

APPENDIX G

Section 6

Outfall 002 - January 18 & 19, 2010

Test America Analytical Laboratory Report

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LABORATORY REPORT

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

Project: Quarterly Outfall 002

Sampled: 01/18/10-01/19/10
Received: 01/18/10
Revised: 04/02/10 14:28

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

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 31 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

- SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.
- HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.
- PRESERVATION: Samples requiring preservation were verified prior to sample analysis.
- QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.
- COMMENTS: Results that fall between the MDL and RL are 'J' flagged.
- SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.
- ADDITIONAL INFORMATION: Final revised report to provide corrected units, .pdf file of Radchem data.

LABORATORY ID	CLIENT ID	MATRIX
ITA1330-01	Outfall 002 (Grab)	Water
ITA1330-02	Outfall 002 (Composite)	Water
ITA1330-03	Trip Blanks	Water

Reviewed By:



TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002

Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-01 (Outfall 002 (Grab) - Water)								Sampled: 01/18/10	
Reporting Units: ug/l									
Benzene	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
Carbon tetrachloride	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
Chloroform	EPA 624	10A2385	0.33	0.50	ND	1	01/26/10	01/26/10	
1,1-Dichloroethane	EPA 624	10A2385	0.40	0.50	ND	1	01/26/10	01/26/10	
1,2-Dichloroethane	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
1,1-Dichloroethene	EPA 624	10A2385	0.42	0.50	ND	1	01/26/10	01/26/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10A2385	1.1	2.0	ND	1	01/26/10	01/26/10	
Ethylbenzene	EPA 624	10A2385	0.25	0.50	ND	1	01/26/10	01/26/10	
Tetrachloroethene	EPA 624	10A2385	0.32	0.50	ND	1	01/26/10	01/26/10	
Toluene	EPA 624	10A2385	0.36	0.50	ND	1	01/26/10	01/26/10	
1,1,1-Trichloroethane	EPA 624	10A2385	0.30	0.50	ND	1	01/26/10	01/26/10	
1,1,2-Trichloroethane	EPA 624	10A2385	0.30	0.50	ND	1	01/26/10	01/26/10	
Trichloroethene	EPA 624	10A2385	0.26	0.50	ND	1	01/26/10	01/26/10	
Trichlorofluoromethane	EPA 624	10A2385	0.34	0.50	ND	1	01/26/10	01/26/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10A2385	0.50	5.0	ND	1	01/26/10	01/26/10	
Vinyl chloride	EPA 624	10A2385	0.40	0.50	ND	1	01/26/10	01/26/10	
Xylenes, Total	EPA 624	10A2385	0.90	1.5	ND	1	01/26/10	01/26/10	
Cyclohexane	EPA 624	10A2385	0.40	1.0	ND	1	01/26/10	01/26/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								97 %	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								97 %	
<i>Surrogate: Toluene-d8 (80-120%)</i>								104 %	

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Project Manager

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618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002

Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-03 (Trip Blanks - Water)								Sampled: 01/18/10	
Reporting Units: ug/l									
Benzene	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
Carbon tetrachloride	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
Chloroform	EPA 624	10A2385	0.33	0.50	ND	1	01/26/10	01/26/10	
1,1-Dichloroethane	EPA 624	10A2385	0.40	0.50	ND	1	01/26/10	01/26/10	
1,2-Dichloroethane	EPA 624	10A2385	0.28	0.50	ND	1	01/26/10	01/26/10	
1,1-Dichloroethene	EPA 624	10A2385	0.42	0.50	ND	1	01/26/10	01/26/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10A2385	1.1	2.0	ND	1	01/26/10	01/26/10	
Ethylbenzene	EPA 624	10A2385	0.25	0.50	ND	1	01/26/10	01/26/10	
Tetrachloroethene	EPA 624	10A2385	0.32	0.50	ND	1	01/26/10	01/26/10	
Toluene	EPA 624	10A2385	0.36	0.50	ND	1	01/26/10	01/26/10	
1,1,1-Trichloroethane	EPA 624	10A2385	0.30	0.50	ND	1	01/26/10	01/26/10	
1,1,2-Trichloroethane	EPA 624	10A2385	0.30	0.50	ND	1	01/26/10	01/26/10	
Trichloroethene	EPA 624	10A2385	0.26	0.50	ND	1	01/26/10	01/26/10	
Trichlorofluoromethane	EPA 624	10A2385	0.34	0.50	ND	1	01/26/10	01/26/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10A2385	0.50	5.0	ND	1	01/26/10	01/26/10	
Vinyl chloride	EPA 624	10A2385	0.40	0.50	ND	1	01/26/10	01/26/10	
Xylenes, Total	EPA 624	10A2385	0.90	1.5	ND	1	01/26/10	01/26/10	
Cyclohexane	EPA 624	10A2385	0.40	1.0	ND	1	01/26/10	01/26/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>								97 %	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>								97 %	
<i>Surrogate: Toluene-d8 (80-120%)</i>								104 %	

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: ug/l									
Bis(2-ethylhexyl)phthalate	EPA 625	10A1840	1.6	4.7	ND	0.943	01/20/10	01/22/10	
2,4-Dinitrotoluene	EPA 625	10A1840	0.19	8.5	ND	0.943	01/20/10	01/22/10	
N-Nitrosodimethylamine	EPA 625	10A1840	0.094	7.5	ND	0.943	01/20/10	01/22/10	
Pentachlorophenol	EPA 625	10A1840	0.094	7.5	ND	0.943	01/20/10	01/22/10	
2,4,6-Trichlorophenol	EPA 625	10A1840	0.094	5.7	ND	0.943	01/20/10	01/22/10	
<i>Surrogate: 2,4,6-Tribromophenol (40-120%)</i>								90 %	
<i>Surrogate: 2-Fluorobiphenyl (50-120%)</i>								70 %	
<i>Surrogate: 2-Fluorophenol (30-120%)</i>								63 %	
<i>Surrogate: Nitrobenzene-d5 (45-120%)</i>								72 %	
<i>Surrogate: Phenol-d6 (35-120%)</i>								69 %	
<i>Surrogate: Terphenyl-d14 (50-125%)</i>								85 %	

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: ug/l									
alpha-BHC	EPA 608	10A1743	0.0024	0.0094	ND	0.943	01/20/10	01/26/10	
					72 %				
					58 %				

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-01 (Outfall 002 (Grab) - Water)								Sampled: 01/18/10	
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10A1946	1.3	4.8	ND	1	01/21/10	01/21/10	

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Sampled: 01/18/10-01/19/10
Received: 01/18/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: mg/l									
Barium	EPA 200.7	10A1799	0.0060	0.010	0.056	1	01/20/10	01/26/10	
Iron	EPA 200.7	10A1799	0.015	0.040	2.0	1	01/20/10	01/26/10	
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: ug/l									
Mercury	EPA 245.1	10A1830	0.10	0.20	ND	1	01/20/10	01/20/10	
Arsenic	EPA 200.8	10A1800	0.90	1.0	1.9	1	01/20/10	01/25/10	
Beryllium	EPA 200.8	10A1800	0.10	0.50	0.14	1	01/20/10	01/25/10	Ja
Cadmium	EPA 200.8	10A1800	0.10	1.0	ND	1	01/20/10	01/25/10	
Zinc	EPA 200.7	10A1799	6.0	20	14	1	01/20/10	01/26/10	Ja
Chromium	EPA 200.8	10A1800	0.90	2.0	3.3	1	01/20/10	01/25/10	
Copper	EPA 200.8	10A1800	0.50	2.0	4.4	1	01/20/10	01/25/10	
Lead	EPA 200.8	10A1800	0.20	1.0	2.0	1	01/20/10	01/25/10	
Manganese	EPA 200.8	10A1800	0.70	1.0	86	1	01/20/10	01/25/10	
Nickel	EPA 200.8	10A1800	0.50	2.0	3.3	1	01/20/10	01/25/10	
Selenium	EPA 200.8	10A1800	0.50	2.0	ND	1	01/20/10	01/25/10	

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	10A2355	0.0060	0.010	0.039	1	01/25/10	01/27/10	
Iron	EPA 200.7-Diss	10A2355	0.015	0.040	0.069	1	01/25/10	01/27/10	
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10A2023	0.10	0.20	ND	1	01/21/10	01/21/10	C
Arsenic	EPA 200.8-Diss	10A2339	0.90	1.0	ND	1	01/25/10	01/27/10	
Beryllium	EPA 200.8-Diss	10A2339	0.10	0.50	ND	1	01/25/10	01/27/10	
Cadmium	EPA 200.8-Diss	10A2339	0.10	1.0	0.19	1	01/25/10	01/27/10	Ja
Zinc	EPA 200.7-Diss	10A2355	6.0	20	ND	1	01/25/10	01/27/10	
Chromium	EPA 200.8-Diss	10A2339	0.90	2.0	ND	1	01/25/10	01/27/10	
Copper	EPA 200.8-Diss	10A2339	0.50	2.0	2.6	1	01/25/10	01/27/10	
Lead	EPA 200.8-Diss	10A2339	0.20	1.0	0.26	1	01/25/10	01/27/10	Ja
Manganese	EPA 200.8-Diss	10A2339	0.70	1.0	20	1	01/25/10	01/27/10	
Nickel	EPA 200.8-Diss	10A2339	0.50	2.0	1.3	1	01/25/10	01/27/10	Ja
Selenium	EPA 200.8-Diss	10A2339	0.50	2.0	0.65	1	01/25/10	01/27/10	Ja

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10A2181	0.50	0.50	ND	1	01/22/10	01/22/10	
Biochemical Oxygen Demand	SM5210B	10A1816	0.50	2.0	2.9	1	01/20/10	01/25/10	
Chloride	EPA 300.0	10A1647	0.25	0.50	15	1	01/19/10	01/19/10	
Nitrate-N	EPA 300.0	10A1647	0.060	0.11	0.41	1	01/19/10	01/19/10	
Nitrite-N	EPA 300.0	10A1647	0.090	0.15	ND	1	01/19/10	01/19/10	
Nitrate/Nitrite-N	EPA 300.0	10A1647	0.15	0.26	0.41	1	01/19/10	01/19/10	
Sulfate	EPA 300.0	10A1647	2.0	5.0	160	10	01/19/10	01/20/10	
Surfactants (MBAS)	SM5540-C	10A1873	0.025	0.10	0.029	1	01/20/10	01/20/10	Ja
Total Dissolved Solids	SM2540C	10A1751	1.0	10	400	1	01/20/10	01/20/10	
Total Suspended Solids	SM 2540D	10A2192	1.0	10	49	1	01/22/10	01/22/10	

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-01 (Outfall 002 (Grab) - Water)								Sampled: 01/18/10	
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10A1783	0.10	0.10	0.30	1	01/20/10	01/20/10	
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: NTU									
Turbidity	EPA 180.1	10A1822	0.20	5.0	110	5	01/20/10	01/20/10	
Sample ID: ITA1330-01 (Outfall 002 (Grab) - Water)								Sampled: 01/18/10	
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10A1691	2.2	5.0	ND	1	01/19/10	01/19/10	
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10A2275	0.90	4.0	ND	1	01/25/10	01/25/10	
Sample ID: ITA1330-01 (Outfall 002 (Grab) - Water)								Sampled: 01/18/10	
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	10A1624	1.0	1.0	91	1	01/19/10	01/19/10	

