

APPENDIX G

Section 23

Outfall 009, January 5, 2009

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: Routine Outfall 009

Sampled: 01/05/09
Received: 01/05/09
Issued: 02/04/09 12:35

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.

LABORATORY ID
ISA0133-01

CLIENT ID
Outfall 009

MATRIX
Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	9A07070	0.20	2.0	0.39	1	01/07/09	01/07/09	J
Cadmium	EPA 200.8	9A07070	0.11	1.0	ND	1	01/07/09	01/07/09	
Copper	EPA 200.8	9A07070	0.75	2.0	2.3	1	01/07/09	01/07/09	
Lead	EPA 200.8	9A07070	0.30	1.0	1.5	1	01/07/09	01/08/09	
Thallium	EPA 200.8	9A07070	0.20	1.0	ND	1	01/07/09	01/07/09	

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Sampled: 01/05/09

Received: 01/05/09

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	9A07071	0.20	2.0	0.27	1	01/07/09	01/07/09	J
Cadmium	EPA 200.8-Diss	9A07071	0.11	1.0	ND	1	01/07/09	01/07/09	
Copper	EPA 200.8-Diss	9A07071	0.75	2.0	1.4	1	01/07/09	01/07/09	J
Lead	EPA 200.8-Diss	9A07071	0.30	1.0	ND	1	01/07/09	01/07/09	
Thallium	EPA 200.8-Diss	9A07071	0.20	1.0	ND	1	01/07/09	01/07/09	

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	9A09081	1.3	4.7	ND	1	01/09/09	01/09/09	
Chloride	EPA 300.0	9A05041	2.5	5.0	74	10	01/05/09	01/06/09	
Nitrate/Nitrite-N	EPA 300.0	9A05041	0.15	0.26	1.5	1	01/05/09	01/05/09	
Sulfate	EPA 300.0	9A05041	2.0	5.0	66	10	01/05/09	01/06/09	
Total Dissolved Solids	SM2540C	9A06002	10	10	340	1	01/06/09	01/06/09	

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Sampled: 01/05/09
Received: 01/05/09

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	1802	0.000001180.00000478		ND	1	01/09/09	01/12/09	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	1802	0.000003990.0000239		ND	1	01/09/09	01/12/09	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	1802	0.000004670.0000239		ND	1	01/09/09	01/12/09	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	1802	0.000004340.0000239		ND	1	01/09/09	01/12/09	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	1802	0.000004180.0000239		ND	1	01/09/09	01/12/09	
1,2,3,4,6,7,8-HpCDD	1613-Dioxin-HR Alta	1802	0.000009360.0000239		ND	1	01/09/09	01/12/09	
OCDD	1613-Dioxin-HR Alta	1802	0.000002450.0000478		0.0000602	1	01/09/09	01/12/09	
2,3,7,8-TCDF	1613-Dioxin-HR Alta	1802	0.000000950.00000478		ND	1	01/09/09	01/12/09	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	1802	0.000002090.0000239		ND	1	01/09/09	01/12/09	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	1802	0.000002020.0000239		ND	1	01/09/09	01/12/09	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	1802	0.000000970.0000239		ND	1	01/09/09	01/12/09	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	1802	0.000000980.0000239		ND	1	01/09/09	01/12/09	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	1802	0.000001040.0000239		ND	1	01/09/09	01/12/09	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	1802	0.000001480.0000239		ND	1	01/09/09	01/12/09	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	1802	0.000005810.0000239		ND	1	01/09/09	01/12/09	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	1802	0.000002 0.0000239		ND	1	01/09/09	01/12/09	
OCDF	1613-Dioxin-HR Alta	1802	0.0000137 0.0000478		ND	1	01/09/09	01/12/09	
Total TCDD	1613-Dioxin-HR Alta	1802	0.000001180.00000478		ND	1	01/09/09	01/12/09	
Total PeCDD	1613-Dioxin-HR Alta	1802	0.00000399 0.0000239		ND	1	01/09/09	01/12/09	
Total HxCDD	1613-Dioxin-HR Alta	1802	0.00000418 0.0000239		ND	1	01/09/09	01/12/09	
Total HpCDD	1613-Dioxin-HR Alta	1802	0.00000936 0.0000239		0.0000102	1	01/09/09	01/12/09	
Total TCDF	1613-Dioxin-HR Alta	1802	0.000000950.00000478		ND	1	01/09/09	01/12/09	
Total PeCDF	1613-Dioxin-HR Alta	1802	0.00000202 0.0000239		ND	1	01/09/09	01/12/09	
Total HxCDF	1613-Dioxin-HR Alta	1802	0.0000009780.0000239		ND	1	01/09/09	01/12/09	
Total HpCDF	1613-Dioxin-HR Alta	1802	0.000002 0.0000239		ND	1	01/09/09	01/12/09	

Surrogate: 13C-2,3,7,8-TCDD (25-164%)	90.5 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	97.5 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	84.5 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	94.6 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	83.4 %
Surrogate: 13C-OCDD (17-157%)	67.9 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	90.3 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	97.1 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	98.6 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	76.1 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	76.5 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	87 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	85.2 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	68.4 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	73.7 %
Surrogate: 13C-OCDF (17-157%)	67.5 %

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Sampled: 01/05/09

Received: 01/05/09

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					85 %				

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Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	9009232	N/A	0.2	ND	1	01/12/09	01/12/09	

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NPDES - 1722

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Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

MCAWW 245.1 Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ISA0133-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	MCAWW 245.1 Diss	9009255	N/A	0.2	ND	1	01/12/09	01/12/09	

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NPDES - 1723

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Sampled: 01/05/09

Received: 01/05/09

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 009 (ISA0133-01) - Water					
EPA 300.0	2	01/05/2009 12:45	01/05/2009 16:40	01/05/2009 21:00	01/05/2009 21:54
Filtration	1	01/05/2009 12:45	01/05/2009 16:40	01/05/2009 20:00	01/05/2009 20:00

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NPDES - 1724

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 9A07070 Extracted: 01/07/09											
Blank Analyzed: 01/07/2009-01/08/2009 (9A07070-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/07/2009-01/08/2009 (9A07070-BS1)											
Antimony	76.7	2.0	0.20	ug/l	80.0		96	85-115			
Cadmium	76.2	1.0	0.11	ug/l	80.0		95	85-115			
Copper	85.9	2.0	0.75	ug/l	80.0		107	85-115			
Lead	82.9	1.0	0.30	ug/l	80.0		104	85-115			
Thallium	82.0	1.0	0.20	ug/l	80.0		102	85-115			
Matrix Spike Analyzed: 01/07/2009-01/08/2009 (9A07070-MS1) Source: ISA0133-01											
Antimony	76.8	2.0	0.20	ug/l	80.0	0.390	95	70-130			
Cadmium	72.9	1.0	0.11	ug/l	80.0	ND	91	70-130			
Copper	82.9	2.0	0.75	ug/l	80.0	2.33	101	70-130			
Lead	74.9	1.0	0.30	ug/l	80.0	1.48	92	70-130			
Thallium	86.3	1.0	0.20	ug/l	80.0	ND	108	70-130			
Matrix Spike Dup Analyzed: 01/07/2009-01/08/2009 (9A07070-MSD1) Source: ISA0133-01											
Antimony	77.2	2.0	0.20	ug/l	80.0	0.390	96	70-130	1	20	
Cadmium	73.7	1.0	0.11	ug/l	80.0	ND	92	70-130	1	20	
Copper	84.2	2.0	0.75	ug/l	80.0	2.33	102	70-130	2	20	
Lead	75.4	1.0	0.30	ug/l	80.0	1.48	92	70-130	1	20	
Thallium	87.7	1.0	0.20	ug/l	80.0	ND	110	70-130	2	20	

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Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 9A07071 Extracted: 01/07/09											
Blank Analyzed: 01/07/2009 (9A07071-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 01/07/2009-01/08/2009 (9A07071-BS1)											
Antimony	76.2	2.0	0.20	ug/l	80.0		95	85-115			
Cadmium	74.2	1.0	0.11	ug/l	80.0		93	85-115			
Copper	83.3	2.0	0.75	ug/l	80.0		104	85-115			
Lead	75.0	1.0	0.30	ug/l	80.0		94	85-115			
Thallium	74.3	1.0	0.20	ug/l	80.0		93	85-115			
Matrix Spike Analyzed: 01/07/2009 (9A07071-MS1) Source: ISA0133-01											
Antimony	78.4	2.0	0.20	ug/l	80.0	0.273	98	70-130			
Cadmium	73.4	1.0	0.11	ug/l	80.0	ND	92	70-130			
Copper	83.3	2.0	0.75	ug/l	80.0	1.36	102	70-130			
Lead	89.1	1.0	0.30	ug/l	80.0	ND	111	70-130			
Thallium	89.1	1.0	0.20	ug/l	80.0	ND	111	70-130			
Matrix Spike Dup Analyzed: 01/07/2009 (9A07071-MSD1) Source: ISA0133-01											
Antimony	79.5	2.0	0.20	ug/l	80.0	0.273	99	70-130	1	20	
Cadmium	74.5	1.0	0.11	ug/l	80.0	ND	93	70-130	1	20	
Copper	83.1	2.0	0.75	ug/l	80.0	1.36	102	70-130	0	20	
Lead	87.8	1.0	0.30	ug/l	80.0	ND	110	70-130	1	20	
Thallium	87.8	1.0	0.20	ug/l	80.0	ND	110	70-130	1	20	

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Sampled: 01/05/09
 Received: 01/05/09

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9A05041 Extracted: 01/05/09											
Blank Analyzed: 01/05/2009 (9A05041-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 01/05/2009 (9A05041-BS1)											
Chloride	4.78	0.50	0.25	mg/l	5.00		96	90-110			M-3
Sulfate	9.65	0.50	0.20	mg/l	10.0		97	90-110			M-3
Matrix Spike Analyzed: 01/06/2009 (9A05041-MS2)											
						Source: ISA0133-01					
Chloride	120	5.0	2.5	mg/l	50.0	73.5	93	80-120			
Sulfate	160	5.0	2.0	mg/l	100	66.5	93	80-120			
Batch: 9A06002 Extracted: 01/06/09											
Blank Analyzed: 01/06/2009 (9A06002-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 01/06/2009 (9A06002-BS1)											
Total Dissolved Solids	980	10	10	mg/l	1000		98	90-110			
Duplicate Analyzed: 01/06/2009 (9A06002-DUP1)											
						Source: ISA0130-01					
Total Dissolved Solids	573	10	10	mg/l		586			2	10	
Batch: 9A09081 Extracted: 01/09/09											
Blank Analyzed: 01/09/2009 (9A09081-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9A09081 Extracted: 01/09/09											
LCS Analyzed: 01/09/2009 (9A09081-BS1)											
Hexane Extractable Material (Oil & Grease)	19.0	5.0	1.4	mg/l	20.0		95	78-114			MNR1
LCS Dup Analyzed: 01/09/2009 (9A09081-BSD1)											
Hexane Extractable Material (Oil & Grease)	18.8	5.0	1.4	mg/l	20.0		94	78-114	1	11	

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 Received: 01/05/09

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1802 Extracted: 01/09/09											
Blank Analyzed: 01/10/2009 (MB001)						Source:					
2,3,7,8-TCDD	ND	0.0000500	0.0000126	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	0.0000250	0.0000182	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	0.0000250	0.0000258	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	0.0000250	0.0000236	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	0.0000250	0.0000229	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	0.0000250	0.0000187	ug/L				50-150		25	
OCDD	ND	0.0000500	0.0000606	ug/L				50-150		25	
2,3,7,8-TCDF	ND	0.0000500	0.0000009	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	0.0000250	0.0000113	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	0.0000250	0.0000124	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	0.0000250	0.0000052	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	0.0000250	0.0000053	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	0.0000250	0.0000060	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	0.0000250	0.0000073	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	0.0000250	0.0000095	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	0.0000250	0.0000108	ug/L				50-150		25	
OCDF	ND	0.0000500	0.0000292	ug/L				50-150		25	
Total TCDD	ND	0.0000500	0.0000126	ug/L				50-150		25	
Total PeCDD	ND	0.0000250	0.0000182	ug/L				50-150		25	
Total HxCDD	ND	0.0000250	0.0000229	ug/L				50-150		25	
Total HpCDD	ND	0.0000250	0.0000187	ug/L				50-150		25	
Total TCDF	ND	0.0000500	0.0000009	ug/L				50-150		25	
Total PeCDF	ND	0.0000250	0.0000113	ug/L				50-150		25	
Total HxCDF	ND	0.0000250	0.00000528	ug/L				50-150		25	
Total HpCDF	ND	0.0000250	0.00000959	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	0.00186			ug/L	2000		93	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00206			ug/L	2000		103	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00160			ug/L	2000		80	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00177			ug/L	2000		89	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00193			ug/L	2000		96	50-150			
Surrogate: 13C-OCDD	0.00321			ug/L	4000		80	50-150			
Surrogate: 13C-2,3,7,8-TCDF	0.00188			ug/L	2000		94	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00198			ug/L	2000		99	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00205			ug/L	2000		103	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00137			ug/L	2000		68	50-150			

