1) Source: ITD0283-01</b>											
Cadmium	74.9	1.0	0.10	ug/l	80.0	0.232	93	70-130			
Copper	88.6	2.0	0.50	ug/l	80.0	7.57	101	70-130			
Lead	87.2	1.0	0.20	ug/l	80.0	7.34	100	70-130			
<b>Matrix Spike Dup Analyzed: 04/13/2010 (10D0554-MSD1) Source: ITD0283-01</b>											
Cadmium	79.5	1.0	0.10	ug/l	80.0	0.232	99	70-130	6	20	
Copper	90.6	2.0	0.50	ug/l	80.0	7.57	104	70-130	2	20	
Lead	93.8	1.0	0.20	ug/l	80.0	7.34	108	70-130	7	20	
<b>Batch: 10D0779 Extracted: 04/07/10</b>											
<b>Blank Analyzed: 04/07/2010 (10D0779-BLK1)</b>											
Mercury	ND	0.20	0.10	ug/l							
<b>LCS Analyzed: 04/07/2010 (10D0779-BS1)</b>											
Mercury	8.05	0.20	0.10	ug/l	8.00		101	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
<b>Batch: 10D0779 Extracted: 04/07/10</b>											
<b>Matrix Spike Analyzed: 04/07/2010 (10D0779-MS1)</b>						<b>Source: ITD0281-02</b>					
Mercury	8.10	0.20	0.10	ug/l	8.00	ND	101	70-130			
<b>Matrix Spike Dup Analyzed: 04/07/2010 (10D0779-MSD1)</b>						<b>Source: ITD0281-02</b>					
Mercury	7.98	0.20	0.10	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	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D0697 Extracted: 04/07/10</b>											
<b>Duplicate Analyzed: 04/07/2010 (10D0697-DUP1)</b>											
pH	7.71	0.100	0.100	pH Units		7.73			0.3	5	HFT
<b>Duplicate Analyzed: 04/07/2010 (10D0697-DUP2)</b>											
pH	7.97	0.100	0.100	pH Units		7.97			0	5	HFT
<b>Batch: 10D0796 Extracted: 04/07/10</b>											
<b>Blank Analyzed: 04/07/2010 (10D0796-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 04/07/2010 (10D0796-BS1)</b>											
Total Suspended Solids	991	10	1.0	mg/l	1000		99	85-115			
<b>Duplicate Analyzed: 04/07/2010 (10D0796-DUP1)</b>											
Total Suspended Solids	48.0	10	1.0	mg/l		48.0			0	10	

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 99181 Extracted: 04/09/10</b>											
<b>Blank Analyzed: 04/12/2010 (G0D090000181B)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.0000064	0.00005	0.00000081	ug/L				-			J
1,2,3,4,6,7,8-HpCDF	0.0000021	0.00005	0.00000039	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.0000018	0.00005	0.00000066	ug/L				-			J
1,2,3,4,7,8-HxCDD	0.00000095	0.00005	0.00000054	ug/L				-			J, Q
1,2,3,4,7,8-HxCDF	0.0000011	0.00005	0.00000042	ug/L				-			J, Q
1,2,3,6,7,8-HxCDD	0.0000012	0.00005	0.00000005	ug/L				-			J, Q
1,2,3,6,7,8-HxCDF	0.00000082	0.00005	0.00000037	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	0.0000014	0.00005	0.00000043	ug/L				-			J
1,2,3,7,8,9-HxCDF	0.0000012	0.00005	0.00000004	ug/L				-			J
1,2,3,7,8-PeCDD	0.0000003	0.00005	0.00000073	ug/L				-			J, Q
1,2,3,7,8-PeCDF	ND	0.00005	0.00000069	ug/L				-			
2,3,4,6,7,8-HxCDF	0.0000012	0.00005	0.00000003	ug/L				-			J
2,3,4,7,8-PeCDF	ND	0.00005	0.00000072	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.00000054	ug/L				-			
2,3,7,8-TCDF	ND	0.00001	0.00000052	ug/L				-			
OCDD	0.000044	0.0001	0.000001	ug/L				-			J
OCDF	0.0000052	0.0001	0.00000071	ug/L				-			J
Total HpCDD	0.000014	0.00005	0.00000081	ug/L				-			J
Total HpCDF	0.0000051	0.00005	0.00000039	ug/L				-			J, Q
Total HxCDD	0.0000036	0.00005	0.00000043	ug/L				-			J, Q
Total HxCDF	0.0000047	0.00005	0.00000003	ug/L				-			J, Q
Total PeCDD	0.0000003	0.00005	0.00000073	ug/L				-			J, Q
Total PeCDF	ND	0.00005	0.00000058	ug/L				-			
Total TCDD	ND	0.00001	0.00000054	ug/L				-			
Total TCDF	ND	0.00001	0.00000052	ug/L				-			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.001			ug/L	0.00200		51	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00093			ug/L	0.00200		46	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00084			ug/L	0.00200		42	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00091			ug/L	0.00200		46	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00084			ug/L	0.00200		42	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00095			ug/L	0.00200		47	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00083			ug/L	0.00200		42	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00085			ug/L	0.00200		43	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00087			ug/L	0.00200		44	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00078			ug/L	0.00200		39	24-185			

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## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 99181 Extracted: 04/09/10</b>										
<b>Blank Analyzed: 04/12/2010 (G0D090000181B)</b>					<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00094			ug/L	0.00200		47		28-136	
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00083			ug/L	0.00200		42		21-178	
Surrogate: 13C-2,3,7,8-TCDD	0.00069			ug/L	0.00200		34		25-164	
Surrogate: 13C-2,3,7,8-TCDF	0.00074			ug/L	0.00200		37		24-169	
Surrogate: 13C-OCDD	0.002			ug/L	0.00400		51		17-157	
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00081			ug/L	0.000800		101		35-197	
<b>LCS Analyzed: 04/13/2010 (G0D090000181C)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00107	0.00005	0.0000086	ug/L	0.00100		107		70-140	B
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.000001	ug/L	0.00100		106		82-122	B
1,2,3,4,7,8,9-HpCDF	0.00126	0.00005	0.0000016	ug/L	0.00100		126		78-138	B
1,2,3,4,7,8-HxCDD	0.00117	0.00005	0.000001	ug/L	0.00100		117		70-164	B
1,2,3,4,7,8-HxCDF	0.00114	0.00005	0.0000023	ug/L	0.00100		114		72-134	B
1,2,3,6,7,8-HxCDD	0.00121	0.00005	0.0000096	ug/L	0.00100		121		76-134	B
1,2,3,6,7,8-HxCDF	0.00111	0.00005	0.0000021	ug/L	0.00100		111		84-130	B
1,2,3,7,8,9-HxCDD	0.00107	0.00005	0.0000083	ug/L	0.00100		107		64-162	B
1,2,3,7,8,9-HxCDF	0.00112	0.00005	0.0000019	ug/L	0.00100		112		78-130	B
1,2,3,7,8-PeCDD	0.0011	0.00005	0.0000023	ug/L	0.00100		110		70-142	B
1,2,3,7,8-PeCDF	0.00114	0.00005	0.0000026	ug/L	0.00100		114		80-134	
2,3,4,6,7,8-HxCDF	0.00108	0.00005	0.0000016	ug/L	0.00100		108		70-156	B
2,3,4,7,8-PeCDF	0.00115	0.00005	0.0000026	ug/L	0.00100		115		68-160	
2,3,7,8-TCDD	0.000245	0.00001	0.0000096	ug/L	0.000200		123		67-158	
2,3,7,8-TCDF	0.000221	0.00001	0.0000078	ug/L	0.000200		111		75-158	
OCDD	0.00228	0.0001	0.0000023	ug/L	0.00200		114		78-144	B
OCDF	0.00212	0.0001	0.0000011	ug/L	0.00200		106		63-170	B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00119			ug/L	0.00200		59		26-166	
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00111			ug/L	0.00200		56		21-158	
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.000984			ug/L	0.00200		49		20-186	
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.000984			ug/L	0.00200		49		21-193	
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.000885			ug/L	0.00200		44		19-202	
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.000957			ug/L	0.00200		48		25-163	
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.000879			ug/L	0.00200		44		21-159	
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.000952			ug/L	0.00200		48		17-205	
Surrogate: 13C-1,2,3,7,8-PeCDD	0.000837			ug/L	0.00200		42		21-227	
Surrogate: 13C-1,2,3,7,8-PeCDF	0.000701			ug/L	0.00200		35		21-192	
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00102			ug/L	0.00200		51		22-176	

#### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager



MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: SWPPP/Outfall 009

Report Number: ITD0285

Sampled: 04/05/10  
 Received: 04/05/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 99181 Extracted: 04/09/10</b>											
<b>LCS Analyzed: 04/13/2010 (G0D090000181C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.000763			ug/L	0.00200		38	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.000549			ug/L	0.00200		28	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000586			ug/L	0.00200		29	22-152			
Surrogate: 13C-OCDD	0.0024			ug/L	0.00400		60	13-199			
Surrogate: 37C14-2,3,7,8-TCDD	0.000815			ug/L	0.000800		102	31-191			

TestAmerica Irvine

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 Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: SWPPP/Outfall 009

Report Number: ITD0285

Sampled: 04/05/10  
Received: 04/05/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- HFT** The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

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Project Manager

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**ITD0285 <Page 13 of 14>**

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Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: SWPPP/Outfall 009

Report Number: ITD0285

Sampled: 04/05/10  
Received: 04/05/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
EPA 245.1	Water	X	X
EPA 9040B	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITD0285-01

### TestAmerica Irvine

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Project Manager

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Irvine  
 17461 Derian Ave  
 Suite 100  
 Irvine, CA 92614  
 phone 949.261.1022 fax 949.260.3299

### Chain of Custody Record

ITD0285

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Alex Fischl</b>		<b>Site Contact: Shelby Valenzuela</b>		<b>Date: 4-5-10</b>		<b>COC No:</b>								
MWH		Tel: 925-627-4627		Lab Contact: Heather Clark		Carrier:		1 of 1 COCs								
2121 N. California Blvd. Suite 600		<b>Analysis Turnaround Time</b>								Job No.						
Walnut Creek, CA 94596		Calendar (C) or Work Days (W)								SDG No.						
Phone: 925-627-4500		TAT if different from Below _____								Sample Specific Notes:						
FAX: 925-627-4501		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day														
Project Name: SWPPP Sampling																
Site: Outfall 009																
P O #																
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Cadmium, total by 200.8	Copper, total by 200.8	Lead, total by 200.8	Mercury, total by 245.1	Dioxin by 1613	Total Suspended Solids by 2540	pH		
A1SW0008 S001		4-5-10	11:13		Water	3		X	X	X	X	X	X	X		
<p>MWB</p>																
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
<b>Special Instructions/QC Requirements &amp; Comments:</b>																
Please email data to Alexander.Fischl@mwhglobal.com and post to Total Access																
Bill MWH-Arcadia																
Report Level II Data Package and provide EDD																
Relinquished by: Margaret S. Milgram Barria		Company: MWH		Date/Time: 4-5-10/13:34		Received by: [Signature]		Company: Test America		Date/Time: 4-5-10 13:34						
Relinquished by: [Signature]		Company: Test America		Date/Time: 4-5-10/17:30		Received by: [Signature]		Company: TA/Irv.		Date/Time: 4/5/10 17:30						
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:						

9/10  
4/10/10

## LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project: OF009 ISRA Performance  
Sampling

Sampled: 02/27/10  
Received: 04/08/10  
Issued: 04/27/10 17:08

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

*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 4°C, on ice and with chain of custody documentation.

**HOLDING TIMES:** Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.

**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:** Refer to the last page for specific subcontract laboratory information included in this report.

**LABORATORY ID**

ITD0731-01

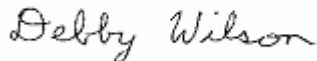
**CLIENT ID**

A2SW0001S003

**MATRIX**

Water

Reviewed By:



**TestAmerica Irvine**

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10

Received: 04/08/10

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0731-01 (A2SW0001S003 - Water)</b>									
Reporting Units: ug/l									
Lead	EPA 200.8	10D1415	0.20	1.0	4.1	1	04/13/10	04/19/10	

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10

Received: 04/08/10

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0731-01 (A2SW0001S003 - Water)</b>									
Reporting Units: mg/l									
Total Suspended Solids	SM 2540D	10D1080	1.0	10	<b>8.0</b>	1	04/09/10	04/09/10	H3, Ja

### TestAmerica Irvine

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Project Manager

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MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
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Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10  
Received: 04/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0731-01 (A2SW0001S003 - Water)</b>									
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	105247	0.0000025	0.00005	<b>0.00015</b>	0.97	04/15/10	04/22/10	B
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	105247	0.0000092	0.00005	<b>0.000033</b>	0.97	04/15/10	04/22/10	J, B
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	105247	0.0000015	0.00005	<b>0.000024</b>	0.97	04/15/10	04/22/10	J, Q
1,2,3,4,7,8-HxCDD	EPA-5 1613B	105247	0.0000097	0.00005	<b>0.000004</b>	0.97	04/15/10	04/22/10	J, Q
1,2,3,4,7,8-HxCDF	EPA-5 1613B	105247	0.0000014	0.00005	<b>0.000019</b>	0.97	04/15/10	04/22/10	J, Q, B
1,2,3,6,7,8-HxCDD	EPA-5 1613B	105247	0.0000081	0.00005	<b>0.000078</b>	0.97	04/15/10	04/22/10	J
1,2,3,6,7,8-HxCDF	EPA-5 1613B	105247	0.0000013	0.00005	<b>0.000015</b>	0.97	04/15/10	04/22/10	J, Q, B
1,2,3,7,8,9-HxCDD	EPA-5 1613B	105247	0.0000073	0.00005	<b>0.000007</b>	0.97	04/15/10	04/22/10	J
1,2,3,7,8,9-HxCDF	EPA-5 1613B	105247	0.0000016	0.00005	ND	0.97	04/15/10	04/22/10	
1,2,3,7,8-PeCDD	EPA-5 1613B	105247	0.0000011	0.00005	ND	0.97	04/15/10	04/22/10	
1,2,3,7,8-PeCDF	EPA-5 1613B	105247	0.0000097	0.00005	ND	0.97	04/15/10	04/22/10	
2,3,4,6,7,8-HxCDF	EPA-5 1613B	105247	0.0000011	0.00005	<b>0.000018</b>	0.97	04/15/10	04/22/10	J, Q, B
2,3,4,7,8-PeCDF	EPA-5 1613B	105247	0.0000001	0.00005	ND	0.97	04/15/10	04/22/10	
2,3,7,8-TCDD	EPA-5 1613B	105247	0.0000066	0.00001	ND	0.97	04/15/10	04/22/10	
2,3,7,8-TCDF	EPA-5 1613B	105247	0.0000005	0.00001	<b>0.000034</b>	0.97	04/15/10	04/22/10	J, B
OCDD	EPA-5 1613B	105247	0.0000066	0.0001	<b>0.0018</b>	0.97	04/15/10	04/22/10	B
OCDF	EPA-5 1613B	105247	0.0000022	0.0001	<b>0.000091</b>	0.97	04/15/10	04/22/10	J, B
Total HpCDD	EPA-5 1613B	105247	0.0000025	0.00005	<b>0.00031</b>	0.97	04/15/10	04/22/10	B
Total HpCDF	EPA-5 1613B	105247	0.0000092	0.00005	<b>0.000074</b>	0.97	04/15/10	04/22/10	J, Q, B
Total HxCDD	EPA-5 1613B	105247	0.0000073	0.00005	<b>0.000043</b>	0.97	04/15/10	04/22/10	J, Q
Total HxCDF	EPA-5 1613B	105247	0.0000011	0.00005	<b>0.000027</b>	0.97	04/15/10	04/22/10	J, Q, B
Total PeCDD	EPA-5 1613B	105247	0.0000011	0.00005	ND	0.97	04/15/10	04/22/10	
Total PeCDF	EPA-5 1613B	105247	0.0000097	0.00005	<b>0.000027</b>	0.97	04/15/10	04/22/10	
Total TCDD	EPA-5 1613B	105247	0.0000066	0.00001	ND	0.97	04/15/10	04/22/10	
Total TCDF	EPA-5 1613B	105247	0.0000005	0.00001	<b>0.000058</b>	0.97	04/15/10	04/22/10	J, B

Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	56 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	55 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	55 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	49 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	54 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	58 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	57 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	50 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	54 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	53 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	60 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	55 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	48 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	54 %
Surrogate: 13C-OCDD (17-157%)	59 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	87 %

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager



MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10

Received: 04/08/10

## EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: ITD0731-01RE (A2SW0001S003 - Water) - cont.</b>									
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	105247	0.0000024	0.00001	ND	1	04/15/10	04/23/10	
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					38 %				
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)					74 %				

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 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10  
 Received: 04/08/10

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D1415 Extracted: 04/13/10</b>											
<b>Blank Analyzed: 04/19/2010 (10D1415-BLK1)</b>											
Lead	ND	1.0	0.20	ug/l							
<b>LCS Analyzed: 04/19/2010 (10D1415-BS1)</b>											
Lead	82.2	1.0	0.20	ug/l	80.0		103	85-115			
<b>Matrix Spike Analyzed: 04/19/2010 (10D1415-MS1)</b>											
						<b>Source: ITD0731-01</b>					
Lead	83.4	1.0	0.20	ug/l	80.0	4.09	99	70-130			
<b>Matrix Spike Dup Analyzed: 04/19/2010 (10D1415-MSD1)</b>											
						<b>Source: ITD0731-01</b>					
Lead	85.1	1.0	0.20	ug/l	80.0	4.09	101	70-130	2	20	

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 Project Manager

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 618 Michillinda Avenue, Suite 200  
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 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10  
 Received: 04/08/10

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 10D1080 Extracted: 04/09/10</b>											
<b>Blank Analyzed: 04/09/2010 (10D1080-BLK1)</b>											
Total Suspended Solids	ND	10	1.0	mg/l							
<b>LCS Analyzed: 04/09/2010 (10D1080-BS1)</b>											
Total Suspended Solids	995	10	1.0	mg/l	1000		100	85-115			
<b>Duplicate Analyzed: 04/09/2010 (10D1080-DUP1)</b>											
Total Suspended Solids	26.0	10	1.0	mg/l		Source: ITD0410-01 27.0			4	10	

**TestAmerica Irvine**

Debby Wilson For Heather Clark  
 Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling  
Report Number: ITD0731

Sampled: 02/27/10  
Received: 04/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	Data Qualifiers
<b>Batch: 105247 Extracted: 04/15/10</b>										
<b>Blank Analyzed: 04/22/2010 (G0D150000247B)</b>					<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	2e-006	0.00005	0.000001	ug/L			-			J
1,2,3,4,6,7,8-HpCDF	1.1e-006	0.00005	0.00000066	ug/L			-			J, Q
1,2,3,4,7,8,9-HpCDF	ND	0.00005	0.0000012	ug/L			-			
1,2,3,4,7,8-HxCDD	ND	0.00005	0.00000062	ug/L			-			
1,2,3,4,7,8-HxCDF	8.8e-007	0.00005	0.00000046	ug/L			-			J, Q
1,2,3,6,7,8-HxCDD	ND	0.00005	0.00000068	ug/L			-			
1,2,3,6,7,8-HxCDF	8.9e-007	0.00005	0.00000043	ug/L			-			J
1,2,3,7,8,9-HxCDD	ND	0.00005	0.00000088	ug/L			-			
1,2,3,7,8,9-HxCDF	ND	0.00005	0.00000055	ug/L			-			
1,2,3,7,8-PeCDD	1.4e-006	0.00005	0.00000096	ug/L			-			J, Q
1,2,3,7,8-PeCDF	ND	0.00005	0.0000016	ug/L			-			
2,3,4,6,7,8-HxCDF	7.3e-007	0.00005	0.00000035	ug/L			-			J, Q
2,3,4,7,8-PeCDF	ND	0.00005	0.0000012	ug/L			-			
2,3,7,8-TCDD	1e-006	0.00001	0.00000068	ug/L			-			J, Q
2,3,7,8-TCDF	2.5e-006	0.00001	0.00000066	ug/L			-			J, Q
OCDD	6.4e-006	0.0001	0.0000012	ug/L			-			J, Q
OCDF	2e-006	0.0001	0.00000083	ug/L			-			J
Total HpCDD	3.8e-006	0.00005	0.000001	ug/L			-			J
Total HpCDF	1.1e-006	0.00005	0.00000066	ug/L			-			J, Q
Total HxCDD	ND	0.00005	0.00000062	ug/L			-			
Total HxCDF	3.1e-006	0.00005	0.00000044	ug/L			-			J, Q
Total PeCDD	1.4e-006	0.00005	0.00000096	ug/L			-			J, Q
Total PeCDF	ND	0.00005	0.00000019	ug/L			-			
Total TCDD	1e-006	0.00001	0.00000068	ug/L			-			J, Q
Total TCDF	5.4e-006	0.00001	0.00000066	ug/L			-			J, Q
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0016			ug/L	0.00200		80	23-140		
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0015			ug/L	0.00200		76	28-143		
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0014			ug/L	0.00200		70	26-138		
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0014			ug/L	0.00200		70	32-141		
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.00200		71	26-152		
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0016			ug/L	0.00200		80	28-130		
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0015			ug/L	0.00200		75	26-123		
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0013			ug/L	0.00200		65	29-147		
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0014			ug/L	0.00200		68	25-181		
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0012			ug/L	0.00200		60	24-185		

#### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10  
Received: 04/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 105247 Extracted: 04/15/10</b>											
<b>Blank Analyzed: 04/22/2010 (G0D150000247B)</b>						<b>Source:</b>					
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0016			ug/L	0.00200		81	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0014			ug/L	0.00200		71	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.001			ug/L	0.00200		50	25-164			
Surrogate: 13C-2,3,7,8-TCDF	0.0011			ug/L	0.00200		54	24-169			
Surrogate: 13C-OCDD	0.0032			ug/L	0.00400		80	17-157			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00071			ug/L	0.000800		89	35-197			
<b>LCS Analyzed: 04/22/2010 (G0D150000247C)</b>						<b>Source:</b>					
1,2,3,4,6,7,8-HpCDD	0.00101	0.00005	0.0000021	ug/L	0.00100		101	70-140			B
1,2,3,4,6,7,8-HpCDF	0.00112	0.00005	0.0000036	ug/L	0.00100		112	82-122			B
1,2,3,4,7,8,9-HpCDF	0.0012	0.00005	0.0000059	ug/L	0.00100		120	78-138			
1,2,3,4,7,8-HxCDD	0.00107	0.00005	0.0000023	ug/L	0.00100		107	70-164			
1,2,3,4,7,8-HxCDF	0.00109	0.00005	0.000003	ug/L	0.00100		109	72-134			B
1,2,3,6,7,8-HxCDD	0.00109	0.00005	0.0000021	ug/L	0.00100		109	76-134			B
1,2,3,6,7,8-HxCDF	0.00108	0.00005	0.0000028	ug/L	0.00100		108	84-130			B
1,2,3,7,8,9-HxCDD	0.000931	0.00005	0.0000018	ug/L	0.00100		93	64-162			B
1,2,3,7,8,9-HxCDF	0.00109	0.00005	0.0000034	ug/L	0.00100		109	78-130			B
1,2,3,7,8-PeCDD	0.00109	0.00005	0.0000027	ug/L	0.00100		109	70-142			B
1,2,3,7,8-PeCDF	0.00108	0.00005	0.0000022	ug/L	0.00100		108	80-134			
2,3,4,6,7,8-HxCDF	0.00106	0.00005	0.0000023	ug/L	0.00100		106	70-156			B
2,3,4,7,8-PeCDF	0.00108	0.00005	0.0000022	ug/L	0.00100		108	68-160			
2,3,7,8-TCDD	0.000249	0.00001	0.000001	ug/L	0.000200		124	67-158			B
2,3,7,8-TCDF	0.000207	0.00001	0.00000079	ug/L	0.000200		104	75-158			B
OCDD	0.00209	0.0001	0.000006	ug/L	0.00200		105	78-144			B
OCDF	0.00212	0.0001	0.0000042	ug/L	0.00200		106	63-170			B
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0016			ug/L	0.00200		80	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00151			ug/L	0.00200		76	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00144			ug/L	0.00200		72	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00136			ug/L	0.00200		68	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0014			ug/L	0.00200		70	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00154			ug/L	0.00200		77	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00144			ug/L	0.00200		72	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00129			ug/L	0.00200		64	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00123			ug/L	0.00200		62	21-227			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0011			ug/L	0.00200		55	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00151			ug/L	0.00200		76	22-176			

#### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

MWH-Pasadena/Boeing  
 618 Michillinda Avenue, Suite 200  
 Arcadia, CA 91007  
 Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10  
 Received: 04/08/10

## METHOD BLANK/QC DATA

### EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 105247 Extracted: 04/15/10</b>											
<b>LCS Analyzed: 04/22/2010 (G0D150000247C)</b>											
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00123			ug/L	0.00200		62	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.000836			ug/L	0.00200		42	20-175			
Surrogate: 13C-2,3,7,8-TCDF	0.000936			ug/L	0.00200		47	22-152			
Surrogate: 13C-OCDD	0.00329			ug/L	0.00400		82	13-199			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000784			ug/L	0.000800		98	31-191			
<b>Blank Analyzed: 04/24/2010 (G0D15000247B2)</b>											
2,3,7,8-TCDF	3.6e-006	0.00001	0.0000022	ug/L				-			J
Surrogate: 13C-2,3,7,8-TCDF	0.00079			ug/L	0.00200		40	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00054			ug/L	0.000800		67	35-197			

TestAmerica Irvine

Debby Wilson For Heather Clark  
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling

Report Number: ITD0731

Sampled: 02/27/10

Received: 04/08/10

## DATA QUALIFIERS AND DEFINITIONS

- B** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- H3** Sample was received and analyzed past holding time.
- J** Estimated result. Result is less than the reporting limit.
- Ja** 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.
- Q** Estimated maximum possible concentration (EMPC).
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

### TestAmerica Irvine

Debby Wilson For Heather Clark  
Project Manager

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**ITD0731 <Page 11 of 12>**

MWH-Pasadena/Boeing  
618 Michillinda Avenue, Suite 200  
Arcadia, CA 91007  
Attention: Alex Fischl

Project ID: OF009 ISRA Performance Sampling  
Report Number: ITD0731

Sampled: 02/27/10  
Received: 04/08/10

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.8	Water	X	X
SM 2540D	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](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B

Samples: ITD0731-01, ITD0731-01RE

### TestAmerica Irvine

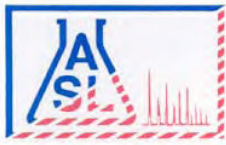
Debby Wilson For Heather Clark  
Project Manager

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**LABORATORY REPORTS FOR  
RWQCB SPLIT SAMPLES**



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

LARWQCB  
320 W. 4th St.  
Los Angeles, CA 90013-

Telephone (213) 576-6724  
Attn Cassandra D. Owens

Number of Pages 4  
Date Received 02/08/2010  
Date Reported 02/16/2010

Job Number	Ordered	Client
44661	02/08/2010	LARWQB

Project ID: BOEING SSFL ISRA  
Project Name: Lori Blair/Art Lennox  
Site: 5800 Woolsey Canyon Road  
Canoga Park, CA 91304

Enclosed are the results of analyses on 10 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar  
Laboratory Manager

Rojert G. Araghi  
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
Environmental Testing Services  
2520 N. San Fernando Road, La, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

CO# N<sup>o</sup> 52582 GLOBAL ID \_\_\_\_\_ E REPORT:  PDF  EDF  EDD ASL JOB# 44661

Company: LA Regional Water Quality Board  
Address: 320 W. 4th St. #200  
Project Name: DOCIN SSPF TSEA  
Site Address: 5800 Woolsey Canyon Rd.  
Canyon Park PA91304  
Project ID: LUR. Okla/Alta Kennel  
Project Manager: P.O.#:

Report To: Cassandre D. Clevinger  
Address: 320 W. 4th St. LA CA 90013  
Invoice To: Alt Kennel 818 4th - 8795  
Address: 5800 Woolsey Canyon Rd. Canyon Park CA 91704

Telephone: (818) 576-6750  
Fax: (818) 576-6760  
Special Instruction: Cadmium, total by 2008  
Copper, total by 2008  
Lead, total by 2008  
Mercury, total by 145.1  
Dioxin by 1613  
Total Suspended Solids by HOLD

E-mail: Perxns@waterboards.ca.gov  
LAB USE ONLY

LAB USE ONLY	SAMPLE DESCRIPTION	Container(s)	Matrix	Preservation	ANALYSIS REQUESTED					Remarks		
LAB ID	Sample ID	Date	Time	#	Type							
1 248418	HE500005 5003- PUDACB	2/6/10	1112	2	1 Poly Amber	Water	NONE					UP product DKE-1
2 248419	HE500007 5003- PUDACB	2/6/10	1035	3	2 Poly Amber		HNO3	X	X	X	X	Down product All HWS
3 248420	HE5000017 5003- PUDACB	2/6/10	0944	3	2 Poly Amber		HNO3	X	X	X	X	UP product HWS-PA-20
4 248421	HE500003 5003- PUDACB	2/5/10	1300	3	2 Poly Amber		HNO3	X	X	X	X	Down product CNI-9, ME-1
5 248422	AL500004 5003- PUDACB	2/5/10	1036	2	2 Poly		HNO3	X	X	X	X	Up product CR-9
6 248423	AL500005 5003- PUDACB	2/5/10	1037	2	2 Poly		HNO3	X	X	X	X	Down product Cm-9
7 248424	LX500001 5003- PUDACB	2/6/10	0830	3	2 Poly Amber		HNO3	X	X	X	X	UP product Cm-3
8 248425	AL500001 5003- PUDACB	2/6/10	0745	3	2 Poly Amber		HNO3	X	X	X	X	UP product AL LF-3
9 248426	AL500002 5003- PUDACB	2/5/10	0750	2	2 Poly Amber		HNO3	X	X	X	X	Down product AL LF-3
10 248427	AL500002 5003- PUDACB	2/5/10	0910	2	2 Poly Amber		HNO3	X	X	X	X	Down product AL LF-3

Collected By: [Signature] Date 2/8/10 Time 1150  
Relinquished By: [Signature] Date 2/8/10 Time 1150

Received By: [Signature] Date 2/8/10 Time 1150  
Condition of Sample: [Signature] Date 2/8/10 Time 1:10

Received For Laboratory: Janet Chun Date 2-8-10 Time 1:10  
Condition of Sample: [Signature]

White - Report, Yellow - Laboratory, Pink - Client



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

**Site**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: **2**

Project ID: BOEING SSFL ISRA  
 Project Name: Lori Blair/Art Lennox

ASL Job Number	Submitted	Client
44661	02/08/2010	LARWQB

Method: 7470A, Mercury (CVAA)

QC Batch No: 021010-1

Our Lab I.D.		248422	248423	248424		
Client Sample I.D.		A1SW0004 S003-RWQC B	A1SW0005 S003-RWQC B	LXSW 0001S002-R WQCB		
Date Sampled		02/05/2010	02/05/2010	02/06/2010		
Date Prepared		02/10/2010	02/10/2010	02/10/2010		
Preparation Method						
Date Analyzed		02/11/2010	02/11/2010	02/11/2010		
Matrix		Water	Water	Water		
Units		mg/L	mg/L	mg/L		
Dilution Factor		1	1	1		
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>		
<b>AA Metals</b>						
Mercury	0.0005	ND	ND	ND		

**QUALITY CONTROL REPORT**

QC Batch No: 021010-1

Analytes	LCS % REC	LCS/LCSD % Limit							
<b>AA Metals</b>									
Mercury	108	80-120							



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

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**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 3

Project ID: BOEING SSFL ISRA  
 Project Name: Lori Blair/Art Lennox

ASL Job Number	Submitted	Client
44661	02/08/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

**QC Batch No: 020910-1**

Our Lab I.D.		248418	248419	248420	248421	248422
Client Sample I.D.		HZSW0005 S003-RWQC B	HZSW0007 S003-RWQC B	HZSW00017 S001-RWQC B	HZSW0003 S003-RWQC B	A1SW0004 S003-RWQC B
Date Sampled		02/06/2010	02/06/2010	02/06/2010	02/05/2010	02/05/2010
Date Prepared		02/09/2010	02/09/2010	02/09/2010	02/09/2010	02/09/2010
Preparation Method						
Date Analyzed		02/09/2010	02/09/2010	02/09/2010	02/09/2010	02/09/2010
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	ND	27.0	536	681	48.0

**QUALITY CONTROL REPORT**

**QC Batch No: 020910-1**

	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
<b>Analytes</b>									
<b>Conventionals</b>									
Solids, Total Suspended (TSS)	106	109	2.8	80-120	20				



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: **4**

Project ID: BOEING SSFL ISRA  
 Project Name: Lori Blair/Art Lennox

ASL Job Number	Submitted	Client
44661	02/08/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

**QC Batch No: 020910-1**

Our Lab I.D.		248423	248424	248425	248426	248427
Client Sample I.D.		A1SW0005 S003-RWQC B	LXSW 0001S002-R WQCB	A2SW0001 S002-RWQC B	A2SW0002 S002-RWQC B	A2SW0006 S001-RWQC B
Date Sampled		02/05/2010	02/06/2010	02/06/2010	02/05/2010	02/05/2010
Date Prepared		02/09/2010	02/09/2010	02/09/2010	02/09/2010	02/09/2010
Preparation Method						
Date Analyzed		02/09/2010	02/09/2010	02/09/2010	02/09/2010	02/09/2010
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	64.0	22.0	ND	42.0	688

**QUALITY CONTROL REPORT**

**QC Batch No: 020910-1**

	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
<b>Analytes</b>									
<b>Conventionals</b>									
Solids, Total Suspended (TSS)	106	109	2.8	80-120	20				

14859 East Clark Avenue • Industry, CA 91745  
 Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

OB09031

Page 1 of 1

CLIENT NAME: American Scientific Labs.  
 ADDRESS: 2520 N. San Fernando Road  
L.A. CA 90065  
 PROJECT MANAGER: Molley Avar

PROJECT: 44661  
 PHONE #: 323 223 9900  
 FAX #: 323 223 9500  
 E MAIL: molley@asllab.com  
 PO.#:

ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSIS REQUESTED
	2-6-10		W1	248419	1	Pb (200.8) ICP/ms Cu (200.8) ICP/ms Cd (200.8) ICP/ms
	2-6-10			248420	X	
	2-5-10			248421	X	
	2-5-10			248422	X	
	2-5-10			248423	X	
	2-6-10			248424	X	
	2-6-10			248425	X	
	2-5-10			248426	X	
	2-5-10			248427	X	

RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_  
 SIGNATURE: [Signature] PRINT NAME: Alex RECEIVED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ PRINT NAME: \_\_\_\_\_

SAMPLE CONDITION: 4.1c  
 Actual Temperature: \_\_\_\_\_  
 Received On Ice    
 Preserved    
 Evidence Seals Present    
 Container Attacked    
 Preserved at Lab

SAMPLE TYPE CODE:  
 AQ = Aqueous  
 NA = Non Aqueous  
 SL = Sludge  
 DW = Drinking Water  
 WW = Waste Water  
 RW = Rain Water  
 GW = Ground Water  
 SO = Soil  
 SW = Solid Waste  
 OL = Oil  
 OT = Other Matrix

SPECIAL REQUIREMENTS / BILLING INFORMATION  
 DISTRIBUTION: \_\_\_\_\_ WHITE & CANARY - For Laboratory PINK - For Client

COMMENTS  
 Method of Shipment \_\_\_\_\_  
 Charges Will Apply For Weekends And Holidays  
 SPECIAL HANDLING  
 Same Day Rush 150%  
 24 Hour Rush 100%  
 48 - 72 Hour Rush 75%  
 4 - 5 Day Rush 30%  
 Rush Extraction 50%  
 10 - 15 Business Days  
 QM/QC Package

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).





### Certificate of Analysis

**Report Date:** Tuesday, February 23, 2010  
**Received Date:** Tuesday, February 9, 2010  
**Received Time:** 12:55 pm  
**Turnaround Time:** Normal

**Client:** American Scientific Laboratories  
 2520 N. San Fernando Road  
 Los Angeles, CA 90065-1324

**Phones:** (323) 223-9700  
**Fax:** (323) 223-9500

**Attn:** Molky Brar  
**Project:** 44661

**P.O. #:**

Lab Sample ID: 0B09031-01      Sample ID: 248419      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	3.4	0.022	0.50	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:17	W0B0626	
Lead, Total	0.83	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:17	W0B0626	

Lab Sample ID: 0B09031-02      Sample ID: 248420      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	5.1	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:21	W0B0626	

Lab Sample ID: 0B09031-03      Sample ID: 248421      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	4.2	0.022	0.50	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:26	W0B0626	
Lead, Total	6.3	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:26	W0B0626	

Lab Sample ID: 0B09031-04      Sample ID: 248422      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	0.47	0.013	0.10	ug/l	1x1	EPA 200.8	2/16/10	2/22/10 12:55	W0B0626	
Copper, Total	4.7	0.022	0.50	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:31	W0B0626	
Lead, Total	3.6	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:31	W0B0626	

Lab Sample ID: 0B09031-05      Sample ID: 248423      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	0.14	0.013	0.10	ug/l	1x1	EPA 200.8	2/16/10	2/22/10 13:00	W0B0626	
Copper, Total	4.3	0.022	0.50	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:36	W0B0626	
Lead, Total	9.8	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:36	W0B0626	



**Certificate of Analysis**

Lab Sample ID: 0B09031-06      Sample ID: 248424      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.013	0.10	ug/l	1x1	EPA 200.8	2/16/10	2/22/10 13:05	W0B0626	
Copper, Total	1.2	0.022	0.50	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:40	W0B0626	
Lead, Total	0.64	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:40	W0B0626	

Lab Sample ID: 0B09031-07      Sample ID: 248425      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	2.4	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 1:45	W0B0626	

Lab Sample ID: 0B09031-08      Sample ID: 248426      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	9.8	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 2:04	W0B0626	

Lab Sample ID: 0B09031-09      Sample ID: 248427      Matrix: Water  
 Sampled by: Client      Sampled: 02/06/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	9.8	0.017	0.20	ug/l	1x1	EPA 200.8	2/16/10	2/20/10 2:09	W0B0626	



**Certificate of Analysis**

**Quality Control Section**

**Metals by EPA 200 Series Methods - Quality Control**

**Batch W0B0626 - EPA 200.8**

<b>Blank (W0B0626-BLK1)</b>					<b>Prepared: 02/16/10</b>		<b>Analyzed: 02/20/10 01:02</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....		ND		ug/l					
Lead, Total .....		ND		ug/l					
Cadmium, Total .....		ND		ug/l					

<b>LCS (W0B0626-BS1)</b>					<b>Prepared: 02/16/10</b>		<b>Analyzed: 02/20/10 01:07</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....		51.9		ug/l	50.0	104	85-115		
Lead, Total .....		49.2		ug/l	50.0	98	85-115		
Cadmium, Total .....		48.6		ug/l	50.0	97	85-115		

<b>Matrix Spike (W0B0626-MS1)</b>					<b>Source: 0B09031-05</b>		<b>Prepared: 02/16/10</b>		<b>Analyzed: 02/20/10 02:13</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total .....	4.31 .....	55.3		ug/l	50.0	102	70-130			
Lead, Total .....	9.79 .....	60.2		ug/l	50.0	101	70-130			
Cadmium, Total .....	0.140 .....	48.7		ug/l	50.0	97	70-130			

<b>Matrix Spike Dup (W0B0626-MSD1)</b>					<b>Source: 0B09031-05</b>		<b>Prepared: 02/16/10</b>		<b>Analyzed: 02/20/10 02:18</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total .....	4.31 .....	56.6		ug/l	50.0	105	70-130	2	30	
Lead, Total .....	9.79 .....	59.2		ug/l	50.0	99	70-130	2	30	
Cadmium, Total .....	0.140 .....	48.9		ug/l	50.0	98	70-130	0.6	30	

### Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



*Kim G Tu*  
\_\_\_\_\_  
**Authorized Signature**  
Contact: Kim G Tu (Project Manager)



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for  $\geq 0.5$  and off for  $< 0.5$
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity

February 28, 2010

**TestAmerica Project Number: G0B090427**

PO/Contract:

Molky Brar  
American Scientific Lab  
2520 N. San Fernando Rd  
Los Angeles, CA 90065

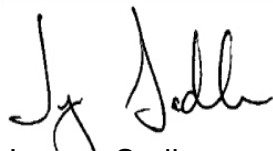
Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on February 9, 2010. These samples are associated with your 44661 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,



Jeremy Sadler  
Project Manager

## Table of Contents

### TestAmerica West Sacramento Project Number G0B090427

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 1613B, Dioxins/Furans, HRGC/HRMS

Samples: 1, 2, 3, 4, 5, 6, 7

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

## Case Narrative

### TestAmerica West Sacramento Project Number G0B090427

#### **WATER, 1613B, Dioxins/Furans, HRGC/HRMS**

Samples: 1, 2, 3, 4, 5, 6, 7

The MB associated with these samples have detections above ½ the reporting limit. The data is reported as is due to insufficient sample volume to re-extract as the client.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

**TestAmerica Laboratories West Sacramento Certifications/Accreditations**

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.



## Sample Summary

### TestAmerica West Sacramento Project Number G0B090427

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LVFK0	1	248418	2/6/2010	2/9/2010 09:15 AM
LVFK2	2	248419	2/6/2010	2/9/2010 09:15 AM
LVFK3	3	248420	2/6/2010	2/9/2010 09:15 AM
LVFK6	4	248421	2/5/2010	2/9/2010 09:15 AM
LVFK7	5	248424	2/6/2010	2/9/2010 09:15 AM
LVFK9	6	248425	2/6/2010	2/9/2010 09:15 AM
LVFLA	7	248426	2/5/2010	2/9/2010 09:15 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**Chain of Custody Record**

TestAmerica Laboratories, Inc.

Your Company Name here <b>Moby BACS</b>		Client Contact <b>Moby BACS</b>		Project Manager:		Site Contact:		Date:	
Address <b>2520 N. San Fernando Road</b>		City/State/Zip <b>L.A. CA 90005</b>		Tel/Fax:		Lab Contact:		Carrier:	
City/State/Zip <b>L.A. CA 90005</b>		Phone <b>323 223 9700</b>		Analysis Turnaround Time		Carrier:		COC No: <b>1</b> of <b>1</b> COCs	
(xxx) xxx-xxxx		FAX <b>323 223 7500</b>		Calendar (C) or Work Days (W)		Carrier:		Job No.	
(xxx) xxx-xxxx		Project Name: <b>ASL JOB # 44661</b>		TAT if different from Below <b>Normal</b>		Carrier:		SDG No.	
Site:		P.O.#		<input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Carrier:		Sample Specific Notes:	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Carrier:	Carrier:	Carrier:
248418	2-6-10			W	1 liter	X			
248419	2-6-10				Phthal	X			
248420	2-5-10					X			
248421	2-5-10					X			
248422	2-6-10					X			
248423	2-6-10					X			
248424	2-5-10					X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>									
Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	ASL	2-8-10 4:00pm	JACG	TAL W.SAC	02 Feb 10 / 0925
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CLIENT AMERICAN SCIENTIFIC LABS PM JS LOG # 63171

LOT# (QUANTIMS ID) G0B090427 QUOTE# 35699 LOCATION WISC

DATE RECEIVED 09F0810 TIME RECEIVED 0915 Checked (✓)

DELIVERED BY  FEDEX  ON TRAC  CLIENT  
 GOLDENSTATE  UPS  GO-GETTERS  OTHER

TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) SML

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) N/A

TEMPERATURE BLANK Observed: N/A Corrected: N/A

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3, 4, 4 Average 4 Corrected Average 4

**LABORATORY THERMOMETER ID:**

IR UNIT: #4  #5  OTHER

gl 09F0810  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

gl 09F0810  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot

ID:

G08090427

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				"
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

**WATER, 1613B,  
Dioxins/Furans,  
HRGC/HRMS**

American Scientific Laboratories LLC

Sample ID: 248418

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 001	Work Order #....:	LVFK01AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	1.01
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	994.1 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT	REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND	10	0.72	pg/L
Total TCDD	ND	10	0.72	pg/L
1,2,3,7,8-PeCDD	ND	51	0.58	pg/L
Total PeCDD	ND	51	0.58	pg/L
1,2,3,4,7,8-HxCDD	1.8 J B	51	0.64	pg/L
1,2,3,6,7,8-HxCDD	1.3 J Q B	51	0.58	pg/L
1,2,3,7,8,9-HxCDD	5.6 J B	51	0.55	pg/L
Total HxCDD	36	51	0.59	pg/L
1,2,3,4,6,7,8-HpCDD	64 B	51	1.4	pg/L
Total HpCDD	310	51	1.4	pg/L
OCDD	380 B	100	2.0	pg/L
2,3,7,8-TCDF	1.9 J Q B	10	0.34	pg/L
Total TCDF	4.3	10	0.34	pg/L
1,2,3,7,8-PeCDF	ND	51	0.45	pg/L
2,3,4,7,8-PeCDF	ND	51	0.49	pg/L
Total PeCDF	ND	51	0.49	pg/L
1,2,3,4,7,8-HxCDF	1.6 J B	51	0.41	pg/L
1,2,3,6,7,8-HxCDF	0.52 J Q B	51	0.38	pg/L
2,3,4,6,7,8-HxCDF	0.49 J Q B	51	0.37	pg/L
1,2,3,7,8,9-HxCDF	0.82 J B	51	0.47	pg/L
Total HxCDF	4.7	51	0.41	pg/L
1,2,3,4,6,7,8-HpCDF	4.8 J Q B	51	1.5	pg/L
1,2,3,4,7,8,9-HpCDF	ND	51	2.3	pg/L
Total HpCDF	18	51	1.8	pg/L
OCDF	31 J B	100	1.2	pg/L