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Project ID: Quarterly Outfall 002
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Sampled: 01/18/10-01/19/10
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ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	35029	0.21	0.693	0.218	1	02/04/10	02/08/10	Jb

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Project ID: Quarterly Outfall 002
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Sampled: 01/18/10-01/19/10
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EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	25415	2.3	3	3.9	1	01/25/10	01/29/10	
Gross Beta	EPA 900.0 MOD	25415	1.8	4	9.5	1	01/25/10	01/29/10	

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Sampled: 01/18/10-01/19/10
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EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	23036	6.3	20	ND	1	01/23/10	01/26/10	U
Potassium 40	EPA 901.1 MOD	23036	290	NA	-60	1	01/23/10	01/26/10	U

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	22145	0.19	1	0.017	1	01/22/10	02/08/10	U

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MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	22148	0.95	1	0.62	1	01/22/10	02/08/10	U

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	22149	0.7	3	0.09	1	01/22/10	02/01/10	U

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)								Sampled: 01/19/10	
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	28080	140	500	36	1	01/28/10	01/29/10	U

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Date Qualifiers
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water)									Sampled: 01/19/10
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	25399	0.00001	0.000048	5.7e-005	0.96	01/25/10	01/27/10	Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	25399	0.0000015	0.000048	1.7e-005	0.96	01/25/10	01/27/10	J, Ba
2,3,7,8-TCDF	EPA-5 1613B	25399	0.000000460	0.0000096	4.4e-007	0.96	01/25/10	01/27/10	J, Q, Ba
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	25399	0.0000021	0.000048	5.1e-006	0.96	01/25/10	01/27/10	J, Ba
1,2,3,4,7,8-HxCDD	EPA-5 1613B	25399	0.0000089	0.000048	ND	0.96	01/25/10	01/27/10	
1,2,3,4,7,8-HxCDF	EPA-5 1613B	25399	0.0000078	0.000048	3.5e-006	0.96	01/25/10	01/27/10	J, Ba
1,2,3,6,7,8-HxCDD	EPA-5 1613B	25399	0.0000085	0.000048	ND	0.96	01/25/10	01/27/10	
1,2,3,6,7,8-HxCDF	EPA-5 1613B	25399	0.00000077	0.000048	3e-006	0.96	01/25/10	01/27/10	J, Ba
1,2,3,7,8,9-HxCDD	EPA-5 1613B	25399	0.0000073	0.000048	ND	0.96	01/25/10	01/27/10	
1,2,3,7,8,9-HxCDF	EPA-5 1613B	25399	0.00000087	0.000048	3.8e-006	0.96	01/25/10	01/27/10	J, Ba
1,2,3,7,8-PeCDD	EPA-5 1613B	25399	0.000003	0.000048	2.5e-006	0.96	01/25/10	01/27/10	J, Q, Ba
1,2,3,7,8-PeCDF	EPA-5 1613B	25399	0.0000006	0.000048	1.4e-006	0.96	01/25/10	01/27/10	J, Q, Ba
2,3,4,6,7,8-HxCDF	EPA-5 1613B	25399	0.00000073	0.000048	3.6e-006	0.96	01/25/10	01/27/10	J, Ba
2,3,4,7,8-PeCDF	EPA-5 1613B	25399	0.00000064	0.000048	1.9e-006	0.96	01/25/10	01/27/10	J, Q, Ba
2,3,7,8-TCDD	EPA-5 1613B	25399	0.0000015	0.000096	ND	0.96	01/25/10	01/27/10	
OCDD	EPA-5 1613B	25399	0.000006	0.000096	0.00072	0.96	01/25/10	01/27/10	Ba
OCDF	EPA-5 1613B	25399	0.0000013	0.000096	5.5e-005	0.96	01/25/10	01/27/10	J, Ba
Total HpCDD	EPA-5 1613B	25399	0.00001	0.000048	0.00011	0.96	01/25/10	01/27/10	Ba
Total HpCDF	EPA-5 1613B	25399	0.0000015	0.000048	4e-005	0.96	01/25/10	01/27/10	J, Ba
Total HxCDD	EPA-5 1613B	25399	0.0000073	0.000048	ND	0.96	01/25/10	01/27/10	
Total HxCDF	EPA-5 1613B	25399	0.00000073	0.000048	2.1e-005	0.96	01/25/10	01/27/10	J, Q, Ba
Total PeCDD	EPA-5 1613B	25399	0.000003	0.000048	2.5e-006	0.96	01/25/10	01/27/10	J, Q, Ba
Total PeCDF	EPA-5 1613B	25399	0.00000056	0.000048	3.3e-006	0.96	01/25/10	01/27/10	J, Q, Ba
Total TCDD	EPA-5 1613B	25399	0.0000015	0.000096	ND	0.96	01/25/10	01/27/10	
Total TCDF	EPA-5 1613B	25399	0.000000460	0.000096	4.4e-007	0.96	01/25/10	01/27/10	J, Q, Ba
Surrogate: 13C-2,3,7,8-TCDF (24-169%)					69 %				
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					93 %				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)					95 %				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)					92 %				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)					93 %				
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)					96 %				
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)					97 %				
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)					87 %				
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)					86 %				
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)					91 %				
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)					71 %				
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)					65 %				
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)					90 %				
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)					68 %				
Surrogate: 13C-2,3,7,8-TCDD (25-164%)					74 %				
Surrogate: 13C-OCDD (17-157%)					90 %				

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITA1330-02RE1 (Outfall 002 (Composite) - Water) - cont.								Sampled: 01/19/10	
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	25399	0.0000056	0.0000096	ND	1	01/25/10	01/29/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>					71 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>					96 %				

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Project ID: Quarterly Outfall 002

Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 002 (Grab) (ITA1330-01) - Water					
SM2540F	2	01/18/2010 13:00	01/18/2010 19:00	01/20/2010 07:34	01/20/2010 10:30
Sample ID: Outfall 002 (Composite) (ITA1330-02) - Water					
EPA 180.1	2	01/19/2010 11:56	01/18/2010 19:00	01/20/2010 14:30	01/20/2010 14:30
EPA 300.0	2	01/19/2010 11:56	01/18/2010 19:00	01/19/2010 21:45	01/19/2010 22:22
Filtration	1	01/19/2010 11:56	01/18/2010 19:00	01/20/2010 16:50	01/20/2010 16:53
SM5210B	2	01/19/2010 11:56	01/18/2010 19:00	01/20/2010 09:37	01/25/2010 10:20
SM5540-C	2	01/19/2010 11:56	01/18/2010 19:00	01/20/2010 13:35	01/20/2010 14:42

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Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A2385 Extracted: 01/26/10

Blank Analyzed: 01/26/2010 (10A2385-BLK1)

Benzene	ND	0.50	0.28	ug/l						
Carbon tetrachloride	ND	0.50	0.28	ug/l						
Chloroform	ND	0.50	0.33	ug/l						
1,1-Dichloroethane	ND	0.50	0.40	ug/l						
1,2-Dichloroethane	ND	0.50	0.28	ug/l						
1,1-Dichloroethene	ND	0.50	0.42	ug/l						
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l						
Ethylbenzene	ND	0.50	0.25	ug/l						
Tetrachloroethene	ND	0.50	0.32	ug/l						
Toluene	ND	0.50	0.36	ug/l						
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l						
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l						
Trichloroethene	ND	0.50	0.26	ug/l						
Trichlorofluoromethane	ND	0.50	0.34	ug/l						
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l						
Vinyl chloride	ND	0.50	0.40	ug/l						
Xylenes, Total	ND	1.5	0.90	ug/l						
Cyclohexane	ND	1.0	0.40	ug/l						
<i>Surrogate: 4-Bromofluorobenzene</i>	24.6			ug/l	25.0		98	80-120		
<i>Surrogate: Dibromofluoromethane</i>	24.0			ug/l	25.0		96	80-120		
<i>Surrogate: Toluene-d8</i>	26.2			ug/l	25.0		105	80-120		

LCS Analyzed: 01/26/2010 (10A2385-BS1)

Benzene	24.8	0.50	0.28	ug/l	25.0		99	70-120		
Carbon tetrachloride	25.5	0.50	0.28	ug/l	25.0		102	65-140		
Chloroform	23.8	0.50	0.33	ug/l	25.0		95	70-130		
1,1-Dichloroethane	23.3	0.50	0.40	ug/l	25.0		93	70-125		
1,2-Dichloroethane	23.9	0.50	0.28	ug/l	25.0		96	60-140		
1,1-Dichloroethene	24.4	0.50	0.42	ug/l	25.0		97	70-125		
Ethylbenzene	26.4	0.50	0.25	ug/l	25.0		105	75-125		
Tetrachloroethene	26.4	0.50	0.32	ug/l	25.0		106	70-125		
Toluene	26.0	0.50	0.36	ug/l	25.0		104	70-120		
1,1,1-Trichloroethane	24.6	0.50	0.30	ug/l	25.0		98	65-135		
1,1,2-Trichloroethane	25.0	0.50	0.30	ug/l	25.0		100	70-125		
Trichloroethene	26.1	0.50	0.26	ug/l	25.0		104	70-125		
Trichlorofluoromethane	25.0	0.50	0.34	ug/l	25.0		100	65-145		

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A2385 Extracted: 01/26/10

LCS Analyzed: 01/26/2010 (10A2385-BS1)

Vinyl chloride	19.0	0.50	0.40	ug/l	25.0	76	55-135
Xylenes, Total	81.6	1.5	0.90	ug/l	75.0	109	70-125
Surrogate: 4-Bromofluorobenzene	25.1			ug/l	25.0	100	80-120
Surrogate: Dibromofluoromethane	24.3			ug/l	25.0	97	80-120
Surrogate: Toluene-d8	26.2			ug/l	25.0	105	80-120

LCS Dup Analyzed: 01/26/2010 (10A2385-BSD1)

Benzene	25.0	0.50	0.28	ug/l	25.0	100	70-120	1	20
Carbon tetrachloride	25.8	0.50	0.28	ug/l	25.0	103	65-140	1	25
Chloroform	23.6	0.50	0.33	ug/l	25.0	94	70-130	0.8	20
1,1-Dichloroethane	23.3	0.50	0.40	ug/l	25.0	93	70-125	0.1	20
1,2-Dichloroethane	24.5	0.50	0.28	ug/l	25.0	98	60-140	2	20
1,1-Dichloroethene	24.5	0.50	0.42	ug/l	25.0	98	70-125	0.5	20
Ethylbenzene	26.8	0.50	0.25	ug/l	25.0	107	75-125	2	20
Tetrachloroethene	26.3	0.50	0.32	ug/l	25.0	105	70-125	0.3	20
Toluene	26.3	0.50	0.36	ug/l	25.0	105	70-120	1	20
1,1,1-Trichloroethane	24.5	0.50	0.30	ug/l	25.0	98	65-135	0.3	20
1,1,2-Trichloroethane	26.2	0.50	0.30	ug/l	25.0	105	70-125	4	20
Trichloroethene	26.5	0.50	0.26	ug/l	25.0	106	70-125	2	20
Trichlorofluoromethane	25.1	0.50	0.34	ug/l	25.0	101	65-145	0.4	20
Vinyl chloride	18.8	0.50	0.40	ug/l	25.0	75	55-135	1	30
Xylenes, Total	83.3	1.5	0.90	ug/l	75.0	111	70-125	2	20
Surrogate: 4-Bromofluorobenzene	25.4			ug/l	25.0	101	80-120		
Surrogate: Dibromofluoromethane	24.2			ug/l	25.0	97	80-120		
Surrogate: Toluene-d8	26.1			ug/l	25.0	104	80-120		