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09
 Received: 01/05/09

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1802 Extracted: 01/09/09											
Blank Analyzed: 01/10/2009 (MB001)											
						Source:					
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00144			ug/L	2000		72	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00153			ug/L	2000		77	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00171			ug/L	2000		85	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00170			ug/L	2000		85	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00177			ug/L	2000		89	50-150			
Surrogate: 13C-OCDF	0.00329			ug/L	4000		82	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	0.000670			ug/L	800		84	50-150			
LCS Analyzed: 01/10/2009 (OPR001)											
						Source:					
2,3,7,8-TCDD	10.1	5.00	0.840	ug/L	10		101	50-150		25	
1,2,3,7,8-PeCDD	54.4	25.0	1.59	ug/L	50		109	50-150		25	
1,2,3,4,7,8-HxCDD	53.6	25.0	1.18	ug/L	50		107	50-150		25	
1,2,3,6,7,8-HxCDD	53.6	25.0	1.69	ug/L	50		107	50-150		25	
1,2,3,7,8,9-HxCDD	54.2	25.0	1.18	ug/L	50		108	50-150		25	
1,2,3,4,6,7,8-HpCDD	53.0	25.0	2.01	ug/L	50		106	50-150		25	
OCDD	106	50.0	2.45	ug/L	100		106	50-150		25	
2,3,7,8-TCDF	10.9	5.00	0.970	ug/L	10		109	50-150		25	
1,2,3,7,8-PeCDF	51.7	25.0	1.09	ug/L	50		103	50-150		25	
2,3,4,7,8-PeCDF	51.9	25.0	1.48	ug/L	50		104	50-150		25	
1,2,3,4,7,8-HxCDF	50.7	25.0	1.06	ug/L	50		101	50-150		25	
1,2,3,6,7,8-HxCDF	52.6	25.0	0.730	ug/L	50		105	50-150		25	
2,3,4,6,7,8-HxCDF	51.1	25.0	1.26	ug/L	50		102	50-150		25	
1,2,3,7,8,9-HxCDF	51.5	25.0	0.940	ug/L	50		103	50-150		25	
1,2,3,4,6,7,8-HpCDF	51.7	25.0	1.70	ug/L	50		103	50-150		25	
1,2,3,4,7,8,9-HpCDF	53.0	25.0	0.960	ug/L	50		106	50-150		25	
OCDF	103	50.0	3.66	ug/L	100		103	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	88.4			ug/L	100		88	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	105			ug/L	100		105	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	78.0			ug/L	100		78	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	82.5			ug/L	100		83	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	81.4			ug/L	100		81	50-150			
Surrogate: 13C-OCDD	133			ug/L	200		67	50-150			
Surrogate: 13C-2,3,7,8-TCDF	94.1			ug/L	100		94	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	101			ug/L	100		101	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	108			ug/L	100		108	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	69.7			ug/L	100		70	50-150			

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09
 Received: 01/05/09

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1802 Extracted: 01/09/09											
LCS Analyzed: 01/10/2009 (OPR001)											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	72.3			ug/L	100		72	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	74.9			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	80.3			ug/L	100		80	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	75.1			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	75.2			ug/L	100		75	50-150			
Surrogate: 13C-OCDF	133			ug/L	200		67	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	34.8			ug/L	40		87	50-150			

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

METHOD BLANK/QC DATA

MCAWW 245.1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9009232 Extracted: 01/12/09											
Matrix Spike Dup Analyzed: 01/12/2009 (D9A070161001D)						Source: ISA0133-01					
Mercury	4.93	0.2	N/A	ug/L	5	ND	99	90-110	1	10	
Matrix Spike Analyzed: 01/12/2009 (D9A070161001S)						Source: ISA0133-01					
Mercury	4.98	0.2	N/A	ug/L	5	ND	100	90-110	1	10	
Blank Analyzed: 01/12/2009 (D9A090000232B)						Source:					
Mercury	ND	0.2	N/A	ug/L				-			
LCS Analyzed: 01/12/2009 (D9A090000232C)						Source:					
Mercury	4.99	0.2	N/A	ug/L	5		100	90-110			

TestAmerica Irvine

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 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09
 Received: 01/05/09

METHOD BLANK/QC DATA

MCAWW 245.1 Diss

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9009255 Extracted: 01/12/09											
Matrix Spike Dup Analyzed: 01/12/2009 (D9A070161001D)						Source: ISA0133-01					
Mercury-diss	5	0.2	N/A	ug/L	5	ND	100	90-110	2	10	
Matrix Spike Analyzed: 01/12/2009 (D9A070161001S)						Source: ISA0133-01					
Mercury-diss	4.91	0.2	N/A	ug/L	5	ND	98	90-110	2	10	
Blank Analyzed: 01/12/2009 (D9A090000255B)						Source:					
Mercury-diss	ND	0.2	N/A	ug/L				-			
LCS Analyzed: 01/12/2009 (D9A090000255C)						Source:					
Mercury-diss	5.1	0.2	N/A	ug/L	5		102	90-110			

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits appear in bold on this page.

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ISA0133-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0	4.7	15
ISA0133-01	Antimony-200.8	Antimony	ug/l	0.39	2.0	6
ISA0133-01	Cadmium-200.8	Cadmium	ug/l	0.051	1.0	4
ISA0133-01	Chloride - 300.0	Chloride	mg/l	74	5.0	150
ISA0133-01	Copper-200.8	Copper	ug/l	2.33	2.0	14
ISA0133-01	Lead-200.8	Lead	ug/l	1.48	1.0	5.2
ISA0133-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	1.51	0.26	10
ISA0133-01	Sulfate-300.0	Sulfate	mg/l	66	5.0	250
ISA0133-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	337	10	850
ISA0133-01	Thallium-200.8	Thallium	ug/l	0.12	1.0	2

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09

Received: 01/05/09

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.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

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ISA0133 <Page 20 of 22>
NPDES - 1735

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09
Received: 01/05/09

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
Filtration	Water	N/A	N/A
SM2540C	Water	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

Subcontracted Laboratories

Alta Analytical Perspectives

2714 Exchange Drive - Wilmington, NC 28405

Method Performed: 1613-Dioxin-HR Alta
Samples: ISA0133-01

TestAmerica Denver

4955 Yarrow Street - Arvada, CO 80002

Method Performed: MCAWW 245.1
Samples: ISA0133-01

Method Performed: MCAWW 245.1 Diss
Samples: ISA0133-01

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 009

Report Number: ISA0133

Sampled: 01/05/09
Received: 01/05/09

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gamma Spec
Samples: ISA0133-01

Analysis Performed: Gross Alpha
Samples: ISA0133-01

Analysis Performed: Gross Beta
Samples: ISA0133-01

Analysis Performed: Radium, Combined
Samples: ISA0133-01

Analysis Performed: Strontium 90
Samples: ISA0133-01

Analysis Performed: Tritium
Samples: ISA0133-01

Analysis Performed: Uranium, Combined
Samples: ISA0133-01

Vista Analytical *NELAC Cert #02102CA, California Cert #1640, Nevada Cert #CA-413*

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
Samples: ISA0133-01

TestAmerica Irvine

Joseph Doak
Project Manager

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Client Name/Address:
 MWH-Arcadia
 618 Michillinda Avenue, Suite 200
 Arcadia, CA 91007
 Test America Contact: Joseph Doak

Project:
 Boeing-SSFL NPDES
 Routine Outfall 009
 Stormwater at WS-13

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

Field readings:
 Temp = 42.0
 pH = 7.21
 Time of readings = 10:00

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	ANALYSIS REQUIRED							Comments		
							Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Oil & Grease (1664-HEM)	Cl ⁻ , SO ₄ ²⁻ , NO ₃ ⁻ +NO ₂ ⁻	TDS	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl			
Outfall 009	W	1L Poly	1		HNO ₃	1A	X									
Outfall 009-Dup	W	1L Poly	1		HNO ₃	1B	X									
Outfall 009	W	1L Amber	2		None	2A, 2B		X								
Outfall 009	W	1L Amber	2		HCl	3A, 3B			X							
Outfall 009	W	500 ml Poly	2		None	4A, 4B			X							
Outfall 009	W	500 ml Poly	1		None	5				X						
Outfall 009	W	2.5 Gal Cube 500 ml Amber	1		None	6A					X					
Outfall 009	W	1L Poly	1		None	8						X				Unfiltered and unpreserved analysis

Relinquished By: *R. B. Kelly* Date/Time: 1/5/09

Received By: *DD Moore* Date/Time: 1/5/09 1245

Relinquished By: *DD Moore* Date/Time: 1/5/09 1040

Received By: *DD Moore* Date/Time: 1/5/09 1646

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

Sample Integrity: (check)
 Intact _____ On Ice: 6.9% 15.9%

044

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

MWH-Pasadena / Boeing

Lot D9A070161

Project ISA0133

Joseph Doak
17461 Derian Avenue
Suite 100
Irvine, CA 92614

TestAmerica Laboratories, Inc.


for Danielle Fougere
Project Manager

January 13, 2009

Case Narrative

Enclosed is the report for one sample received at TestAmerica Laboratories, Inc. – Denver laboratory on January 7, 2009. The results included in this report relate only to the samples in this report and have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

This report may include reporting limits (RLs) less than the Denver laboratory's standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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Quality Control Summary for Lot D8L240209

Sample Receiving

The cooler temperature for the sample received on January 7, 2009 at the Denver laboratory was 0.3°C. All sample containers were received in acceptable condition.

Total Mercury –Method 245.1

No anomalies were observed.

Dissolved Mercury –Method 245.1

No anomalies were observed.

Quality Control Definitions of Qualifiers

Qualifier	Definition
U	Result is less than the method detection limit (MDL).
B	Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level. Inorganics: Estimated result. Result is less than the RL
J	Organics: Estimated result. Result is less than RL Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.
E	Estimated result. Result concentrations exceed the calibration range.
p	Relative Percent Difference (RPD) is outside control limits.
*	Surrogate or Relative Percent Difference (RPD) is outside control limits.
DIL	The concentration is estimated or not reported due to dilution.
COL	More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.
CHI	More than 40% difference between the primary and confirmation detector results. The higher of the two results is reported.
L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
a	Spiked analyte recovery is outside stated control limits.
N	Spiked analyte recovery is outside stated control limits.
NC	The recovery and/or RPD were not calculated.
MSB	The recovery and/or RPD were not calculated because the sample amount was greater than four times the spike amount.

SUBCONTRACT ORDER

0.3%
1/14/09
EX

TestAmerica Irvine
ISA0133

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 Denver
4955 Yarrow Street
Arvada, CO 80002
Phone : (303) 736-0100
Fax: (303) 431-7171
Project Location: CA - CALIFORNIA
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ISA0133-01	Water					
						Sampled: 01/05/09 12:45
Level 4 + EDD-OUT		01/14/09	02/02/09 12:45	\$0.00	0%	Sub Denver, transfer file EDD
Mercury - 245.1, Diss -OUT		01/14/09	02/02/09 12:45	\$36.00	0%	Denver, Boeing, J flags
Mercury - 245.1-OUT		01/14/09	02/02/09 12:45	\$36.00	0%	Denver, Boeing, permit, J flags,
<i>Containers Supplied:</i>						
1 L Poly w/HNO3 (B)	125 mL Poly (M)					

Released By: [Signature] Date/Time: 1/6/09 12:00

Received By: FedEx Date/Time: 1/6/09 17:00

Released By: _____ Date/Time: _____

Received By: [Signature] Date/Time: 1/6/09 09:00

TestAmerica Denver
Sample Receiving Checklist

Lot #: D9A070161 Date/Time Received: 1/7/09 0900

Company Name & Sampling Site: TAC Irvine/Beig

PM to Complete This Section: Yes No
Residual chlorine check required: Quarantined:

Quote #:

Special Instructions:

72743

analytical 1/13/09
Report 1/14/09

Time Zone:

• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 0.3

N/A Yes No

Initials

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR. H
- 2. Coolers scanned for radiation. Is the reading \leq to background levels? Yes: No:
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative HCl 4±2°C Sodium Thiosulfate Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

EXECUTIVE SUMMARY - Detection Highlights

D9A070161

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
NO DETECTABLE PARAMETERS				

METHODS SUMMARY

D9A070161

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Dissolved Mercury (CVAA)	MCAWW 245.1	MCAWW 245.1
Mercury (Manual Cold Vapor Technique)	MCAWW 245.1	MCAWW 245.1

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

METHOD / ANALYST SUMMARY

D9A070161

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
MCAWW 245.1	Christopher Gridale	9582

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

D9A070161

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K5H12	001	ISA0133-01	01/05/09	12:45

NOTE (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.