American Scientific Laboratories LLC

Sample ID: 248418

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B090427 - 001	<b>Work Order #....:</b>	LVFK01AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/06/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	1.01
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	994.1 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	57	25 - 164
13C-1,2,3,7,8-PeCDD	69	25 - 181
13C-1,2,3,4,7,8-HxCDD	91	32 - 141
13C-1,2,3,6,7,8-HxCDD	75	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	90	23 - 140
13C-OCDD	86	17 - 157
13C-2,3,7,8-TCDF	56	24 - 169
13C-1,2,3,7,8-PeCDF	62	24 - 185
13C-2,3,4,7,8-PeCDF	62	21 - 178
13C-1,2,3,6,7,8-HxCDF	83	26 - 123
13C-2,3,4,6,7,8-HxCDF	86	28 - 136
13C-1,2,3,7,8,9-HxCDF	81	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	87	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	79	26 - 138
13C-1,2,3,4,7,8-HxCDF	82	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	60	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248419

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 002	Work Order #....:	LVFK21AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	0.99
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	1010.5 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.9	0.20	pg/L
Total TCDD	ND		9.9	0.20	pg/L
1,2,3,7,8-PeCDD	ND		50	0.44	pg/L
Total PeCDD	ND		50	0.44	pg/L
<b>1,2,3,4,7,8-HxCDD</b>	<b>0.77</b>	<b>J B</b>	<b>50</b>	<b>0.034</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDD</b>	<b>0.82</b>	<b>J B</b>	<b>50</b>	<b>0.030</b>	<b>pg/L</b>
<b>1,2,3,7,8,9-HxCDD</b>	<b>1.2</b>	<b>J B</b>	<b>50</b>	<b>0.028</b>	<b>pg/L</b>
<b>Total HxCDD</b>	<b>2.8</b>		<b>50</b>	<b>0.030</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>9.8</b>	<b>J B</b>	<b>50</b>	<b>0.87</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>27</b>		<b>50</b>	<b>0.87</b>	<b>pg/L</b>
<b>OCDD</b>	<b>77</b>	<b>J B</b>	<b>99</b>	<b>1.6</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.9	0.28	pg/L
Total TCDF	ND		9.9	0.28	pg/L
1,2,3,7,8-PeCDF	ND		50	0.27	pg/L
2,3,4,7,8-PeCDF	ND		50	0.30	pg/L
Total PeCDF	ND		50	0.30	pg/L
<b>1,2,3,4,7,8-HxCDF</b>	<b>1.1</b>	<b>J B</b>	<b>50</b>	<b>0.21</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.88</b>	<b>J B</b>	<b>50</b>	<b>0.19</b>	<b>pg/L</b>
<b>2,3,4,6,7,8-HxCDF</b>	<b>0.41</b>	<b>J Q B</b>	<b>50</b>	<b>0.19</b>	<b>pg/L</b>
1,2,3,7,8,9-HxCDF	ND		50	0.23	pg/L
<b>Total HxCDF</b>	<b>4.3</b>		<b>50</b>	<b>0.20</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>2.7</b>	<b>J Q B</b>	<b>50</b>	<b>1.4</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		50	2.2	pg/L
<b>Total HpCDF</b>	<b>6.5</b>		<b>50</b>	<b>1.8</b>	<b>pg/L</b>
<b>OCDF</b>	<b>3.9</b>	<b>J Q B</b>	<b>99</b>	<b>1.0</b>	<b>pg/L</b>



American Scientific Laboratories LLC

Sample ID: 248419

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 002	Work Order #....:	LVFK21AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	0.99
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	1010.5 mL	Analyst ID....:	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	25 - 164
13C-1,2,3,7,8-PeCDD	78	25 - 181
13C-1,2,3,4,7,8-HxCDD	80	32 - 141
13C-1,2,3,6,7,8-HxCDD	75	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	86	23 - 140
13C-OCDD	89	17 - 157
13C-2,3,7,8-TCDF	75	24 - 169
13C-1,2,3,7,8-PeCDF	71	24 - 185
13C-2,3,4,7,8-PeCDF	70	21 - 178
13C-1,2,3,6,7,8-HxCDF	77	26 - 123
13C-2,3,4,6,7,8-HxCDF	82	28 - 136
13C-1,2,3,7,8,9-HxCDF	81	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	83	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	80	26 - 138
13C-1,2,3,4,7,8-HxCDF	81	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	90	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248420

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 003	Work Order #....:	LVFK31AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	1
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	1004.1 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.31	pg/L
Total TCDD	ND		10	0.31	pg/L
1,2,3,7,8-PeCDD	ND		50	0.58	pg/L
Total PeCDD	ND		50	0.58	pg/L
1,2,3,4,7,8-HxCDD	0.59	J Q B	50	0.34	pg/L
1,2,3,6,7,8-HxCDD	0.95	J Q B	50	0.29	pg/L
1,2,3,7,8,9-HxCDD	1.5	J B	50	0.28	pg/L
Total HxCDD	6.1		50	0.30	pg/L
1,2,3,4,6,7,8-HpCDD	8.0	J Q B	50	1.1	pg/L
Total HpCDD	23		50	1.1	pg/L
OCDD	52	J B	100	1.7	pg/L
2,3,7,8-TCDF	ND		10	0.38	pg/L
Total TCDF	ND		10	0.38	pg/L
1,2,3,7,8-PeCDF	ND		50	0.21	pg/L
2,3,4,7,8-PeCDF	ND		50	0.25	pg/L
Total PeCDF	ND		50	0.38	pg/L
1,2,3,4,7,8-HxCDF	1.1	J Q B	50	0.24	pg/L
1,2,3,6,7,8-HxCDF	0.72	J Q B	50	0.22	pg/L
2,3,4,6,7,8-HxCDF	0.64	J Q B	50	0.23	pg/L
1,2,3,7,8,9-HxCDF	0.35	J Q B	50	0.27	pg/L
Total HxCDF	4.7		50	0.24	pg/L
1,2,3,4,6,7,8-HpCDF	2.4	J Q B	50	1.3	pg/L
1,2,3,4,7,8,9-HpCDF	ND		50	2.1	pg/L
Total HpCDF	4.6		50	1.7	pg/L
OCDF	3.3	J Q B	100	1.7	pg/L

**American Scientific Laboratories LLC**

**Sample ID: 248420**

**Trace Level Organic Compounds**

**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B090427 - 003	<b>Work Order #....:</b>	LVFK31AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/06/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1004.1 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	64	25 - 164
13C-1,2,3,7,8-PeCDD	66	25 - 181
13C-1,2,3,4,7,8-HxCDD	68	32 - 141
13C-1,2,3,6,7,8-HxCDD	64	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	74	23 - 140
13C-OCDD	74	17 - 157
13C-2,3,7,8-TCDF	64	24 - 169
13C-1,2,3,7,8-PeCDF	62	24 - 185
13C-2,3,4,7,8-PeCDF	60	21 - 178
13C-1,2,3,6,7,8-HxCDF	66	26 - 123
13C-2,3,4,6,7,8-HxCDF	69	28 - 136
13C-1,2,3,7,8,9-HxCDF	69	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	71	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	67	26 - 138
13C-1,2,3,4,7,8-HxCDF	71	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	82	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248421

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 004	Work Order #....:	LVFK61AA	Matrix....:	WATER
Date Sampled....:	02/05/10	Date Received....:	02/09/10	Dilution Factor:	0.97
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	1025.5 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT	REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND	9.7	0.43	pg/L
Total TCDD	ND	9.7	0.43	pg/L
1,2,3,7,8-PeCDD	ND	49	1.1	pg/L
Total PeCDD	ND	49	1.1	pg/L
1,2,3,4,7,8-HxCDD	0.55 J Q B	49	0.27	pg/L
1,2,3,6,7,8-HxCDD	2.3 J Q B	49	0.23	pg/L
1,2,3,7,8,9-HxCDD	3.4 J B	49	0.22	pg/L
Total HxCDD	13	49	0.24	pg/L
1,2,3,4,6,7,8-HpCDD	11 J B	49	0.72	pg/L
Total HpCDD	29	49	0.72	pg/L
OCDD	75 J B	97	2.4	pg/L
2,3,7,8-TCDF	ND	9.7	0.65	pg/L
Total TCDF	ND	9.7	0.65	pg/L
1,2,3,7,8-PeCDF	1.1 J Q B	49	0.37	pg/L
2,3,4,7,8-PeCDF	0.75 J B	49	0.42	pg/L
Total PeCDF	3.1	49	0.40	pg/L
1,2,3,4,7,8-HxCDF	1.3 J Q B	49	0.49	pg/L
1,2,3,6,7,8-HxCDF	0.98 J Q B	49	0.46	pg/L
2,3,4,6,7,8-HxCDF	1.0 J B	49	0.45	pg/L
1,2,3,7,8,9-HxCDF	1.2 J Q B	49	0.55	pg/L
Total HxCDF	7.2	49	0.49	pg/L
1,2,3,4,6,7,8-HpCDF	3.3 J Q B	49	1.3	pg/L
1,2,3,4,7,8,9-HpCDF	ND	49	2.1	pg/L
Total HpCDF	5.6	49	1.7	pg/L
OCDF	7.8 J B	97	2.6	pg/L

American Scientific Laboratories LLC

Sample ID: 248421

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B090427 - 004	<b>Work Order #....:</b>	LVFK61AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/05/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	0.97
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1025.5 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	50	25 - 164
13C-1,2,3,7,8-PeCDD	54	25 - 181
13C-1,2,3,4,7,8-HxCDD	49	32 - 141
13C-1,2,3,6,7,8-HxCDD	57	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	55	23 - 140
13C-OCDD	52	17 - 157
13C-2,3,7,8-TCDF	51	24 - 169
13C-1,2,3,7,8-PeCDF	49	24 - 185
13C-2,3,4,7,8-PeCDF	48	21 - 178
13C-1,2,3,6,7,8-HxCDF	53	26 - 123
13C-2,3,4,6,7,8-HxCDF	55	28 - 136
13C-1,2,3,7,8,9-HxCDF	55	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	52	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	51	26 - 138
13C-1,2,3,4,7,8-HxCDF	52	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	79	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248424

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 005	Work Order #....:	LVFK71AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	1.05
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	953.5 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		11	0.99	pg/L
Total TCDD	ND		11	0.99	pg/L
1,2,3,7,8-PeCDD	ND		53	1.3	pg/L
Total PeCDD	ND		53	1.3	pg/L
<b>1,2,3,4,7,8-HxCDD</b>	<b>0.94</b>	<b>J Q B</b>	<b>53</b>	<b>0.88</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDD</b>	<b>1.6</b>	<b>J B</b>	<b>53</b>	<b>0.78</b>	<b>pg/L</b>
<b>1,2,3,7,8,9-HxCDD</b>	<b>2.7</b>	<b>J B</b>	<b>53</b>	<b>0.75</b>	<b>pg/L</b>
<b>Total HxCDD</b>	<b>21</b>		<b>53</b>	<b>0.80</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>14</b>	<b>J B</b>	<b>53</b>	<b>2.0</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>42</b>		<b>53</b>	<b>2.0</b>	<b>pg/L</b>
<b>OCDD</b>	<b>110</b>	<b>B</b>	<b>110</b>	<b>2.0</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		11	0.50	pg/L
Total TCDF	ND		11	0.50	pg/L
1,2,3,7,8-PeCDF	ND		53	0.79	pg/L
2,3,4,7,8-PeCDF	ND		53	0.83	pg/L
Total PeCDF	ND		53	0.83	pg/L
<b>1,2,3,4,7,8-HxCDF</b>	<b>0.83</b>	<b>J Q B</b>	<b>53</b>	<b>0.60</b>	<b>pg/L</b>
1,2,3,6,7,8-HxCDF	ND		53	0.53	pg/L
2,3,4,6,7,8-HxCDF	ND		53	0.50	pg/L
1,2,3,7,8,9-HxCDF	ND		53	0.68	pg/L
<b>Total HxCDF</b>	<b>3.6</b>	<b>B</b>	<b>53</b>	<b>0.57</b>	<b>pg/L</b>
1,2,3,4,6,7,8-HpCDF	ND		53	1.9	pg/L
1,2,3,4,7,8,9-HpCDF	ND		53	3.2	pg/L
<b>Total HpCDF</b>	<b>8.8</b>		<b>53</b>	<b>2.5</b>	<b>pg/L</b>
<b>OCDF</b>	<b>16</b>	<b>J B</b>	<b>110</b>	<b>3.6</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 248424

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B090427 - 005	<b>Work Order #....:</b>	LVFK71AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/06/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	1.05
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	953.5 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	25	25 - 164
13C-1,2,3,7,8-PeCDD	35	25 - 181
13C-1,2,3,4,7,8-HxCDD	48	32 - 141
13C-1,2,3,6,7,8-HxCDD	41	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	47	23 - 140
13C-OCDD	42	17 - 157
13C-2,3,7,8-TCDF	24	24 - 169
13C-1,2,3,7,8-PeCDF	29	24 - 185
13C-2,3,4,7,8-PeCDF	32	21 - 178
13C-1,2,3,6,7,8-HxCDF	42	26 - 123
13C-2,3,4,6,7,8-HxCDF	47	28 - 136
13C-1,2,3,7,8,9-HxCDF	43	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	46	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	41	26 - 138
13C-1,2,3,4,7,8-HxCDF	44	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	47	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248425

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 006	Work Order #....:	LVFK91AA	Matrix....:	WATER
Date Sampled....:	02/06/10	Date Received....:	02/09/10	Dilution Factor:	1.01
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	986.5 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.46	pg/L
Total TCDD	ND		10	0.46	pg/L
1,2,3,7,8-PeCDD	ND		51	0.66	pg/L
Total PeCDD	ND		51	0.66	pg/L
<b>1,2,3,4,7,8-HxCDD</b>	<b>1.9</b>	<b>J Q B</b>	<b>51</b>	<b>0.79</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDD</b>	<b>3.6</b>	<b>J B</b>	<b>51</b>	<b>0.68</b>	<b>pg/L</b>
<b>1,2,3,7,8,9-HxCDD</b>	<b>2.8</b>	<b>J Q B</b>	<b>51</b>	<b>0.66</b>	<b>pg/L</b>
<b>Total HxCDD</b>	<b>40</b>		<b>51</b>	<b>0.70</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>50</b>	<b>J B</b>	<b>51</b>	<b>2.1</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>170</b>		<b>51</b>	<b>2.1</b>	<b>pg/L</b>
<b>OCDD</b>	<b>470</b>	<b>B</b>	<b>100</b>	<b>2.6</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		10	0.98	pg/L
Total TCDF	ND		10	0.98	pg/L
1,2,3,7,8-PeCDF	ND		51	0.52	pg/L
2,3,4,7,8-PeCDF	ND		51	0.63	pg/L
Total PeCDF	ND		51	0.57	pg/L
1,2,3,4,7,8-HxCDF	ND		51	0.60	pg/L
1,2,3,6,7,8-HxCDF	ND		51	0.56	pg/L
2,3,4,6,7,8-HxCDF	ND		51	0.56	pg/L
1,2,3,7,8,9-HxCDF	ND		51	0.79	pg/L
<b>Total HxCDF</b>	<b>7.2</b>		<b>51</b>	<b>0.62</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>7.0</b>	<b>J Q B</b>	<b>51</b>	<b>1.2</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		51	2.2	pg/L
<b>Total HpCDF</b>	<b>17</b>		<b>51</b>	<b>1.6</b>	<b>pg/L</b>
<b>OCDF</b>	<b>15</b>	<b>J B</b>	<b>100</b>	<b>2.4</b>	<b>pg/L</b>



American Scientific Laboratories LLC

Sample ID: 248425

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B090427 - 006	<b>Work Order #....:</b>	LVFK91AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/06/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	1.01
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	986.5 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	69	25 - 164
13C-1,2,3,7,8-PeCDD	66	25 - 181
13C-1,2,3,4,7,8-HxCDD	83	32 - 141
13C-1,2,3,6,7,8-HxCDD	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	78	23 - 140
13C-OCDD	69	17 - 157
13C-2,3,7,8-TCDF	67	24 - 169
13C-1,2,3,7,8-PeCDF	63	24 - 185
13C-2,3,4,7,8-PeCDF	59	21 - 178
13C-1,2,3,6,7,8-HxCDF	81	26 - 123
13C-2,3,4,6,7,8-HxCDF	81	28 - 136
13C-1,2,3,7,8,9-HxCDF	72	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	80	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	66	26 - 138
13C-1,2,3,4,7,8-HxCDF	84	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	82	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 248426

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B090427 - 007	Work Order #....:	LVFLA1AA	Matrix....:	WATER
Date Sampled....:	02/05/10	Date Received....:	02/09/10	Dilution Factor:	0.98
Prep Date....:	02/19/10	Analysis Date....:	02/24/10		
Prep Batch # ....:	0050110	Instrument ID....:	4D5		
Initial Wgt/Vol :	1023.6 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.8	0.98	pg/L
Total TCDD	ND		9.8	0.98	pg/L
<b>1,2,3,7,8-PeCDD</b>	<b>2.3</b>	<b>J B</b>	<b>49</b>	<b>0.68</b>	<b>pg/L</b>
<b>Total PeCDD</b>	<b>4.2</b>		<b>49</b>	<b>0.68</b>	<b>pg/L</b>
1,2,3,4,7,8-HxCDD	4.2	J Q B	49	1.2	pg/L
1,2,3,6,7,8-HxCDD	7.2	J Q B	49	0.99	pg/L
1,2,3,7,8,9-HxCDD	8.8	J B	49	0.96	pg/L
<b>Total HxCDD</b>	<b>55</b>		<b>49</b>	<b>1.0</b>	<b>pg/L</b>
1,2,3,4,6,7,8-HpCDD	190	B	49	2.8	pg/L
<b>Total HpCDD</b>	<b>390</b>		<b>49</b>	<b>2.8</b>	<b>pg/L</b>
<b>OCDD</b>	<b>2000</b>	<b>B</b>	<b>98</b>	<b>4.2</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.8	0.78	pg/L
Total TCDF	ND		9.8	0.78	pg/L
1,2,3,7,8-PeCDF	ND		49	0.47	pg/L
2,3,4,7,8-PeCDF	ND		49	0.55	pg/L
Total PeCDF	ND		49	1.2	pg/L
1,2,3,4,7,8-HxCDF	1.9	J Q B	49	0.37	pg/L
1,2,3,6,7,8-HxCDF	1.2	J Q B	49	0.35	pg/L
2,3,4,6,7,8-HxCDF	1.8	J B	49	0.34	pg/L
1,2,3,7,8,9-HxCDF	0.47	J Q B	49	0.43	pg/L
<b>Total HxCDF</b>	<b>29</b>		<b>49</b>	<b>0.37</b>	<b>pg/L</b>
1,2,3,4,6,7,8-HpCDF	33	J B	49	1.7	pg/L
1,2,3,4,7,8,9-HpCDF	ND		49	2.7	pg/L
<b>Total HpCDF</b>	<b>79</b>		<b>49</b>	<b>2.2</b>	<b>pg/L</b>
<b>OCDF</b>	<b>85</b>	<b>J B</b>	<b>98</b>	<b>1.6</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 248426

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B090427 - 007	<b>Work Order #....:</b>	LVFLA1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/05/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	0.98
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/24/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1023.6 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	62	25 - 164
13C-1,2,3,7,8-PeCDD	62	25 - 181
13C-1,2,3,4,7,8-HxCDD	61	32 - 141
13C-1,2,3,6,7,8-HxCDD	67	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	70	23 - 140
13C-OCDD	70	17 - 157
13C-2,3,7,8-TCDF	61	24 - 169
13C-1,2,3,7,8-PeCDF	59	24 - 185
13C-2,3,4,7,8-PeCDF	56	21 - 178
13C-1,2,3,6,7,8-HxCDF	64	26 - 123
13C-2,3,4,6,7,8-HxCDF	68	28 - 136
13C-1,2,3,7,8,9-HxCDF	65	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	68	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	64	26 - 138
13C-1,2,3,4,7,8-HxCDF	64	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	87	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0B090427

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B		0050110	
002	WATER	EPA-5 1613B		0050110	
003	WATER	EPA-5 1613B		0050110	
004	WATER	EPA-5 1613B		0050110	
005	WATER	EPA-5 1613B		0050110	
006	WATER	EPA-5 1613B		0050110	
007	WATER	EPA-5 1613B		0050110	

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0B190000 - 110B	<b>Work Order #....:</b>	LVVV51AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/06/10	<b>Date Received....:</b>	02/09/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	02/19/10	<b>Analysis Date....:</b>	02/22/10		
<b>Prep Batch # ....:</b>	0050110	<b>Instrument ID....:</b>	4D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	13	10	0.73	pg/L
Total TCDD	13	10	0.73	pg/L
1,2,3,7,8-PeCDD	29 J	50	1.0	pg/L
Total PeCDD	29	50	1.0	pg/L
1,2,3,4,7,8-HxCDD	29 J	50	0.84	pg/L
1,2,3,6,7,8-HxCDD	27 J	50	0.76	pg/L
1,2,3,7,8,9-HxCDD	29 J	50	0.72	pg/L
Total HxCDD	85	50	0.77	pg/L
1,2,3,4,6,7,8-HpCDD	35 J	50	1.1	pg/L
Total HpCDD	45	50	1.1	pg/L
OCDD	94 J	100	0.44	pg/L
2,3,7,8-TCDF	13	10	0.18	pg/L
Total TCDF	13	10	0.18	pg/L
1,2,3,7,8-PeCDF	33 J	50	0.61	pg/L
2,3,4,7,8-PeCDF	28 J	50	0.72	pg/L
Total PeCDF	60	50	0.66	pg/L
1,2,3,4,7,8-HxCDF	29 J	50	0.76	pg/L
1,2,3,6,7,8-HxCDF	28 J	50	0.68	pg/L
2,3,4,6,7,8-HxCDF	22 J	50	0.67	pg/L
1,2,3,7,8,9-HxCDF	33 J	50	0.89	pg/L
Total HxCDF	110	50	0.74	pg/L
1,2,3,4,6,7,8-HpCDF	30 J	50	1.1	pg/L
1,2,3,4,7,8,9-HpCDF	31 J	50	1.9	pg/L
Total HpCDF	71	50	1.4	pg/L
OCDF	63 J	100	0.71	pg/L

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

**Lot - Sample #....:** G0B190000 - 110B  
**Date Sampled....:** 02/06/10  
**Prep Date....:** 02/19/10  
**Prep Batch # ....:** 0050110  
**Initial Wgt/Vol :** 1000 mL