Matrix Spike Analyzed: 01/26/2010 (10A2385-MS1)

Source: ITA1330-01

Benzene	25.1	0.50	0.28	ug/l	25.0	ND	101	65-125
Carbon tetrachloride	25.0	0.50	0.28	ug/l	25.0	ND	100	65-140
Chloroform	24.7	0.50	0.33	ug/l	25.0	ND	99	65-135
1,1-Dichloroethane	24.6	0.50	0.40	ug/l	25.0	ND	99	65-130
1,2-Dichloroethane	25.2	0.50	0.28	ug/l	25.0	ND	101	60-140
1,1-Dichloroethene	25.3	0.50	0.42	ug/l	25.0	ND	101	60-130
Ethylbenzene	27.3	0.50	0.25	ug/l	25.0	ND	109	65-130
Tetrachloroethene	26.3	0.50	0.32	ug/l	25.0	ND	105	65-130
Toluene	26.4	0.50	0.36	ug/l	25.0	ND	106	70-125

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A2385 Extracted: 01/26/10

Matrix Spike Analyzed: 01/26/2010 (10A2385-MS1)

		Source: ITA1330-01								
1,1,1-Trichloroethane	24.9	0.50	0.30	ug/l	25.0	ND	100	65-140		
1,1,2-Trichloroethane	26.6	0.50	0.30	ug/l	25.0	ND	106	65-130		
Trichloroethene	26.0	0.50	0.26	ug/l	25.0	ND	104	65-125		
Trichlorofluoromethane	26.0	0.50	0.34	ug/l	25.0	ND	104	60-145		
Vinyl chloride	20.3	0.50	0.40	ug/l	25.0	ND	81	45-140		
Xylenes, Total	84.4	1.5	0.90	ug/l	75.0	ND	113	60-130		
Surrogate: 4-Bromofluorobenzene	26.3			ug/l	25.0		105	80-120		
Surrogate: Dibromofluoromethane	25.3			ug/l	25.0		101	80-120		
Surrogate: Toluene-d8	26.0			ug/l	25.0		104	80-120		

Matrix Spike Dup Analyzed: 01/27/2010 (10A2385-MSD1)

		Source: ITA1330-01								
Benzene	22.8	0.50	0.28	ug/l	25.0	ND	91	65-125	10	20
Carbon tetrachloride	23.1	0.50	0.28	ug/l	25.0	ND	92	65-140	8	25
Chloroform	22.3	0.50	0.33	ug/l	25.0	ND	89	65-135	10	20
1,1-Dichloroethane	21.8	0.50	0.40	ug/l	25.0	ND	87	65-130	12	20
1,2-Dichloroethane	22.8	0.50	0.28	ug/l	25.0	ND	91	60-140	10	20
1,1-Dichloroethene	22.5	0.50	0.42	ug/l	25.0	ND	90	60-130	11	20
Ethylbenzene	24.0	0.50	0.25	ug/l	25.0	ND	96	65-130	13	20
Tetrachloroethene	23.5	0.50	0.32	ug/l	25.0	ND	94	65-130	11	20
Toluene	23.7	0.50	0.36	ug/l	25.0	ND	95	70-125	11	20
1,1,1-Trichloroethane	22.5	0.50	0.30	ug/l	25.0	ND	90	65-140	10	20
1,1,2-Trichloroethane	24.0	0.50	0.30	ug/l	25.0	ND	96	65-130	10	25
Trichloroethene	23.5	0.50	0.26	ug/l	25.0	ND	94	65-125	10	20
Trichlorofluoromethane	22.9	0.50	0.34	ug/l	25.0	ND	92	60-145	13	25
Vinyl chloride	17.0	0.50	0.40	ug/l	25.0	ND	68	45-140	18	30
Xylenes, Total	74.4	1.5	0.90	ug/l	75.0	ND	99	60-130	13	20
Surrogate: 4-Bromofluorobenzene	25.9			ug/l	25.0		104	80-120		
Surrogate: Dibromofluoromethane	25.4			ug/l	25.0		101	80-120		
Surrogate: Toluene-d8	26.2			ug/l	25.0		105	80-120		

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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: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1840 Extracted: 01/20/10

Blank Analyzed: 01/22/2010 (10A1840-BLK1)

Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2,4-Dinitrotoluene	ND	9.0	0.20	ug/l							
N-Nitrosodimethylamine	0.520	8.0	0.10	ug/l							Ja
Pentachlorophenol	ND	8.0	0.10	ug/l							
2,4,6-Trichlorophenol	ND	6.0	0.10	ug/l							
<i>Surrogate: 2,4,6-Tribromophenol</i>	18.6			ug/l	20.0		93	40-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	8.42			ug/l	10.0		84	50-120			
<i>Surrogate: 2-Fluorophenol</i>	15.2			ug/l	20.0		76	30-120			
<i>Surrogate: Nitrobenzene-d5</i>	8.50			ug/l	10.0		85	45-120			
<i>Surrogate: Phenol-d6</i>	15.9			ug/l	20.0		79	35-120			
<i>Surrogate: Terphenyl-d14</i>	10.5			ug/l	10.0		105	50-125			

LCS Analyzed: 01/22/2010 (10A1840-BS1)

Bis(2-ethylhexyl)phthalate	11.6	5.0	1.7	ug/l	10.0		116	65-130			
2,4-Dinitrotoluene	8.42	9.0	0.20	ug/l	10.0		84	65-120			Ja
N-Nitrosodimethylamine	7.60	8.0	0.10	ug/l	10.0		76	45-120			Ja
Pentachlorophenol	8.78	8.0	0.10	ug/l	10.0		88	50-120			
2,4,6-Trichlorophenol	8.54	6.0	0.10	ug/l	10.0		85	55-120			
<i>Surrogate: 2,4,6-Tribromophenol</i>	18.5			ug/l	20.0		92	40-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	8.06			ug/l	10.0		81	50-120			
<i>Surrogate: 2-Fluorophenol</i>	12.3			ug/l	20.0		61	30-120			
<i>Surrogate: Nitrobenzene-d5</i>	7.60			ug/l	10.0		76	45-120			
<i>Surrogate: Phenol-d6</i>	13.9			ug/l	20.0		69	35-120			
<i>Surrogate: Terphenyl-d14</i>	9.84			ug/l	10.0		98	50-125			

LCS Dup Analyzed: 01/22/2010 (10A1840-BSD1)

Bis(2-ethylhexyl)phthalate	10.4	5.0	1.7	ug/l	10.0		104	65-130	11	20	
2,4-Dinitrotoluene	7.76	9.0	0.20	ug/l	10.0		78	65-120	8	20	Ja
N-Nitrosodimethylamine	7.70	8.0	0.10	ug/l	10.0		77	45-120	1	20	Ja
Pentachlorophenol	8.30	8.0	0.10	ug/l	10.0		83	50-120	6	25	
2,4,6-Trichlorophenol	8.00	6.0	0.10	ug/l	10.0		80	55-120	7	30	
<i>Surrogate: 2,4,6-Tribromophenol</i>	17.2			ug/l	20.0		86	40-120			
<i>Surrogate: 2-Fluorobiphenyl</i>	7.54			ug/l	10.0		75	50-120			
<i>Surrogate: 2-Fluorophenol</i>	12.7			ug/l	20.0		63	30-120			
<i>Surrogate: Nitrobenzene-d5</i>	7.32			ug/l	10.0		73	45-120			
<i>Surrogate: Phenol-d6</i>	14.1			ug/l	20.0		71	35-120			

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 10A1840 Extracted: 01/20/10

LCS Dup Analyzed: 01/22/2010 (10A1840-BSD1)

Surrogate: Terphenyl-d14 8.56 ug/l 10.0 86 50-125

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A1743 Extracted: 01/20/10</u>											
Blank Analyzed: 01/26/2010 (10A1743-BLK1)											
<i>alpha-BHC</i> ND 0.010 0.0025 ug/l											
<i>Surrogate: Decachlorobiphenyl</i> 0.475 ug/l 0.500 95 45-120											
<i>Surrogate: Tetrachloro-m-xylene</i> 0.447 ug/l 0.500 89 35-115											
LCS Analyzed: 01/26/2010 (10A1743-BS1)											
<i>alpha-BHC</i> 0.432 0.010 0.0025 ug/l 0.500 86 45-115											
<i>Surrogate: Decachlorobiphenyl</i> 0.473 ug/l 0.500 95 45-120											
<i>Surrogate: Tetrachloro-m-xylene</i> 0.423 ug/l 0.500 85 35-115											
LCS Dup Analyzed: 01/26/2010 (10A1743-BSD1)											
<i>alpha-BHC</i> 0.448 0.010 0.0025 ug/l 0.500 90 45-115 3 30											
<i>Surrogate: Decachlorobiphenyl</i> 0.465 ug/l 0.500 93 45-120											
<i>Surrogate: Tetrachloro-m-xylene</i> 0.422 ug/l 0.500 84 35-115											

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A1946 Extracted: 01/21/10</u>											
Blank Analyzed: 01/21/2010 (10A1946-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	2.5	1.4	mg/l							
LCS Analyzed: 01/21/2010 (10A1946-BS1)											
Hexane Extractable Material (Oil & Grease)	20.3	5.0	1.4	mg/l	20.0		102	78-114			MNR1
LCS Dup Analyzed: 01/21/2010 (10A1946-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.3	5.0	1.4	mg/l	20.0		102	78-114	0	11	

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1799 Extracted: 01/20/10

Blank Analyzed: 01/26/2010 (10A1799-BLK1)

Barium	ND	0.010	0.0060	mg/l
Iron	ND	0.040	0.015	mg/l
Zinc	ND	20	6.0	ug/l

LCS Analyzed: 01/26/2010 (10A1799-BS1)

Barium	0.513	0.010	0.0060	mg/l	0.500		103	85-115
Iron	0.493	0.040	0.015	mg/l	0.500		99	85-115
Zinc	492	20	6.0	ug/l	500		98	85-115

Matrix Spike Analyzed: 01/26/2010 (10A1799-MS1)

Barium	0.524	0.010	0.0060	mg/l	0.500	0.0240	100	70-130
Iron	1.19	0.040	0.015	mg/l	0.500	0.718	93	70-130
Zinc	1030	20	6.0	ug/l	500	571	92	70-130

Matrix Spike Analyzed: 01/26/2010 (10A1799-MS2)

Barium	0.545	0.010	0.0060	mg/l	0.500	0.0243	104	70-130
Iron	2.08	0.040	0.015	mg/l	0.500	1.55	106	70-130
Zinc	1230	20	6.0	ug/l	500	738	98	70-130

Matrix Spike Dup Analyzed: 01/26/2010 (10A1799-MSD1)

Barium	0.541	0.010	0.0060	mg/l	0.500	0.0240	103	70-130	3	20
Iron	1.26	0.040	0.015	mg/l	0.500	0.718	107	70-130	6	20
Zinc	1060	20	6.0	ug/l	500	571	97	70-130	2	20

Batch: 10A1800 Extracted: 01/20/10

Blank Analyzed: 01/25/2010 (10A1800-BLK1)