QC DATA ASSOCIATION SUMMARY

D9A070161

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	MCAWW 245.1		9009232	9009132
	WATER	MCAWW 245.1		9009255	9009139

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Total Metals

Lot ID: D9A070161

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 9009232

Total Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine SDG No.: D9A070161
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>ISA0133-01</u>	<u>D9A070161-001</u>
<u>ISA0133-01 MS</u>	<u>D9A070161-001S</u>
<u>ISA0133-01 MSD</u>	<u>D9A070161-001SD</u>

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Janice Collins Name: Janice Collins
Date: 11/13/09 Title: Metals Analyst

TestAmerica Irvine

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009232
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID: ISA0133-01
Lab Sample ID: D9A070161-001
Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:18
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	7.000	7.057	100.8	5.000	4.975	99.5	5.015	100.3	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury				5.000	5.097	101.9			CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Total Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9A070161

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.19100	95.5					

Comments:

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009232
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9A090000-232B
Lab WorkOrder: K5MKG
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:14
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

Total Metals Analysis

-3-

BLANKS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	2	3	C	C	C		
Mercury	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	0.027 U	CV	

Comments:

TestAmerica Irvine

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009232
MS Sample Aliquot: 10 mL
MS Dilution Factor: 1

Client Sample ID: ISA0133-01
MS Lab Sample ID: D9A070161-001S
MS Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:21
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	4.98		100		90 - 110

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009232
MSD Sample Aliquot: 10 mL
MSD Dilution Factor: 1

Client Sample ID: ISA0133-01
MSD Lab Sample ID: D9A070161-001D
MSD Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:23
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Mercury	5.00	0.027	U	4.93		99		1.0		90 - 110	10

Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009232
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9A090000-232C
Lab WorkOrder: K5MKG
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:16
Instrument ID: 023

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	4.99	100		90 - 110

Total Metals Analysis

-10-

DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

ICP ID Number: _____ Date: 12/26/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: _____

Total Metals Analysis

-13-

PREPARATION LOG

Contract: TestAmerica Irvine
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161
Method: CV Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
ISA0133-01	1/12/2009	10.0	10.0
ISA0133-01 MS	1/12/2009	10.0	10.0
ISA0133-01 MSD	1/12/2009	10.0	10.0
MB9009232	1/12/2009	10.0	10.0
Check Sample	1/12/2009	10.0	10.0

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Dissolved Metals

Lot ID: D9A070161

Client: TestAmerica Irvine

Method: 245.1

Associated Samples: 001

Batch: 9009255

Dissolved Metals Analysis
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine SDG No.: D9A070161
Lab Code: _____ Case No.: _____ SAS No.: _____
SOW No.: _____

<u>Sample ID.</u>	<u>Lab Sample No.</u>
<u>ISA0133-01</u>	<u>D9A070161-001</u>
<u>ISA0133-01 MS</u>	<u>D9A070161-001S</u>
<u>ISA0133-01 MSD</u>	<u>D9A070161-001SD</u>

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Janice Collins Name: Janice Collins
Date: 1/13/09 Title: Metals Analyst

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009255
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID: ISA0133-01
Lab Sample ID: D9A070161-001
Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 18:58
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

Dissolved Metals Analysis

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Mercury	7.000	7.057	100.8	5.000	4.975	99.5	5.015	100.3	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals Analysis
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9A070161

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: _____

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.19100	95.5					

Comments:

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture:
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009255
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9A090000-255B
Lab WorkOrder: K5MLH
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 18:53
Instrument ID: 023

CAS No.	Analyte	Conc.	MDL	RL	Q
7439-97-6	Mercury	0.027	0.027	0.20	U

Dissolved Metals Analysis

-3-

BLANKS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	M
		1	2	3					
Mercury	0.027 U	0.027 U	0.027 U				0.027 U	CV	

Comments:

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009255
MS Sample Aliquot: 10 mL
MS Dilution Factor: 1

Client Sample ID: ISA0133-01
MS Lab Sample ID: D9A070161-001S
MS Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:00
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MS Result	C	% Rec	Q	QC Limit
Mercury	5.00	0.027	U	4.91		98		90 - 110

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009255
MSD Sample Aliquot: 10 mL
MSD Dilution Factor: 1

Client Sample ID: ISA0133-01
MSD Lab Sample ID: D9A070161-001D
MSD Lab WorkOrder: K5H12
Date/Time Collected: 01/05/09 12:45
Date/Time Received: 01/07/09 09:00
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 19:02
Instrument ID: 023

Analyte	Spike Amount	Sample Result	C	MSD Result	C	% Rec	Q	RPD	Q	QC Limits	
										% Rec	RPD
Mercury	5.00	0.027	U	5.00		100		1.7		90 - 110	10

TestAmerica Irvine

Dissolved Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER
Lot/SDG Number: D9A070161
Matrix: WATER
% Moisture: N/A
Basis: Wet
Analysis Method: 245.1
Unit: ug/L
QC Batch ID: 9009255
Sample Aliquot: 10 mL
Dilution Factor: 1

Client Sample ID:
Lab Sample ID: D9A090000-255C
Lab WorkOrder: K5MLH
Date/Time Collected:
Date/Time Received:
Date Leached:
Date/Time Extracted: 01/12/09 14:15
Date/Time Analyzed: 01/12/09 18:55
Instrument ID: 023

Analyte	True	Found	%Rec	Q	Limits
Mercury	5.00	5.10	102		90 - 110

Dissolved Metals Analysis

-10-

DETECTION LIMITS

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

ICP ID Number: _____ Date: 12/26/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	PQL (ug/L)	MDL (ug/L)	M
Mercury	253.70		0.20	0.027	CV

Comments: _____

Dissolved Metals Analysis

-13-

PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: D9A070161

Method: CV Prep Method: _____

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
ISA0133-01	1/12/2009	10.0	10.0
ISA0133-01 MS	1/12/2009	10.0	10.0
ISA0133-01 MSD	1/12/2009	10.0	10.0
MB9009255	1/12/2009	10.0	10.0
Check Sample	1/12/2009	10.0	10.0

Comments:

Dissolved Metals Analysis

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D9A070161
 Instrument ID Number: Cetac M7500 Hg Method: CV
 Start Date: 1/12/2009 End Date: 1/12/2009

Sample ID.	D/F	Time	% R	Analytes																															
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N								
Cal Blank	1.00	18:19																									X								
Std1	1.00	18:22																									X								
Std2	1.00	18:24																									X								
Std3	1.00	18:26																									X								
Std4	1.00	18:29																									X								
Std5	1.00	18:31																									X								
Std6	1.00	18:33																									X								
ICB	1.00	18:42																									X								
ICV	1.00	18:44																									X								
RL	1.00	18:46																									X								
CCV	1.00	18:48																									X								
CCB	1.00	18:51																									X								
MB9009255	1.00	18:53																									X								
Check Sample	1.00	18:55																									X								
ISA0133-01	1.00	18:58																									X								
ISA0133-01 MS	1.00	19:00																									X								
ISA0133-01 MSD	1.00	19:02																									X								
CCV	1.00	19:09																									X								
CCB	1.00	19:11																									X								

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

Supporting Documentation

Sample Sequence, Instrument Printouts

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9A070161

Client: TA-Irvine (Boeing)

Batch(es) #: 9009232 + 9009255

Associated Samples: 1

I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.

Signature/Date: Christopher Spedale 11/3/09

Metals Raw Data RoadMap

<i>LotID</i>		<i>Metal</i>	<i>WorkOrder</i>	<i>Anal Date</i>	<i>TestDesc</i>	<i>Batch</i>	<i>File Id</i>	<i>Instr</i>
D9A070161	1 D	HG	K5H121AG	20090112	M2451DS	9009255	090112AB	023
D9A070161	1 S	HG	K5H121AF	20090112	M2451DS	9009255	090112AB	023
D9A070161	1	HG	K5H121AC	20090112	M2451DS	9009255	090112AB	023
D9A070161	1 D	HG	K5H121AE	20090112	M2451_L	9009232	090112AB	023
D9A070161	1 S	HG	K5H121AD	20090112	M2451_L	9009232	090112AB	023
D9A070161	1	HG	K5H121AA	20090112	M2451_L	9009232	090112AB	023

Tuesday, January 13, 2009

Page 1 of 1

**METALS
PREPARATION LOGS
CVAA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SUPPLEMENTAL METALS PREP SHEET

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

Hg PREP & ANALYSIS - WATERS

SOP: DEN-MT-0015 QC Batch #: 9009255

Prep Date: 01/12/09	Prep By: CGG	Analysis Date: 01/12/09	Analyst: CGG	
Balance ID: H53865		Thermometer ID: MT 4025		
Digestion Cycles	Start Time	Temp °C	End Time	Temp °C
	14:15	93	16:15	93
Purple color persists or black ppt present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If "No", explain in Comments below.				
Digestion Tube Lot # :				
For dissolved mercury only, were samples filtered in the lab? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
One or more samples were filtered prior to analysis at the instrument. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.				
Analyst(s) Initials: <input type="text"/>				

Reagents Used

Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)
HNO ₃	JT Baker	G25032		0.25
H ₂ SO ₄	Fisher	E49F06		0.5
HCl	JT Baker	G36024		used by instrument
10% SnCl ₂	Fisher	G20637	STD-0156-09	added by instrument
NaCl / NH ₂ OH	Fisher	G28617	STD-7435-08	0.6
	Fisher	G06476		
KMnO ₄	Fisher	E8585	STD-0157-09	1.5
K ₂ S ₂ O ₈	Fisher	083661	STD-6691-08	0.8

Parent Calibration Stock Standards

	Lot #	Verification #	Exp. Date
Second Source	A2-HG02056	STD-2364-08	06/01/09
Primary Calibration	H00091	STD-1683-08	05/01/09

Standards Preparation

Final digestate volume = 10 mls

Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	7
Daily Cal Working	100 ug/L	Cal Working		1.00	7
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	7
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	7
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	7
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	7
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	24
ICAL 10	10 ug/L	Daily Cal Working		10.0	24
CCV	5 ug/L	Daily Cal Working		5.0	7
ICV Intermed	700 ug/L	ICV Stock		0.70	7
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	7
LCS	5 ug/L	Daily Cal Working		0.5	7
MS/MSD	5 ug/L	Daily Cal Working		0.5	7
RL	0.2 ug/L	Daily Cal Working		0.2	7

Second Source ICV Intermediate Stock Standard Prep

Standards Log #: STD-0111-09

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments *Dissolved - Boeing - 245.1*

I certify that all information above is correct and complete.

Signature: *Chris Giudale*

Date: *1/13/09*

REVIEWED BY: *DB*

Date: *1/13/09*

Batch Number: 9009255

TestAmerica Laboratories, Inc.
Metals Prep Log/ Batch Summary

Prepared By: CS

Prep Date: ~~01/09/09~~ 01/12/09
Due Date: 01/13/09

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D9A090000 Water	K5MLH	B 1	Due Date: SDG:	<u>10 mL</u>
D9A090000 Water	K5MLH	C 2	Due Date: SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Dissolved	3	Due Date: 01/13/09 SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Dissolved	S 4	Due Date: 01/13/09 SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Dissolved	D 5	Due Date: 01/13/09 SDG:	<u>10 mL</u>

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

SUPPLEMENTAL METALS PREP SHEET

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Denver

Hg PREP & ANALYSIS - WATERS

SOP: DEN-MT-0015 QC Batch #: 9009232

Prep Date: 01/12/09	Prep By: CGG	Analysis Date: 01/12/09	Analyst: CGG
---------------------	--------------	-------------------------	--------------

Balance ID: H53865	Thermometer ID: MT 4025
---------------------------	--------------------------------

Digestion Cycles	Start Time	Temp °C	End Time	Temp °C
	14:15	93	16:15	93

Purple color persists or black ppt present: Yes No If "No", explain in Comments below.

Digestion Tube Lot # :

For dissolved mercury only, were samples filtered in the lab? Yes No
 One or more samples were filtered prior to analysis at the instrument. Yes No
 If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.
 Analyst(s) Initials: CG

Reagents Used

Reagent	Manufacturer	Lot #	Standards Log #	Vol (mL)
HNO ₃	JT Baker	G25032		0.25
H ₂ SO ₄	Fisher	E49F06		0.5
HCl	JT Baker	G36024		used by instrument
10% SnCl ₂	Fisher	G20637	STD-0156-09	added by instrument
NaCl / NH ₂ OH	Fisher	G28617	STD-7435-08	0.6
	Fisher	G06476		
KMnO ₄	Fisher	E8585	STD-0157-09	1.5
K ₂ S ₂ O ₈	Fisher	083661	STD-6691-08	0.8

Parent Calibration Stock Standards

	Lot #	Verification #	Exp. Date
Second Source	A2-HG02056	STD-2364-08	06/01/09
Primary Calibration	H00091	STD-1683-08	05/01/09

Standards Preparation Final digestate volume = 10 mLs

Standards	Final Conc	Parent Standard	Standards Log #	Vol (mL)	Pipette
Cal Working	10 mg/L	Primary Cal	See Attached Standards Log Printouts	1.00	7
Daily Cal Working	100 ug/L	Cal Working		1.00	7
ICAL 0.2	0.2 ug/L	Daily Cal Working		0.2	7
ICAL 0.5	0.5 ug/L	Daily Cal Working		0.5	7
ICAL 1	1.0 ug/L	Daily Cal Working		1.0	7
ICAL 2	2.0 ug/L	Daily Cal Working		2.0	7
ICAL 5	5.0 ug/L	Daily Cal Working		5.0	24
ICAL 10	10 ug/L	Daily Cal Working		10.0	24
CCV	5 ug/L	Daily Cal Working		5.0	7
ICV Intermed	700 ug/L	ICV Stock		0.70	7
ICV Daily Working	7.0 ug/L	ICV Intermed		1.00	7
LCS	5 ug/L	Daily Cal Working		0.5	7
MS/MSD	5 ug/L	Daily Cal Working		0.5	7
RL	0.2 ug/L	Daily Cal Working		0.2	7

Second Source ICV Intermediate Stock Standard Prep Standards Log #: STD-0111-09

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments Total - Boeing - 245.1

I certify that all information above is correct and complete.