**Work Order #....:** LVVV51AA  
**Date Received....:** 02/09/10  
**Analysis Date....:** 02/22/10  
**Instrument ID....:** 4D5  
**Analyst ID....:** Sonia Ouni

**Matrix....:** WATER  
**Dilution Factor:** 1

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	67	25 - 164
13C-1,2,3,7,8-PeCDD	61	25 - 181
13C-1,2,3,4,7,8-HxCDD	78	32 - 141
13C-1,2,3,6,7,8-HxCDD	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	70	23 - 140
13C-OCDD	59	17 - 157
13C-2,3,7,8-TCDF	64	24 - 169
13C-1,2,3,7,8-PeCDF	57	24 - 185
13C-2,3,4,7,8-PeCDF	51	21 - 178
13C-1,2,3,6,7,8-HxCDF	81	26 - 123
13C-2,3,4,6,7,8-HxCDF	79	28 - 136
13C-1,2,3,7,8,9-HxCDF	69	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	75	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	59	26 - 138
13C-1,2,3,4,7,8-HxCDF	76	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	82	35 - 197

**QUALIFIERS**

J Estimated Result.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

<b>Client Lot # ...:</b>	G0B090427	<b>Work Order # ...:</b>	LVVV51AC-LCS	<b>Matrix .....</b>	WATER
<b>LCS Lot-Sample# :</b>	G0B190000 - 110				
<b>Prep Date .....</b>	02/19/10	<b>Analysis Date ...:</b>	02/22/10		
<b>Prep Batch # ...:</b>	0050110				
<b>Dilution Factor :</b>	1				
<b>Analyst ID.....:</b>	Sonia Ouni	<b>Instrument ID.:</b>	4D5	<b>Method.....:</b>	EPA-5 1613B
<b>Initial Wgt/Vol:</b>	1000 mL				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	200	209	pg/L	105	(67 - 158)
1,2,3,7,8-PeCDD	1000	985	pg/L	99	(70 - 142)
1,2,3,4,7,8-HxCDD	1000	1120	pg/L	112	(70 - 164)
1,2,3,6,7,8-HxCDD	1000	1050	pg/L	105	(76 - 134)
1,2,3,7,8,9-HxCDD	1000	1070	pg/L	107	(64 - 162)
1,2,3,4,6,7,8-HpCDD	1000	1110	pg/L	111	(70 - 140)
OCDD	2000	2250	pg/L	112	(78 - 144)
2,3,7,8-TCDF	200	209	pg/L	105	(75 - 158)
1,2,3,7,8-PeCDF	1000	1120	pg/L	112	(80 - 134)
2,3,4,7,8-PeCDF	1000	1200	pg/L	120	(68 - 160)
1,2,3,4,7,8-HxCDF	1000	1240	pg/L	124	(72 - 134)
1,2,3,6,7,8-HxCDF	1000	1100	pg/L	110	(84 - 130)
2,3,4,6,7,8-HxCDF	1000	1120	pg/L	112	(70 - 156)
1,2,3,7,8,9-HxCDF	1000	1130	pg/L	113	(78 - 130)
1,2,3,4,6,7,8-HpCDF	1000	1160	pg/L	116	(82 - 122)
1,2,3,4,7,8,9-HpCDF	1000	1190	pg/L	119	(78 - 138)
OCDF	2000	2200	pg/L	110	(63 - 170)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	76	(20 - 175)
13C-1,2,3,7,8-PeCDD	71	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	75	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	80	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	80	(26 - 166)
13C-OCDD	77	(13 - 199)
13C-2,3,7,8-TCDF	75	(22 - 152)
13C-1,2,3,7,8-PeCDF	68	(21 - 192)
13C-2,3,4,7,8-PeCDF	61	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	78	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	80	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	76	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	80	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	72	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	74	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	88	(31 - 191)

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

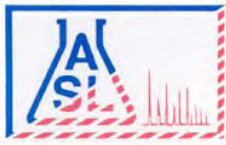
**Notes:**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters





**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

LARWQCB  
320 W. 4th St.  
Los Angeles, CA 90013-

Number of Pages 3  
Date Received 02/23/2010  
Date Reported 03/02/2010

Telephone (213) 576-6724  
Attn Cassandra D. Owens

Job Number	Ordered	Client
44851	02/23/2010	LARWQB

Project ID: BOEING SSFL ISRA  
Project Name:  
Site: 5800 Woolsey Canyon Road  
Canoga Park, CA 91304

Enclosed are the results of analyses on 4 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar  
Laboratory Manager

Rojert G. Araghi  
Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

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- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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 Environmental Testing Services  
 2520 N. San Fernando Road, L.A., CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

DOC# **N9 52584** GLOBAL ID \_\_\_\_\_ E REPORT:  PDF  EDF  EDD ASL JOB# **49851**

Company: **LA Regional Water Quality Control Board**  
 Address: **320 W. 4th St. #200** Project Name: **Boeing SSSL ISKA**  
 Site Address: **5800 Woodsey Canyon Road**  
 Telephone: **(313) 516-6750** Project ID: **Canga Park, CA 91304**  
 Fax: **(313) 570-6600**  
 Special Instruction: \_\_\_\_\_  
 E-mail: **cdw@nsdwaterboards.ca.gov** Project Manager: **John Baker / AET Kerosene**  
 Report To: **Cassandra D. Evans**  
 Address: **320 W. 4th St. LN, CA 90013**  
 Invoice To: **Neil Kennet (913) 446-8995**  
 Address: **5800 Woodsey Canyon Rd, CA 91304**  
 P.O.#: \_\_\_\_\_  
 ANALYSIS REQUESTED:  
 Cadmium, total by 200.8  
 Copper, total by 200.8  
 Lead, total by 200.8  
 Mercury, total by 245.1  
 Dioxin by 1613  
 TSS by 2540

LAB USE ONLY	SAMPLE DESCRIPTION			Container(s)	Matrix	Preservation	ANALYSIS REQUESTED						Remarks				
	LAB ID	Sample ID	Date				Time	#	Type								
	249054	ASW00065007-KWACH	2/20/10	0849	3	1 amber 2 polys	W	HNO3									
	249055	ASW00075003-KWACH	2/20/10	0853	3	1 amber 2 polys	W	HNO3									
	249056	ASW00045004-KWACH	2/20/10	0805	2	2 polys	W	HNO3									
	249057	ASW00065003-KWACH	2/20/10	0823	2	1 amber 1 poly	W	HNO3									

Collected By: **SMITH** Date: **2/25/10** Time: **11:05**  
 Relinquished By: **SMITH** Date: **2/25/10** Time: **11:00**  
 Received By: **Cassandra D. Evans** Date: **2/23/10** Time: **11:15**  
 Relinquished By: **Cassandra D. Evans** Date: **2/23/10** Time: **1:05**  
 Condition of Sample:  Normal  Rush

White - Report, Yellow - Laboratory, Pink - Client



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 2

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44851	02/23/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

QC Batch No: 022510-1

Our Lab I.D.		249054	249055	249056	249057	
Client Sample I.D.		A2SW0006S0 02 - RWQCB	A2SW0006S0 03 - RWQCB	A1SW0006S0 04 - RWQCB	A1SW0006S0 03 - RWQCB	
Date Sampled		02/20/2010	02/20/2010	02/20/2010	02/20/2010	
Date Prepared		02/25/2010	02/25/2010	02/25/2010	02/25/2010	
Preparation Method						
Date Analyzed		02/25/2010	02/25/2010	02/25/2010	02/25/2010	
Matrix		Water	Water	Water	Water	
Units		mg/L	mg/L	mg/L	mg/L	
Dilution Factor		1	1	1	1	
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	ND	ND	ND	12.0	

**QUALITY CONTROL REPORT**

QC Batch No: 022510-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
<b>Conventionals</b>									
Solids, Total Suspended (TSS)	107	104	2.8	80-120	20				



# Weck Laboratories, Inc.

Analytical Laboratory Services • Since 1964

14859 East Clark Avenue • Industry, CA 91745  
Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

# CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT NAME:

American Scientific Labs.

PROJECT: 44851

PHONE #: 323 223 9900

FAX #: 323 223 9500

E-MAIL: molkey@astlabs.com

P.O.#:

ADDRESS: 2590 N. San Fernando Road  
L.A. CA 90065

PROJECT MANAGER: molkey@astlabs.com

ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPL. TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	ANALYSIS REQUESTED
	9-20-10		WY	249054	1 plastic	(S) (ICP) 8-00C by PD
	"		W	249055	"	(S) (ICP) 8-00C by PD
	"		W	249056	"	(S) (ICP) 8-00C by PD

SAMPLE CONDITION:	RECEIVED BY:	PRINT NAME	DATE/TIME	PRINT NAME	SPECIAL REQUIREMENTS / BILLING INFORMATION
Actual Temperature: 100	<i>[Signature]</i>	W. D-30	9/24/10 10:30	<i>[Signature]</i>	
Received On Ice	<i>[Signature]</i>	W. D-30		<i>[Signature]</i>	
Preserved					
Evidence Seals Present					
Container Attacked					
Preserved at Lab					

**SPECIAL HANDLING:**

- Same Day Rush 150%
- 24 Hour Rush 100%
- 48 - 72 Hour Rush 75%
- 4 - 5 Day Rush 30%
- Rush Extraction 50%
- 10 - 15 Business Days
- QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment \_\_\_\_\_

**COMMENTS:**  
Please find  
FDD (Seal) w/ PD of find mgmt

**PRE-SCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).**

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

- SAMPLE TYPE CODE:**
- AQ = Aqueous
  - NA = Non Aqueous
  - SL = Sludge
  - DW = Drinking Water
  - WW = Waste Water
  - RW = Rain Water
  - GW = Ground Water
  - SO = Soil
  - SW = Solid Waste
  - OL = Oil
  - OT = Other Matrix



**Certificate of Analysis**

**Report Date:** Wednesday, March 3, 2010  
**Received Date:** Wednesday, February 24, 2010  
**Received Time:** 10:30 am  
**Turnaround Time:** Normal

**Client:** American Scientific Laboratories  
 2520 N. San Fernando Road  
 Los Angeles, CA 90065-1324

**Phones:** (323) 223-9700  
**Fax:** (323) 223-9500

**Attn:** Molky Brar  
**Project:** 44851

**P.O. #:**

**Lab Sample ID:** 0B24022-01      **Sample ID:** 249054      **Matrix:** Water  
**Sampled by:** Client      **Sampled:** 02/20/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	0.87	0.017	0.20	ug/l	1x1	EPA 200.8	2/25/10	2/26/10 23:40	W0B0974	

**Lab Sample ID:** 0B24022-02      **Sample ID:** 249055      **Matrix:** Water  
**Sampled by:** Client      **Sampled:** 02/20/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	ND	0.017	0.20	ug/l	1x1	EPA 200.8	2/25/10	2/26/10 23:45	W0B0974	

**Lab Sample ID:** 0B24022-03      **Sample ID:** 249056      **Matrix:** Water  
**Sampled by:** Client      **Sampled:** 02/20/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	0.16	0.013	0.10	ug/l	1x1	EPA 200.8	2/25/10	2/26/10 23:50	W0B0974	
Copper, Total	2.7	0.022	0.50	ug/l	1x1	EPA 200.8	2/25/10	2/26/10 23:50	W0B0974	
Lead, Total	ND	0.017	0.20	ug/l	1x1	EPA 200.8	2/25/10	2/26/10 23:50	W0B0974	



**Certificate of Analysis**

**Quality Control Section**

**Metals by EPA 200 Series Methods - Quality Control**

**Batch W0B0974 - EPA 200.8**

**Blank (W0B0974-BLK1)**

**Prepared: 02/25/10 Analyzed: 02/26/10 22:54**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....		ND		ug/l					
Lead, Total .....		ND		ug/l					
Cadmium, Total .....		ND		ug/l					

**LCS (W0B0974-BS1)**

**Prepared: 02/25/10 Analyzed: 02/26/10 22:58**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....		51.3		ug/l	50.0	103	85-115		
Lead, Total .....		47.9		ug/l	50.0	96	85-115		
Cadmium, Total .....		51.9		ug/l	50.0	104	85-115		

**Matrix Spike (W0B0974-MS1)**

**Source: 0B24025-06**

**Prepared: 02/25/10 Analyzed: 02/26/10 23:55**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....	3.26 .....	50.1		ug/l	50.0	94	70-130		
Lead, Total .....	19.0 .....	68.5		ug/l	50.0	99	70-130		
Cadmium, Total .....	0.104 .....	48.2		ug/l	50.0	96	70-130		

**Matrix Spike Dup (W0B0974-MSD1)**

**Source: 0B24025-06**

**Prepared: 02/25/10 Analyzed: 02/26/10 23:59**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total .....	3.26 .....	50.5		ug/l	50.0	94	70-130	0.8	30
Lead, Total .....	19.0 .....	69.5		ug/l	50.0	101	70-130	2	30
Cadmium, Total .....	0.104 .....	48.5		ug/l	50.0	97	70-130	0.5	30

### Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



*Kim G Tu*  
\_\_\_\_\_  
**Authorized Signature**  
Contact: Kim G Tu (Project Manager)



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for  $\geq 0.5$  and off for  $< 0.5$
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity

March 12, 2010

**TestAmerica Project Number: G0B240496**

PO/Contract:

Molky Brar  
American Scientific Lab  
2520 N. San Fernando Rd  
Los Angeles, CA 90065

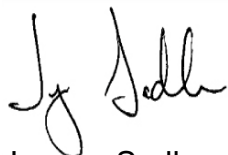
Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on February 24, 2010. These samples are associated with your 44851 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,



Jeremy Sadler  
Project Manager



## Table of Contents

# TestAmerica West Sacramento Project Number G0B240496

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 1613B, Dioxins/Furans, HRGC/HRMS

Samples: 1, 2, 3

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

## Case Narrative

### TestAmerica West Sacramento Project Number G0B240496

#### WATER, 1613B, Dioxins/Furans, HRGC/HRMS

Samples: 1, 3

Several analytes have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

### TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G0B240496

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LV2FR	1	249054	2/20/2010	2/24/2010 08:35 AM
LV2FX	2	249055	2/20/2010	2/24/2010 08:35 AM
LV2F2	3	249057	2/20/2010	2/24/2010 08:35 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**Chain of Custody Record**

TestAmerica Laboratories, Inc.

Your Company Name here <b>Client Contact Melky Bran</b> Address <b>American Scientific Lab</b> City/State/Zip <b>2520 N. San Fernando Road L.A. CA 90065</b> Phone <b>323 223 9900</b> FAX <b>323 223 9300</b> Project Name: <b>44851</b> Site: P.O.#		Project Manager: Analysis Turnaround Time Calendar (C) or Work Days (W) <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Date: Carrier:		COC No: _____ of _____ COCs Job No. SDG No.	
Sample Identification <b>249054 (1 liter Amber)</b> <b>249055 ( u )</b> <b>249057 ( u )</b>		Sample Date <b>2.22.10</b> <b>u</b> <b>u</b>	Sample Time <b>Water</b> <b>u</b> <b>u</b>	Sample Type <b>Water</b> <b>u</b> <b>u</b>	Matrix <b>u</b> <b>u</b>	# of Cont. <b>1</b> <b>1</b> <b>1</b>	Sample Specific Notes: <b>Please send</b> <b>EPA (except w/</b> <b>PDF of</b> <b>final report</b>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/>							
Special Instructions/QC Requirements & Comments: Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							

Relinquished by: <b>Jared Chin</b>	Company: <b>ASL</b>	Date/Time: <b>2-23-10</b>	Received by: <i>[Signature]</i>	Company: <b>MWS</b>	Date/Time: <b>2-24-10 1045</b>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

CLIENT American Scientific PM IS LOG # 03429

LOT# (QUANTIMS ID) G0B240496 QUOTE# 35699 LOCATION W11A

DATE RECEIVED 2-24-10 TIME RECEIVED 835 Checked

DELIVERED BY  FEDEX  ON TRAC  CLIENT

GOLDENSTATE  UPS  GO-GETTERS  OTHER

TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) \_\_\_\_\_

TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)  
Observed: 3 3 3 Average 3 Corrected Average 3

LABORATORY THERMOMETER ID:  
IR UNIT: #4  #5  OTHER \_\_\_\_\_

AW 2-24-10  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW \_\_\_\_\_  NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH  N/A

APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C – 6 °C)<sup>\*1</sup>  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

AW 2-24-10  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot  
ID:

G0B240496

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				11
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

**WATER, 1613B,  
Dioxins/Furans,  
HRGC/HRMS**



American Scientific Laboratories LLC

Sample ID: 249054

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B240496 - 001	Work Order #....:	LV2FR1AA	Matrix....:	WATER
Date Sampled....:	02/20/10	Date Received....:	02/24/10	Dilution Factor:	0.95
Prep Date....:	03/03/10	Analysis Date....:	03/06/10		
Prep Batch # ....:	0062161	Instrument ID....:	1D5		
Initial Wgt/Vol :	1046 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	4.5	J Q	9.5	2.9	pg/L
Total TCDD	4.5		9.5	2.9	pg/L
1,2,3,7,8-PeCDD	35	J	48	4.4	pg/L
Total PeCDD	40		48	4.4	pg/L
1,2,3,4,7,8-HxCDD	44	J	48	4.1	pg/L
1,2,3,6,7,8-HxCDD	43	J	48	4.0	pg/L
1,2,3,7,8,9-HxCDD	33	Q J	48	3.2	pg/L
Total HxCDD	120		48	3.7	pg/L
1,2,3,4,6,7,8-HpCDD	77		48	12	pg/L
Total HpCDD	100		48	12	pg/L
OCDD	440	B	95	23	pg/L
2,3,7,8-TCDF	3.2	J Q	9.5	2.0	pg/L
Total TCDF	3.2		9.5	2.0	pg/L
1,2,3,7,8-PeCDF	27	J	48	2.8	pg/L
2,3,4,7,8-PeCDF	35	J	48	3.1	pg/L
Total PeCDF	65		48	2.9	pg/L
1,2,3,4,7,8-HxCDF	40	J	48	2.4	pg/L
1,2,3,6,7,8-HxCDF	41	J	48	2.2	pg/L
2,3,4,6,7,8-HxCDF	39	J	48	2.1	pg/L
1,2,3,7,8,9-HxCDF	40	J	48	2.2	pg/L
Total HxCDF	160		48	2.2	pg/L
1,2,3,4,6,7,8-HpCDF	48	B	48	3.2	pg/L
1,2,3,4,7,8,9-HpCDF	46	J	48	4.3	pg/L
Total HpCDF	100		48	3.7	pg/L
OCDF	110	B	95	6.2	pg/L

American Scientific Laboratories LLC

Sample ID: 249054

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0B240496 - 001	<b>Work Order #....:</b>	LV2FR1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/20/10	<b>Date Received....:</b>	02/24/10	<b>Dilution Factor:</b>	0.95
<b>Prep Date....:</b>	03/03/10	<b>Analysis Date....:</b>	03/06/10		
<b>Prep Batch # ....:</b>	0062161	<b>Instrument ID....:</b>	1D5		
<b>Initial Wgt/Vol :</b>	1046 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	58	25 - 164
13C-1,2,3,7,8-PeCDD	71	25 - 181
13C-1,2,3,4,7,8-HxCDD	80	32 - 141
13C-1,2,3,6,7,8-HxCDD	88	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	80	23 - 140
13C-OCDD	70	17 - 157
13C-2,3,7,8-TCDF	53	24 - 169
13C-1,2,3,7,8-PeCDF	70	24 - 185
13C-2,3,4,7,8-PeCDF	70	21 - 178
13C-1,2,3,6,7,8-HxCDF	82	26 - 123
13C-2,3,4,6,7,8-HxCDF	85	28 - 136
13C-1,2,3,7,8,9-HxCDF	74	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	82	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	73	26 - 138
13C-1,2,3,4,7,8-HxCDF	83	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	90	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249055

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B240496 - 002	Work Order #....:	LV2FX1AA	Matrix....:	WATER
Date Sampled....:	02/20/10	Date Received....:	02/24/10	Dilution Factor:	0.98
Prep Date....:	03/03/10	Analysis Date....:	03/06/10		
Prep Batch # ....:	0062161	Instrument ID....:	1D5		
Initial Wgt/Vol :	1021.1 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.8	2.8	pg/L
Total TCDD	ND		9.8	2.8	pg/L
1,2,3,7,8-PeCDD	ND		49	5.7	pg/L
Total PeCDD	ND		49	5.7	pg/L
1,2,3,4,7,8-HxCDD	ND		49	5.6	pg/L
1,2,3,6,7,8-HxCDD	ND		49	5.0	pg/L
1,2,3,7,8,9-HxCDD	ND		49	4.2	pg/L
Total HxCDD	ND		49	5.6	pg/L
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>44</b>	<b>J</b>	<b>49</b>	<b>12</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>73</b>		<b>49</b>	<b>12</b>	<b>pg/L</b>
<b>OCDD</b>	<b>430</b>	<b>B</b>	<b>98</b>	<b>22</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.8	1.9	pg/L
Total TCDF	ND		9.8	1.9	pg/L
1,2,3,7,8-PeCDF	ND		49	2.9	pg/L
2,3,4,7,8-PeCDF	ND		49	3.1	pg/L
Total PeCDF	ND		49	3.1	pg/L
1,2,3,4,7,8-HxCDF	ND		49	2.6	pg/L
1,2,3,6,7,8-HxCDF	ND		49	2.2	pg/L
2,3,4,6,7,8-HxCDF	ND		49	2.1	pg/L
1,2,3,7,8,9-HxCDF	ND		49	2.2	pg/L
Total HxCDF	ND		49	2.6	pg/L
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>10</b>	<b>J B</b>	<b>49</b>	<b>3.5</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		49	4.9	pg/L
<b>Total HpCDF</b>	<b>54</b>		<b>49</b>	<b>4.1</b>	<b>pg/L</b>
<b>OCDF</b>	<b>120</b>	<b>B</b>	<b>98</b>	<b>6.2</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 249055

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....: G0B240496 - 002  
Date Sampled....: 02/20/10  
Prep Date....: 03/03/10  
Prep Batch # ....: 0062161  
Initial Wgt/Vol : 1021.1 mL

Work Order #....: LV2FX1AA  
Date Received....: 02/24/10  
Analysis Date....: 03/06/10  
Instrument ID....: 1D5  
Analyst ID....: Sonia Ouni

Matrix....: WATER  
Dilution Factor: 0.98

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	55	25 - 164
13C-1,2,3,7,8-PeCDD	61	25 - 181
13C-1,2,3,4,7,8-HxCDD	74	32 - 141
13C-1,2,3,6,7,8-HxCDD	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	70	23 - 140
13C-OCDD	63	17 - 157
13C-2,3,7,8-TCDF	53	24 - 169
13C-1,2,3,7,8-PeCDF	60	24 - 185
13C-2,3,4,7,8-PeCDF	62	21 - 178
13C-1,2,3,6,7,8-HxCDF	77	26 - 123
13C-2,3,4,6,7,8-HxCDF	76	28 - 136
13C-1,2,3,7,8,9-HxCDF	68	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	76	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	68	26 - 138
13C-1,2,3,4,7,8-HxCDF	74	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	85	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