Arsenic	ND	1.0	0.90	ug/l
Beryllium	ND	0.50	0.10	ug/l
Cadmium	ND	1.0	0.10	ug/l
Chromium	ND	2.0	0.90	ug/l
Copper	ND	2.0	0.50	ug/l
Lead	ND	1.0	0.20	ug/l
Manganese	ND	1.0	0.70	ug/l
Nickel	ND	2.0	0.50	ug/l
Selenium	ND	2.0	0.50	ug/l

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Project Manager

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1800 Extracted: 01/20/10

LCS Analyzed: 01/25/2010 (10A1800-BS1)

Arsenic	75.4	1.0	0.90	ug/l	80.0	94	85-115
Beryllium	73.0	0.50	0.10	ug/l	80.0	91	85-115
Cadmium	74.1	1.0	0.10	ug/l	80.0	93	85-115
Chromium	77.4	2.0	0.90	ug/l	80.0	97	85-115
Copper	73.8	2.0	0.50	ug/l	80.0	92	85-115
Lead	74.3	1.0	0.20	ug/l	80.0	93	85-115
Manganese	77.4	1.0	0.70	ug/l	80.0	97	85-115
Nickel	76.6	2.0	0.50	ug/l	80.0	96	85-115
Selenium	73.9	2.0	0.50	ug/l	80.0	92	85-115

Matrix Spike Analyzed: 01/25/2010 (10A1800-MS1)

Source: ITA1401-01

Arsenic	83.8	1.0	0.90	ug/l	80.0	ND	105	70-130
Beryllium	76.6	0.50	0.10	ug/l	80.0	ND	96	70-130
Cadmium	77.9	1.0	0.10	ug/l	80.0	ND	97	70-130
Chromium	86.2	2.0	0.90	ug/l	80.0	2.97	104	70-130
Copper	86.3	2.0	0.50	ug/l	80.0	6.94	99	70-130
Lead	118	1.0	0.20	ug/l	80.0	39.4	98	70-130
Manganese	113	1.0	0.70	ug/l	80.0	27.2	107	70-130
Nickel	82.8	2.0	0.50	ug/l	80.0	2.16	101	70-130
Selenium	77.8	2.0	0.50	ug/l	80.0	ND	97	70-130

Matrix Spike Analyzed: 01/25/2010 (10A1800-MS2)

Source: ITA1478-01

Arsenic	91.7	2.0	1.8	ug/l	80.0	7.42	105	70-130
Beryllium	79.2	1.0	0.20	ug/l	80.0	ND	99	70-130
Cadmium	80.5	2.0	0.20	ug/l	80.0	0.628	100	70-130
Chromium	96.0	4.0	1.8	ug/l	80.0	11.3	106	70-130
Copper	101	4.0	1.0	ug/l	80.0	19.2	102	70-130
Lead	130	2.0	0.40	ug/l	80.0	47.6	103	70-130
Manganese	201	2.0	1.4	ug/l	80.0	117	104	70-130
Nickel	91.5	4.0	1.0	ug/l	80.0	7.67	105	70-130
Selenium	81.5	4.0	1.0	ug/l	80.0	1.61	100	70-130

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Report Number: ITA1330

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Received: 01/18/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1800 Extracted: 01/20/10

Matrix Spike Dup Analyzed: 01/25/2010 (10A1800-MSD1)

	Source: ITA1401-01										
	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Arsenic	85.3	1.0	0.90	ug/l	80.0	ND	107	70-130	2	20	
Beryllium	77.5	0.50	0.10	ug/l	80.0	ND	97	70-130	1	20	
Cadmium	79.0	1.0	0.10	ug/l	80.0	ND	99	70-130	1	20	
Chromium	86.5	2.0	0.90	ug/l	80.0	2.97	104	70-130	0.4	20	
Copper	87.7	2.0	0.50	ug/l	80.0	6.94	101	70-130	2	20	
Lead	120	1.0	0.20	ug/l	80.0	39.4	101	70-130	2	20	
Manganese	115	1.0	0.70	ug/l	80.0	27.2	109	70-130	2	20	
Nickel	85.3	2.0	0.50	ug/l	80.0	2.16	104	70-130	3	20	
Selenium	79.9	2.0	0.50	ug/l	80.0	ND	100	70-130	3	20	

Batch: 10A1830 Extracted: 01/20/10

Blank Analyzed: 01/20/2010 (10A1830-BLK1)

Mercury	ND	0.20	0.10	ug/l
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LCS Analyzed: 01/20/2010 (10A1830-BS1)

Mercury	8.22	0.20	0.10	ug/l	8.00	103	85-115
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Matrix Spike Analyzed: 01/20/2010 (10A1830-MS1)

Mercury	8.18	0.20	0.10	ug/l	8.00	ND	102	70-130
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Matrix Spike Dup Analyzed: 01/20/2010 (10A1830-MSD1)

Mercury	8.18	0.20	0.10	ug/l	8.00	ND	102	70-130	0.08	20
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Attention: Bronwyn Kelly

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Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A2023 Extracted: 01/21/10</u>											
Blank Analyzed: 01/21/2010 (10A2023-BLK1)											
Mercury ND 0.20 0.10 ug/l											
LCS Analyzed: 01/21/2010 (10A2023-BS1)											
Mercury	8.84	0.20	0.10	ug/l	8.00		110	85-115			
Matrix Spike Analyzed: 01/21/2010 (10A2023-MS1)											
Mercury	8.85	0.20	0.10	ug/l	8.00	ND	111	70-130			
Matrix Spike Dup Analyzed: 01/21/2010 (10A2023-MSD1)											
Mercury	8.92	0.20	0.10	ug/l	8.00	ND	111	70-130	0.8	20	

Batch: 10A2339 Extracted: 01/25/10

Blank Analyzed: 01/27/2010 (10A2339-BLK1)

Arsenic	ND	1.0	0.90	ug/l							B
Beryllium	ND	0.50	0.10	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Chromium	2.40	2.0	0.90	ug/l							
Copper	ND	2.0	0.50	ug/l							
Lead	ND	1.0	0.20	ug/l							
Manganese	ND	1.0	0.70	ug/l							
Nickel	0.510	2.0	0.50	ug/l							Ja
Selenium	ND	2.0	0.50	ug/l							

LCS Analyzed: 01/27/2010 (10A2339-BS1)

Arsenic	75.9	1.0	0.90	ug/l	80.0		95	85-115			
Beryllium	68.8	0.50	0.10	ug/l	80.0		86	85-115			
Cadmium	70.4	1.0	0.10	ug/l	80.0		88	85-115			
Chromium	77.6	2.0	0.90	ug/l	80.0		97	85-115			
Copper	77.2	2.0	0.50	ug/l	80.0		97	85-115			
Lead	75.6	1.0	0.20	ug/l	80.0		94	85-115			
Manganese	76.4	1.0	0.70	ug/l	80.0		95	85-115			
Nickel	76.5	2.0	0.50	ug/l	80.0		96	85-115			
Selenium	71.8	2.0	0.50	ug/l	80.0		90	85-115			

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Received: 01/18/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A2339 Extracted: 01/25/10

Matrix Spike Analyzed: 01/27/2010 (10A2339-MS1)

Arsenic	79.1	1.0	0.90	ug/l	80.0	ND	99	70-130			
Beryllium	74.8	0.50	0.10	ug/l	80.0	ND	93	70-130			
Cadmium	73.7	1.0	0.10	ug/l	80.0	0.186	92	70-130			
Chromium	77.7	2.0	0.90	ug/l	80.0	ND	97	70-130			
Copper	75.9	2.0	0.50	ug/l	80.0	2.12	92	70-130			
Lead	70.1	1.0	0.20	ug/l	80.0	0.235	87	70-130			
Manganese	129	1.0	0.70	ug/l	80.0	53.4	95	70-130			
Nickel	76.1	2.0	0.50	ug/l	80.0	1.46	93	70-130			
Selenium	77.1	2.0	0.50	ug/l	80.0	ND	96	70-130			

Matrix Spike Analyzed: 01/27/2010 (10A2339-MS2)

Arsenic	77.8	1.0	0.90	ug/l	80.0	0.908	96	70-130			
Beryllium	80.9	0.50	0.10	ug/l	80.0	ND	101	70-130			
Cadmium	77.4	1.0	0.10	ug/l	80.0	0.292	96	70-130			
Chromium	77.7	2.0	0.90	ug/l	80.0	ND	97	70-130			
Copper	80.4	2.0	0.50	ug/l	80.0	3.70	96	70-130			
Lead	70.1	1.0	0.20	ug/l	80.0	0.423	87	70-130			
Manganese	86.3	1.0	0.70	ug/l	80.0	11.1	94	70-130			
Nickel	75.7	2.0	0.50	ug/l	80.0	1.69	93	70-130			
Selenium	77.5	2.0	0.50	ug/l	80.0	ND	97	70-130			

Matrix Spike Dup Analyzed: 01/27/2010 (10A2339-MSD1)

Arsenic	80.1	1.0	0.90	ug/l	80.0	ND	100	70-130	1	20	
Beryllium	77.8	0.50	0.10	ug/l	80.0	ND	97	70-130	4	20	
Cadmium	75.7	1.0	0.10	ug/l	80.0	0.186	94	70-130	3	20	
Chromium	78.5	2.0	0.90	ug/l	80.0	ND	98	70-130	1	20	
Copper	76.2	2.0	0.50	ug/l	80.0	2.12	93	70-130	0.4	20	
Lead	69.8	1.0	0.20	ug/l	80.0	0.235	87	70-130	0.4	20	
Manganese	131	1.0	0.70	ug/l	80.0	53.4	97	70-130	2	20	
Nickel	76.1	2.0	0.50	ug/l	80.0	1.46	93	70-130	0.0008	20	
Selenium	77.0	2.0	0.50	ug/l	80.0	ND	96	70-130	0.03	20	

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Attention: Bronwyn Kelly

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A2355 Extracted: 01/25/10</u>											
Blank Analyzed: 01/27/2010 (10A2355-BLK1)											
Barium ND 0.010 0.0060 mg/l											
Iron ND 0.040 0.015 mg/l											
Zinc ND 20 6.0 ug/l											
LCS Analyzed: 01/27/2010 (10A2355-BS1)											
Barium 0.519 0.010 0.0060 mg/l 0.500 104 85-115											
Iron 0.501 0.040 0.015 mg/l 0.500 100 85-115											
Zinc 493 20 6.0 ug/l 500 99 85-115											
Matrix Spike Analyzed: 01/27/2010 (10A2355-MS1)											
Barium 0.523 0.010 0.0060 mg/l 0.500 0.0149 102 70-130											
Iron 0.616 0.040 0.015 mg/l 0.500 0.114 100 70-130											
Zinc 501 20 6.0 ug/l 500 9.17 98 70-130											
Matrix Spike Analyzed: 01/27/2010 (10A2355-MS2)											
Barium 0.517 0.010 0.0060 mg/l 0.500 0.0118 101 70-130											
Iron 0.661 0.040 0.015 mg/l 0.500 0.147 103 70-130											
Zinc 500 20 6.0 ug/l 500 14.4 97 70-130											
Matrix Spike Dup Analyzed: 01/27/2010 (10A2355-MSD1)											
Barium 0.514 0.010 0.0060 mg/l 0.500 0.0149 100 70-130 2 20											
Iron 0.602 0.040 0.015 mg/l 0.500 0.114 97 70-130 2 20											
Zinc 487 20 6.0 ug/l 500 9.17 96 70-130 3 20											