Signature: Chris Gindale Date: 1/13/09

REVIEWED BY: DB Date: 1/13/09

Batch Number: 9009232

TestAmerica Laboratories, Inc. Metals Prep Log/ Batch Summary

Prepared By:

Prep Date: ~~01/09/09~~ 01/12/09
Due Date: 01/13/09

<u>Lot</u>	<u>Work Order</u>			<u>Initial Weight/Volume</u>
D9A090000 Water	K5MKG	B 1	Due Date: SDG:	<u>10 mL</u>
D9A090000 Water	K5MKG	C 2	Due Date: SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Total	3	Due Date: 01/13/09 SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Total	S 4	Due Date: 01/13/09 SDG:	<u>10 mL</u>
D9A070161 Water	K5H12 Total	D 5	Due Date: 01/13/09 SDG:	<u>10 mL</u>

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

**METALS
SAMPLE DATA
CVAA**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Standards Preparation Logbook Record

Jan-13-2009

Logbook: \\Densvr06\StdsLog\metals.std

STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra)

Analyst: grisdalec

Vendor: Ultra Scientific (Metals) Lot No.: H00091 Vendor's Expiration Date: 05-01-2009
Solvent: 2% HN03
Date Prep./Opened: 04-03-2008 Date Received: 03-31-2008
Date Expires(1): 04-03-2009 (1 Year)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Mercuric Nitrate	100.00	100.00

STD2364-08, Hg Inorganic Ventures ICV 100ppm Std

Analyst: grisdalec

Vendor: Inorganic Ventures Lot No.: A2-HG02056 Vendor's Expiration Date: 06-01-2009
Solvent: 3.3%HCl
Date Prep./Opened: 05-01-2008 Date Received: 05-02-2007
Date Expires(1): 05-01-2009 (1 Year)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (mg/L)</u>
Hg	100.00	100.00

STD7331-08, 10 mg/L Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G02058 Volume (ml): 100.00
Date Prep./Opened: 12-24-2008
Date Expires(1): 01-24-2009 (1 Month)
Date Expires(2): 01-24-2009 (1 Month)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra) Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 04-03-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (mg/L)</u>
Mercuric Nitrate	100.00	10,000

STD0111-09, Hg Inorganic Ventures ICV 700ppb

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G02058
Date Prep./Opened: 01-07-2009
Date Expires(1): 01-21-2009 (2 Weeks)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD2364-08, Hg Inorganic Ventures ICV 100ppm Std Aliquot Amount (ml): 0.7000
Parent Date Expires(1): 05-01-2009 Parent Date Expires(2): 06-01-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/L)</u>
Hg	100.00	700.00

STD0189-09, 100 ppb Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 01-12-2009
Date Expires(1): 01-13-2009 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD7331-08, 10 mg/L Hg Calibration Std Aliquot Amount (ml): 1.0000
Parent Date Expires(1): 01-24-2009 Parent Date Expires(2): 01-24-2009

<u>Component</u>	<u>Initial Conc (mg/L)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	10,000	100.00

STD0190-09, Blank Daily Hg Calibration Std

Analyst: GRISDALEC

Vendor: Baker Lot No.: G17027
Solvent: 1% HN03
Date Prep./Opened: 01-12-2009
Date Expires(1): 07-12-2009 (6 Months)
Date Expires(2): 01-12-2010 (1 Year)
Date Verified: 12-31--4714 by 0 (Verification ID: -)

<u>Component</u>	<u>Initial Conc (%)</u>	<u>Final Conc (%)</u>
Nitric Acid	1.0000	1.0000

STD0191-09, 0.2 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 01-12-2009
Date Expires(1): 01-13-2009 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.2000
 Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.2000

STD0192-09, 0.5 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 01-12-2009
 Date Expires(1): 01-13-2009 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.5000
 Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	0.5000

STD0193-09, 1.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 01-12-2009
 Date Expires(1): 01-13-2009 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 1.0000
 Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	1.0000

STD0194-09, 2.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00
 Date Prep./Opened: 01-12-2009
 Date Expires(1): 01-13-2009 (1 Day)
 Date Expires(2): 05-01-2009 (None)
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 2.0000
 Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	2.0000

STD0195-09, 5.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 01-12-2009
Date Expires(1): 01-13-2009 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std
Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 5.0000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	5.0000

STD0196-09, 10.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027
Date Prep./Opened: 01-12-2009
Date Expires(1): 01-13-2009 (1 Day)
Date Expires(2): 05-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Date Consumed: 12-06-2006

Parent Std No.: STD0189-09, 100 ppb Hg Calibration Std
Parent Date Expires(1): 01-13-2009 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 10.000

<u>Component</u>	<u>Initial Conc (ug/ml)</u>	<u>Final Conc (ug/ml)</u>
Mercuric Nitrate	100.00	10.000

STD0197-09, Hg Daily ICV 7ppb Calibration Std

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G17027
Date Prep./Opened: 01-12-2009
Date Expires(1): 01-13-2009 (1 Day)
Date Expires(2): 06-01-2009 (None)
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD0111-09, Hg Inorganic Ventures ICV 700ppb
Parent Date Expires(1): 01-21-2009 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 1.0000

<u>Component</u>	<u>Initial Conc (ug/L)</u>	<u>Final Conc (ug/L)</u>
Hg	700.00	7.0000

Reviewed By: Christopher Grisdale 11/3/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 01/13/09 10:19:40

Sequence: 090112AB Date: 01/12/09 18:19

Analyst: CGG

ICV:

CALCCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
1	Cal Blank				0.00	1.0	0.00	ppb		01/12/09 18:19		<input type="checkbox"/>
2	Std1				0.20	1.0	0.20	ppb	100.0%	01/12/09 18:22		<input type="checkbox"/>
3	Std2				0.50	1.0	0.50	ppb	100.0%	01/12/09 18:24		<input type="checkbox"/>
4	Std3				1.00	1.0	1.00	ppb	100.0%	01/12/09 18:26		<input type="checkbox"/>
5	Std4				2.00	1.0	2.00	ppb	100.0%	01/12/09 18:29		<input type="checkbox"/>
6	Std5				5.00	1.0	5.00	ppb	100.0%	01/12/09 18:31		<input type="checkbox"/>
7	Std6				10.00	1.0	10.00	ppb	100.0%	01/12/09 18:33		<input type="checkbox"/>
8	ICB				-0.01	1.0	-0.01	ppb		01/12/09 18:42		<input type="checkbox"/>
9	ICV				7.06	1.0	7.06	ppb	100.8%	01/12/09 18:44		<input type="checkbox"/>
10	RL				0.19	1.0	0.19	ppb		01/12/09 18:46		<input type="checkbox"/>
11	CCV				4.97	1.0	4.97	ppb	99.5%	01/12/09 18:48		<input type="checkbox"/>
12	CCB				-0.01	1.0	-0.01	ppb		01/12/09 18:51		<input type="checkbox"/>
13	K5MLHBF	D9A090000	9009255		-0.01	1.0	-0.01	ppb		01/12/09 18:53		<input type="checkbox"/>
14	K5MLHCF	D9A090000 = 5.00	9009255		5.10	1.0	5.10	ppb	102.0%	01/12/09 18:55		<input type="checkbox"/>
15	K5H12F	D9A070161-1	9009255	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 18:58		<input type="checkbox"/>
16	K5H12SF	D9A070161-1 = 5.00	9009255	AQUEOUS	4.91	1.0	4.91	ppb		01/12/09 19:00		<input type="checkbox"/>
17	K5H12DF	D9A070161-1 = 5.00	9009255	AQUEOUS	5.00	1.0	5.00	ppb		01/12/09 19:02		<input type="checkbox"/>
18	K5H12SF	D9A070161-1 = 5.00	9009255	AQUEOUS	4.87	1.0	4.87	ppb		01/12/09 19:05	NA, verifies above	<input type="checkbox"/>
19	K5H12DF	D9A070161-1 = 5.00	9009255	AQUEOUS	4.90	1.0	4.90	ppb		01/12/09 19:07	CS 11/13/09	<input type="checkbox"/>
20	CCV				5.01	1.0	5.01	ppb	100.3%	01/12/09 19:09		<input type="checkbox"/>
21	CCB				-0.01	1.0	-0.01	ppb		01/12/09 19:11		<input type="checkbox"/>
22	K5MKGB	D9A090000	9009232		-0.00	1.0	-0.00	ppb		01/12/09 19:14		<input type="checkbox"/>
23	K5MKGC	D9A090000 = 5.00	9009232		4.99	1.0	4.99	ppb	99.7%	01/12/09 19:16		<input type="checkbox"/>
24	K5H12	D9A070161-1	9009232	AQUEOUS	-0.00	1.0	-0.00	ppb		01/12/09 19:18		<input type="checkbox"/>
25	K5H12S	D9A070161-1 = 5.00	9009232	AQUEOUS	4.98	1.0	4.98	ppb		01/12/09 19:21		<input type="checkbox"/>
26	K5H12D	D9A070161-1 = 5.00	9009232	AQUEOUS	4.93	1.0	4.93	ppb		01/12/09 19:23		<input type="checkbox"/>
27	K5H12S	D9A070161-1 = 5.00	9009232	AQUEOUS	4.87	1.0	4.87	ppb		01/12/09 19:25	NA verifies above	<input type="checkbox"/>
28	K5H12D	D9A070161-1 = 5.00	9009232	AQUEOUS	4.90	1.0	4.90	ppb		01/12/09 19:28	CS 11/13/09	<input type="checkbox"/>
29	CCV				5.10	1.0	5.10	ppb	101.9%	01/12/09 19:30		<input type="checkbox"/>
30	CCB				-0.01	1.0	-0.01	ppb		01/12/09 19:32		<input type="checkbox"/>
31	K5MLLB	D9A090000	9009224		-0.01	1.0	-0.01	ppb		01/12/09 19:35		<input type="checkbox"/>
32	K5MLLC	D9A090000 = 5.00	9009224		5.12	1.0	5.12	ppb	102.4%	01/12/09 19:37		<input type="checkbox"/>
33	K5K54	D9A080278-4	9009224	AQUEOUS	-0.00	1.0	-0.00	ppb		01/12/09 19:39		<input type="checkbox"/>
34	K5K6E	D9A080285-1	9009224	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 19:42		<input type="checkbox"/>

CS 11/13/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 01/13/09 10:19:40

Sequence: 090112AB Date: 01/12/09 18:19

Analyst: CGG

ICV:

CAL/CCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
35	K5JMQ	D9A070262-3	9009224	AQUEOUS	0.09	1.0	0.09	ppb		01/12/09 19:44		<input type="checkbox"/>
36	K5LAC	D9A080301-1	9009224	AQUEOUS	0.47	1.0	0.47	ppb		01/12/09 19:46		<input type="checkbox"/>
37	K5LACS	D9A080301-1 = 5.00	9009224	AQUEOUS	5.41	1.0	5.41	ppb		01/12/09 19:48		<input type="checkbox"/>
38	K5LACD	D9A080301-1 = 5.00	9009224	AQUEOUS	5.26	1.0	5.26	ppb		01/12/09 19:51		<input type="checkbox"/>
39	K5LAE	D9A080301-2	9009224	AQUEOUS	0.44	1.0	0.44	ppb		01/12/09 19:53		<input type="checkbox"/>
40	K5HRK	D9A070139-1	9009224	AQUEOUS	0.03	1.0	0.03	ppb		01/12/09 19:55		<input type="checkbox"/>
41	CCV	= 5.00			5.00	1.0	5.00	ppb	100.0%	01/12/09 19:58		<input type="checkbox"/>
42	CCB				-0.01	1.0	-0.01	ppb		01/12/09 20:00		<input type="checkbox"/>
43	K5HRKS	D9A070139-1 = 5.00	9009224	AQUEOUS	4.61	1.0	4.61	ppb		01/12/09 20:02		<input type="checkbox"/>
44	K5HRKD	D9A070139-1 = 5.00	9009224	AQUEOUS	4.71	1.0	4.71	ppb		01/12/09 20:05		<input type="checkbox"/>
45	K5HTD	D9A070139-2	9009224	AQUEOUS	0.01	1.0	0.01	ppb		01/12/09 20:07		<input type="checkbox"/>
46	K5J4A	D9A080142-1	9009224	AQUEOUS	0.34	1.0	0.34	ppb		01/12/09 20:09		<input type="checkbox"/>
47	K5K77	D9A080293-1	9009224	AQUEOUS	0.12	1.0	0.12	ppb		01/12/09 20:12		<input type="checkbox"/>
48	K5K6T	D9A080286-3	9009224	AQUEOUS	0.11	1.0	0.11	ppb		01/12/09 20:14		<input type="checkbox"/>
49	K5L42	D9A090180-3	9009224	AQUEOUS	-0.00	1.0	-0.00	ppb		01/12/09 20:16		<input type="checkbox"/>
50	K5NXTB	D9A120000	9012202		-0.01	1.0	-0.01	ppb		01/12/09 20:18		<input type="checkbox"/>
51	K5NXTC	D9A120000 = 5.00	9012202		5.01	1.0	5.01	ppb	100.2%	01/12/09 20:21		<input type="checkbox"/>
52	K5MQW	D9A090280-3	9012202	AQUEOUS	0.01	1.0	0.01	ppb		01/12/09 20:23		<input type="checkbox"/>
53	CCV	= 5.00			5.04	1.0	5.04	ppb	100.8%	01/12/09 20:25		<input type="checkbox"/>
54	CCB				-0.01	1.0	-0.01	ppb		01/12/09 20:28		<input type="checkbox"/>
55	K5MQWS	D9A090280-3 = 5.00	9012202	AQUEOUS	5.04	1.0	5.04	ppb		01/12/09 20:30		<input type="checkbox"/>
56	K5MQWD	D9A090280-3 = 5.00	9012202	AQUEOUS	5.06	1.0	5.06	ppb		01/12/09 20:32		<input type="checkbox"/>
57	K5MQ0	D9A090280-5	9012202	AQUEOUS	0.01	1.0	0.01	ppb		01/12/09 20:35		<input type="checkbox"/>
58	K5MQ2	D9A090280-7	9012202	AQUEOUS	0.02	1.0	0.02	ppb		01/12/09 20:37		<input type="checkbox"/>
59	K5MQ4	D9A090280-8	9012202	AQUEOUS	0.01	1.0	0.01	ppb		01/12/09 20:39		<input type="checkbox"/>
60	K5MQ6	D9A090280-9	9012202	AQUEOUS	0.01	1.0	0.01	ppb		01/12/09 20:42		<input type="checkbox"/>
61	K5M50	D9A100141-1	9012202	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 20:44		<input type="checkbox"/>
62	K5NT2	D9A120123-1	9012202	AQUEOUS	-0.00	1.0	-0.01	ppb		01/12/09 20:46		<input type="checkbox"/>
63	K5NT7	D9A120123-2	9012202	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 20:48		<input type="checkbox"/>
64	K5MKTB	D9A090000	9009248		-0.01	1.0	-0.01	ppb		01/12/09 20:51		<input type="checkbox"/>
65	CCV	= 5.00			5.11	1.0	5.11	ppb	102.1%	01/12/09 20:53		<input type="checkbox"/>
66	CCB				-0.01	1.0	-0.01	ppb		01/12/09 20:55		<input type="checkbox"/>
67	K5MKTC	D9A090000 = 5.00	9009248		5.11	1.0	5.11	ppb	102.3%	01/12/09 20:58		<input type="checkbox"/>
68	K5MKTL	D9A090000 = 5.00	9009248		5.09	1.0	5.09	ppb	101.8%	01/12/09 21:00		<input type="checkbox"/>