American Scientific Laboratories LLC

Sample ID: 249057

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B240496 - 003	Work Order #....:	LV2F21AA	Matrix....:	WATER
Date Sampled....:	02/20/10	Date Received....:	02/24/10	Dilution Factor:	1.04
Prep Date....:	03/03/10	Analysis Date....:	03/06/10		
Prep Batch # ....:	0062161	Instrument ID....:	1D5		
Initial Wgt/Vol :	958.8 mL	Analyst ID....:	Sonia Ouni		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	2.9	pg/L
Total TCDD	ND		10	2.9	pg/L
1,2,3,7,8-PeCDD	ND		52	7.5	pg/L
Total PeCDD	ND		52	7.5	pg/L
1,2,3,4,7,8-HxCDD	ND		52	5.2	pg/L
1,2,3,6,7,8-HxCDD	ND		52	4.9	pg/L
<b>1,2,3,7,8,9-HxCDD</b>	<b>8.0</b>	<b>J Q</b>	<b>52</b>	<b>4.0</b>	<b>pg/L</b>
<b>Total HxCDD</b>	<b>49</b>		<b>52</b>	<b>4.7</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>53</b>		<b>52</b>	<b>15</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>170</b>		<b>52</b>	<b>15</b>	<b>pg/L</b>
<b>OCDD</b>	<b>300</b>	<b>B</b>	<b>100</b>	<b>29</b>	<b>pg/L</b>
<b>2,3,7,8-TCDF</b>	<b>2.5</b>	<b>J Q</b>	<b>10</b>	<b>1.8</b>	<b>pg/L</b>
<b>Total TCDF</b>	<b>7.2</b>		<b>10</b>	<b>1.8</b>	<b>pg/L</b>
1,2,3,7,8-PeCDF	ND		52	3.6	pg/L
2,3,4,7,8-PeCDF	ND		52	4.2	pg/L
Total PeCDF	ND		52	4.2	pg/L
1,2,3,4,7,8-HxCDF	ND		52	3.5	pg/L
1,2,3,6,7,8-HxCDF	ND		52	3.1	pg/L
2,3,4,6,7,8-HxCDF	ND		52	3.1	pg/L
1,2,3,7,8,9-HxCDF	ND		52	3.2	pg/L
Total HxCDF	ND		52	3.5	pg/L
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>8.1</b>	<b>J Q B</b>	<b>52</b>	<b>3.3</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		52	4.9	pg/L
<b>Total HpCDF</b>	<b>28</b>		<b>52</b>	<b>4.0</b>	<b>pg/L</b>
<b>OCDF</b>	<b>40</b>	<b>J B</b>	<b>100</b>	<b>7.7</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 249057

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0B240496 - 003	Work Order #....:	LV2F21AA	Matrix....:	WATER
Date Sampled....:	02/20/10	Date Received....:	02/24/10	Dilution Factor:	1.04
Prep Date....:	03/03/10	Analysis Date....:	03/06/10		
Prep Batch # ....:	0062161	Instrument ID....:	1D5		
Initial Wgt/Vol :	958.8 mL	Analyst ID....:	Sonia Ouni		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	57	25 - 164
13C-1,2,3,7,8-PeCDD	61	25 - 181
13C-1,2,3,4,7,8-HxCDD	76	32 - 141
13C-1,2,3,6,7,8-HxCDD	80	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	75	23 - 140
13C-OCDD	66	17 - 157
13C-2,3,7,8-TCDF	53	24 - 169
13C-1,2,3,7,8-PeCDF	63	24 - 185
13C-2,3,4,7,8-PeCDF	61	21 - 178
13C-1,2,3,6,7,8-HxCDF	81	26 - 123
13C-2,3,4,6,7,8-HxCDF	79	28 - 136
13C-1,2,3,7,8,9-HxCDF	75	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	81	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	70	26 - 138
13C-1,2,3,4,7,8-HxCDF	78	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	85	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0B240496

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B		0062161	
002	WATER	EPA-5 1613B		0062161	
003	WATER	EPA-5 1613B		0062161	

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0C030000 - 161B	<b>Work Order #....:</b>	LV8NT1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/20/10	<b>Date Received....:</b>	02/24/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	03/03/10	<b>Analysis Date....:</b>	03/08/10		
<b>Prep Batch # ....:</b>	0062161	<b>Instrument ID....:</b>	1D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	10	2.8	pg/L
Total TCDD	ND	10	2.8	pg/L
1,2,3,7,8-PeCDD	ND	50	5.8	pg/L
<b>Total PeCDD</b>	<b>11</b>	<b>50</b>	<b>5.8</b>	<b>pg/L</b>
1,2,3,4,7,8-HxCDD	ND	50	4.9	pg/L
1,2,3,6,7,8-HxCDD	ND	50	4.7	pg/L
1,2,3,7,8,9-HxCDD	ND	50	3.8	pg/L
Total HxCDD	ND	50	4.9	pg/L
1,2,3,4,6,7,8-HpCDD	ND	50	13	pg/L
<b>Total HpCDD</b>	<b>16</b>	<b>50</b>	<b>13</b>	<b>pg/L</b>
<b>OCDD</b>	<b>90</b>	<b>J</b>	<b>100</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND	10	1.5	pg/L
Total TCDF	ND	10	1.5	pg/L
1,2,3,7,8-PeCDF	ND	50	3.4	pg/L
2,3,4,7,8-PeCDF	ND	50	3.7	pg/L
Total PeCDF	ND	50	3.7	pg/L
1,2,3,4,7,8-HxCDF	ND	50	3.2	pg/L
1,2,3,6,7,8-HxCDF	ND	50	2.8	pg/L
2,3,4,6,7,8-HxCDF	ND	50	2.8	pg/L
1,2,3,7,8,9-HxCDF	ND	50	3.2	pg/L
Total HxCDF	ND	50	3.2	pg/L
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>5.1</b>	<b>J Q</b>	<b>50</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		50	pg/L
Total HpCDF	ND		50	pg/L
<b>OCDF</b>	<b>18</b>	<b>J</b>	<b>100</b>	<b>pg/L</b>



**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

**Lot - Sample #....:** G0C030000 - 161B  
**Date Sampled....:** 02/20/10  
**Prep Date....:** 03/03/10  
**Prep Batch # ....:** 0062161  
**Initial Wgt/Vol :** 1000 mL

**Work Order #....:** LV8NT1AA  
**Date Received....:** 02/24/10  
**Analysis Date....:** 03/08/10  
**Instrument ID....:** 1D5  
**Analyst ID....:** Sonia Ouni

**Matrix....:** WATER  
**Dilution Factor:** 1

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	53	25 - 164
13C-1,2,3,7,8-PeCDD	56	25 - 181
13C-1,2,3,4,7,8-HxCDD	74	32 - 141
13C-1,2,3,6,7,8-HxCDD	86	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	73	23 - 140
13C-OCDD	68	17 - 157
13C-2,3,7,8-TCDF	53	24 - 169
13C-1,2,3,7,8-PeCDF	58	24 - 185
13C-2,3,4,7,8-PeCDF	63	21 - 178
13C-1,2,3,6,7,8-HxCDF	82	26 - 123
13C-2,3,4,6,7,8-HxCDF	81	28 - 136
13C-1,2,3,7,8,9-HxCDF	70	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	82	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	72	26 - 138
13C-1,2,3,4,7,8-HxCDF	74	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	88	35 - 197

**QUALIFIERS**

- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

<b>Client Lot # ...:</b> G0B240496	<b>Work Order # ...:</b> LV8NT1AC-LCS	<b>Matrix .....</b> : WATER
<b>LCS Lot-Sample# :</b> G0C030000 - 161		
<b>Prep Date .....</b> : 03/03/10	<b>Analysis Date ...:</b> 03/08/10	
<b>Prep Batch # ...:</b> 0062161		
<b>Dilution Factor :</b> 1		
<b>Analyst ID.....:</b> Sonia Ouni	<b>Instrument ID.:</b> 1D5	<b>Method.....:</b> EPA-5 1613B
<b>Initial Wgt/Vol:</b> 1000 mL		

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	200	201	pg/L	101	(67 - 158)
1,2,3,7,8-PeCDD	1000	1070	pg/L	107	(70 - 142)
1,2,3,4,7,8-HxCDD	1000	1050	pg/L	105	(70 - 164)
1,2,3,6,7,8-HxCDD	1000	997	pg/L	100	(76 - 134)
1,2,3,7,8,9-HxCDD	1000	909	pg/L	91	(64 - 162)
1,2,3,4,6,7,8-HpCDD	1000	1060	pg/L	106	(70 - 140)
OCDD	2000	2130	pg/L	107	(78 - 144)
2,3,7,8-TCDF	200	210	pg/L	105	(75 - 158)
1,2,3,7,8-PeCDF	1000	1070	pg/L	107	(80 - 134)
2,3,4,7,8-PeCDF	1000	1080	pg/L	108	(68 - 160)
1,2,3,4,7,8-HxCDF	1000	1060	pg/L	106	(72 - 134)
1,2,3,6,7,8-HxCDF	1000	1040	pg/L	104	(84 - 130)
2,3,4,6,7,8-HxCDF	1000	1020	pg/L	102	(70 - 156)
1,2,3,7,8,9-HxCDF	1000	1080	pg/L	108	(78 - 130)
1,2,3,4,6,7,8-HpCDF	1000	1050	pg/L	105	(82 - 122)
1,2,3,4,7,8,9-HpCDF	1000	1060	pg/L	106	(78 - 138)
OCDF	2000	2030	pg/L	101	(63 - 170)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	58	(20 - 175)
13C-1,2,3,7,8-PeCDD	65	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	77	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	95	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	77	(26 - 166)
13C-OCDD	73	(13 - 199)
13C-2,3,7,8-TCDF	58	(22 - 152)
13C-1,2,3,7,8-PeCDF	65	(21 - 192)
13C-2,3,4,7,8-PeCDF	69	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	90	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	86	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	81	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	86	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	74	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	85	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	86	(31 - 191)

**LABORATORY CONTROL SAMPLE DATA REPORT**

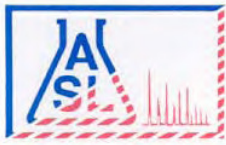
**Trace Level Organic Compounds**

**Notes:**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

LARWQCB  
320 W. 4th St.  
Los Angeles, CA 90013-

Telephone (213) 576-6724  
Attn Cassandra D. Owens

Number of Pages 5  
Date Received 03/01/2010  
Date Reported 03/11/2010

Job Number	Ordered	Client
44970	03/04/2010	LARWQB

Project ID: BOEING SSFL ISRA  
Project Name:  
Site: 5800 Woolsey Canyon Road  
Canoga Park, CA 91304

Enclosed are the results of analyses on 11 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar  
Laboratory Manager

Rojert G. Araghi  
Laboratory Director

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- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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 Environmental Testing Services  
 2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# **N9 52585** GLOBAL ID \_\_\_\_\_ E REPORT:  PDF  EDF  EDD ASL JOB# **44990**

Company: **LA Regional Water Quality Control Board** Report To: **CASSANDRA D. OLIVAS** ANALYSIS REQUESTED

Address: **320 W 4th St #200** Project Name: **DRUM SEEL ISRA** Address: **320 W. 4th St. LA, CA 90013** Site Address: **7800 Woodbury Canyon Rd. Carson, CA 91304** Invoice To: **ASL LENOVO 8710 Elk - 8395** Address: **2520 San Fernando Rd. LA 90065** Telephone: **313-576-6750** Fax: **313-576-6750** Project ID: **Carson Park, LA 91304** P.O.#: **Carson Park LA 91304** Special Instruction: **Project ID?**

E-mail: **COWRUS@waterboards.ca.gov** Project Manager: **Lori Blair / Arlene Nox**

LAB USE ONLY	SAMPLE DESCRIPTION				Containers(s)		Matrix	Preservation	ANALYSIS REQUESTED										
	LAB ID	Sample ID	Date	Time	#	Type			Cadmium, total by 210.2	Copper, total by 200.8	Lead, total by 210.8	Manganese, total by 245.1	Disin by 1613	Total Suspended Solids by 254					
1	249577	N2SWR07C15003-0W6E2	7-29-10	10:41	2	700ml 1.0 liter	W	HN03											
2	249573	N2SWR07C25604-0W6E2	7-29-10	11:02	3	700ml 1.0 liter	W	HN03											
3	249574	125W07C0035004-0W6E2	7-29-10	12:14	3	700ml 1.0 liter	W	HN03											
4	249575	125W07C12504-0W6E2	7-29-10	12:53	3	700ml 1.0 liter	W	HN03											
5	249576	EXPOSURE STATION	7-29-10	13:21	2	700ml 1.0 liter	W	HN03											
6	249577	ALSO C25004	7-29-10	08:43	2	700ml 1.0 liter	W	HN03											
7	249578	ALSO C25004	7-29-10	08:42	2	700ml 1.0 liter	W	HN03											
8	249579	EXPOSURE STATION	7-29-10	08:00	2	700ml 1.0 liter	W	HN03											

Collected By: **Carla** Date: **7/29/10** Time: **14:02** Relinquished By: **Carla** Date: **7/29/10** Time: **14:02**  
 Relinquished By: **Carla** Date: **7/29/10** Time: **13:00** Received For Laboratory: **Tarek Chini** Date: **7/29/10** Time: **13:00**  
 Received By: **Patricia** Date: **7/29/10** Time: **13:00** Condition of Sample: **Good**



AMERICAN SCIENTIFIC LABORATORIES, LLC  
 Environmental Testing Services  
 2520 N. San Fernando Road, La, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# N0 **52586** GLOBAL ID \_\_\_\_\_ E REPORT:  PDF  EDF  EDD ASL JOB# 44990

Company: L. A Regional Water Quality Control Board  
 Address: 320 W. 47th St, Ste 200 Project Name: Recovery Eff. 1529  
 Site Address: 5800 Woodley Ave. 23  
 L. A. C.A. 90013 Project ID: CAVOGA PARK, CA. 9304  
 Telephone: 213 576 6750 Project Manager: Eric Blantz / Art Lopez  
 Fax: 213 576 6650 P.O.#: \_\_\_\_\_  
 Special Instruction: \_\_\_\_\_

LAB USE ONLY	SAMPLE DESCRIPTION			Container(s)		Matrix	Preservation	ANALYSIS REQUESTED												
	Lab ID	Sample ID	Date	Time	#			Type	Cadmium, total by 200.8	Copper, total by 200.8	Lead, total by 200.8	Mercury, total by 245.1	Vanadium by 161.3	Iron, suspended solids by 254.0						
9	249580	HAWAIIAN SOUTHERN WATERS	1-12-10	08:12	2	poly	W	HNO <sub>3</sub>	X	X	X	X								
10	249581	HAWAIIAN SOUTHERN WATERS	1-22-10	09:14	2	poly	W	HNO <sub>3</sub>	X	X		X								
11	249582	HAWAIIAN SOUTHERN WATERS	2-23-10	09:26	2	poly	W	HNO <sub>3</sub>	X	X		X								

Collected By: Michael Williams Date 1-21-10 Time 1402  
 Relinquished By: Am Date 3-1-10 Time 1500  
 Received By: Paula Date 1/22/2010 Time 1300  
 Condition of Sample: Test Chain Date 3.1.10 Time 13:55  
 Normal  Rush

C H A I N O F I N T E R F A C E



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*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 2

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44970	03/01/2010	LARWQB

Method: 245.1, Mercury (CVAA)

QC Batch No: 030510-4

Our Lab I.D.		249576	249579	249580		
Client Sample I.D.		LXSW002S0 03 - RWQCB	A1SW004S00 5 - RWQCB	A1SW005S00 4 - RWQCB		
Date Sampled		02/27/2010	02/27/2010	02/27/2010		
Date Prepared		03/05/2010	03/05/2010	03/05/2010		
Preparation Method						
Date Analyzed		03/05/2010	03/05/2010	03/05/2010		
Matrix		Water	Water	Water		
Units		mg/L	mg/L	mg/L		
Dilution Factor		1	1	1		
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>		
<b>AA Metals</b>						
Mercury	0.0005	ND	ND	ND		

**QUALITY CONTROL REPORT**

QC Batch No: 030510-4

Analytes	LCS % REC	LCS/LCSD % Limit							
<b>AA Metals</b>									
Mercury	107	80-120							



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**ANALYTICAL RESULTS**

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LARWQCB  
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 Los Angeles, CA 90013-

**Site**

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 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 3

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44970	03/01/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

QC Batch No: 030810-1

Our Lab I.D.		249572	249573	249574	249575	249576
Client Sample I.D.		A2SW006S00 3 - RWQCB	A2SW002S00 4 - RWQCB	H2SW003S00 4 - RWQCB	H2SW007S00 4 - RWQCB	LXSW002S00 3 - RWQCB
Date Sampled		02/27/2010	02/27/2010	02/27/2010	02/27/2010	02/27/2010
Date Prepared		03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Preparation Method						
Date Analyzed		03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	ND	ND	ND	479	19.0

**QUALITY CONTROL REPORT**

QC Batch No: 030810-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
<b>Conventionals</b>									
Solids, Total Suspended (TSS)	108	101	6.7	80-120	20				





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**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: **4**

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44970	03/01/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

**QC Batch No: 030810-1**

Our Lab I.D.		249577	249578	249579	249580	249581
Client Sample I.D.		A1SW002S00 4 - RWQCB	A1SW003S00 3 - RWQCB	A1SW004S00 5 - RWQCB	A1SW005S00 4 - RWQCB	A1SW006S00 4 - RWQCB
Date Sampled		02/27/2010	02/27/2010	02/27/2010	02/27/2010	02/27/2010
Date Prepared		03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Preparation Method						
Date Analyzed		03/08/2010	03/08/2010	03/08/2010	03/08/2010	03/08/2010
Matrix		Water	Water	Water	Water	Water
Units		mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor		1	1	1	1	1
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	ND	ND	131	73.0	ND

**QUALITY CONTROL REPORT**

**QC Batch No: 030810-1**

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
<b>Conventionals</b>									
Solids, Total Suspended (TSS)	108	101	6.7	80-120	20				



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
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2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

**Site**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

5800 Woolsey Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: **5**

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44970	03/01/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

QC Batch No: 030810-1

Our Lab I.D.		249582			
Client Sample I.D.		A1SW007S00 3 - RWQCB			
Date Sampled		02/27/2010			
Date Prepared		03/08/2010			
Preparation Method					
Date Analyzed		03/08/2010			
Matrix		Water			
Units		mg/L			
Dilution Factor		1			
Analytes	PQL	Results			
Conventionals					
Solids, Total Suspended (TSS)	10.0	ND			

**QUALITY CONTROL REPORT**

QC Batch No: 030810-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
Conventionals									
Solids, Total Suspended (TSS)	108	101	6.7	80-120	20				



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ANALYTICAL RESULTS

**Ordered By**

LARWQCB  
320 W. 4th St.  
Los Angeles, CA 90013-

**Site**

5800 Woolsey Canyon Road  
Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 8

Project ID: BOEING SSFL ISRA

ASL Job Number	Submitted	Client
44970	03/01/2010	LARWQB

Method: ZUB-OUT,

Our Lab I.D.		249582				
Client Sample I.D.		A1SW007S00 3 - RWQCB				
Date Sampled		02/27/2010				
Date Prepared		/ /				
Preparation Method						
Date Analyzed		/ /				
Matrix		Water				
Units		Hold				
Dilution Factor		1				
Analytes	PQL	Results				
Hold	1.00	ND				



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# CHAIN OF CUSTODY RECORD

0005025

Page 1 of 1

CLIENT NAME:

American Scientific Labs

PROJECT: 44920

PHONE #: 393 223 9900

FAX #: 393 203 9500

E MAIL: molky @ asllab.com

PO #:

ADDRESS: 2520 N San Fernando Road

L.A. CA 90065

PROJECT MANAGER: MOLLY BRAY

SAMPLER:

ID# DATE SAMPLED TIME SAMPLED SMPL TYPE SAMPLE IDENTIFICATION/SITE LOCATION

# OF CONT.

ANALYSIS REQUESTED

SPECIAL HANDLING

COMMENTS

2-29-10

W

249592

14 125m plastic

X

Please send PDF with

249593

249594

X

EDD (Excel Format)

249595

249596

X

249597

249598

X

249599

249580

X

↓

↓

↓

RELINQUISHED BY:

SIGNATURE

PRINT NAME

DATE/TIME

RECEIVED BY:

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

SAMPLE CONDITION: Actual Temperature: 3.0C

Received On Ice Preserved Evidence Seals Present Container Attacked Preserved at Lab

Y N Y N Y N Y N

SAMPLE TYPE CODE:

AQ = Aqueous NA = Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix

Charges Will Apply For Weekends And Holidays

- Same Day Rush 150%
- 24 Hour Rush 100%
- 48 - 72 Hour Rush 75%
- 4 - 5 Day Rush 30%
- Rush Extraction 50%
- 10 - 15 Business Days
- QA/QC Package

DISTRIBUTION:

WHITE & CANARY - For Laboratory

PINK - For Client



### Certificate of Analysis

**Report Date:** Tuesday, March 23, 2010  
**Received Date:** Friday, March 5, 2010  
**Received Time:** 1:25 pm  
**Turnaround Time:** Normal

**Client:** American Scientific Laboratories  
 2520 N. San Fernando Road  
 Los Angeles, CA 90065-1324

**Phones:** (323) 223-9700  
**Fax:** (323) 223-9500

**Attn:** Molky Brar  
**Project:** 44970

**P.O. #:**

Lab Sample ID: 0C05025-01      Sample ID: 249572      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	0.22	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:45	W0C0424	

Lab Sample ID: 0C05025-02      Sample ID: 249573      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	0.49	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:50	W0C0424	

Lab Sample ID: 0C05025-03      Sample ID: 249574      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	1.6	0.022	0.50	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:54	W0C0424	
Lead, Total	0.36	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:54	W0C0424	

Lab Sample ID: 0C05025-04      Sample ID: 249575      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	3.8	0.022	0.50	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:58	W0C0424	
Lead, Total	3.2	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 19:58	W0C0424	

Lab Sample ID: 0C05025-05      Sample ID: 249576      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.013	0.10	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:03	W0C0424	
Copper, Total	1.7	0.022	0.50	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:03	W0C0424	
Lead, Total	0.47	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:03	W0C0424	

Lab Sample ID: 0C05025-06      Sample ID: 249577      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
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**Certificate of Analysis**

Lab Sample ID: 0C05025-06      Sample ID: 249577      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	0.52	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:07	W0C0424	

Lab Sample ID: 0C05025-07      Sample ID: 249578      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	2.4	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:12	W0C0424	