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Received: 01/18/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1624 Extracted: 01/19/10

Blank Analyzed: 01/19/2010 (10A1624-BLK1)

Specific Conductance	ND	1.0	1.0	umhos/cm						
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LCS Analyzed: 01/19/2010 (10A1624-BS1)

Specific Conductance	1420	1.0	1.0	umhos/cm	1410		101	90-110		
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Duplicate Analyzed: 01/19/2010 (10A1624-DUP1)

Specific Conductance	112	1.0	1.0	umhos/cm		111			0.09	5
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Source: ITA1293-03

Batch: 10A1647 Extracted: 01/19/10

Blank Analyzed: 01/19/2010 (10A1647-BLK1)

Chloride	ND	0.50	0.25	mg/l						
Nitrate-N	ND	0.11	0.060	mg/l						
Nitrite-N	ND	0.15	0.090	mg/l						
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l						
Sulfate	ND	0.50	0.20	mg/l						

LCS Analyzed: 01/19/2010 (10A1647-BS1)

Chloride	4.93	0.50	0.25	mg/l	5.00		99	90-110		M-3
Nitrate-N	1.09	0.11	0.060	mg/l	1.13		96	90-110		
Nitrite-N	1.50	0.15	0.090	mg/l	1.52		99	90-110		
Sulfate	9.95	0.50	0.20	mg/l	10.0		100	90-110		M-3

Matrix Spike Analyzed: 01/19/2010 (10A1647-MS1)

Nitrate-N	2.15	0.11	0.060	mg/l	1.13	1.05	97	80-120		
Nitrite-N	1.77	0.15	0.090	mg/l	1.52	ND	116	80-120		

Source: ITA1426-01

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 10A1647 Extracted: 01/19/10

Matrix Spike Analyzed: 01/20/2010 (10A1647-MS2)

Chloride	67.6	5.0	2.5	mg/l	50.0	16.4	102	80-120
Nitrate-N	11.7	1.1	0.60	mg/l	11.3	0.112	102	80-120
Nitrite-N	15.9	1.5	0.90	mg/l	15.2	ND	104	80-120
Sulfate	301	5.0	2.0	mg/l	100	205	96	80-120

Matrix Spike Dup Analyzed: 01/19/2010 (10A1647-MSD1)

Nitrate-N	2.19	0.11	0.060	mg/l	1.13	1.05	101	80-120	2	20
Nitrite-N	1.80	0.15	0.090	mg/l	1.52	ND	118	80-120	2	20

Batch: 10A1691 Extracted: 01/19/10

Blank Analyzed: 01/19/2010 (10A1691-BLK1)

Total Cyanide	ND	5.0	2.2	ug/l
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LCS Analyzed: 01/19/2010 (10A1691-BS1)

Total Cyanide	198	5.0	2.2	ug/l	200	99	90-110
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Matrix Spike Analyzed: 01/19/2010 (10A1691-MS1)

Total Cyanide	201	5.0	2.2	ug/l	200	ND	101	70-115
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Matrix Spike Dup Analyzed: 01/19/2010 (10A1691-MSD1)

Total Cyanide	203	5.0	2.2	ug/l	200	ND	102	70-115	1	15
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Batch: 10A1751 Extracted: 01/20/10

Blank Analyzed: 01/20/2010 (10A1751-BLK1)

Total Dissolved Solids	ND	10	1.0	mg/l
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 10A1751 Extracted: 01/20/10

LCS Analyzed: 01/20/2010 (10A1751-BS1)

Total Dissolved Solids	998	10	1.0	mg/l	1000	100	90-110
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Duplicate Analyzed: 01/20/2010 (10A1751-DUP1)

Total Dissolved Solids	1020	10	1.0	mg/l	1020	1020	0.8	10
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Source: ITA1458-01

Batch: 10A1816 Extracted: 01/20/10

Blank Analyzed: 01/25/2010 (10A1816-BLK1)

Biochemical Oxygen Demand	ND	2.0	0.50	mg/l
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LCS Analyzed: 01/25/2010 (10A1816-BS1)

Biochemical Oxygen Demand	202	100	25	mg/l	198	102	85-115
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LCS Dup Analyzed: 01/25/2010 (10A1816-BSD1)

Biochemical Oxygen Demand	209	100	25	mg/l	198	106	85-115	3	20
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Batch: 10A1822 Extracted: 01/20/10

Blank Analyzed: 01/20/2010 (10A1822-BLK1)

Turbidity	ND	1.0	0.040	NTU
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Duplicate Analyzed: 01/20/2010 (10A1822-DUP1)

Turbidity	0.290	1.0	0.040	NTU	0.320	10	20	Ja
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Source: ITA1341-01

Duplicate Analyzed: 01/20/2010 (10A1822-DUP2)

Turbidity	0.310	1.0	0.040	NTU	0.300	3	20	Ja
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A1873 Extracted: 01/20/10</u>											
Blank Analyzed: 01/20/2010 (10A1873-BLK1)											
Surfactants (MBAS) ND 0.10 0.025 mg/l											
LCS Analyzed: 01/20/2010 (10A1873-BS1)											
Surfactants (MBAS) 0.261 0.10 0.025 mg/l 0.250 104 90-110											
Matrix Spike Analyzed: 01/20/2010 (10A1873-MS1)											
Surfactants (MBAS) 0.347 0.10 0.025 mg/l 0.250 0.116 92 50-125											
Matrix Spike Dup Analyzed: 01/20/2010 (10A1873-MSD1)											
Surfactants (MBAS) 0.330 0.10 0.025 mg/l 0.250 0.116 86 50-125 5 20											
<u>Batch: 10A2181 Extracted: 01/22/10</u>											
Blank Analyzed: 01/22/2010 (10A2181-BLK1)											
Ammonia-N (Distilled) ND 0.50 0.50 mg/l											
LCS Analyzed: 01/22/2010 (10A2181-BS1)											
Ammonia-N (Distilled) 10.1 0.50 0.50 mg/l 10.0 101 80-115											
Matrix Spike Analyzed: 01/22/2010 (10A2181-MS1)											
Ammonia-N (Distilled) 9.80 0.50 0.50 mg/l 10.0 ND 98 70-120											
Matrix Spike Dup Analyzed: 01/22/2010 (10A2181-MSD1)											
Ammonia-N (Distilled) 9.80 0.50 0.50 mg/l 10.0 ND 98 70-120 0 15											
<u>Batch: 10A2192 Extracted: 01/22/10</u>											
Blank Analyzed: 01/22/2010 (10A2192-BLK1)											
Total Suspended Solids ND 10 1.0 mg/l											

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10A2192 Extracted: 01/22/10</u>											
LCS Analyzed: 01/22/2010 (10A2192-BS1)											
Total Suspended Solids	997	10	1.0	mg/l	1000		100	85-115			
Duplicate Analyzed: 01/22/2010 (10A2192-DUP1)											
Total Suspended Solids	49.0	10	1.0	mg/l		49.0			0	10	
<u>Batch: 10A2275 Extracted: 01/25/10</u>											
Blank Analyzed: 01/25/2010 (10A2275-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 01/25/2010 (10A2275-BS1)											
Perchlorate	23.8	4.0	0.90	ug/l	25.0		95	85-115			
Matrix Spike Analyzed: 01/25/2010 (10A2275-MS1)											
Perchlorate	28.7	4.0	0.90	ug/l	25.0	6.12	90	80-120			
Matrix Spike Dup Analyzed: 01/25/2010 (10A2275-MSD1)											
Perchlorate	29.6	4.0	0.90	ug/l	25.0	6.12	94	80-120	3	20	

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 35029 Extracted: 02/04/10</u>											
Matrix Spike Dup Analyzed: 02/08/2010 (F0A200486001D)											
Total Uranium	29.2	0.7	0.2	pCi/L	27.7	-0.0334	105	62-150	2	20	
Matrix Spike Analyzed: 02/08/2010 (F0A200486001S)											
Total Uranium	28.8	0.7	0.2	pCi/L	27.7	-0.0334	104	62-150			
Blank Analyzed: 02/08/2010 (F0B040000029B)											
Total Uranium	-0.0623	0.693	0.21	pCi/L					-		U
LCS Analyzed: 02/08/2010 (F0B040000029C)											
Total Uranium	29.2	0.7	0.2	pCi/L	27.7		105	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 25415 Extracted: 01/25/10											
Matrix Spike Analyzed: 01/29/2010 (F0A200486001S)											
Gross Alpha 6.9 3 1 pCi/L 49.4 0.98 12 35-150 a											
Gross Beta 10 4 1.6 pCi/L 68.1 0.83 14 54-150 a											
Duplicate Analyzed: 01/29/2010 (F0A200486001X)											
Gross Alpha 0.71 3 1.4 pCi/L 0.98 - Jb											
Gross Beta 1.6 4 1.6 pCi/L 0.83 - Jb											
Blank Analyzed: 01/29/2010 (F0A250000415B)											
Gross Alpha -0.03 3 0.71 pCi/L - U											
Gross Beta -0.26 4 1.5 pCi/L - U											
LCS Analyzed: 01/29/2010 (F0A250000415C)											
Gross Alpha 45.4 3 0.9 pCi/L 49.4 92 62-134											
Gross Beta 73.4 4 1.6 pCi/L 68.1 108 58-133											

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 23036 Extracted: 01/23/10											
Duplicate Analyzed: 01/26/2010 (F0A210532001X)											
Source: F0A210532001											
Cesium 137	-1.4	20	18	pCi/L		-2.3		-			U
Potassium 40	-60	NA	250	pCi/L		-30		-			U
Blank Analyzed: 01/26/2010 (F0A230000036B)											
Source:											
Cesium 137	-0.4	20	12	pCi/L				-			U
Potassium 40	-70	NA	210	pCi/L				-			U
LCS Analyzed: 01/26/2010 (F0A230000036C)											
Source:											
Americium 241	132000	NA	500	pCi/L	141000		93	87-110			
Cobalt 60	79000	NA	200	pCi/L	87900		90	89-110			
Cesium 137	48200	20	200	pCi/L	53100		91	90-110			

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METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 22145 Extracted: 01/22/10</u>											
Blank Analyzed: 02/08/2010 (F0A220000145B)											
Radium (226)	0.111	1	0.13	pCi/L		Source:		-			U
LCS Analyzed: 02/08/2010 (F0A220000145C)											
Radium (226)	10.7	1	0.1	pCi/L	11.3	Source:	95	68-136			
LCS Dup Analyzed: 02/08/2010 (F0A220000145L)											
Radium (226)	11.2	1	0.2	pCi/L	11.3	Source:	100	68-136	5	40	

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METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 22148 Extracted: 01/22/10</u>											
Blank Analyzed: 02/08/2010 (F0A220000148B)											
Radium 228 0.22 1 0.59 pCi/L Source: - U											
LCS Analyzed: 02/08/2010 (F0A220000148C)											
Radium 228 8.22 1 0.61 pCi/L 6.45 Source: 127 60-142											
LCS Dup Analyzed: 02/08/2010 (F0A220000148L)											
Radium 228 7.58 1 0.57 pCi/L 6.45 Source: 118 60-142 8 40											