Jos 11/3/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 01/13/09 10:19:40

Sequence: 090112AB Date: 01/12/09 18:19

Analyst: CGG

ICV: _____

CALCCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
69	K5KD6	D9A080163-22	9009248	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:02		<input type="checkbox"/>
70	K5KE0	D9A080163-23	9009248	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:05		<input type="checkbox"/>
71	K5KE8	D9A080163-24	9009248	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:07		<input type="checkbox"/>
72	K5MLPBF	D9A090000	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:09		<input type="checkbox"/>
73	K5MLPCF	D9A090000 = 5.00	9009262	AQUEOUS	5.07	1.0	5.07	ppb	101.4%	01/12/09 21:12		<input type="checkbox"/>
74	K5H4PF	D9A070171-1	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:14		<input type="checkbox"/>
75	K5H4PSF	D9A070171-1 = 5.00	9009262	AQUEOUS	5.14	1.0	5.14	ppb		01/12/09 21:16		<input type="checkbox"/>
76	K5H4PDF	D9A070171-1 = 5.00	9009262	AQUEOUS	5.05	1.0	5.05	ppb		01/12/09 21:18		<input type="checkbox"/>
77	CCV	= 5.00			5.09	1.0	5.09	ppb	101.7%	01/12/09 21:21		<input type="checkbox"/>
78	CCB				-0.01	1.0	-0.01	ppb		01/12/09 21:23		<input type="checkbox"/>
79	K5H4WF	D9A070171-2	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:25		<input type="checkbox"/>
80	K5H4XF	D9A070171-3	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:28		<input type="checkbox"/>
81	K5H40F	D9A070171-4	9009262	AQUEOUS	0.03	1.0	0.03	ppb		01/12/09 21:30		<input type="checkbox"/>
82	K5H42F	D9A070171-5	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:32		<input type="checkbox"/>
83	K5H43F	D9A070171-6	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:35		<input type="checkbox"/>
84	K5I64F	D9A080155-1	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:37		<input type="checkbox"/>
85	K5I7CF	D9A080155-2	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:39		<input type="checkbox"/>
86	K5I7EF	D9A080155-3	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:41		<input type="checkbox"/>
87	K5I7FF	D9A080155-4	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:44		<input type="checkbox"/>
88	K5L3XF	D9A090172-1	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:46		<input type="checkbox"/>
89	CCV	= 5.00			5.07	1.0	5.07	ppb	101.5%	01/12/09 21:48		<input type="checkbox"/>
90	CCB				-0.01	1.0	-0.01	ppb		01/12/09 21:51		<input type="checkbox"/>
91	K5L4CF	D9A090172-2	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:53		<input type="checkbox"/>
92	K5L4EF	D9A090172-3	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:55		<input type="checkbox"/>
93	K5L4HF	D9A090172-4	9009262	AQUEOUS	-0.01	1.0	-0.01	ppb		01/12/09 21:58		<input type="checkbox"/>
94	K5K6WBT	D9A080000	9009281		-0.01	1.0	-0.01	ppb		01/12/09 22:00		<input type="checkbox"/>
95	K5MM3CT	D9A090000 = 5.00	9009281		5.23	1.0	5.23	ppb	104.7%	01/12/09 22:02		<input type="checkbox"/>
96	K5H4BT	D9A070150-1	9009281	LEACHATE	7.26	1.0	7.26	ppb		01/12/09 22:05		<input type="checkbox"/>
97	K5H4ST	D9A070150-1 = 5.00	9009281	LEACHATE	12.40	1.0	12.40	ppb		01/12/09 22:07		<input type="checkbox"/>
98	K5H4ST 10X	D9A070150-1 = 5.00	9009281	LEACHATE	1.12	10.0	11.20	ppb		01/12/09 22:12		<input type="checkbox"/>
99	K5H4XT	D9A070150-1 = 5.00	9009281	LEACHATE	7.39	1.0	7.39	ppb		01/12/09 22:15		<input type="checkbox"/>
100	K5L4BT	D9A090000	9009282		-0.00	1.0	-0.00	ppb		01/12/09 22:17		<input type="checkbox"/>
101	K5MM9CT	D9A090000 = 5.00	9009282		5.36	1.0	5.36	ppb	107.3%	01/12/09 22:19		<input type="checkbox"/>
102	CCV	= 5.00			5.17	1.0	5.17	ppb	103.4%	01/12/09 22:21		<input type="checkbox"/>

View Page 3 of 5

NA sample MS > LRP
 50 Parent, MS, and
 dup run of 10x dil.
 CS 11/3/09
 NA Batch reprep. CS 11/3/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 01/13/09 10:19:40

Sequence: 090112AB Date: 01/12/09 18:19

Analyst: CGG

ICV:

CALCCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment
103	CCB				-0.01	1.0	-0.01	ppb		01/12/09 22:24	
104	KSKQUT	D9A090250-1	9009282	LEACHATE	-0.01	1.0	0.01	ppb		01/12/09 22:26	NA
105	KSKQST	D9A080250-1 = 5.00	9009282	LEACHATE	5.30	1.0	5.31	ppb		01/12/09 22:28	Batch Reprep
106	KSKQ9DI	D9A090250-1 = 5.00	9009282	LEACHATE	0.01	1.0	0.01	ppb		01/12/09 22:31	01/13/09
107	K5K60BT	D9A080000	9009286		-0.01	1.0	-0.01	ppb		01/12/09 22:33	
108	K5MNACT	D9A090000 = 5.00	9009286		4.98	1.0	4.98	ppb	99.6%	01/12/09 22:35	
109	K5H2T	D9A070207-1	9009286	LEACHATE	0.21	1.0	0.21	ppb		01/12/09 22:38	
110	K5H2P5T	D9A070207	9009286	LEACHATE	0.04	5.0	0.04	ppb		01/12/09 22:40	
111	K5MKXB	D9A090000	9009250		-0.01	1.0	-0.01	ppb		01/12/09 22:42	
112	K5MKXC	D9A090000 = 5.00	9009250		4.96	1.0	4.96	ppb	99.2%	01/12/09 22:45	
113	K5HX8	D9A070156-1	9009250	AQUEOUS	-0.00	1.0	-0.00	ppb		01/12/09 22:47	
114	CCV	= 5.00			5.21	1.0	5.21	ppb	104.3%	01/12/09 22:49	
115	CCB				-0.01	1.0	-0.01	ppb		01/12/09 22:51	
116	K5H1R	D9A070156-3	9009250	AQUEOUS	-0.00	1.0	-0.00	ppb		01/12/09 22:54	
117	K5H11	D9A070156-5	9009250	AQUEOUS	0.00	1.0	0.00	ppb		01/12/09 22:56	
118	K5H11P5	D9A070156	9009250	AQUEOUS	-0.01	5.0	-0.01	ppb		01/12/09 22:58	
119	K5H11S	D9A070156-5 = 5.00	9009250	AQUEOUS	5.20	1.0	5.20	ppb		01/12/09 23:01	
120	K5H11D	D9A070156-5 = 5.00	9009250	AQUEOUS	5.22	1.0	5.22	ppb		01/12/09 23:03	
121	K5MKJB	D9A090000	9009241		-0.01	1.0	-0.01	ppb		01/12/09 23:05	
122	K5MKJC	D9A090000 = 5.00	9009241		5.20	1.0	5.21	ppb	104.1%	01/12/09 23:08	
123	K5HNG	D9A070128-1	9009241	AQUEOUS	0.75	1.0	0.76	ppb		01/12/09 23:10	
124	K5HNGS	D9A070128-1 = 5.00	9009241	AQUEOUS	5.54	1.0	5.54	ppb		01/12/09 23:12	
125	K5HNGD	D9A070128-1 = 5.00	9009241	AQUEOUS	5.22	1.0	5.22	ppb		01/12/09 23:15	
126	CCV	= 5.00			5.34	1.0	5.34	ppb	106.8%	01/12/09 23:17	
127	CCB				-0.01	1.0	-0.01	ppb		01/12/09 23:19	
128	K5HNN	D9A070128-2	9009241	AQUEOUS	0.67	1.0	0.67	ppb		01/12/09 23:22	
129	K5HNP	D9A070128-3	9009241	AQUEOUS	4.44	1.0	4.44	ppb		01/12/09 23:24	
130	K5HNR	D9A070128-4	9009241	AQUEOUS	1.24	1.0	1.24	ppb		01/12/09 23:26	
131	K5HNV	D9A070128-5	9009241	AQUEOUS	2.34	1.0	2.34	ppb		01/12/09 23:29	
132	K5HTX	D9A070128-6	9009241	AQUEOUS	29.95	1.0	29.95	ppb		01/12/09 23:31	NA samples 24R
133	K5HNX 10X	D9A070128-6	9009241	AQUEOUS	3.02	10.0	30.21	ppb		01/12/09 23:37	
134	K5HTO	D9A070128-7	9009241	AQUEOUS	10.92	1.0	10.92	ppb		01/12/09 23:39	See 10X d.i. for
135	K5HNO 10X	D9A070128-7	9009241	AQUEOUS	1.12	10.0	11.19	ppb		01/12/09 23:45	
136	CCV	= 5.00			5.32	1.0	5.32	ppb	106.4%	01/12/09 23:47	both. 01/13/09

01/13/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 01/13/09 10:19:40

Sequence: 090112AB Date: 01/12/09 18:19

Analyst: CGG

ICV:

CAL/CCV:

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
137	CCB				-0.01	1.0	-0.01	ppb		01/12/09 23:49		<input type="checkbox"/>
138	KSHN3	D9A070128-8	9009241	AQUEOUS	0.90	1.0	0.91	ppb		01/12/09 23:52		<input type="checkbox"/>
139	KSHN5	D9A070128-9	9009241	AQUEOUS	15.79	1.0	15.79	ppb		01/12/09 23:54		<input type="checkbox"/>
140	KSHN5 10X	D9A070128-9	9009241	AQUEOUS	1.63	10.0	16.26	ppb		01/12/09 23:59	NA sample 72R	<input type="checkbox"/>
141	KSHN7	D9A070128-10	9009241	AQUEOUS	1.26	1.0	1.26	ppb		01/13/09 00:02	see 10x d:1.	<input type="checkbox"/>
142	KSHN8	D9A070128-11	9009241	AQUEOUS	6.46	1.0	6.46	ppb		01/13/09 00:04	cc 11/3/09	<input type="checkbox"/>
143	KSHN9	D9A070128-12	9009241	AQUEOUS	1.63	1.0	1.63	ppb		01/13/09 00:06		<input type="checkbox"/>
144	KSLAN	D9A080303-1	9009241	AQUEOUS	-0.01	1.0	-0.01	ppb		01/13/09 00:09		<input type="checkbox"/>
145	KSLAQ	D9A080303-2	9009241	AQUEOUS	-0.02	1.0	-0.02	ppb		01/13/09 00:11		<input type="checkbox"/>
146	CCV	= 5.00			5.39	1.0	5.39	ppb	107.8%	01/13/09 00:13		<input type="checkbox"/>
147	CCB				-0.01	1.0	-0.01	ppb		01/13/09 00:16		<input type="checkbox"/>
148	CCV	= 5.00			5.80	1.0	5.80	ppb	115.9%	01/13/09 08:47		<input type="checkbox"/>
149	CCB				-0.02	1.0	-0.02	ppb		01/13/09 08:49		<input type="checkbox"/>
150	KSHV8T 10X	D9A070150-1	9009281	LEACHATE	0.68	10.0	6.78	ppb		01/13/09 08:51		<input type="checkbox"/>
151	KSHV8XT 10X	D9A070150-1 = 5.00	9009281	LEACHATE	0.65	10.0	6.48	ppb		01/13/09 08:54		<input type="checkbox"/>
152	CCV	= 5.00			5.67	1.0	5.67	ppb	113.4%	01/13/09 08:56		<input type="checkbox"/>
153	CCB				-0.02	1.0	-0.02	ppb		01/13/09 08:58		<input type="checkbox"/>

Jan 11/3/09

CETAC Hg Analysis Report

Analyst: gridalec

Worksheet file: C:\Program Files\QuickTrace\Worksheets\090112AB.wsz

Date Started: 1/12/2009 4:14:06 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags	Wt.	Vol. ODF
Cal Blank	STD	01/12/09 06:19:55 pm	0.000	31	4.07	✓	1.00	1.00
Std1	STD	01/12/09 06:22:13 pm	0.200	1895	0.43	✓	1.00	1.00
Std2	STD	01/12/09 06:24:32 pm	0.500	4745	1.14	✓	1.00	1.00
Std3	STD	01/12/09 06:26:50 pm	1.000	9504	0.63	✓	1.00	1.00
Std4	STD	01/12/09 06:29:10 pm	2.000	18845	0.46	✓	1.00	1.00
Std5	STD	01/12/09 06:31:30 pm	5.000	46132	0.41	✓	1.00	1.00
Std6	STD	01/12/09 06:33:50 pm	10.000	92929	0.73	✓	1.00	1.00

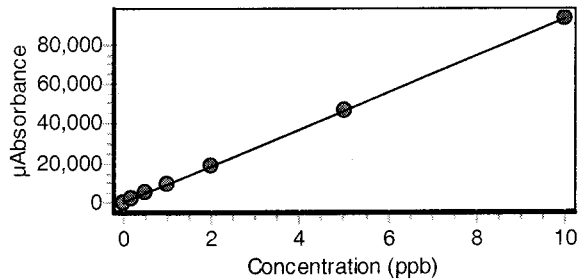
Calibration

Equation: $A = 99.465 + 9271.908C$

R2: 0.99997 ✓

SEE: 192.7931

Flags:



ICB	ICB	01/12/09 06:42:01 pm	-0.008	25	2.37	✓	1.00	1.00
ICV	ICV	01/12/09 06:44:22 pm	7.057	65535	0.83	✓	1.00	1.00
% Recovery	100.82	✓						
RL	CRDL	01/12/09 06:46:39 pm	0.191	1873	0.28	✓	1.00	1.00
% Recovery	95.65	✓						

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
CCV % Recovery 99.51 ✓	CCV	01/12/09 06:48:59 pm	4.975 ✓	46230	0.48		1.00	1.00
CCB	CCB	01/12/09 06:51:17 pm	-0.010 ✓	6	101.47		1.00	1.00
K5MLHB	UNK	01/12/09 06:53:34 pm	-0.009 ✓	20	16.71		1.00	1.00
K5MLHC	UNK	01/12/09 06:55:51 pm	5.099 ✓	47379	0.13		1.00	1.00
K5H12	UNK	01/12/09 06:58:09 pm	-0.007	34	12.70		1.00	1.00
K5H12S	UNK	01/12/09 07:00:27 pm	4.913 ✓	45655	0.36		1.00	1.00
K5H12D	UNK	01/12/09 07:02:45 pm	4.997 ✓	46435	1.00		1.00	1.00
K5H12S	UNK	01/12/09 07:05:03 pm	4.868	45231	0.50		1.00	1.00
<i>NA, verifies above as 1/13/09</i>								
K5H12D	UNK	01/12/09 07:07:21 pm	4.903	45556	0.59		1.00	1.00
CCV % Recovery 100.31 ✓	CCV	01/12/09 07:09:41 pm	5.015 ✓	46602	0.82		1.00	1.00
CCB	CCB	01/12/09 07:11:58 pm	-0.010 ✓	9	47.32		1.00	1.00
K5MKGB	UNK	01/12/09 07:14:17 pm	-0.004 ✓	58	15.69		1.00	1.00
K5MKGC	UNK	01/12/09 07:16:36 pm	4.987 ✓	46338	0.69		1.00	1.00
K5H12	UNK	01/12/09 07:18:55 pm	-0.004	65	6.97		1.00	1.00
K5H12S	UNK	01/12/09 07:21:14 pm	4.983	46306	0.49		1.00	1.00
K5H12D	UNK	01/12/09 07:23:34 pm	4.932	45831	0.64		1.00	1.00
K5H12S	UNK	01/12/09 07:25:53 pm	4.870	45251	0.70		1.00	1.00
<i>NA, verifies above as 1/13/09</i>								

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5H12D <i>NA, verifies about</i>	UNK	01/12/09 07:29:13 pm	4.896	45494	1.92		1.00	1.00
							1.00	1.00
CCV	CCV	01/12/09 07:30:33 pm	5.097 ✓	47355	0.60		1.00	1.00
% Recovery			101.93 ✓				1.00	
CCB	CCB	01/12/09 07:32:50 pm	-0.010 ✓	10	8.30		1.00	1.00
							1.00	
K5MJLB	UNK	01/12/09 07:35:10 pm	-0.007 ✓	30	3.08		1.00	1.00
							1.00	
K5MJLC	UNK	01/12/09 07:37:30 pm	5.122 ✓	47586	0.52		1.00	1.00
							1.00	
K5K54	UNK	01/12/09 07:39:47 pm	-0.002	81	6.44		1.00	1.00
							1.00	
K5K6E	UNK	01/12/09 07:42:04 pm	-0.006	46	9.44		1.00	1.00
							1.00	
K5JMQ	UNK	01/12/09 07:44:21 pm	0.085	887	0.56		1.00	1.00
							1.00	
K5LAC	UNK	01/12/09 07:46:38 pm	0.465	4406	1.01		1.00	1.00
							1.00	
K5LACS	UNK	01/12/09 07:48:56 pm	5.410 ✓	50257	0.66		1.00	1.00
							1.00	
K5LACD	UNK	01/12/09 07:51:14 pm	5.260 ✓	48870	0.59		1.00	1.00
							1.00	
K5LAE	UNK	01/12/09 07:53:33 pm	0.440	4183	0.56		1.00	1.00
							1.00	
K5HRK	UNK	01/12/09 07:55:51 pm	0.033	409	0.78		1.00	1.00
							1.00	
CCV	CCV	01/12/09 07:58:11 pm	5.001 ✓	46467	0.78		1.00	1.00
% Recovery			100.02 ✓				1.00	
CCB	CCB	01/12/09 08:00:29 pm	-0.009 ✓	20	17.98		1.00	1.00
							1.00	
K5HRKS	UNK	01/12/09 08:02:48 pm	4.612 ✓	42860	0.47		1.00	1.00
							1.00	
K5HRKD	UNK	01/12/09 08:05:07 pm	4.709 ✓	43763	0.52		1.00	1.00
							1.00	

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5HTD	UNK	01/12/09 08:07:26 pm	0.006	158	4.17		1.00	1.00
K5J4A	UNK	01/12/09 08:09:46 pm	0.338	3238	0.43		1.00	1.00
K5K77	UNK	01/12/09 08:12:03 pm	0.116	1172	0.73		1.00	1.00
K5K6T	UNK	01/12/09 08:14:20 pm	0.109	1110	1.71		1.00	1.00
K5L42	UNK	01/12/09 08:16:37 pm	-0.003	76	2.42		1.00	1.00
K5NXTB	UNK	01/12/09 08:18:55 pm	-0.009 ✓	17	8.72		1.00	1.00
K5NXTC	UNK	01/12/09 08:21:13 pm	5.012 ✓	46572	0.52		1.00	1.00
K5MQW	UNK	01/12/09 08:23:31 pm	0.008	172	0.64		1.00	1.00
CCV	CCV	01/12/09 08:25:51 pm	5.038 ✓	46809	0.65		1.00	1.00
% Recovery		100.75 ✓						
CCB	CCB	01/12/09 08:28:08 pm	-0.010 ✓	8	36.51		1.00	1.00
K5MQWS	UNK	01/12/09 08:30:26 pm	5.043 ✓	46856	0.57		1.00	1.00
K5MQWD	UNK	01/12/09 08:32:45 pm	5.061 ✓	47023	0.12		1.00	1.00
K5MQ0	UNK	01/12/09 08:35:04 pm	0.011	199	0.46		1.00	1.00
K5MQ2	UNK	01/12/09 08:37:23 pm	0.019	279	1.38		1.00	1.00
K5MQ4	UNK	01/12/09 08:39:43 pm	0.013	222	1.29		1.00	1.00
K5MQ6	UNK	01/12/09 08:42:03 pm	0.013	219	0.69		1.00	1.00
K5M50	UNK	01/12/09 08:44:20 pm	-0.008	24	7.26		1.00	1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5NT2	UNK	01/12/09 08:46:37 pm	-0.005	50	2.12		1.00	1.00 1.00
K5NT7	UNK	01/12/09 08:48:55 pm	-0.006	40	3.79		1.00	1.00 1.00
K5MKTB	UNK	01/12/09 08:51:12 pm	-0.007 ✓	30	2.39		1.00	1.00 1.00
CCV % Recovery 102.14 ✓	CCV	01/12/09 08:53:32 pm	5.107 ✓	47452	0.90		1.00	1.00 1.00
CCB	CCB	01/12/09 08:55:49 pm	-0.011	2	83.57		1.00	1.00 1.00
K5MKYC	UNK	01/12/09 08:58:07 pm	5.113 ✓	47507	0.74		1.00	1.00 1.00
K5MKTL	UNK	01/12/09 09:00:25 pm	5.090 ✓	47292	0.82		1.00	1.00 1.00
K5KD6	UNK	01/12/09 09:02:44 pm	-0.011	-4	79.49		1.00	1.00 1.00
K5KE0	UNK	01/12/09 09:05:03 pm	-0.010	9	43.70		1.00	1.00 1.00
K5KE8	UNK	01/12/09 09:07:22 pm	-0.008	22	7.52		1.00	1.00 1.00
K5MLPB	UNK	01/12/09 09:09:41 pm	-0.008 ✓	24	2.85		1.00	1.00 1.00
K5MLPC	UNK	01/12/09 09:12:00 pm	5.071 ✓	47118	1.00		1.00	1.00 1.00
K5H4P	UNK	01/12/09 09:14:20 pm	-0.010	9	39.98		1.00	1.00 1.00
K5H4PS	UNK	01/12/09 09:16:38 pm	5.139 ✓	47750	0.72		1.00	1.00 1.00
K5H4PD	UNK	01/12/09 09:18:55 pm	5.047 ✓	46898	0.67		1.00	1.00 1.00
CCV % Recovery 101.72 ✓	CCV	01/12/09 09:21:15 pm	5.086 ✓	47256	0.67		1.00	1.00 1.00
CCB	CCB	01/12/09 09:23:32 pm	-0.012 ✓	-9	62.68		1.00	1.00 1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5H4W	UNK	01/12/09 09:25:50 pm	-0.007	38	6.43		1.00	1.00
K5H4X	UNK	01/12/09 09:28:08 pm	-0.013	-21	23.45		1.00	1.00
K5H40	UNK	01/12/09 09:30:25 pm	0.026	341	0.84		1.00	1.00
K5H42	UNK	01/12/09 09:32:44 pm	-0.009	21	14.26		1.00	1.00
K5H43	UNK	01/12/09 09:35:02 pm	-0.008	23	4.88		1.00	1.00
K5J64	UNK	01/12/09 09:37:21 pm	-0.011	-6	24.95		1.00	1.00
K5J7C	UNK	01/12/09 09:39:40 pm	-0.009	16	34.78		1.00	1.00
K5J7E	UNK	01/12/09 09:41:59 pm	-0.009	17	24.78		1.00	1.00
K5J7F	UNK	01/12/09 09:44:18 pm	-0.012	-9	14.73		1.00	1.00
K5L3X	UNK	01/12/09 09:46:38 pm	-0.010	5	99.12		1.00	1.00
CCV	CCV	01/12/09 09:48:58 pm	5.074 ✓	47142	0.99		1.00	1.00
% Recovery	101.47 ✓							
CCB	CCB	01/12/09 09:51:15 pm	-0.010 ✓	6	40.01		1.00	1.00
K5L4C	UNK	01/12/09 09:53:33 pm	-0.013	-23	13.22		1.00	1.00
K5L4E	UNK	01/12/09 09:55:51 pm	-0.012	-10	38.63		1.00	1.00
K5L4H	UNK	01/12/09 09:58:09 pm	-0.012	-16	26.46		1.00	1.00
K5K6WB	UNK	01/12/09 10:00:27 pm	-0.006 ✓	41	14.63		1.00	1.00
K5MM3C	UNK	01/12/09 10:02:46 pm	5.233 ✓	48624	1.26		1.00	1.00

✓ 05 1/13/09

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5HV8	UNK	01/12/09 10:05:04 pm	7.258	67905	1.99		1.00	1.00 1.00
K5HV8S	UNK	01/12/09 10:07:22 pm	12.403	115104	1.19	0	1.00	1.00 1.00
K5HV8S* 10x dil.	UNK	01/12/09 10:12:41 pm	1.120	10483	0.99		1.00	1.00 10.00
K5HV8X	UNK	01/12/09 10:15:00 pm	7.388	68602	0.72		1.00	1.00 1.00
K5L41B	UNK	01/12/09 10:17:19 pm	0.003 ✓	74	1.99		1.00	1.00 1.00
NA Batch 5C prepared.								
K5MM9C	UNK	01/12/09 10:19:38 pm	5.363 ✓	49827	1.63		1.00	1.00 1.00
CCV	CCV	01/12/09 10:21:58 pm	5.17 ✓	48046	0.93		1.00	1.00 1.00
% Recovery 103.42 ✓								
CCB	CCB	01/12/09 10:24:15 pm	-0.011 ✓	0	144.61		1.00	1.00 1.00
K5K09	UNK	01/12/09 10:26:35 pm	-0.009	13	16.41		1.00	1.00 1.00
K5K09S	UNK	01/12/09 10:28:54 pm	5.305 ✓	49289	0.92		1.00	1.00 1.00
K5K09D	UNK	01/12/09 10:31:13 pm	-0.012	11	30.13		1.00	1.00 1.00
as 1/13/09								
K5K60B	UNK	01/12/09 10:33:31 pm	-0.007 ✓	38	7.20		1.00	1.00 1.00
K5MNAC	UNK	01/12/09 10:35:49 pm	4.982 ✓	46289	4.72		1.00	1.00 1.00
K5H92	UNK	01/12/09 10:38:07 pm	0.211 ✓	2054	1.26		1.00	1.00 1.00
K5H92P5	UNK	01/12/09 10:40:26 pm	0.038 ✓	449	0.94		1.00	1.00 1.00
K5MKXB	UNK	01/12/09 10:42:44 pm	-0.012 ✓	-7	75.10		1.00	1.00 1.00
K5MKXC	UNK	01/12/09 10:45:02 pm	4.959 ✓	46082	0.39		1.00	1.00 1.00

as 1/13/09

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5HX8	UNK	01/12/09 10:47:21 pm	-0.003 ✓	75	3.61		1.00	1.00 1.00
CCV % Recovery 104.25 ✓	CCV	01/12/09 10:49:41 pm	5.212 ✓	48429	0.96		1.00	1.00 1.00
CCB	CCB	01/12/09 10:51:58 pm	-0.012 ✓	-9	21.17		1.00	1.00 1.00
K5H1R	UNK	01/12/09 10:54:17 pm	-0.002	85	3.49		1.00	1.00 1.00
K5H11	UNK	01/12/09 10:56:36 pm	0.001 ✓	106	1.84		1.00	1.00 1.00
K5H11P5	UNK	01/12/09 10:58:56 pm	-0.009 ✓	17	25.51		1.00	1.00 1.00
K5H11S	UNK	01/12/09 11:01:16 pm	5.203 ✓	48338	1.05		1.00	1.00 1.00
K5H11D	UNK	01/12/09 11:03:34 pm	5.224 ✓	48532	0.93		1.00	1.00 1.00
K5MKJB	UNK	01/12/09 11:05:53 pm	-0.015 ✓	-41	10.45		1.00	1.00 1.00
K5MKJC	UNK	01/12/09 11:08:11 pm	5.205 ✓	48359	0.92		1.00	1.00 1.00
K5HNG	UNK	01/12/09 11:10:30 pm	0.755	7101	1.25		1.00	1.00 1.00
K5HNGS	UNK	01/12/09 11:12:48 pm	5.543 ✓	51497	1.29		1.00	1.00 1.00
K5HNGD	UNK	01/12/09 11:15:07 pm	5.216 ✓	48460	1.50		1.00	1.00 1.00
CCV % Recovery 106.79 ✓	CCV	01/12/09 11:17:27 pm	5.339 ✓	49606	1.06		1.00	1.00 1.00
CCB	CCB	01/12/09 11:19:44 pm	-0.014 ✓	-27	6.92		1.00	1.00 1.00
K5HNN	UNK	01/12/09 11:22:03 pm	0.670	6308	2.49		1.00	1.00 1.00
K5HNP	UNK	01/12/09 11:24:21 pm	4.441	41280	1.23		1.00	1.00 1.00