Lab Sample ID: 0C05025-08      Sample ID: 249579      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	1.1	0.013	0.10	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:16	W0C0424	
Copper, Total	7.7	0.022	0.50	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:16	W0C0424	
Lead, Total	6.2	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:16	W0C0424	

Lab Sample ID: 0C05025-09      Sample ID: 249580      Matrix: Water  
 Sampled by: Client      Sampled: 02/27/10 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	0.36	0.013	0.10	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:34	W0C0424	
Copper, Total	5.3	0.022	0.50	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:34	W0C0424	
Lead, Total	4.0	0.017	0.20	ug/l	1x1	EPA 200.8	3/11/10	3/12/10 20:34	W0C0424	



### Certificate of Analysis

### Quality Control Section

#### Metals by EPA 200 Series Methods - Quality Control

**Batch W0C0424 - EPA 200.8**

<b>Blank (W0C0424-BLK1)</b>					<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/12/10 18:56</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		ND		ug/l					
Lead, Total		ND		ug/l					
Cadmium, Total		ND		ug/l					

<b>LCS (W0C0424-BS1)</b>					<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/12/10 19:01</b>		
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		51.3		ug/l	49.9	103	85-115		
Lead, Total		49.2		ug/l	49.9	99	85-115		
Cadmium, Total		52.0		ug/l	49.9	104	85-115		

<b>Matrix Spike (W0C0424-MS1)</b>					<b>Source: 0C03033-02</b>		<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/12/10 21:00</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total	0.0260	50.4		ug/l	49.9	101	70-130			
Lead, Total	ND	50.0		ug/l	49.9	100	70-130			
Cadmium, Total	ND	52.5		ug/l	49.9	105	70-130			

<b>Matrix Spike (W0C0424-MS2)</b>					<b>Source: 0C03033-01</b>		<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/15/10 19:06</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total	0.614	51.1		ug/l	49.9	101	70-130			
Lead, Total	ND	58.6		ug/l	49.9	117	70-130			
Cadmium, Total	ND	42.6		ug/l	49.9	85	70-130			

<b>Matrix Spike Dup (W0C0424-MSD1)</b>					<b>Source: 0C03033-02</b>		<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/12/10 21:05</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total	0.0260	50.3		ug/l	49.9	101	70-130	0.2	30	
Lead, Total	ND	50.1		ug/l	49.9	100	70-130	0.3	30	
Cadmium, Total	ND	51.2		ug/l	49.9	103	70-130	2	30	

<b>Matrix Spike Dup (W0C0424-MSD2)</b>					<b>Source: 0C03033-01</b>		<b>Prepared: 03/11/10</b>		<b>Analyzed: 03/15/10 19:11</b>	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit	
Copper, Total	0.614	50.1		ug/l	49.9	99	70-130	2	30	
Lead, Total	ND	58.8		ug/l	49.9	118	70-130	0.3	30	
Cadmium, Total	ND	43.7		ug/l	49.9	88	70-130	3	30	

### Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002




---

**Authorized Signature**  
 Contact: Kim G Tu (Project Manager)



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for  $\geq 0.5$  and off for  $< 0.5$
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity



March 24, 2010

**TestAmerica Project Number: G0C050436**

PO/Contract:

Molky Brar  
American Scientific Lab  
2520 N. San Fernando Rd  
Los Angeles, CA 90065

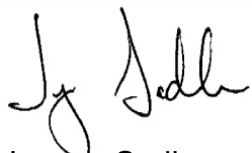
Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on March 5, 2010. These samples are associated with your 44970 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,



Jeremy Sadler  
Project Manager

## Table of Contents

# TestAmerica West Sacramento Project Number G0C050436

Case Narrative

Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

WATER, 1613B, Dioxins/Furans, HRGC/HRMS

Samples: 1, 2, 3, 4, 5, 6, 7

Sample Data Sheets

Method Blank Report

Laboratory QC Reports

## Case Narrative

### TestAmerica West Sacramento Project Number G0C050436

#### **WATER, 1613B, Dioxins/Furans, HRGC/HRMS**

Samples: 1, 2, 3, 4, 5, 6, 7

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

**TestAmerica Laboratories West Sacramento Certifications/Accreditations**

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G0C050436

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LWA88	1	249572	2/27/2010	3/5/2010 08:55 AM
LWA9A	2	249573	2/27/2010	3/5/2010 08:55 AM
LWA9C	3	249574	2/27/2010	3/5/2010 08:55 AM
LWA9D	4	249575	2/27/2010	3/5/2010 08:55 AM
LWA9E	5	249576	2/27/2010	3/5/2010 08:55 AM
LWA9F	6	249581	2/27/2010	3/5/2010 08:55 AM
LWA9G	7	249582	2/27/2010	3/5/2010 08:55 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



411111 THE LEADER IN ENVIRONMENTAL TESTING

CLIENT American Scientific Lab PM JS LOG # 63555

LOT# (QUANTIMS ID) GDC050436 QUOTE# 35699 LOCATION W16C

DATE RECEIVED 3/5/10 TIME RECEIVED 0730 Checked (✓)

DELIVERED BY  FEDEX  ON TRAC  CLIENT

GOLDENSTATE  UPS  GO-GETTERS  OTHER

TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  TAL  CLIENT  N/A

COC #(S) NA

TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 4.3, 3 Average 3 Corrected Average 3

**LABORATORY THERMOMETER ID:**

IR UNIT: #4  #5  OTHER \_\_\_\_\_

CV 3/5/10  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH  N/A  
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C – 6 °C)<sup>\*1</sup>  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

CV 3/5/10  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot

ID:

G0C050436

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	/	/	/	/	/	/	/													
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's



**WATER, 1613B,  
Dioxins/Furans,  
HRGC/HRMS**

American Scientific Laboratories LLC

Sample ID: 249572

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 001	Work Order #....:	LWA881AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.95
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1052.9 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.5	1.0	pg/L
Total TCDD	ND		9.5	1.0	pg/L
1,2,3,7,8-PeCDD	ND		48	1.3	pg/L
Total PeCDD	ND		48	1.5	pg/L
1,2,3,4,7,8-HxCDD	ND		48	0.91	pg/L
1,2,3,6,7,8-HxCDD	ND		48	0.85	pg/L
1,2,3,7,8,9-HxCDD	ND		48	0.73	pg/L
Total HxCDD	ND		48	0.91	pg/L
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>2.5</b>	<b>J Q</b>	<b>48</b>	<b>1.6</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>6.6</b>		<b>48</b>	<b>1.6</b>	<b>pg/L</b>
<b>OCDD</b>	<b>32</b>	<b>J B</b>	<b>95</b>	<b>1.5</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.5	2.7	pg/L
Total TCDF	ND		9.5	2.7	pg/L
1,2,3,7,8-PeCDF	ND		48	0.95	pg/L
2,3,4,7,8-PeCDF	ND		48	1.1	pg/L
Total PeCDF	ND		48	1.2	pg/L
<b>1,2,3,4,7,8-HxCDF</b>	<b>0.60</b>	<b>J Q</b>	<b>48</b>	<b>0.54</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.70</b>	<b>J Q</b>	<b>48</b>	<b>0.51</b>	<b>pg/L</b>
2,3,4,6,7,8-HxCDF	ND		48	0.45	pg/L
<b>1,2,3,7,8,9-HxCDF</b>	<b>0.69</b>	<b>J Q</b>	<b>48</b>	<b>0.60</b>	<b>pg/L</b>
<b>Total HxCDF</b>	<b>2.0</b>		<b>48</b>	<b>0.52</b>	<b>pg/L</b>
1,2,3,4,6,7,8-HpCDF	ND		48	0.95	pg/L
1,2,3,4,7,8,9-HpCDF	ND		48	1.6	pg/L
Total HpCDF	ND		48	1.6	pg/L
<b>OCDF</b>	<b>3.1</b>	<b>J</b>	<b>95</b>	<b>1.2</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 249572

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 001	Work Order #....:	LWA881AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.95
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1052.9 mL	Analyst ID....:	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	72	25 - 164
13C-1,2,3,7,8-PeCDD	75	25 - 181
13C-1,2,3,4,7,8-HxCDD	87	32 - 141
13C-1,2,3,6,7,8-HxCDD	90	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	97	23 - 140
13C-OCDD	94	17 - 157
13C-2,3,7,8-TCDF	79	24 - 169
13C-1,2,3,7,8-PeCDF	79	24 - 185
13C-2,3,4,7,8-PeCDF	76	21 - 178
13C-1,2,3,6,7,8-HxCDF	84	26 - 123
13C-2,3,4,6,7,8-HxCDF	90	28 - 136
13C-1,2,3,7,8,9-HxCDF	82	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	96	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	78	26 - 138
13C-1,2,3,4,7,8-HxCDF	83	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	97	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249573

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 002	Work Order #....:	LWA9A1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.99
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1007.7 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	3.3	J	9.9	0.84	pg/L
Total TCDD	3.3		9.9	0.84	pg/L
1,2,3,7,8-PeCDD	14	J	50	1.7	pg/L
Total PeCDD	14		50	1.7	pg/L
1,2,3,4,7,8-HxCDD	18	J	50	0.58	pg/L
1,2,3,6,7,8-HxCDD	15	J	50	0.54	pg/L
1,2,3,7,8,9-HxCDD	14	J	50	0.47	pg/L
Total HxCDD	47		50	0.53	pg/L
1,2,3,4,6,7,8-HpCDD	23	J	50	1.4	pg/L
Total HpCDD	33		50	1.4	pg/L
OCDD	110	B	99	1.5	pg/L
2,3,7,8-TCDF	ND		9.9	2.7	pg/L
Total TCDF	ND		9.9	2.7	pg/L
1,2,3,7,8-PeCDF	11	J	50	0.82	pg/L
2,3,4,7,8-PeCDF	14	J	50	0.90	pg/L
Total PeCDF	24		50	0.86	pg/L
1,2,3,4,7,8-HxCDF	16	J	50	0.62	pg/L
1,2,3,6,7,8-HxCDF	14	J	50	0.61	pg/L
2,3,4,6,7,8-HxCDF	15	J	50	0.54	pg/L
1,2,3,7,8,9-HxCDF	15	J	50	0.71	pg/L
Total HxCDF	60		50	0.62	pg/L
1,2,3,4,6,7,8-HpCDF	16	J Q	50	0.87	pg/L
1,2,3,4,7,8,9-HpCDF	20	J	50	1.5	pg/L
Total HpCDF	39		50	1.1	pg/L
OCDF	38	J	99	1.2	pg/L

American Scientific Laboratories LLC

Sample ID: 249573

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0C050436 - 002	<b>Work Order #....:</b>	LWA9A1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	0.99
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1007.7 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	63	25 - 164
13C-1,2,3,7,8-PeCDD	65	25 - 181
13C-1,2,3,4,7,8-HxCDD	76	32 - 141
13C-1,2,3,6,7,8-HxCDD	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	88	23 - 140
13C-OCDD	84	17 - 157
13C-2,3,7,8-TCDF	68	24 - 169
13C-1,2,3,7,8-PeCDF	65	24 - 185
13C-2,3,4,7,8-PeCDF	66	21 - 178
13C-1,2,3,6,7,8-HxCDF	73	26 - 123
13C-2,3,4,6,7,8-HxCDF	76	28 - 136
13C-1,2,3,7,8,9-HxCDF	71	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	88	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	70	26 - 138
13C-1,2,3,4,7,8-HxCDF	76	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	96	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249574

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 003	Work Order #....:	LWA9C1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.97
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1027.6 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.7	1.2	pg/L
Total TCDD	ND		9.7	1.2	pg/L
1,2,3,7,8-PeCDD	ND		49	2.0	pg/L
Total PeCDD	ND		49	2.9	pg/L
1,2,3,4,7,8-HxCDD	ND		49	1.3	pg/L
1,2,3,6,7,8-HxCDD	ND		49	1.2	pg/L
1,2,3,7,8,9-HxCDD	ND		49	1.0	pg/L
Total HxCDD	ND		49	1.3	pg/L
1,2,3,4,6,7,8-HpCDD	ND		49	2.0	pg/L
Total HpCDD	ND		49	2.0	pg/L
<b>OCDD</b>	<b>15</b>	<b>J B</b>	<b>97</b>	<b>1.9</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.7	2.9	pg/L
Total TCDF	ND		9.7	2.9	pg/L
1,2,3,7,8-PeCDF	ND		49	1.7	pg/L
2,3,4,7,8-PeCDF	ND		49	1.1	pg/L
Total PeCDF	ND		49	1.7	pg/L
<b>1,2,3,4,7,8-HxCDF</b>	<b>1.0</b>	<b>J Q</b>	<b>49</b>	<b>0.46</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>1.3</b>	<b>J</b>	<b>49</b>	<b>0.44</b>	<b>pg/L</b>
<b>2,3,4,6,7,8-HxCDF</b>	<b>1.3</b>	<b>J</b>	<b>49</b>	<b>0.39</b>	<b>pg/L</b>
<b>1,2,3,7,8,9-HxCDF</b>	<b>1.2</b>	<b>J Q</b>	<b>49</b>	<b>0.51</b>	<b>pg/L</b>
<b>Total HxCDF</b>	<b>4.9</b>		<b>49</b>	<b>0.45</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>1.1</b>	<b>J Q</b>	<b>49</b>	<b>0.87</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		49	1.4	pg/L
<b>Total HpCDF</b>	<b>2.0</b>		<b>49</b>	<b>1.1</b>	<b>pg/L</b>
OCDF	ND		97	1.8	pg/L

American Scientific Laboratories LLC

Sample ID: 249574

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0C050436 - 003	<b>Work Order #....:</b>	LWA9C1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	0.97
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1027.6 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	48	25 - 164
13C-1,2,3,7,8-PeCDD	48	25 - 181
13C-1,2,3,4,7,8-HxCDD	54	32 - 141
13C-1,2,3,6,7,8-HxCDD	54	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	64	23 - 140
13C-OCDD	61	17 - 157
13C-2,3,7,8-TCDF	53	24 - 169
13C-1,2,3,7,8-PeCDF	48	24 - 185
13C-2,3,4,7,8-PeCDF	48	21 - 178
13C-1,2,3,6,7,8-HxCDF	53	26 - 123
13C-2,3,4,6,7,8-HxCDF	55	28 - 136
13C-1,2,3,7,8,9-HxCDF	53	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	63	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	53	26 - 138
13C-1,2,3,4,7,8-HxCDF	51	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	88	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249575

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 004	Work Order #....:	LWA9D1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	1
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1003.6 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	2.9	J Q	10	1.2	pg/L
Total TCDD	2.9		10	1.2	pg/L
1,2,3,7,8-PeCDD	19	J	50	1.7	pg/L
Total PeCDD	19		50	1.7	pg/L
1,2,3,4,7,8-HxCDD	26	J	50	0.86	pg/L
1,2,3,6,7,8-HxCDD	25	J	50	0.81	pg/L
1,2,3,7,8,9-HxCDD	26	J	50	0.69	pg/L
Total HxCDD	77		50	0.78	pg/L
1,2,3,4,6,7,8-HpCDD	40	J	50	1.5	pg/L
Total HpCDD	54		50	1.5	pg/L
OCDD	180	B	100	1.5	pg/L
2,3,7,8-TCDF	ND		10	2.9	pg/L
Total TCDF	ND		10	2.9	pg/L
1,2,3,7,8-PeCDF	14	J	50	1.3	pg/L
2,3,4,7,8-PeCDF	20	J	50	1.5	pg/L
Total PeCDF	34		50	1.4	pg/L
1,2,3,4,7,8-HxCDF	23	J	50	0.64	pg/L
1,2,3,6,7,8-HxCDF	23	J	50	0.62	pg/L
2,3,4,6,7,8-HxCDF	27	J	50	0.53	pg/L
1,2,3,7,8,9-HxCDF	27	J	50	0.70	pg/L
Total HxCDF	100		50	0.62	pg/L
1,2,3,4,6,7,8-HpCDF	35	J	50	0.85	pg/L
1,2,3,4,7,8,9-HpCDF	41	J	50	1.4	pg/L
Total HpCDF	80		50	1.1	pg/L
OCDF	78	J	100	1.2	pg/L



American Scientific Laboratories LLC

Sample ID: 249575

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0C050436 - 004	<b>Work Order #....:</b>	LWA9D1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1003.6 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	54	25 - 164
13C-1,2,3,7,8-PeCDD	58	25 - 181
13C-1,2,3,4,7,8-HxCDD	68	32 - 141
13C-1,2,3,6,7,8-HxCDD	66	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	80	23 - 140
13C-OCDD	79	17 - 157
13C-2,3,7,8-TCDF	60	24 - 169
13C-1,2,3,7,8-PeCDF	59	24 - 185
13C-2,3,4,7,8-PeCDF	58	21 - 178
13C-1,2,3,6,7,8-HxCDF	64	26 - 123
13C-2,3,4,6,7,8-HxCDF	67	28 - 136
13C-1,2,3,7,8,9-HxCDF	65	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	78	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	64	26 - 138
13C-1,2,3,4,7,8-HxCDF	65	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	98	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249576

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 005	Work Order #....:	LWA9E1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.97
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1031.2 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.7	0.81	pg/L
Total TCDD	ND		9.7	0.81	pg/L
1,2,3,7,8-PeCDD	ND		49	1.3	pg/L
Total PeCDD	ND		49	1.7	pg/L
1,2,3,4,7,8-HxCDD	ND		49	0.76	pg/L
1,2,3,6,7,8-HxCDD	ND		49	0.69	pg/L
1,2,3,7,8,9-HxCDD	ND		49	0.60	pg/L
Total HxCDD	ND		49	0.76	pg/L
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>2.0</b>	<b>J Q</b>	<b>49</b>	<b>0.81</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>4.1</b>		<b>49</b>	<b>0.81</b>	<b>pg/L</b>
<b>OCDD</b>	<b>17</b>	<b>J B</b>	<b>97</b>	<b>1.3</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND		9.7	2.1	pg/L
Total TCDF	ND		9.7	2.1	pg/L
1,2,3,7,8-PeCDF	ND		49	0.76	pg/L
2,3,4,7,8-PeCDF	ND		49	0.87	pg/L
Total PeCDF	ND		49	0.98	pg/L
1,2,3,4,7,8-HxCDF	ND		49	0.34	pg/L
1,2,3,6,7,8-HxCDF	ND		49	0.46	pg/L
2,3,4,6,7,8-HxCDF	ND		49	0.29	pg/L
1,2,3,7,8,9-HxCDF	ND		49	0.37	pg/L
Total HxCDF	ND		49	0.46	pg/L
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.99</b>	<b>J Q</b>	<b>49</b>	<b>0.53</b>	<b>pg/L</b>
1,2,3,4,7,8,9-HpCDF	ND		49	0.87	pg/L
<b>Total HpCDF</b>	<b>2.0</b>		<b>49</b>	<b>0.68</b>	<b>pg/L</b>
<b>OCDF</b>	<b>2.1</b>	<b>J Q</b>	<b>97</b>	<b>0.77</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 249576

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0C050436 - 005	<b>Work Order #....:</b>	LWA9E1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	0.97
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1031.2 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	66	25 - 164
13C-1,2,3,7,8-PeCDD	69	25 - 181
13C-1,2,3,4,7,8-HxCDD	85	32 - 141
13C-1,2,3,6,7,8-HxCDD	76	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	92	23 - 140
13C-OCDD	88	17 - 157
13C-2,3,7,8-TCDF	71	24 - 169
13C-1,2,3,7,8-PeCDF	69	24 - 185
13C-2,3,4,7,8-PeCDF	70	21 - 178
13C-1,2,3,6,7,8-HxCDF	76	26 - 123
13C-2,3,4,6,7,8-HxCDF	79	28 - 136
13C-1,2,3,7,8,9-HxCDF	75	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	92	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	77	26 - 138
13C-1,2,3,4,7,8-HxCDF	79	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	93	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249581

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 006	Work Order #....:	LWA9F1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.97
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1029.8 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	6.4	J	9.7	0.79	pg/L
Total TCDD	6.4		9.7	0.79	pg/L
1,2,3,7,8-PeCDD	12	J	49	1.2	pg/L
Total PeCDD	12		49	1.2	pg/L
1,2,3,4,7,8-HxCDD	9.8	J	49	1.0	pg/L
1,2,3,6,7,8-HxCDD	8.9	J	49	0.93	pg/L
1,2,3,7,8,9-HxCDD	8.9	J	49	0.80	pg/L
Total HxCDD	31		49	0.91	pg/L
1,2,3,4,6,7,8-HpCDD	21	J	49	1.5	pg/L
Total HpCDD	57		49	1.5	pg/L
OCDD	140	B	97	1.2	pg/L
2,3,7,8-TCDF	4.1	J	9.7	1.8	pg/L
Total TCDF	4.1		9.7	1.8	pg/L
1,2,3,7,8-PeCDF	12	J	49	0.98	pg/L
2,3,4,7,8-PeCDF	9.5	J	49	1.0	pg/L
Total PeCDF	21		49	0.99	pg/L
1,2,3,4,7,8-HxCDF	10	J	49	0.34	pg/L
1,2,3,6,7,8-HxCDF	9.6	J	49	0.32	pg/L
2,3,4,6,7,8-HxCDF	7.0	J	49	0.28	pg/L
1,2,3,7,8,9-HxCDF	10	J	49	0.38	pg/L
Total HxCDF	39		49	0.33	pg/L
1,2,3,4,6,7,8-HpCDF	10	J Q	49	1.2	pg/L
1,2,3,4,7,8,9-HpCDF	8.5	J	49	2.0	pg/L
Total HpCDF	27		49	1.5	pg/L
OCDF	21	J	97	1.0	pg/L

American Scientific Laboratories LLC

Sample ID: 249581

Trace Level Organic Compounds

EPA-5 1613B

<b>Lot - Sample #....:</b>	G0C050436 - 006	<b>Work Order #....:</b>	LWA9F1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	0.97
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1029.8 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	65	25 - 164
13C-1,2,3,7,8-PeCDD	66	25 - 181
13C-1,2,3,4,7,8-HxCDD	80	32 - 141
13C-1,2,3,6,7,8-HxCDD	78	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	93	23 - 140
13C-OCDD	89	17 - 157
13C-2,3,7,8-TCDF	71	24 - 169
13C-1,2,3,7,8-PeCDF	65	24 - 185
13C-2,3,4,7,8-PeCDF	68	21 - 178
13C-1,2,3,6,7,8-HxCDF	77	26 - 123
13C-2,3,4,6,7,8-HxCDF	81	28 - 136
13C-1,2,3,7,8,9-HxCDF	75	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	95	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	77	26 - 138
13C-1,2,3,4,7,8-HxCDF	77	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	99	35 - 197