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METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 22149 Extracted: 01/22/10</u>											
Blank Analyzed: 02/01/2010 (F0A220000149B)											
Strontium 90	-0.01	3	0.38	pCi/L		Source:			-		U
LCS Analyzed: 02/01/2010 (F0A220000149C)											
Strontium 90	6.74	3	0.39	pCi/L	6.81		99	80-130			
LCS Dup Analyzed: 02/01/2010 (F0A220000149L)											
Strontium 90	6.99	3	0.38	pCi/L	6.81		103	80-130	4	40	

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METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 28080 Extracted: 01/28/10</u>											
Duplicate Analyzed: 01/29/2010 (F0A200486001X)											
Tritium	-49	500	140	pCi/L		99		-			U
Matrix Spike Analyzed: 01/29/2010 (F0A200494001S)											
Tritium	4350	500	140	pCi/L	4540	64	94	62-147			
Blank Analyzed: 01/28/2010 (F0A280000080B)											
Tritium	250	500	140	pCi/L				-			Jb
LCS Analyzed: 01/28/2010 (F0A280000080C)											
Tritium	4680	500	140	pCi/L	4540		103	85-112			

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 25399 Extracted: 01/25/10											
Blank Analyzed: 01/27/2010 (G0A250000399B)											
Source:											
1,2,3,4,6,7,8-HpCDD	7.4e-006	0.00005	0.0000087	ug/L			-				J, Q
1,2,3,4,6,7,8-HpCDF	7e-006	0.00005	0.0000016	ug/L			-				J
2,3,7,8-TCDF	7e-007	0.00001	0.0000004	ug/L			-				J, Q
1,2,3,4,7,8,9-HpCDF	7.1e-006	0.00005	0.0000021	ug/L			-				J
1,2,3,4,7,8-HxCDD	ND	0.00005	0.0000099	ug/L			-				
1,2,3,4,7,8-HxCDF	5.3e-006	0.00005	0.0000087	ug/L			-				J
1,2,3,6,7,8-HxCDD	ND	0.00005	0.0000098	ug/L			-				
1,2,3,6,7,8-HxCDF	4.8e-006	0.00005	0.00000086	ug/L			-				J
1,2,3,7,8,9-HxCDD	ND	0.00005	0.0000083	ug/L			-				
1,2,3,7,8,9-HxCDF	5e-006	0.00005	0.0000096	ug/L			-				J
1,2,3,7,8-PeCDD	3.6e-006	0.00005	0.0000033	ug/L			-				J
1,2,3,7,8-PeCDF	2.9e-006	0.00005	0.00000079	ug/L			-				J
2,3,4,6,7,8-HxCDF	4.4e-006	0.00005	0.00000079	ug/L			-				J
2,3,4,7,8-PeCDF	2.9e-006	0.00005	0.00000083	ug/L			-				J, Q
2,3,7,8-TCDD	ND	0.00001	0.0000015	ug/L			-				
OCDD	1.5e-005	0.0001	0.0000072	ug/L			-				J, Q
OCDF	1.6e-005	0.0001	0.0000016	ug/L			-				J
Total HpCDD	7.4e-006	0.00005	0.0000087	ug/L			-				J, Q
Total HpCDF	1.4e-005	0.00005	0.0000016	ug/L			-				J
Total HxCDD	ND	0.00005	0.0000083	ug/L			-				
Total HxCDF	1.9e-005	0.00005	0.00000079	ug/L			-				J
Total PeCDD	3.6e-006	0.00005	0.0000033	ug/L			-				J
Total PeCDF	5.7e-006	0.00005	0.00000069	ug/L			-				J, Q
Total TCDD	ND	0.00001	0.0000015	ug/L			-				
Total TCDF	7e-007	0.00001	0.0000004	ug/L			-				J, Q
Surrogate: 13C-2,3,7,8-TCDF	0.0013		ug/L	0.002		65	24-169				
Surrogate: 37Cl-2,3,7,8-TCDD	0.00073		ug/L	0.0008		91	35-197				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0018		ug/L	0.002		88	23-140				
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0017		ug/L	0.002		85	28-143				
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0017		ug/L	0.002		85	26-138				
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.002		ug/L	0.002		102	32-141				
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0019		ug/L	0.002		95	26-152				
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0014		ug/L	0.002		72	28-130				
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0015		ug/L	0.002		77	26-123				
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0017		ug/L	0.002		86	29-147				

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 25399 Extracted: 01/25/10

Blank Analyzed: 01/27/2010 (G0A250000399B)

Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002	66	25-181
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0012			ug/L	0.002	59	24-185
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0017			ug/L	0.002	85	28-136
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0012			ug/L	0.002	62	21-178
Surrogate: 13C-2,3,7,8-TCDD	0.0014			ug/L	0.002	68	25-164
Surrogate: 13C-OCDD	0.0031			ug/L	0.004	78	17-157

LCS Analyzed: 01/27/2010 (G0A250000399C)

1,2,3,4,6,7,8-HpCDD	0.00103	0.00005	0.0000092	ug/L	0.001	103	70-140
1,2,3,4,6,7,8-HpCDF	0.00106	0.00005	0.0000058	ug/L	0.001	106	82-122
2,3,7,8-TCDF	0.000201	0.00001	0.00000054	ug/L	0.0002	100	75-158
1,2,3,4,7,8,9-HpCDF	0.00107	0.00005	0.0000086	ug/L	0.001	107	78-138
1,2,3,4,7,8-HxCDD	0.0011	0.00005	0.000003	ug/L	0.001	110	70-164
1,2,3,4,7,8-HxCDF	0.00103	0.00005	0.0000064	ug/L	0.001	103	72-134
1,2,3,6,7,8-HxCDD	0.00111	0.00005	0.0000031	ug/L	0.001	111	76-134
1,2,3,6,7,8-HxCDF	0.00105	0.00005	0.0000062	ug/L	0.001	105	84-130
1,2,3,7,8,9-HxCDD	0.00109	0.00005	0.0000026	ug/L	0.001	109	64-162
1,2,3,7,8,9-HxCDF	0.00103	0.00005	0.0000068	ug/L	0.001	103	78-130
1,2,3,7,8-PeCDD	0.00102	0.00005	0.0000032	ug/L	0.001	102	70-142
1,2,3,7,8-PeCDF	0.00105	0.00005	0.0000016	ug/L	0.001	105	80-134
2,3,4,6,7,8-HxCDF	0.00107	0.00005	0.0000056	ug/L	0.001	107	70-156
2,3,4,7,8-PeCDF	0.00104	0.00005	0.0000017	ug/L	0.001	104	68-160
2,3,7,8-TCDD	0.000201	0.00001	0.0000015	ug/L	0.0002	101	67-158
OCDD	0.00209	0.0001	0.000006	ug/L	0.002	104	78-144
OCDF	0.00204	0.0001	0.0000019	ug/L	0.002	102	63-170
Surrogate: 13C-2,3,7,8-TCDF	0.0014			ug/L	0.002	70	24-169
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000783			ug/L	0.0008	98	35-197
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00185			ug/L	0.002	93	23-140
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.0018			ug/L	0.002	90	28-143
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00178			ug/L	0.002	89	26-138
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00199			ug/L	0.002	100	32-141
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0019			ug/L	0.002	95	26-152
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00162			ug/L	0.002	81	28-130
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00165			ug/L	0.002	83	26-123
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.0018			ug/L	0.002	90	29-147
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00147			ug/L	0.002	74	25-181

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 25399 Extracted: 01/25/10

LCS Analyzed: 01/27/2010 (G0A250000399C)

						Source:				
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00133			ug/L	0.002	67	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00175			ug/L	0.002	88	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00138			ug/L	0.002	69	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.00147			ug/L	0.002	74	25-164			
Surrogate: 13C-OCDD	0.00341			ug/L	0.004	85	17-157			

LCS Dup Analyzed: 01/27/2010 (G0A250000399L)

						Source:				
1,2,3,4,6,7,8-HpCDD	0.000962	0.00005	0.000001	ug/L	0.001	96	70-140	6.6	50	
1,2,3,4,6,7,8-HpCDF	0.000994	0.00005	0.0000036	ug/L	0.001	99	82-122	6.8	50	
2,3,7,8-TCDF	0.000193	0.00001	0.00000061	ug/L	0.0002	96	75-158	4.2	50	
1,2,3,4,7,8,9-HpCDF	0.000999	0.00005	0.0000051	ug/L	0.001	100	78-138	7	50	
1,2,3,4,7,8-HxCDD	0.00103	0.00005	0.0000051	ug/L	0.001	103	70-164	5.8	50	
1,2,3,4,7,8-HxCDF	0.000944	0.00005	0.0000008	ug/L	0.001	94	72-134	8.4	50	
1,2,3,6,7,8-HxCDD	0.00102	0.00005	0.0000049	ug/L	0.001	102	76-134	7.9	50	
1,2,3,6,7,8-HxCDF	0.000984	0.00005	0.00000075	ug/L	0.001	98	84-130	6	50	
1,2,3,7,8,9-HxCDD	0.000967	0.00005	0.0000042	ug/L	0.001	97	64-162	12	50	
1,2,3,7,8,9-HxCDF	0.000971	0.00005	0.00000082	ug/L	0.001	97	78-130	6	50	
1,2,3,7,8-PeCDD	0.000951	0.00005	0.0000042	ug/L	0.001	95	70-142	7.4	50	
1,2,3,7,8-PeCDF	0.000961	0.00005	0.0000025	ug/L	0.001	96	80-134	9	50	
2,3,4,6,7,8-HxCDF	0.000971	0.00005	0.00000069	ug/L	0.001	97	70-156	9.8	50	
2,3,4,7,8-PeCDF	0.000967	0.00005	0.0000022	ug/L	0.001	97	68-160	7.4	50	
2,3,7,8-TCDD	0.00019	0.00001	0.0000017	ug/L	0.0002	95	67-158	5.5	50	
OCDD	0.00195	0.0001	0.0000076	ug/L	0.002	97	78-144	6.9	50	
OCDF	0.00192	0.0001	0.0000024	ug/L	0.002	96	63-170	6.2	50	
Surrogate: 13C-2,3,7,8-TCDF	0.00132			ug/L	0.002	66	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000767			ug/L	0.0008	96	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00175			ug/L	0.002	87	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00172			ug/L	0.002	86	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00169			ug/L	0.002	84	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00199			ug/L	0.002	100	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00184			ug/L	0.002	92	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00154			ug/L	0.002	77	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0016			ug/L	0.002	80	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00173			ug/L	0.002	86	29-147			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0013			ug/L	0.002	65	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0012			ug/L	0.002	60	24-185			

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Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 25399 Extracted: 01/25/10

LCS Dup Analyzed: 01/27/2010 (G0A250000399L)

Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00173			ug/L	0.002		86	28-136		
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00122			ug/L	0.002		61	21-178		
Surrogate: 13C-2,3,7,8-TCDD	0.00134			ug/L	0.002		67	25-164		
Surrogate: 13C-OCDD	0.00319			ug/L	0.004		80	17-157		

Blank Analyzed: 02/01/2010 (G0A2500099RE1)

2,3,7,8-TCDF	ND	0.00001	0.0000061	ug/L				-		
Surrogate: 13C-2,3,7,8-TCDF	0.0013			ug/L	0.002		66	24-169		
Surrogate: 37Cl4-2,3,7,8-TCDD	0.0008			ug/L	0.0008		100	35-197		