Sample Name	Type	Date/Time	Conc (ppb)	μAbs	%RSD	Flags	Wt.	Vol. ODF
K5HNR	UNK	01/12/09 11:26:40 pm	1.240	11600	0.96		1.00	1.00 1.00
K5NHV	UNK	01/12/09 11:29:00 pm	2.337	21768	1.43		1.00	1.00 1.00
K5HNX	UNK	01/12/09 11:31:19 pm	29.948	277772	0.61	O	1.00	1.00 1.00
<i>Na, sample 7LR see 10x dil. 01/13/09</i>								
K5HNX* 10x dil.	UNK	01/12/09 11:37:03 pm	3.021	28107	1.29		1.00	1.00 10.00
K5HNO	UNK	01/12/09 11:39:23 pm	10.921	101354	0.99	O	1.00	1.00 1.00
<i>NA sample 7LR see 10x dil. 01/13/09</i>								
K5HNO* 10x dil.	UNK	01/12/09 11:45:06 pm	1.118	10470	1.43		1.00	1.00 10.00
CCV	CCV	01/12/09 11:47:26 pm	5.319 ✓	49418	0.76		1.00	1.00 1.00
% Recovery 106.38 ✓								
CCB	CCB	01/12/09 11:49:43 pm	-0.011 ✓	-3	138.48		1.00	1.00 1.00
-K5HN3	UNK	01/12/09 11:52:02 pm	0.905	8492	0.90		1.00	1.00 1.00
K5HN5	UNK	01/12/09 11:54:21 pm	15.780	145945	1.20	O	1.00	1.00 1.00
<i>NA, sample 7LR see 10x dil. 01/13/09</i>								
K5HN5* 10x dil.	UNK	01/12/09 11:59:53 pm	1.626	15174	1.49		1.00	1.00 10.00
K5HN7	UNK	01/13/09 12:02:12 am	1.262	11796	1.71		1.00	1.00 1.00
K5HN8	UNK	01/13/09 12:04:31 am	6.460	59992	1.15		1.00	1.00 1.00
K5NH9	UNK	01/13/09 12:06:50 am	1.628	15193	0.69		1.00	1.00 1.00
K5LAN	UNK	01/13/09 12:09:09 am	-0.015	-40	6.33		1.00	1.00 1.00
K5LAQ	UNK	01/13/09 12:11:28 am	-0.016	-46	9.67		1.00	1.00 1.00
CCV	CCV	01/13/09 12:13:48 am	5.389 ✓	50071	0.92		1.00	1.00 1.00
% Recovery 107.79 ✓								

Sample Name	Type	Date/Time	Conc (ppb)	μ Abs	%RSD	Flags	Wt.	Vol.
							ODF	
CCB	CCB	01/13/09 12:16:05 am	-0.013 ✓	-22	10.48		1.00 1.00	1.00
CCV % Recovery 115.91 ✓	CCV	01/13/09 08:47:09 am	5.795 ✓	53834	1.28		1.00 1.00	1.00
CCB	CCB	01/13/09 08:49:26 am	-0.016	-50	7.74		1.00 1.00	1.00
K5HV8 10X ✓	UNK	01/13/09 08:51:44 am	0.678 ✓	6385	1.61		1.00 1.00	1.00
K5HV8X 10X ✓	UNK	01/13/09 08:54:03 am	0.648 ✓	6111	1.62		1.00 1.00	1.00
CCV % Recovery 113.42 ✓	CCV	01/13/09 08:56:23 am	5.671 ✓	52682	1.15		1.00 1.00	1.00
CCB	CCB	01/13/09 08:58:40 am	-0.017 ✓	-58	8.48		1.00 1.00	1.00

Analysis Parameters

Instrument

Conditions

Gas flow (mL/min)	Sample Uptake (s)	Rinse (s)	Read delay (s)	Replicates (#)	Replicate time (s)	Pump speed (%)	Wavelength (nm)
100	40.00	90.00	50.00	4	1.50	50	253.65

Instrumental Zero

Zero before first sample: No

Zero periodically: Yes

Before each calibration.

Baseline Correction

#1 Start time (s)	#1 End time (s)	#2 Start time (s)	#2 End time (s)
25.00	29.00		

Standby Mode

Enabled: Yes

Standby Options: pump slow

Autodilution

Enabled: No

Condition:

Tube # range:

If no autodilution tubes remaining

Calibration

Settings

Algorithm	Through blank	Weighted fit	Cal. Type	Racalibration rate	Reslope rate	Reslope standard
Linear	No	No	Normal	0	0	N/A

Limits

Calibration slope		Reslope		Coeff. of Determination
Lower (%)	Upper (%)	Lower (%)	Upper (%)	
20	150	75	125	0.99500

Error action: Flag and continue

QC

GLP Override: Yes

QC Tests

CCB

Concentration
(ppb)
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICB

Concentration
(ppb)
0.2000

Failure flag: Z

Error action for manually inserted QC: Stop analysis

CCV

Concentration (ppb)	Low Limit %	High Limit %
5.0000	80.0000	120.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

ICV

Concentration (ppb)	Low Limit %	High Limit %
7.0000	90.0000	110.0000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

CRDL

Concentration (ppb)	Low Limit %	High Limit %
0.2000	70.0000	130.0000

Failure flag: Y

Error action for manually inserted QC: Stop analysis



TestAmerica Laboratories, Inc.

ANALYTICAL DRAFT REPORT

PROJECT NO. BOEING NPDES

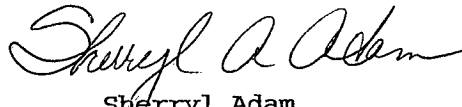
SSFL MWH-Pasadena/Boeing

Lot #: F9A070140

Joseph Doak

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

TESTAMERICA LABORATORIES, INC.



Sherryl Adam
Project Manager

February 3, 2009

NPDES - 1805

Case Narrative
LOT NUMBER: F9A070140

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on January 7, 2009. This sample is associated with your SSFL MWH-Pasadena/Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Total Uranium by Laser Phosphorimetry

Batch: 9014031

The MS (MSD) recovery for Uranium is outside the established QC limits. The said analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F9A070140 (1): ISA0133-01

H-3 by Distillation & LSC

Tritium sample aliquot was reduced due to limited sample volume availability.

Affected Samples:

F9A070140 (1): ISA0133-01

METHODS SUMMARY

F9A070140

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	EPA 903.0
Radium-228 by GFPC	EPA 904 MOD	EPA 904
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY
PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

F9A070140

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
K5HRF	001	ISA0133-01	01/05/09	12:45

NOTE (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.

TestAmerica Irvine

Client Sample ID: ISA0133-01

Radiochemistry

Lab Sample ID: F9A070140-001
 Work Order: K5HRF
 Matrix: WATER

Date Collected: 01/05/09 1245
 Date Received: 01/07/09 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD							
Cesium 137	1.4	U	7.2	20.0	13	01/09/09	01/14/09
Potassium 40	-70	U	460		270	01/09/09	01/14/09
Gross Alpha/Beta EPA 900							
Gross Alpha	3.1		1.9	3.0	2.6	01/09/09	01/11/09
Gross Beta	3.90	J	0.93	4.00	0.94	01/09/09	01/11/09
Radium 226 by EPA 903.0 MOD							
Radium (226)	0.22	J	0.12	1.00	0.15	01/07/09	01/30/09
Radium 228 by GFPC EPA 904 MOD							
Radium 228	0.008	U	0.29	1.00	0.51	01/07/09	01/30/09
TRITIUM (Distill) by EPA 906.0 MOD							
Tritium	-130	U	170	500	310	01/24/09	01/27/09
SR-90 BY GFPC EPA-905 MOD							
Strontium 90	0.24	U	0.41	3.00	0.69	01/07/09	01/17/09
Total Uranium by KPA ASTM 5174-91							
Total Uranium	1.25		0.13	0.69	0.21	01/14/09	01/20/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

TestAmerica Irvine

Client Sample ID: ISA0133-01 DUP

Radiochemistry

Lab Sample ID: F9A070140-001X
 Work Order: K5HRF
 Matrix: WATER

Date Collected: 01/05/09 1245
 Date Received: 01/07/09 0900

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gross Alpha/Beta EPA 900							
				pCi/L		Batch # 9009070	Yld %
Gross Alpha	2.8	J	1.7	3.0	2.2	01/09/09	01/12/09
Gross Beta	4.01		0.98	4.00	1.1	01/09/09	01/12/09
Gamma Cs-137 & Hits by EPA 901.1 MOD							
				pCi/L		Batch # 9009124	Yld %
Cesium 137	-1.6	U	8.4	20.0	15	01/09/09	01/14/09
Potassium 40	-100	U	1700		200	01/09/09	01/14/09
TRITIUM (Distill) by EPA 906.0 MOD							
				pCi/L		Batch # 9024094	Yld %
Tritium	-110	U	170	500	310	01/24/09	01/27/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

TestAmerica Irvine

Client Sample ID: 31005/01

Radiochemistry

Lab Sample ID: F9A090113-001
 Work Order: K5LKH
 Matrix: WATER

Date Collected: 01/06/09 1125
 Date Received: 01/08/09 0915

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Total Uranium by KPA	ASTM 5174-91			pCi/L		Batch # 9014031	Yld %
Total Uranium	11200		1300	70	20	01/14/09	01/20/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F9A070140
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
TRITIUM (Distill) by EPA 906.0 MOD Tritium	360	J	200	500	310	01/24/09	F9A240000-094B 01/27/09
SR-90 BY GFPC EPA-905 MOD Strontium 90	-0.13	U	0.38	3.00	0.69	01/07/09	F9A070000-190B 01/17/09
Radium 226 by EPA 903.0 MOD Radium (226)	0.113	U	0.087	1.00	0.12	01/07/09	F9A070000-188B 01/30/09
Radium 228 by GFPC EPA 904 MOD Radium 228	0.29	U	0.28	1.00	0.45	01/07/09	F9A070000-189B 01/30/09
Gross Alpha/Beta EPA 900 Gross Alpha Gross Beta	0.28 -0.81	U U	0.49 0.68	2.00 4.00	0.84 1.3	01/09/09 01/09/09	F9A090000-070B 01/12/09 01/12/09
Gamma Cs-137 & Hits by EPA 901.1 MOD Cesium 137 Potassium 40	1.6 -20	U U	6.7 150	20.0	12 250	01/09/09 01/09/09	F9A090000-124B 01/14/09 01/14/09
Total Uranium by KPA ASTM 5174-91 Total Uranium	0.0521	U	0.0056	0.693	0.21	01/14/09	F9A140000-031B 01/20/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only
 Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F9A070140
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Gross Alpha/Beta EPA 900							
			pCi/L	900.0 MOD			F9A090000-070C
Gross Beta	67.7	63.7	5.4	1.0		94	(73 - 122)
	Batch #:	9009070		Analysis Date:	01/12/09		
Gross Alpha/Beta EPA 900							
			pCi/L	900.0 MOD			F9A090000-070C
Gross Alpha	49.4	51.5	5.9	1.4		104	(73 - 136)
	Batch #:	9009070		Analysis Date:	01/12/09		
Gamma Cs-137 & Hits by EPA 901.1 MOD							
			pCi/L	901.1 MOD			F9A090000-124C
Americium 241	141000	136000	11000	600		97	(90 - 110)
Cesium 137	53100	51500	3000	200		97	(90 - 110)
Cobalt 60	87800	84200	4700	200		96	(90 - 110)
	Batch #:	9009124		Analysis Date:	01/14/09		
Total Uranium by KPA ASTM 5174-91							
			pCi/L	5174-91			F9A140000-031C
Total Uranium	27.7	27.7	3.7	0.2		100	(90 - 118)
	Batch #:	9014031		Analysis Date:	01/20/09		
Total Uranium by KPA ASTM 5174-91							
			pCi/L	5174-91			F9A140000-031C
Total Uranium	5.54	5.91	0.61	0.21		106	(90 - 118)
	Batch #:	9014031		Analysis Date:	01/20/09		
TRITIUM (Distill) by EPA 906.0 MOD							
			pCi/L	906.0 MOD			F9A240000-094C
Tritium	4810	4160	450	310		87	(77 - 110)
	Batch #:	9024094		Analysis Date:	01/27/09		

NOTE(S)

MDC is determined by instrument performance only
 Calculations are performed before rounding to avoid round-off error in calculated results