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 249582

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 007	Work Order #....:	LWA9G1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.98
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1020.5 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT	REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND	9.8	0.65	pg/L
Total TCDD	ND	9.8	0.65	pg/L
1,2,3,7,8-PeCDD	ND	49	1.4	pg/L
Total PeCDD	ND	49	2.9	pg/L
1,2,3,4,7,8-HxCDD	ND	49	1.0	pg/L
<b>1,2,3,6,7,8-HxCDD</b>	<b>2.6</b> <b>J</b>	<b>49</b>	<b>0.93</b>	<b>pg/L</b>
<b>1,2,3,7,8,9-HxCDD</b>	<b>2.7</b> <b>J Q</b>	<b>49</b>	<b>0.81</b>	<b>pg/L</b>
<b>Total HxCDD</b>	<b>13</b>	<b>49</b>	<b>0.91</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>54</b>	<b>49</b>	<b>1.8</b>	<b>pg/L</b>
<b>Total HpCDD</b>	<b>110</b>	<b>49</b>	<b>1.8</b>	<b>pg/L</b>
<b>OCDD</b>	<b>450</b> <b>B</b>	<b>98</b>	<b>2.1</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND	9.8	1.7	pg/L
Total TCDF	ND	9.8	1.7	pg/L
1,2,3,7,8-PeCDF	ND	49	0.68	pg/L
2,3,4,7,8-PeCDF	ND	49	0.79	pg/L
<b>Total PeCDF</b>	<b>1.6</b>	<b>49</b>	<b>0.74</b>	<b>pg/L</b>
<b>1,2,3,4,7,8-HxCDF</b>	<b>1.6</b> <b>J Q</b>	<b>49</b>	<b>0.84</b>	<b>pg/L</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>1.6</b> <b>J Q</b>	<b>49</b>	<b>0.81</b>	<b>pg/L</b>
<b>2,3,4,6,7,8-HxCDF</b>	<b>1.8</b> <b>J</b>	<b>49</b>	<b>0.69</b>	<b>pg/L</b>
1,2,3,7,8,9-HxCDF	ND	49	0.91	pg/L
<b>Total HxCDF</b>	<b>18</b>	<b>49</b>	<b>0.81</b>	<b>pg/L</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>31</b> <b>J</b>	<b>49</b>	<b>0.91</b>	<b>pg/L</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>2.2</b> <b>J</b>	<b>49</b>	<b>1.5</b>	<b>pg/L</b>
<b>Total HpCDF</b>	<b>77</b>	<b>49</b>	<b>1.2</b>	<b>pg/L</b>
<b>OCDF</b>	<b>81</b> <b>J</b>	<b>98</b>	<b>1.2</b>	<b>pg/L</b>

American Scientific Laboratories LLC

Sample ID: 249582

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0C050436 - 007	Work Order #....:	LWA9G1AA	Matrix....:	WATER
Date Sampled....:	02/27/10	Date Received....:	03/05/10	Dilution Factor:	0.98
Prep Date....:	03/15/10	Analysis Date....:	03/20/10		
Prep Batch # ....:	0074252	Instrument ID....:	9D5		
Initial Wgt/Vol :	1020.5 mL	Analyst ID....:	Grandfield S. Virginia		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	57	25 - 164
13C-1,2,3,7,8-PeCDD	57	25 - 181
13C-1,2,3,4,7,8-HxCDD	66	32 - 141
13C-1,2,3,6,7,8-HxCDD	68	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	76	23 - 140
13C-OCDD	75	17 - 157
13C-2,3,7,8-TCDF	63	24 - 169
13C-1,2,3,7,8-PeCDF	61	24 - 185
13C-2,3,4,7,8-PeCDF	58	21 - 178
13C-1,2,3,6,7,8-HxCDF	65	26 - 123
13C-2,3,4,6,7,8-HxCDF	69	28 - 136
13C-1,2,3,7,8,9-HxCDF	65	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	77	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	64	26 - 138
13C-1,2,3,4,7,8-HxCDF	64	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	97	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0C050436

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B		0074252	
002	WATER	EPA-5 1613B		0074252	
003	WATER	EPA-5 1613B		0074252	
004	WATER	EPA-5 1613B		0074252	
005	WATER	EPA-5 1613B		0074252	
006	WATER	EPA-5 1613B		0074252	
007	WATER	EPA-5 1613B		0074252	



**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0C150000 - 252B	<b>Work Order #....:</b>	LWM3V1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	02/27/10	<b>Date Received....:</b>	03/05/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	03/15/10	<b>Analysis Date....:</b>	03/20/10		
<b>Prep Batch # ....:</b>	0074252	<b>Instrument ID....:</b>	9D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Grandfield S. Virginia		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	10	1.0	pg/L
Total TCDD	ND	10	1.0	pg/L
1,2,3,7,8-PeCDD	ND	50	1.6	pg/L
Total PeCDD	ND	50	1.6	pg/L
1,2,3,4,7,8-HxCDD	ND	50	1.2	pg/L
1,2,3,6,7,8-HxCDD	ND	50	1.1	pg/L
1,2,3,7,8,9-HxCDD	ND	50	0.95	pg/L
Total HxCDD	ND	50	1.2	pg/L
1,2,3,4,6,7,8-HpCDD	ND	50	2.2	pg/L
Total HpCDD	ND	50	2.2	pg/L
<b>OCDD</b>	<b>11</b>	<b>J</b>	<b>100</b>	<b>pg/L</b>
2,3,7,8-TCDF	ND	10	3.8	pg/L
Total TCDF	ND	10	3.8	pg/L
1,2,3,7,8-PeCDF	ND	50	0.93	pg/L
2,3,4,7,8-PeCDF	ND	50	1.0	pg/L
Total PeCDF	ND	50	1.5	pg/L
1,2,3,4,7,8-HxCDF	ND	50	0.63	pg/L
1,2,3,6,7,8-HxCDF	ND	50	0.61	pg/L
2,3,4,6,7,8-HxCDF	ND	50	0.55	pg/L
1,2,3,7,8,9-HxCDF	ND	50	0.72	pg/L
Total HxCDF	ND	50	0.72	pg/L
1,2,3,4,6,7,8-HpCDF	ND	50	1.9	pg/L
1,2,3,4,7,8,9-HpCDF	ND	50	3.1	pg/L
Total HpCDF	ND	50	3.1	pg/L
OCDF	ND	100	1.7	pg/L

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

**Lot - Sample #....:** G0C150000 - 252B  
**Date Sampled....:** 02/27/10  
**Prep Date....:** 03/15/10  
**Prep Batch # ....:** 0074252  
**Initial Wgt/Vol :** 1000 mL

**Work Order #....:** LWM3V1AA  
**Date Received....:** 03/05/10  
**Analysis Date....:** 03/20/10  
**Instrument ID....:** 9D5  
**Analyst ID....:** Grandfield S. Virginia

**Matrix....:** WATER  
**Dilution Factor:** 1

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	65	25 - 164
13C-1,2,3,7,8-PeCDD	68	25 - 181
13C-1,2,3,4,7,8-HxCDD	79	32 - 141
13C-1,2,3,6,7,8-HxCDD	77	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	90	23 - 140
13C-OCDD	88	17 - 157
13C-2,3,7,8-TCDF	71	24 - 169
13C-1,2,3,7,8-PeCDF	68	24 - 185
13C-2,3,4,7,8-PeCDF	68	21 - 178
13C-1,2,3,6,7,8-HxCDF	75	26 - 123
13C-2,3,4,6,7,8-HxCDF	76	28 - 136
13C-1,2,3,7,8,9-HxCDF	74	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	90	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	74	26 - 138
13C-1,2,3,4,7,8-HxCDF	75	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	95	35 - 197

**QUALIFIERS**

J Estimated Result.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Organic Compounds**

<b>Client Lot # ...:</b> G0C050436	<b>Work Order # ...:</b> LWM3V1AC-LCS	<b>Matrix .....</b> : WATER
<b>LCS Lot-Sample# :</b> G0C150000 - 252		
<b>Prep Date .....</b> : 03/15/10	<b>Analysis Date ...:</b> 03/20/10	
<b>Prep Batch # ...:</b> 0074252		
<b>Dilution Factor :</b> 1		
<b>Analyst ID.....:</b> Grandfield S. Virginia	<b>Instrument ID.:</b> 9D5	<b>Method.....:</b> EPA-5 1613B
<b>Initial Wgt/Vol:</b> 1000 mL		

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	200	246	pg/L	123	(67 - 158)
1,2,3,7,8-PeCDD	1000	1100	pg/L	110	(70 - 142)
1,2,3,4,7,8-HxCDD	1000	1090	pg/L	109	(70 - 164)
1,2,3,6,7,8-HxCDD	1000	1040	pg/L	104	(76 - 134)
1,2,3,7,8,9-HxCDD	1000	1010	pg/L	101	(64 - 162)
1,2,3,4,6,7,8-HpCDD	1000	1010	pg/L	101	(70 - 140)
OCDD	2000	2060	pg/L	103	(78 - 144)
2,3,7,8-TCDF	200	220	pg/L	110	(75 - 158)
1,2,3,7,8-PeCDF	1000	1140	pg/L	114	(80 - 134)
2,3,4,7,8-PeCDF	1000	1180	pg/L	118	(68 - 160)
1,2,3,4,7,8-HxCDF	1000	1140	pg/L	114	(72 - 134)
1,2,3,6,7,8-HxCDF	1000	1100	pg/L	110	(84 - 130)
2,3,4,6,7,8-HxCDF	1000	1110	pg/L	111	(70 - 156)
1,2,3,7,8,9-HxCDF	1000	1130	pg/L	113	(78 - 130)
1,2,3,4,6,7,8-HpCDF	1000	1070	pg/L	107	(82 - 122)
1,2,3,4,7,8,9-HpCDF	1000	1220	pg/L	122	(78 - 138)
OCDF	2000	2040	pg/L	102	(63 - 170)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(20 - 175)
13C-1,2,3,7,8-PeCDD	76	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	86	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	84	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	98	(26 - 166)
13C-OCDD	98	(13 - 199)
13C-2,3,7,8-TCDF	75	(22 - 152)
13C-1,2,3,7,8-PeCDF	74	(21 - 192)
13C-2,3,4,7,8-PeCDF	74	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	81	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	83	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	80	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	99	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	82	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	82	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	99	(31 - 191)

**LABORATORY CONTROL SAMPLE DATA REPORT**

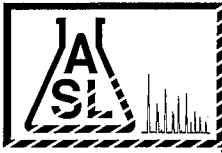
**Trace Level Organic Compounds**

**Notes:**

---

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Number of Pages** 3  
**Date Received** 04/07/2010  
**Date Reported** 04/14/2010

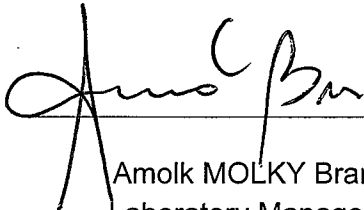
**Telephone** (213) 576-6724  
**Attn** Cassandra D. Owens

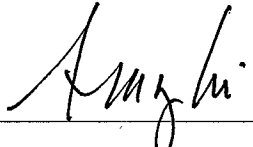
Job Number	Ordered	Client
45386	04/07/2010	LARWQB

**Project ID:** BOEING SSFL - ISRA  
**Project Name:**  
**Site:** 5800 Woosley Canyon Road  
 Canoga Park, CA 91304

RECEIVED  
 2010 APR 29 PM 2 01  
 CALIFORNIA REGIONAL WATER  
 QUALITY CONTROL BOARD  
 LOS ANGELES REGION

Enclosed are the results of analyses on 3 samples analyzed as specified on attached chain of custody.

  
 Amolk MOLKY Brar  
 Laboratory Manager

  
 Rojert G. Araghi  
 Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



AMERICAN SCIENTIFIC LABORATORIES, LLC  
 Environmental Testing Services  
 2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

C H A I N O F C U S T O D Y R E C O R D

COC# \_\_\_\_\_ GLOBAL ID \_\_\_\_\_ E REPORT:  PDF  EDF  EDD ASL JOB# **45386**

Company: <b>Los Angeles Regional Water Quality Control Board</b>		Project Name: <b>Boeing SSFL - ISRA</b>		Report To: <b>Cassandra D. Dumas</b>		ANALYSIS REQUESTED	
Address: <b>300 West 4th St #200</b>		Site Address: <b>5800 Wesley Canyon Rd.</b>		Invoice To: <b>Art Leno</b>		<input type="checkbox"/> Lead by 2008 <input type="checkbox"/> Copper by 2008 <input type="checkbox"/> Cadmium by 2008 <input type="checkbox"/> Manganese by 2008 <input type="checkbox"/> Total Suspended Solids by 2008	
Telephone: <b>213-6576-6750</b>		Project ID: <b>CA91304</b>		Address: <b>55 FL</b>			
Fax: <b>213-576-6660</b>		Project Manager: <b>Art Leno</b>		Address: <b>5800 Wesley Canyon Rd.</b>			
Special Instruction:		Project: <b>Logi Blair</b>		Address: <b>Canoga Park, CA 91304</b>			
E-mail: <b>Cowan@waterboards.ca.gov</b>		Manager: <b>Art Leno</b>		P.O.#:			
LAB USE ONLY		SAMPLE DESCRIPTION		Matrix	Preservation	Remarks	
Lab ID	Sample ID	Date	Time	#	Type	Container(s)	
251216	1A1S100015004-RW003	4-5-10	0952	3	2 poly 1 Amber	Water	
251217	1A1S100015006-RW003	4-5-10	1009	3	2 poly 1 Amber	HND3	
251218	1A1S100015007-RW003	4-5-10	1056	3	2 poly 1 Amber	HND3	
251219	1A1S100015001-RW003	4-5-10	1147	2	2 poly	HND3	
<del>4/16/10</del>							
Collected By: <i>[Signature]</i>		Date: <b>4-5-10</b>		Time: <b>1303</b>		Relinquished By: <i>[Signature]</i>	
Relinquished By: <i>[Signature]</i>		Date: <b>4-6-10</b>		Time: <b>1507</b>		Received For Laboratory: <i>[Signature]</i>	
Received By: <i>[Signature]</i>		Date: <b>4-6-10</b>		Time: <b>15:20</b>		Condition of Sample: <b>Temp. 4-5°C</b>	
TAT		Date: <b>4-7-2010</b>		Time: <b>12:30</b>		<input type="checkbox"/> Normal <input type="checkbox"/> Rush	



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woosley Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 2

Project ID: BOEING SSFL - ISRA

ASL Job Number	Submitted	Client
45386	04/07/2010	LARWQB

Method: 245.1, Mercury (CVAA)

QC Batch No: 040810-3

Our Lab I.D.		251218				
Client Sample I.D.		AI SW0004S007 -RWQCB				
Date Sampled		04/05/2010				
Date Prepared		04/08/2010				
Preparation Method						
Date Analyzed		04/08/2010				
Matrix		Water				
Units		mg/L				
Dilution Factor		1				
Analytes	PQL	Results				
<b>AA Metals</b>						
Mercury	0.0005	ND				

**QUALITY CONTROL REPORT**

QC Batch No: 040810-3

Analytes	LCS % REC	LCS/LCSD % Limit							
<b>AA Metals</b>									
Mercury	93	80-120							



**AMERICAN SCIENTIFIC LABORATORIES, LLC**  
*Environmental Testing Services*

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

**ANALYTICAL RESULTS**

**Ordered By**

LARWQCB  
 320 W. 4th St.  
 Los Angeles, CA 90013-

**Site**

5800 Woosley Canyon Road  
 Canoga Park, CA 91304

Telephone: (213)576-6724

Attn: Cassandra D. Owens

Page: 3

Project ID: BOEING SSFL - ISRA

ASL Job Number	Submitted	Client
45386	04/07/2010	LARWQB

Method: SM2540-D, Total Suspended Solids (TSS)

QC Batch No: 040810-1

Our Lab I.D.		251216	251217	251218		
Client Sample I.D.		A2 SW0001S004 -RWQCB	A2 SW0002S006 -RWQCB	A1 SW0004S007 -RWQCB		
Date Sampled		04/05/2010	04/05/2010	04/05/2010		
Date Prepared		04/08/2010	04/08/2010	04/08/2010		
Preparation Method						
Date Analyzed		04/08/2010	04/08/2010	04/08/2010		
Matrix		Water	Water	Water		
Units		mg/L	mg/L	mg/L		
Dilution Factor		1	1	1		
<b>Analytes</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>	<b>Results</b>		
<b>Conventionals</b>						
Solids, Total Suspended (TSS)	10.0	19.0	13.0	22.0		

**QUALITY CONTROL REPORT**

QC Batch No: 040810-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
<b>Conventionals</b>										
Solids, Total Suspended (TSS)	108	105	2.8	80-120	20					





### Certificate of Analysis

**Report Date:** Tuesday, April 20, 2010  
**Received Date:** Thursday, April 8, 2010  
**Received Time:** 2:00 pm  
**Turnaround Time:** Normal

**Client:** American Scientific Laboratories  
2520 N. San Fernando Road  
Los Angeles, CA 90065-1324

**Phones:** (323) 223-9700  
**Fax:** (323) 223-9500

**Attn:** Molky Brar  
**Project:** 45386

**P.O. #:**

---

Lab Sample ID: 0D08032-01      Sample ID: 251216      Matrix: Water  
Sampled by: Client      Sampled: 04/05/10 00:00

---

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total.....	1.8	0.017	0.20	ug/l	1x1	EPA 200.8	4/12/10	4/15/10 15:46	W0D0357	

---

Lab Sample ID: 0D08032-02      Sample ID: 251217      Matrix: Water  
Sampled by: Client      Sampled: 04/05/10 00:00

---

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total.....	1.4	0.017	0.20	ug/l	1x1	EPA 200.8	4/12/10	4/15/10 15:53	W0D0357	

---

Lab Sample ID: 0D08032-03      Sample ID: 251218      Matrix: Water  
Sampled by: Client      Sampled: 04/05/10 00:00

---

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total.....	0.19	0.013	0.10	ug/l	1x1	EPA 200.8	4/12/10	4/15/10 15:59	W0D0357	
Copper, Total.....	5.6	0.022	0.50	ug/l	1x1	EPA 200.8	4/12/10	4/15/10 15:59	W0D0357	
Lead, Total.....	1.1	0.017	0.20	ug/l	1x1	EPA 200.8	4/12/10	4/15/10 15:59	W0D0357	



**Certificate of Analysis**

**Quality Control Section**  
SpQualifi

**Metals by EPA 200 Series Methods - Quality Control**

**Batch W0D0357 - EPA 200.8**

**Blank (W0D0357-BLK1)**

Prepared: 04/12/10 Analyzed: 04/15/10 14:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total.....		ND		ug/l					
Lead, Total.....		ND		ug/l					
Cadmium, Total.....		ND		ug/l					

**LCS (W0D0357-BS1)**

Prepared: 04/12/10 Analyzed: 04/15/10 14:02

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total.....		53.9		ug/l	50.0	108	85-115		
Lead, Total.....		48.2		ug/l	50.0	97	85-115		
Cadmium, Total.....		49.6		ug/l	50.0	99	85-115		

**Matrix Spike (W0D0357-MS1)**

Source: 0D09041-01

Prepared: 04/12/10 Analyzed: 04/15/10 16:27

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total.....	0.160	45.0		ug/l	50.0	90	70-130		
Lead, Total.....	0.0800	49.7		ug/l	50.0	99	70-130		
Cadmium, Total.....	ND	48.6		ug/l	50.0	97	70-130		

**Matrix Spike Dup (W0D0357-MSD1)**

Source: 0D09041-01

Prepared: 04/12/10 Analyzed: 04/15/10 16:34

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total.....	0.160	44.7		ug/l	50.0	89	70-130	0.7	30
Lead, Total.....	0.0800	49.0		ug/l	50.0	98	70-130	1	30
Cadmium, Total.....	ND	48.4		ug/l	50.0	97	70-130	0.3	30

### Certificate of Analysis

**Notes:**

The Chain of Custody document is part of the analytical report.  
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.  
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services. The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).  
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002



*Kim Tu*  
\_\_\_\_\_  
**Authorized Signature**  
Contact: Kim G Tu (Project Manager)



ELAP # 1132  
LACSD # 10143  
NELAC # 04229CA

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.*

**Flags for Data Qualifiers:**

- ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
- Sub Subcontracted analysis, original report enclosed.
- Dil The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b". (a) and (b) are indicated as whole numbers with rounding up for = 0.5 and off for < 0.5
- DL Method Detection Limit
- RL Method Reporting Limit
- MDA Minimum Detectable Activity



# Weck Laboratories, Inc.

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Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

# CHAIN OF CUSTODY RECORD

0008032

Page 1 of 1

CLIENT NAME:

American Scientific Labs

PROJECT: 45386

ADDRESS: 2530 N. San Fernando Road

PHONE #: 303 923 9900

L.A. CA 90065

FAX #: 303 923 9500

PROJECT MANAGER:

Malley Brian

SAMPLER:

E MAIL: malley @ asllab.com  
PO.#:

ID# DATE SAMPLED TIME SAMPLED SMPL TYPE SAMPLE IDENTIFICATION/SITE LOCATION # OF CONT.

4-5-10

W

251216

105ml

X

↓

↓

251217

↓

X

↓

↓

251218

↓

X X

Cadmium by 200.8 (ICP/ms)  
Copper by 200.8 (ICP/ms)  
Lead by 200.8 (ICP/ms)

SPECIAL HANDLING

- Same Day Rush 150%
- 24 Hour Rush 100%
- 48 - 72 Hour Rush 75%
- 4 - 5 Day Rush 30%
- Rush Extraction 50%
- 10 - 15 Business Days
- QA/QC Package

Charges Will Apply For Weekends And Holidays  
Method of Shipment

COMMENTS

RELINQUISHED BY:

SIGNATURE

PRINT NAME

DATE / TIME

RECEIVED BY:

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

4/8/10 1400

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

SIGNATURE

PRINT NAME

SAMPLE CONDITION: 25°C

Actual Temperature:

Received On Ice  
Preserved  
Evidence Seals Present  
Container Attacked  
Preserved at Lab

Y/N  
Y/N  
Y/N  
Y/N

SAMPLE TYPE CODE:

- AQ = Aqueous
- NA = Non Aqueous
- SL = Sludge
- DW = Drinking Water
- WW = Waste Water
- RW = Rain Water
- GW = Ground Water
- SO = Soil
- SW = Solid Waste
- OL = Oil
- OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION:

WHITE & CANARY - For Laboratory

PINK - For Client

4/12/10

0008056

United Water - Burbank  
740 N LAKE ST BURBANK CA 91502  
(818) 972-1115

ANALYSIS RESULTS  
REQUIRED BY:

SSU

SAMPLE HANDLING RECORD

Account #: \_\_\_\_\_ UW Lab #: AI01503 ✓

Sample Source or Company Name: TECHNICAL METAL FINISHING  
3211 PARSONS AVE Key #: 1023

Address: 3211 PARSONS AVE

SAMPLE COLLECTION INFORMATION

Sample Taken From: \_\_\_\_\_ Sample Method: \_\_\_\_\_  
 Sample Box  Grab  
 Clarifier  Composite-Timed With \_\_\_\_\_ minute  
 Sampling Wye  Composite-Flow With 100 gallon  
 Other: \_\_\_\_\_ intervals.  
Grabbed at: 1110 ✓ 4/8/10  
TIME DATE  
Composite From: 1235 4/7/10  
TIME DATE  
To: 1041 4/8/10  
TIME DATE

Condition of Clarifier, Sample Box, Other Observations: CLEAR, NO

TURBIDITY, NO O/G, NO ODOR

Company Contact: Name: CARLESTIAN SOSA Title: \_\_\_\_\_

Sampled By (Initials): CS (Emp. #) 896 Sampler Serial #: \_\_\_\_\_ Battery #: \_\_\_\_\_

Vol. of Sample Collected: 9.5L Vol. of Composite Prepared: 0.5L Vol. Submitted to Lab 1.0L

Sample Preservation Used: PC, HNO3, NaOH Sample Split?  No  Yes, Name: \_\_\_\_\_

FIELD TEST RESULTS

FLOW METER INFORMATION

pH: 9.17 meter %LEL: \_\_\_\_\_  
EC: \_\_\_\_\_ O2: \_\_\_\_\_  
Temp: \_\_\_\_\_ Sulfide: \_\_\_\_\_  
Cyanide: \_\_\_\_\_ Other: \_\_\_\_\_

Totalizer Readings: \_\_\_\_\_ Flow Rate At Time of Sample: \_\_\_\_\_  
Final: 58588827822 27.37 3/210 gpm  
Initial: 8811964  Visual Estimate 0.482 ft  
Difference: 5827822  Effluent Flow Meter 35.66 GPM  
 Influent Water  
Multiplier: \_\_\_\_\_ Meter on 3/8/10  
 Estimate Impossible  
Total Flow: 15.858 J. NUTCH 22.5

Sample Matrix \_\_\_\_\_

LABORATORY TESTS

UW Lab

Contract Lab

Constituent	Constituent	Constituent	Constituent	Constituent	Constituent
<u>C</u> Arsenic	Copper	pH	Chloride	Boron	<u>G</u> Cyanide ✓
<u>C</u> Cadmium	Iron	<u>G</u> BOD <u>OF</u>	Sulfate	Mercury	Sodium
Chromium	<u>C</u> Lead	TDS	COD	624, 625, 608	Phenols
Manganese	Zinc	<u>G</u> Susp Sol <u>OF</u>	Fluoride	Oil & Grease	RPH (HEM-SGT)
Silver	Nickel	Hardness			
Selenium	Aluminum				

SAMPLE PICKUP

CUSTODY RECORD

5.2L

Relinquished by: (Signature)	Time	Date	Received by: (Signature)
<u>[Signature]</u>	<u>1120</u>	<u>4/8/10</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>1120</u>	<u>4/8/10</u>	<u>Allen Brown</u>
<u>Allen Brown</u>	<u>11:55</u>	<u>4/8/10</u>	<u>[Signature]</u>
<u>[Signature]</u>	<u>1740</u>	<u>4/8/10</u>	<u>Jamesmer 4/8/10 1740</u>
Relinquished by: (Signature)	Time	Date	Received by: (Signature)

rest 4/2/10

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT American Scientific Lab PM JS LOG # 64125

LOT# (QUANTIMS ID) G0D080594 QUOTE# 35699 LOCATION w24b

Checked (✓)

DATE RECEIVED 4/8/10 TIME RECEIVED 0745

DELIVERED BY  FEDEX  ON TRAC  CLIENT

GOLDENSTATE  UPS  GO-GETTERS  OTHER

TAL COURIER  TAL SF  VALLEY LOGISTICS

CUSTODY SEAL STATUS  INTACT  BROKEN  N/A

CUSTODY SEAL #(S) \_\_\_\_\_

SHIPPING CONTAINER(S)  TAL.  CLIENT  N/A

COC #(S) NA

TEMPERATURE BLANK Observed: NA Corrected: \_\_\_\_\_

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3.15 Average 3 Corrected Average 3

LABORATORY THERMOMETER ID:

IR UNIT: #4  #5   OTHER \_\_\_\_\_

EW 4/8/10  
Initials Date

pH MEASURED  YES  ANOMALY  N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW \_\_\_\_\_  NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM  N/A

VOA-ENCORES  N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A

CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A

WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED

EW 4/8/10  
Initials Date

Notes \_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot  
ID:

90 D080594

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB	/	/	/																	
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
___"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

**WATER, 1613B,  
Dioxins/Furans,  
HRGC/HRMS**



American Scientific Laboratories LLC

Sample ID: 251216

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0D080594 - 001	Work Order #....:	LXPGP1AA	Matrix....:	WATER
Date Sampled....:	04/05/10	Date Received....:	04/08/10	Dilution Factor:	0.94
Prep Date....:	04/15/10	Analysis Date....:	04/22/10		
Prep Batch # ....:	0105250	Instrument ID....:	3D5		
Initial Wgt/Vol :	1056.1 mL	Analyst ID....:	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		9.5	0.57	pg/L
Total TCDD	ND		9.5	0.57	pg/L
1,2,3,7,8-PeCDD	2.2	J Q	47	1.2	pg/L
Total PeCDD	2.2		47	1.2	pg/L
1,2,3,4,7,8-HxCDD	12	J	47	0.83	pg/L
1,2,3,6,7,8-HxCDD	16	J	47	0.71	pg/L
1,2,3,7,8,9-HxCDD	17	J	47	0.63	pg/L
Total HxCDD	97		47	0.71	pg/L
1,2,3,4,6,7,8-HpCDD	330		47	5.5	pg/L
Total HpCDD	630		47	5.5	pg/L
OCDD	3100	B	95	5.5	pg/L
2,3,7,8-TCDF	3.1	J B	9.5	0.48	pg/L
Total TCDF	7.9		9.5	0.48	pg/L
1,2,3,7,8-PeCDF	1.8	J Q	47	0.90	pg/L
2,3,4,7,8-PeCDF	ND		47	0.93	pg/L
Total PeCDF	5.8		47	0.91	pg/L
1,2,3,4,7,8-HxCDF	5.6	J B	47	1.0	pg/L
1,2,3,6,7,8-HxCDF	4.1	J Q B	47	0.93	pg/L
2,3,4,6,7,8-HxCDF	3.8	J Q	47	0.80	pg/L
1,2,3,7,8,9-HxCDF	1.7	J Q	47	1.2	pg/L
Total HxCDF	65		47	0.97	pg/L
1,2,3,4,6,7,8-HpCDF	77		47	1.7	pg/L
1,2,3,4,7,8,9-HpCDF	3.1	J Q	47	2.7	pg/L
Total HpCDF	170		47	2.1	pg/L
OCDF	200		95	1.8	pg/L

American Scientific Laboratories LLC

Sample ID: 251216

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0D080594 - 001	Work Order #....:	LXPGP1AA	Matrix....:	WATER
Date Sampled....:	04/05/10	Date Received....:	04/08/10	Dilution Factor:	0.94
Prep Date....:	04/15/10	Analysis Date....:	04/22/10		
Prep Batch # ....:	0105250	Instrument ID....:	3D5		
Initial Wgt/Vol :	1056.1 mL	Analyst ID....:	Susan X. Yan		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	54	25 - 164
13C-1,2,3,7,8-PeCDD	65	25 - 181
13C-1,2,3,4,7,8-HxCDD	64	32 - 141
13C-1,2,3,6,7,8-HxCDD	74	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	73	23 - 140
13C-OCDD	79	17 - 157
13C-2,3,7,8-TCDF	59	24 - 169
13C-1,2,3,7,8-PeCDF	64	24 - 185
13C-2,3,4,7,8-PeCDF	66	21 - 178
13C-1,2,3,6,7,8-HxCDF	70	26 - 123
13C-2,3,4,6,7,8-HxCDF	74	28 - 136
13C-1,2,3,7,8,9-HxCDF	63	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	71	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	68	26 - 138
13C-1,2,3,4,7,8-HxCDF	67	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	85	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 251217

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0D080594 - 002	Work Order #....:	LXPGR1AA	Matrix....:	WATER
Date Sampled....:	04/05/10	Date Received....:	04/08/10	Dilution Factor:	1
Prep Date....:	04/15/10	Analysis Date....:	04/22/10		
Prep Batch # ....:	0105250	Instrument ID....:	3D5		
Initial Wgt/Vol :	994.7 mL	Analyst ID....:	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		10	0.60	pg/L
Total TCDD	ND		10	0.60	pg/L
1,2,3,7,8-PeCDD	4.8	J Q	50	1.2	pg/L
Total PeCDD	4.8		50	1.2	pg/L
1,2,3,4,7,8-HxCDD	7.7	J	50	0.87	pg/L
1,2,3,6,7,8-HxCDD	10	J	50	0.79	pg/L
1,2,3,7,8,9-HxCDD	12	J	50	0.69	pg/L
Total HxCDD	55		50	0.78	pg/L
1,2,3,4,6,7,8-HpCDD	160		50	2.9	pg/L
Total HpCDD	310		50	2.9	pg/L
OCDD	1700	B	100	6.1	pg/L
2,3,7,8-TCDF	2.0	J Q B	10	0.55	pg/L
Total TCDF	4.1		10	0.55	pg/L
1,2,3,7,8-PeCDF	2.6	J	50	0.68	pg/L
2,3,4,7,8-PeCDF	3.2	J	50	0.68	pg/L
Total PeCDF	8.2		50	0.68	pg/L
1,2,3,4,7,8-HxCDF	4.5	J B	50	0.85	pg/L
1,2,3,6,7,8-HxCDF	4.0	J B	50	0.76	pg/L
2,3,4,6,7,8-HxCDF	4.9	J	50	0.63	pg/L
1,2,3,7,8,9-HxCDF	1.7	J Q	50	0.91	pg/L
Total HxCDF	31		50	0.78	pg/L
1,2,3,4,6,7,8-HpCDF	30	J	50	0.92	pg/L
1,2,3,4,7,8,9-HpCDF	6.1	J Q	50	1.6	pg/L
Total HpCDF	68		50	1.2	pg/L
OCDF	97	J	100	1.5	pg/L

American Scientific Laboratories LLC

Sample ID: 251217

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....: G0D080594 - 002  
 Date Sampled....: 04/05/10  
 Prep Date....: 04/15/10  
 Prep Batch # ....: 0105250  
 Initial Wgt/Vol : 994.7 mL

Work Order #....: LXPGR1AA  
 Date Received....: 04/08/10  
 Analysis Date....: 04/22/10  
 Instrument ID....: 3D5  
 Analyst ID....: Susan X. Yan

Matrix....: WATER  
 Dilution Factor: 1

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	50	25 - 164
13C-1,2,3,7,8-PeCDD	62	25 - 181
13C-1,2,3,4,7,8-HxCDD	64	32 - 141
13C-1,2,3,6,7,8-HxCDD	75	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	83	23 - 140
13C-OCDD	90	17 - 157
13C-2,3,7,8-TCDF	57	24 - 169
13C-1,2,3,7,8-PeCDF	60	24 - 185
13C-2,3,4,7,8-PeCDF	64	21 - 178
13C-1,2,3,6,7,8-HxCDF	71	26 - 123
13C-2,3,4,6,7,8-HxCDF	77	28 - 136
13C-1,2,3,7,8,9-HxCDF	66	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	78	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	73	26 - 138
13C-1,2,3,4,7,8-HxCDF	67	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	85	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Sample ID: 251218

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0D080594 - 003	Work Order #....:	LXPGT1AA	Matrix....:	WATER
Date Sampled....:	04/05/10	Date Received....:	04/08/10	Dilution Factor:	0.97
Prep Date....:	04/15/10	Analysis Date....:	04/22/10		
Prep Batch # ....:	0105250	Instrument ID....:	3D5		
Initial Wgt/Vol :	1028.5 mL	Analyst ID....:	Susan X. Yan		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	2.6	J Q	9.7	0.48	pg/L
Total TCDD	2.6		9.7	0.48	pg/L
1,2,3,7,8-PeCDD	22	J	49	0.90	pg/L
Total PeCDD	22		49	0.90	pg/L
1,2,3,4,7,8-HxCDD	33	J	49	1.1	pg/L
1,2,3,6,7,8-HxCDD	36	J	49	1.0	pg/L
1,2,3,7,8,9-HxCDD	29	J	49	0.89	pg/L
Total HxCDD	110		49	1.0	pg/L
1,2,3,4,6,7,8-HpCDD	86		49	1.8	pg/L
Total HpCDD	180		49	1.8	pg/L
OCDD	500	B	97	4.7	pg/L
2,3,7,8-TCDF	4.5	J B	9.7	0.47	pg/L
Total TCDF	8.5		9.7	0.47	pg/L
1,2,3,7,8-PeCDF	16	J	49	0.77	pg/L
2,3,4,7,8-PeCDF	20	J	49	0.77	pg/L
Total PeCDF	37		49	0.77	pg/L
1,2,3,4,7,8-HxCDF	27	J B	49	1.0	pg/L
1,2,3,6,7,8-HxCDF	23	J B	49	0.86	pg/L
2,3,4,6,7,8-HxCDF	29	J	49	0.77	pg/L
1,2,3,7,8,9-HxCDF	29	J	49	1.2	pg/L
Total HxCDF	120		49	0.94	pg/L
1,2,3,4,6,7,8-HpCDF	44	J	49	1.0	pg/L
1,2,3,4,7,8,9-HpCDF	39	J	49	1.9	pg/L
Total HpCDF	100		49	1.4	pg/L
OCDF	110		97	2.1	pg/L

American Scientific Laboratories LLC

Sample ID: 251218

Trace Level Organic Compounds

EPA-5 1613B

Lot - Sample #....:	G0D080594 - 003	Work Order #....:	LXPGT1AA	Matrix....:	WATER
Date Sampled....:	04/05/10	Date Received....:	04/08/10	Dilution Factor:	0.97
Prep Date....:	04/15/10	Analysis Date....:	04/22/10		
Prep Batch # ....:	0105250	Instrument ID....:	3D5		
Initial Wgt/Vol :	1028.5 mL	Analyst ID....:	Susan X. Yan		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	56	25 - 164
13C-1,2,3,7,8-PeCDD	66	25 - 181
13C-1,2,3,4,7,8-HxCDD	73	32 - 141
13C-1,2,3,6,7,8-HxCDD	74	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	82	23 - 140
13C-OCDD	84	17 - 157
13C-2,3,7,8-TCDF	60	24 - 169
13C-1,2,3,7,8-PeCDF	62	24 - 185
13C-2,3,4,7,8-PeCDF	69	21 - 178
13C-1,2,3,6,7,8-HxCDF	76	26 - 123
13C-2,3,4,6,7,8-HxCDF	80	28 - 136
13C-1,2,3,7,8,9-HxCDF	68	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	81	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	74	26 - 138
13C-1,2,3,4,7,8-HxCDF	71	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	86	35 - 197

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0D080594

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	EPA-5 1613B		0105250	
002	WATER	EPA-5 1613B		0105250	
003	WATER	EPA-5 1613B		0105250	

**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0D150000 - 250B	<b>Work Order #....:</b>	LX1QD1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/06/10	<b>Date Received....:</b>	04/09/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	04/15/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0105250	<b>Instrument ID....:</b>	3D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	10	0.69	pg/L
Total TCDD	ND	10	0.69	pg/L
1,2,3,7,8-PeCDD	ND	50	0.96	pg/L
Total PeCDD	ND	50	0.96	pg/L
1,2,3,4,7,8-HxCDD	ND	50	0.62	pg/L
1,2,3,6,7,8-HxCDD	ND	50	0.59	pg/L
1,2,3,7,8,9-HxCDD	ND	50	0.48	pg/L
Total HxCDD	ND	50	0.62	pg/L
1,2,3,4,6,7,8-HpCDD	ND	50	1.0	pg/L
Total HpCDD	ND	50	1.8	pg/L
OCDD	ND	100	4.0	pg/L
2,3,7,8-TCDF	ND	10	2.5	pg/L
Total TCDF	ND	10	5.4	pg/L
1,2,3,7,8-PeCDF	ND	50	0.75	pg/L
2,3,4,7,8-PeCDF	ND	50	0.69	pg/L
Total PeCDF	ND	50	0.75	pg/L
1,2,3,4,7,8-HxCDF	ND	50	0.54	pg/L
1,2,3,6,7,8-HxCDF	ND	50	0.52	pg/L
2,3,4,6,7,8-HxCDF	ND	50	0.35	pg/L
1,2,3,7,8,9-HxCDF	ND	50	0.55	pg/L
Total HxCDF	ND	50	1.1	pg/L
1,2,3,4,6,7,8-HpCDF	ND	50	0.73	pg/L
1,2,3,4,7,8,9-HpCDF	ND	50	1.2	pg/L
Total HpCDF	ND	50	1.2	pg/L
OCDF	ND	100	0.83	pg/L



**Method Blank Report**  
**Trace Level Organic Compounds**  
**EPA-5 1613B**

<b>Lot - Sample #....:</b>	G0D150000 - 250B	<b>Work Order #....:</b>	LX1QD1AA	<b>Matrix....:</b>	WATER
<b>Date Sampled....:</b>	04/06/10	<b>Date Received....:</b>	04/09/10	<b>Dilution Factor:</b>	1
<b>Prep Date....:</b>	04/15/10	<b>Analysis Date....:</b>	04/22/10		
<b>Prep Batch # ....:</b>	0105250	<b>Instrument ID....:</b>	3D5		
<b>Initial Wgt/Vol :</b>	1000 mL	<b>Analyst ID....:</b>	Susan X. Yan		

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	50	25 - 164
13C-1,2,3,7,8-PeCDD	68	25 - 181
13C-1,2,3,4,7,8-HxCDD	70	32 - 141
13C-1,2,3,6,7,8-HxCDD	80	28 - 130
13C-1,2,3,4,6,7,8-HpCDD	80	23 - 140
13C-OCDD	80	17 - 157
13C-2,3,7,8-TCDF	54	24 - 169
13C-1,2,3,7,8-PeCDF	60	24 - 185
13C-2,3,4,7,8-PeCDF	71	21 - 178
13C-1,2,3,6,7,8-HxCDF	75	26 - 123
13C-2,3,4,6,7,8-HxCDF	81	28 - 136
13C-1,2,3,7,8,9-HxCDF	65	29 - 147
13C-1,2,3,4,6,7,8-HpCDF	76	28 - 143
13C-1,2,3,4,7,8,9-HpCDF	70	26 - 138
13C-1,2,3,4,7,8-HxCDF	71	26 - 152

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	89	35 - 197

**QUALIFIERS**

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: G0D080594      Work Order # ...: LX1QD1AC-LCS      Matrix .....: WATER  
 LCS Lot-Sample# : G0D150000 - 250  
 Prep Date .....: 04/15/10      Analysis Date ...: 04/22/10  
 Prep Batch # ...: 0105250  
 Dilution Factor : 1  
 Analyst ID.....: Susan X. Yan      Instrument ID.: 3D5      Method.....: EPA-5      1613B  
 Initial Wgt/Vol: 1000 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS
2,3,7,8-TCDD	200	249	pg/L	124	(67 - 158)
1,2,3,7,8-PeCDD	1000	1090	pg/L	109	(70 - 142)
1,2,3,4,7,8-HxCDD	1000	1070	pg/L	107	(70 - 164)
1,2,3,6,7,8-HxCDD	1000	1090	pg/L	109	(76 - 134)
1,2,3,7,8,9-HxCDD	1000	931	pg/L	93	(64 - 162)
1,2,3,4,6,7,8-HpCDD	1000	1010	pg/L	101	(70 - 140)
OCDD	2000	2090	pg/L	105	(78 - 144)
2,3,7,8-TCDF	200	207	pg/L	104	(75 - 158)
1,2,3,7,8-PeCDF	1000	1080	pg/L	108	(80 - 134)
2,3,4,7,8-PeCDF	1000	1090	pg/L	109	(68 - 160)
1,2,3,4,7,8-HxCDF	1000	1090	pg/L	109	(72 - 134)
1,2,3,6,7,8-HxCDF	1000	1080	pg/L	108	(84 - 130)
2,3,4,6,7,8-HxCDF	1000	1060	pg/L	106	(70 - 156)
1,2,3,7,8,9-HxCDF	1000	1090	pg/L	109	(78 - 130)
1,2,3,4,6,7,8-HpCDF	1000	1120	pg/L	112	(82 - 122)
1,2,3,4,7,8,9-HpCDF	1000	1200	pg/L	120	(78 - 138)
OCDF	2000	2120	pg/L	106	(63 - 170)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	42	(20 - 175)
13C-1,2,3,7,8-PeCDD	62	(21 - 227)
13C-1,2,3,4,7,8-HxCDD	68	(21 - 193)
13C-1,2,3,6,7,8-HxCDD	77	(25 - 163)
13C-1,2,3,4,6,7,8-HpCDD	80	(26 - 166)
13C-OCDD	82	(13 - 199)
13C-2,3,7,8-TCDF	47	(22 - 152)
13C-1,2,3,7,8-PeCDF	55	(21 - 192)
13C-2,3,4,7,8-PeCDF	62	(13 - 328)
13C-1,2,3,6,7,8-HxCDF	72	(21 - 159)
13C-2,3,4,6,7,8-HxCDF	76	(22 - 176)
13C-1,2,3,7,8,9-HxCDF	64	(17 - 205)
13C-1,2,3,4,6,7,8-HpCDF	76	(21 - 158)
13C-1,2,3,4,7,8,9-HpCDF	72	(20 - 186)
13C-1,2,3,4,7,8-HxCDF	70	(19 - 202)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	98	(31 - 191)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

**Notes:**

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Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

April 26, 2010

**TestAmerica Project Number: GOD080594**  
PO/Contract:

Molky Brar  
American Scientific Lab  
2520 N. San Fernando Rd  
Los Angeles, CA 90065

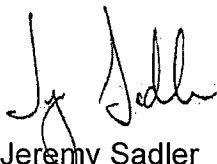
Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on April 8, 2010. These samples are associated with your 45386 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,



Jeremy Sadler  
Project Manager

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# TestAmerica West Sacramento Project Number G0D080594

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WATER, 1613B, Dioxins/Furans, HRGC/HRMS

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Sample Data Sheets

Method Blank Report

Laboratory QC Reports

## Case Narrative

### TestAmerica West Sacramento Project Number G0D080594

#### WATER, 1613B, Dioxins/Furans, HRGC/HRMS

Samples: 1, 2, 3

The continuing calibration standard has 13C-1,2,3,6,7,8-HxCDD with percent difference values that are above the method recommended criteria of 118% recovery from the initial calibration curve.

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

## TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUANI
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

### QC Parameter Definitions

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G0D080594

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LXPGP	1	251216	4/5/2010	4/8/2010 07:45 AM
LXPGR	2	251217	4/5/2010	4/8/2010 07:45 AM
LXPGT	3	251218	4/5/2010	4/8/2010 07:45 AM

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