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F9A070140

Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	% Yld	% Rec	Lab Sample ID	
						QC Control Limits	Precision
SR-90 BY GFPC	EPA-905 MOD		pCi/L	905 MOD			F9A070000-190C
Strontium 90	6.99	8.8	1.0	54	127	(78 - 146)	
	Spk 2 6.99	9.0	1.1	44	129	(78 - 146)	2 %RPD
	Batch #:	9007190		Analysis Date:	01/17/09		
Radium 226 by	EPA 903.0 MOD		pCi/L	903.0 MOD			F9A070000-188C
Radium (226)	11.3	10.1	0.998	97	89	(52 - 150)	
	Spk 2 11.3	10.1	1.0	95	89	(52 - 150)	0.0 %RPD
	Batch #:	9007188		Analysis Date:	01/30/09		
Radium 228 by GFPC	EPA 904 MOD		pCi/L	904 MOD			F9A070000-189C
Radium 228	7.30	7.75	0.90	80	106	(64 - 140)	
	Spk 2 7.30	9.2	1.0	77	126	(64 - 140)	17 %RPD
	Batch #:	9007189		Analysis Date:	01/30/09		

NOTE(S)

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

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F9A070140
 Matrix: WATER

Date Sampled: 01/05/09
 Date Received: 01/07/09

Parameter	SAMPLE Result	Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID Precision
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F9A070140-001
Gross Alpha	3.1	1.9		2.8 J	1.7		10 %RPD
Gross Beta	3.90 J	0.93		4.01	0.98		3 %RPD
	Batch #:	9009070 (Sample)		9009070 (Duplicate)			
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	901.1 MOD			F9A070140-001
Cesium 137	1.4 U	7.2		-1.6 U	8.4		2370 %RPD
Potassium 40	-70 U	460		-100 U	1700		28 %RPD
	Batch #:	9009124 (Sample)		9009124 (Duplicate)			
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F9A070140-001
Tritium	-130 U	170		-110 U	170		20 %RPD
	Batch #:	9024094 (Sample)		9024094 (Duplicate)			

NOTE(S)

Data are incomplete without the case narrative.
 Calculations are performed before rounding to avoid round-off error in calculated results

- J Result is greater than sample detection limit but less than stated reporting limit.
- U Result is less than the sample detection limit.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F9A090113
 Matrix: WATER

Date Sampled: 01/06/09 1125
 Date Received: 01/08/09 0915

Parameter	Spike Amount	SPIKE Result	Total Uncert. (2 σ +/-)	Spike Yld	SAMPLE Result	Total Uncert. (2 σ +/-)	QC Sample ID		QC Control Limits
							% Yld	%Rec	
Total Uranium by KPA ASTM 5			pCi/L	5174-91		F9A090113-001			
Total Uranium	27.7	12000 a	1400		11200	1300	2840	a	(90 - 121)
Spk2	27.7	11900 a	1400		11200	1300	2540	a	(90 - 121)
							Precision:	0.7	%RPD
Batch #:		9014031	Analysis date:		01/20/09				

NOTE(S)

Data are incomplete without the case narrative.

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

^a Spiked analyte outside of stated QC limits.

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F9A070140
 Matrix: WATER

Date Sampled: 01/05/09
 Date Received: 01/07/09

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD			F9A070140-001	
Gross Alpha	49.4	43.2	6.3		3.1	1.9		81	(44 - 150)
	Batch #:	9009070			Analysis Date:	01/11/09			
Gross Alpha/Beta EPA 900			pCi/L		900.0 MOD			F9A070140-001	
Gross Beta	67.7	70.5	6.0		3.90	0.93		98	(66 - 147)
	Batch #:	9009070			Analysis Date:	01/12/09			
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L		906.0 MOD			F9A070140-001	
Tritium	9620	8610	750		-130	170		91	(47 - 150)
	Batch #:	9024094			Analysis Date:	01/27/09			

NOTE(S)

Data are incomplete without the case narrative.

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

CUR 76

TestAmerica Irvine
ISA0133

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 St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone : (314) 298-8566
Fax: (314) 298-8757
Project Location: CA - CALIFORNIA
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: ISA0133-01						
	Water	Sampled: 01/05/09 12:45				
Gamma Spec-O		01/14/09	01/05/10 12:45	\$250.00	0%	Out St Louis, K-40 and CS-137 only, DO NOT FILTER
Gross Alpha-O		01/14/09	07/04/09 12:45	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O		01/14/09	07/04/09 12:45	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out		01/14/09	02/02/09 12:45	\$0.00	0%	
Radium, Combined-O		01/14/09	01/05/10 12:45	\$238.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O		01/14/09	01/05/10 12:45	\$155.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O		01/14/09	01/05/10 12:45	\$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O		01/14/09	01/05/10 12:45	\$120.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
<i>Containers Supplied:</i>						
2.5 gal Poly (J)	500 mL Amber (K)					

[Signature]
Released By

1/6/09 17:00
Date/Time

Fedel
Received By

1/6/09 17:00
Date/Time

Released By

Date/Time

[Signature]
Received By

1/8/09 9:00
Date/Time

January 15, 2009

Vista Project I.D.: 31294

Mr. Joseph Doak
Test America-Irvine, CA
17461 Derian Avenue
Suite 100
Irvine, CA 92614

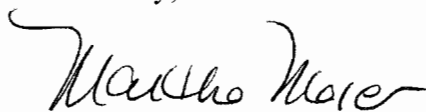
Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on January 07, 2009 under your Project Name "ISA0133". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix, which contains the chain-of-custody, a list of data qualifiers and abbreviations, Vista's current certifications, and copies of the raw data (if requested).

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,



Martha M. Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAC for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista Analytical Laboratory.



Section I: Sample Inventory Report

Date Received: 1/7/2009

Vista Lab. ID

Client Sample ID

31294-001

ISA0133-01

SECTION II

Method Blank **EPA Method 1613**

Matrix: Aqueous QC Batch No.: 1802 Lab Sample: 0-MB001
 Sample Size: 1.00 L Date Extracted: 9-Jan-09 Date Analyzed DB-5: 10-Jan-09 Date Analyzed DB-225: NA

Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000126			13C-2,3,7,8-TCDD	92.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000182			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000258			13C-1,2,3,4,7,8-HxCDD	80.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000236			13C-1,2,3,6,7,8-HxCDD	88.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000229			13C-1,2,3,4,6,7,8-HpCDD	96.3	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000187			13C-OCDD	80.4	17 - 157	
OCDD	ND	0.00000606			13C-2,3,7,8-TCDF	94.0	24 - 169	
2,3,7,8-TCDF	ND	0.000000900			13C-1,2,3,7,8-PeCDF	99.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000113			13C-2,3,4,7,8-PeCDF	103	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000124			13C-1,2,3,4,7,8-HxCDF	68.3	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000528			13C-1,2,3,6,7,8-HxCDF	71.8	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000532			13C-2,3,4,6,7,8-HxCDF	76.5	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000602			13C-1,2,3,7,8,9-HxCDF	85.3	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.000000730			13C-1,2,3,4,6,7,8-HpCDF	84.8	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.000000959			13C-1,2,3,4,7,8,9-HpCDF	88.6	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000108			13C-OCDF	82.2	17 - 157	
OCDF	ND	0.00000292			CRS 37Cl-2,3,7,8-TCDD	83.7	35 - 197	

Totals	
Total TCDD	ND
Total PeCDD	ND
Total HxCDD	ND
Total HpCDD	ND
Total TCDF	ND
Total PeCDF	ND
Total HxCDF	ND
Total HpCDF	ND

Footnotes

- a. Sample specific estimated detection limit.
- b. Estimated maximum possible concentration.
- c. Method detection limit.
- d. Lower control limit - upper control limit.

Analyst: MAS Approved By: William J. Luksemburg 15-Jan-2009 10:56

OPR Results		EPA Method 1613					
Matrix: Aqueous	QC Batch No.: 1802	Lab Sample: 0-OPR001	Date Analyzed DB-5: 10-Jan-09	Date Analyzed DB-225: NA			
Sample Size: 1.00 L	Date Extracted: 9-Jan-09						
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	10.1	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	88.4	25 - 164	
1,2,3,7,8-PeCDD	50.0	54.4	35 - 71	13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	53.6	35 - 82	13C-1,2,3,4,7,8-HxCDD	78.0	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	53.6	38 - 67	13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	54.2	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	81.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	53.0	35 - 70	13C-OCDD	66.5	17 - 157	
OCDD	100	106	78 - 144	13C-2,3,7,8-TCDF	94.1	24 - 169	
2,3,7,8-TCDF	10.0	10.9	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	101	24 - 185	
1,2,3,7,8-PeCDF	50.0	51.7	40 - 67	13C-2,3,4,7,8-PeCDF	108	21 - 178	
2,3,4,7,8-PeCDF	50.0	51.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	69.7	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	50.7	36 - 67	13C-1,2,3,6,7,8-HxCDF	72.3	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	52.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	74.9	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	51.1	35 - 78	13C-1,2,3,7,8,9-HxCDF	80.3	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.5	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	75.1	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	51.7	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	75.2	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	53.0	39 - 69	13C-OCDF	66.5	17 - 157	
OCDF	100	103	63 - 170	CRS 37Cl-2,3,7,8-TCDD	87.1	35 - 197	

Analyst: MAS

Approved By:

William J. Luksemburg 15-Jan-2009 10:56

Sample ID: ISA0133-01		EPA Method 1613					
Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	31294-001		
Project:	ISA0133	Sample Size:	1.04 L	QC Batch No.:	1802		
Date Collected:	5-Jan-09			Date Analyzed DB-5:	12-Jan-09		
Time Collected:	1245			Date Analyzed DB-225:	NA		
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000118		IS 13C-2,3,7,8-TCDD	90.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000399		13C-1,2,3,7,8-PeCDD	97.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000467		13C-1,2,3,4,7,8-HxCDD	84.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000434		13C-1,2,3,6,7,8-HxCDD	94.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000418		13C-1,2,3,4,6,7,8-HpCDD	83.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000936		13C-OCDD	67.9	17 - 157	
OCDD	0.0000602			13C-2,3,7,8-TCDF	90.3	24 - 169	
2,3,7,8-TCDF	ND	0.00000955		13C-1,2,3,7,8-PeCDF	97.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000209		13C-2,3,4,7,8-PeCDF	98.6	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000202		13C-1,2,3,4,7,8-HxCDF	76.1	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000978		13C-1,2,3,6,7,8-HxCDF	76.5	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000987		13C-2,3,4,6,7,8-HxCDF	87.0	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.0000104		13C-1,2,3,7,8,9-HxCDF	85.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000148		13C-1,2,3,4,6,7,8-HpCDF	68.4	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000581		13C-1,2,3,4,7,8,9-HpCDF	73.7	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000200		13C-OCDF	67.5	17 - 157	
OCDF	ND	0.0000137		CRS 37Cl-2,3,7,8-TCDD	85.0	35 - 197	
Totals							
Total TCDD	ND	0.00000203					
Total PeCDD	ND	0.00000399					
Total HxCDD	ND	0.00000439					
Total HpCDD	0.0000102						
Total TCDF	ND	0.00000955					
Total PeCDF	ND	0.00000205					
Total HxCDF	ND	0.00000111					
Total HpCDF	ND	0.00000591					
Footnotes							
a. Sample specific estimated detection limit.							
b. Estimated maximum possible concentration.							
c. Method detection limit.							
d. Lower control limit - upper control limit.							

Analyst: MAS

Approved By:

William J. Luksemburg 15-Jan-2009 10:56

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	Dilution
E	The amount detected is above the High Calibration Limit.
P	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical Interference
J	The amount detected is below the Low Calibration Limit.
*	See Cover Letter
Conc.	Concentration
DL	Sample-specific estimated detection limit
MDL	The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.
EMPC	Estimated Maximum Possible Concentration
NA	Not applicable
RL	Reporting Limit – concentrations that correspond to low calibration point
ND	Not Detected
TEQ	Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-2008
State of Arizona	AZ0639
State of Arkansas, DEQ	08-043-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	N/A
State of Connecticut	PH-0182
State of Florida, DEP	E87777
State of Indiana Department of Health	C-CA-02
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA08000
State of Louisiana, DEQ	01977
State of Maine	2008024
State of Michigan	9932
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	NFESC413
State of Nevada	CA004132007A
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-006
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	TN02996
State of Texas	T104704189-08-TX
U.S. Army Corps of Engineers	N/A
State of Utah	CA16400
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

SUBCONTRACT ORDER

TestAmerica Irvine
ISA0133

31294

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 673-1520
Fax: (916) 673-0106
Project Location: CA - CALIFORNIA
Receipt Temperature: 3.8 °C Ice: (Y) N

Analysis	Units	Due	Expires	Comments
Sample ID: ISA0133-01	Water		Sampled: 01/05/09 12:45	
1613-Dioxin-HR-Alta		01/14/09	01/12/09 12:45	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
Level 4 Data Package		01/14/09	02/02/09 12:45	
<i>Containers Supplied:</i>				
1 L Amber (C)	1 L Amber (D)			

Joseph Doak 1/6/09 17:00
Released By Date/Time

Feder 1/6/09 17:00
Received By Date/Time

Released By Date/Time
Project 31294

OK 1/7/09 1038
Received By Date/Time

SAMPLE LOG-IN CHECKLIST



Vista Project #: 31294 TAT unspecified

Samples Arrival:	Date/Time <u>1/7/09 0848</u>	Initials: <u>CV</u>	Location: <u>W12</u> Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>1/7/09 1038</u>	Initials: <u>CV</u>	Location: <u>W12</u> Shelf/Rack: <u>B-3</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> Cal
	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered	<input type="radio"/> Other
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
Temp °C	<u>3.8°</u>	Time: <u>0905</u>	Thermometer ID: <u>IR-1</u>

	YES	NO	NA
Adequate Sample Volume Received? <u>(A & B bottles)</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill			
Trk # <u>7962 3166 0675</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Na ₂ S ₂ O ₃ Preservation Documented?			
COC			
Sample Container			
	<input checked="" type="radio"/> Vista	<input checked="" type="radio"/> Client	<input checked="" type="radio"/> Retain
	<input type="radio"/> Return	<input type="radio"/> Dispose	

Comments:

CV 1/7/09