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ITA1330 <Page 49 of 54>

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

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
ITA1330-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	0.29	4.8	15
ITA1330-01	624-Boeing 001/002Q (Fr113+X+Fr1,1-Dichloroethene		ug/l	0	0.50	6
ITA1330-01	624-Boeing 001/002Q (Fr113+X+FrTrichloroethene		ug/l	0	0.50	5
ITA1330-01	Cyanide, Total-4500CN-E (5ppb)	Total Cyanide	ug/l	0.050	5.0	8.5
ITA1330-01	Settleable Solids - SM2540F	Total Settleable Solids	ml/l	0.30	0.10	0.3

Compliance Check

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LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
ITA1330-02	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0094	0.03
ITA1330-02	625-Boeing 001/002 Q-LL	2,4,6-Trichlorophenol	ug/l	0	5.7	13
ITA1330-02	625-Boeing 001/002 Q-LL	2,4-Dinitrotoluene	ug/l	0	8.5	18
ITA1330-02	625-Boeing 001/002 Q-LL	Bis(2-ethylhexyl)phthalate	ug/l	0.32	4.7	4
ITA1330-02	625-Boeing 001/002 Q-LL	N-Nitrosodimethylamine	ug/l	0	7.5	16
ITA1330-02	625-Boeing 001/002 Q-LL	Pentachlorophenol	ug/l	0	7.5	16
ITA1330-02	Ammonia-N, Titr 4500NH3-C (w/diAmmonia-N (Distilled)		mg/l	0	0.50	10
ITA1330-02	Arsenic-200.8	Arsenic	ug/l	1.94	1.0	10
ITA1330-02	Barium-200.7	Barium	mg/l	0.056	0.010	1
ITA1330-02	Beryllium-200.8	Beryllium	ug/l	0.14	0.50	4
ITA1330-02	BOD - SM5210B	Biochemical Oxygen Demand	mg/l	2.92	2.0	30
ITA1330-02	Cadmium-200.8	Cadmium	ug/l	0.060	1.0	3.1
ITA1330-02	Chloride - 300.0	Chloride	mg/l	15	0.50	150
ITA1330-02	Chromium-200.8	Chromium	ug/l	3.34	2.0	16
ITA1330-02	Copper-200.8	Copper	ug/l	4.41	2.0	14
ITA1330-02	Iron-200.7	Iron	mg/l	1.99	0.040	0.3
ITA1330-02	Lead-200.8	Lead	ug/l	2.02	1.0	5.2
ITA1330-02	Manganese-200.8	Manganese	ug/l	86	1.0	50
ITA1330-02	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.029	0.10	0.5
ITA1330-02	Nickel-200.8	Nickel	ug/l	3.35	2.0	96
ITA1330-02	Nitrate-N, 300.0	Nitrate-N	mg/l	0.41	0.11	8
ITA1330-02	Nitrite-N, 300.0	Nitrite-N	mg/l	0	0.15	1
ITA1330-02	Nitrogen, NO ₃ +NO ₂ -N EPA 300.0	Nitrate/Nitrite-N	mg/l	0.41	0.26	8
ITA1330-02	Perchlorate 314.0 - Default	Perchlorate	ug/l	0	4.0	6

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

ITA1330-02	Selenium-200.8	Selenium	ug/l	0.32	2.0	5
ITA1330-02	Sulfate-300.0	Sulfate	mg/l	164	5.0	300
ITA1330-02	TDS - SM2540C	Total Dissolved Solids	mg/l	401	10	950
ITA1330-02	TSS - SM2540D	Total Suspended Solids	mg/l	49	10	45
ITA1330-02	Zinc-200.7	Zinc	ug/l	14	20	120

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
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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
ITA1330-03	624-Boeing 001/002Q (Fr113+X+Fr1,1-Dichloroethene		ug/l	0	0.50	6
ITA1330-03	624-Boeing 001/002Q (Fr113+X+FrTrichloroethene		ug/l	0	0.50	5

TestAmerica Irvine

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Project Manager

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ITA1330 <Page 51 of 54>

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

DATA QUALIFIERS AND DEFINITIONS

- a** Spiked analyte outside of stated QC limits.
- B** Analyte was detected in the associated Method Blank.
- Ba** Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- J** Estimated result. Result is less than the reporting limit.
- Ja** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- Jb** Result is greater than sample detection limit but less than stated reporting limit.
- 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.
- Q** Estimated maximum possible concentration (EMPC).
- U** Result is less than the sample detection limit.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EDD + Level 4	Water	N/A	N/A
EPA 120.1	Water	X	X
EPA 1664A	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
Filtration	Water	N/A	N/A
SM 2540D	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5540-C	Water	X	X

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

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB California Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnic
Samples: ITA1330-02

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

Project ID: Quarterly Outfall 002
Report Number: ITA1330

Sampled: 01/18/10-01/19/10
Received: 01/18/10

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITA1330-02

Method Performed: EPA 900.0 MOD
Samples: ITA1330-02

Method Performed: EPA 901.1 MOD
Samples: ITA1330-02

Method Performed: EPA 903.0 MOD
Samples: ITA1330-02

Method Performed: EPA 904 MOD
Samples: ITA1330-02

Method Performed: EPA 905 MOD
Samples: ITA1330-02

Method Performed: EPA 906.0 MOD
Samples: ITA1330-02

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITA1330-02, ITA1330-02RE1

TestAmerica Irvine

Kathleen A. Robb For Heather Clark
Project Manager

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

ITA1330 <Page 54 of 54>

LABORATORY REPORT



"dedicated to providing quality aquatic toxicity testing"

Date: January 28, 2010

Client: TestAmerica, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Laboratory No.: A-10012004-001
Sample I.D.: ITA1330-02 (Outfall 002)

Sample Control: The sample was received by ATL within the recommended hold time, chilled and with the chain of custody record attached. Testing conducted on only one sample per client instruction (rain runoff sample).

Date Sampled: 01/19/10
Date Received: 01/20/10
Temp. Received: 4.7°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 01/20/10 to 01/27/10

Sample Analysis: The following analyses were performed on your sample:

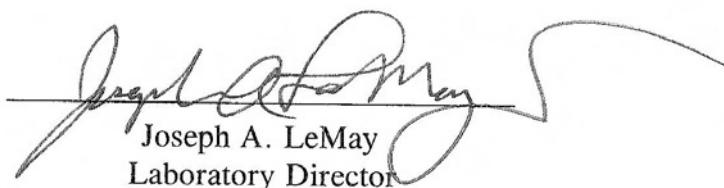
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

Attached are the test data generated from the analysis of your sample.

Result Summary:

	<u>NOEC</u>	<u>TUc</u>
<i>Ceriodaphnia</i> Survival:	100%	1.0
<i>Ceriodaphnia</i> Reproduction:	100%	1.0

Quality Control: Reviewed and approved by:



Joseph A. LeMay
Laboratory Director

CERIODAPHNIA CHRONIC BIOASSAY

EPA METHOD 1002.0



Lab No.: A-10012004-001

Date Tested: 01/20/10 to 01/27/10

Client/ID: Test America – ITA1330-02 (Outfall 002)

TEST SUMMARY

Test type: Daily static-renewal.

Endpoints: Survival and Reproduction.

Species: *Ceriodaphnia dubia*.

Source: In-laboratory culture.

Age: < 24 hrs; all released within 8 hrs.

Food: .1 ml YTC, algae per day.

Test vessel size: 30 ml.

Test solution volume: 15 ml.

Number of test organisms per vessel: 1.

Number of replicates: 10.

Temperature: 25 +/- 1°C.

Photoperiod: 16/8 hrs. light/dark cycle.

Dilution water: Mod. hard reconstituted (MHRW).

Test duration: 7 days.

QA/QC Batch No.: RT-100119.

Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	23.5
100% Sample	100%	31.2

* Sample not statistically significantly less than Control.

CHRONIC TOXICITY

Survival NOEC	100 %
Survival TUC	1.0
Reproduction NOEC	100 %
Reproduction TUC	1.0

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥ 80%	Pass (100% survival)
≥ 15 young per surviving control female	Pass (23.5 young)
≥ 60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD < 47% for reproduction; if > 47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 7.4%)
Statistically significantly different concentrations relative difference > 13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 1/20/2010 13:30 Test ID: 10012004c Sample ID: Outfall 002
 End Date: 1/27/2010 14:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/19/2010 14:30 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
B-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

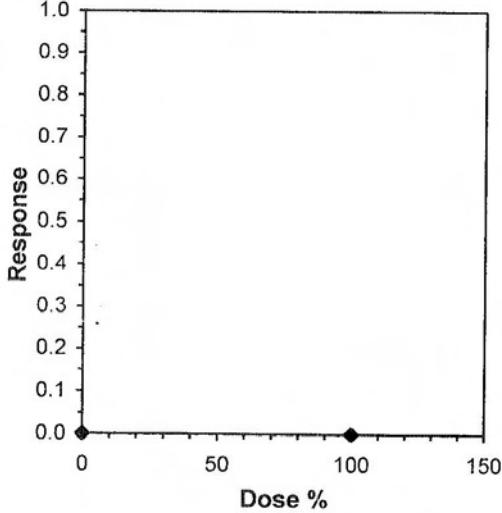
Conc-%	Mean	N-Mean	Not Resp			Total	N	Fisher's Exact P	1-Tailed Critical	Isotonic	
			Resp	Not Resp	Total					Mean	N-Mean
B-Control	1.0000	1.0000	0	10	10	10	10			1.0000	1.0000
100	1.0000	1.0000	0	10	10	10	10	1.0000	0.0500	1.0000	1.0000

Hypothesis Test (1-tail, 0.05) NOEC LOEC ChV TU

Fisher's Exact Test 100 >100 1

Treatments vs B-Control

Point	% IC05	SD	Linear Interpolation (200 Resamples)	
			95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/20/2010 13:30 Test ID: 10012004c Sample ID: Outfall 002
 End Date: 1/27/2010 14:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/19/2010 14:30 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

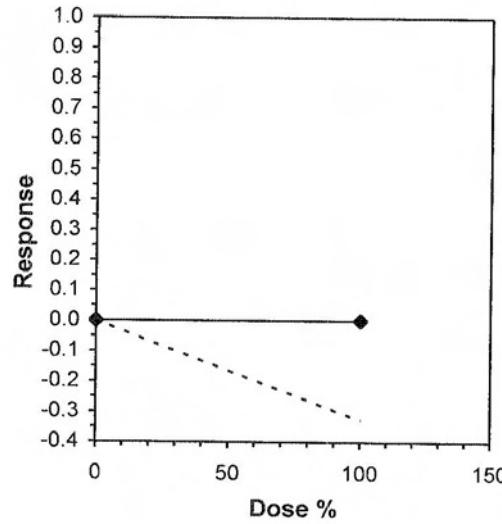
Conc-%	1	2	3	4	5	6	7	8	9	10
B-Control	27.000	21.000	24.000	23.000	26.000	25.000	19.000	25.000	24.000	21.000
100	30.000	29.000	29.000	29.000	32.000	32.000	34.000	34.000	32.000	31.000

Conc-%	Transform: Untransformed							t-Stat	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			MSD	Mean
B-Control	23.500	1.0000	23.500	19.000	27.000	10.662	10			27.350	1.0000
100	31.200	1.3277	31.200	29.000	34.000	6.193	10	-7.696	1.734	1.735	27.350
											1.0000

Auxiliary Tests

	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.05$)	0.95644	0.905	-0.2562	-0.699
F-Test indicates equal variances ($p = 0.45$)	1.68155	6.54109		
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE
Homoscedastic t Test indicates no significant differences	1.73503	0.07383	296.45	5.00556
Treatments vs B-Control			4.2E-07	1, 18

Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-10012004-001

Client ID: TestAmerica - ITA1330-02 Outfall 002

Start Date: 01/20/2010

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
	0 hr	24hr												
Analyst Initials:	LR	LR												
Time of Readings:	1330	1430	1430	1330	1330	1430	1430	1300	1340	1400	1400	1430	1430	1430
Control	DO	7.9	8.2	9.0	8.7	9.3	8.2	8.3	8.0	8.7	8.2	8.3	8.3	8.1
	pH	8.0	7.7	7.7	7.8	7.7	7.7	7.7	7.6	7.6	8.0	7.7	7.6	7.7
	Temp	25.4	24.2	25.0	24.0	25.4	24.9	24.2	24.5	24.5	24.2	24.9	24.0	24.8
100%	DO	10.5	7.6	9.9	8.5	11.1	8.2	8.8	8.2	9.9	8.3	9.9	8.2	10.2
	pH	7.8	7.5	7.4	7.6	7.4	7.6	7.5	7.6	7.4	7.9	7.4	7.5	7.3
	Temp	24.4	24.5	24.2	24.2	24.5	25.2	24.4	24.4	24.4	24.2	25.0	24.2	25.1

Additional Parameters					Control	100% Sample
Conductivity (umohms)					345	530
Alkalinity (mg/l CaCO ₃)					72	76
Hardness (mg/l CaCO ₃)					92	212
Ammonia (mg/l NH ₃ -N)					<0.1	0.5

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	1A	2B	1C	3D	1E	2F	3G	1H	3I	2J

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	LR
	2	0	0	0	0	0	0	0	0	0	0	0	10	LR
	3	0	0	0	3	0	0	3	0	0	4	10	10	LR
	4	3	4	5	0	4	3	0	4	5	0	28	10	LR
	5	0	0	7	9	7	5	6	9	6	6	55	10	LR
	6	8	7	0	0	0	0	0	0	0	0	15	10	LR
	7	16	10	12	11	15	17	10	12	13	11	127	10	LR
Total		27	21	24	23	26	25	19	25	24	21	235	10	LR
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	LR
	2	0	0	0	0	0	0	0	0	0	0	0	10	LR
	3	0	0	4	3	0	5	0	4	3	0	19	10	LR
	4	4	5	0	0	4	0	4	0	0	5	22	10	LR
	5	10	9	9	12	12	13	13	14	10	10	112	10	LR
	6	16	15	16	14	16	14	17	16	19	16	159	10	LR
	7	0	(3)	0	(1)	(1)	(1)	(1)	0	0	(3)	0	10	LR
Total		30	29	29	29	32	32	34	34	32	31	312	10	LR

Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.

SUBCONTRACT ORDER
TestAmerica Irvine

ITA1330

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:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone :(805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 4-7 °C

Ice: Y N

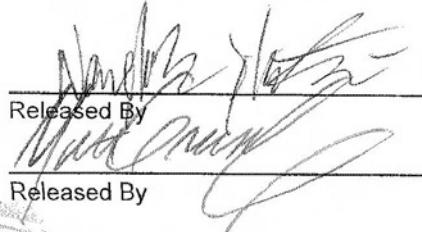
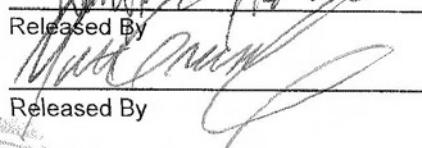
Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
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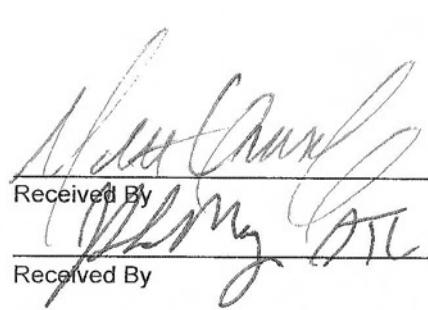
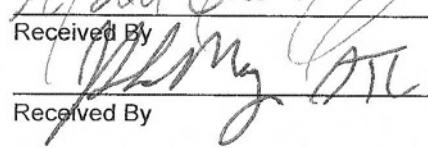
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water) Sampled: 01/19/10 14:30

Bioassay-7 dy Chrnic	N/A	01/21/10 02:30	Cerio, EPA/821-R02-013, Sub to Aquatic testing
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Containers Supplied:
1 gal Poly (T)


Released By


1-20-10 / 7:30
Date/Time
1-20-10 / 11:30
Date/Time


Received By

1-20-10 / 7:30
Date/Time
1-20-10 / 11:30
Date/Time



Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-100119

Date Tested: 01/19/10 to 01/26/10

TEST SUMMARY

Test type: Daily static-renewal.

Species: *Ceriodaphnia dubia*.

Age: <24 hrs; all released within 8 hrs.

Test vessel size: 30 ml.

Number of test organisms per vessel: 1.

Temperature: 25 +/- 1°C.

Dilution water: Mod. hard reconstituted (MHRW).

Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.

Source: In-laboratory culture.

Food: .1 ml YTC, algae per day.

Test solution volume: 20 ml.

Number of replicates: 10.

Photoperiod: 16/8 hrs. light/dark cycle.

Test duration: 7 days.

Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		23.4	
0.25 g/l	100%		25.0	
0.5 g/l	100%		24.3	
1.0 g/l	100%		13.7	*
2.0 g/l	100%		2.7	*
4.0 g/l	0%	*	0	**

* Statistically significantly less than control at P = 0.05 level
 ** Reproduction data from concentrations greater than survival NOEC are excluded from statistical analysis.

CHRONIC TOXICITY

Survival LC50	2.8 g/l
Reproduction IC25	0.79 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥ 80%	Pass (100% Survival)
≥ 15 young per surviving control female	Pass (23.4 young)
≥ 60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD < 47% for reproduction	Pass (PMSD = 9.5%)
Stat. sig. diff. conc. relative difference > 13%	Pass (Stat. sig. diff. conc. Relative difference = 41.5%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 1/19/2010 14:00 Test ID: RT100119c Sample ID: REF-Ref Toxicant
 End Date: 1/26/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/19/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Conc-gm/L	Mean	N-Mean	Not Resp			N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
			Resp	Total	N					
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
4	0.0000	0.0000	10	0	10	10			10	10

Hypothesis Test (1-tail, 0.05) NOEC LOEC ChV TU

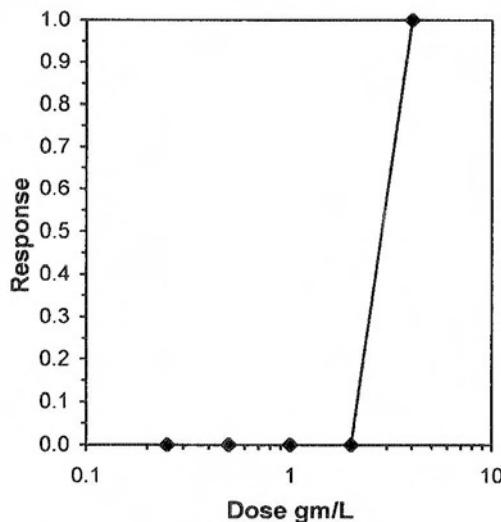
Fisher's Exact Test 2 4 2.82843

Treatments vs D-Control

Graphical Method

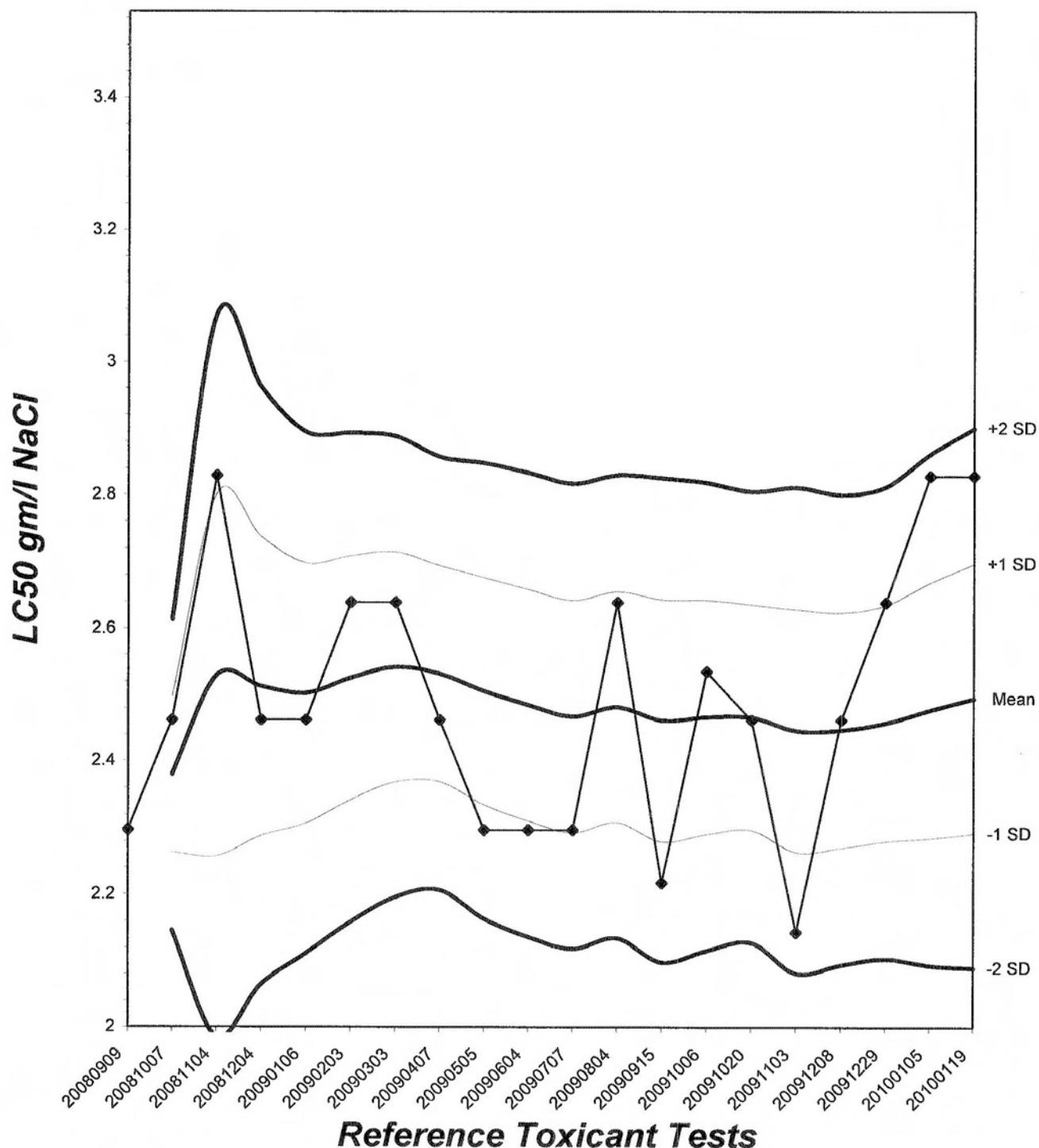
Trim Level	EC50
0.0%	2.8284

2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 8.13



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/19/2010 14:00 Test ID: RT100119c Sample ID: REF-Ref Toxicant
 End Date: 1/26/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/19/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

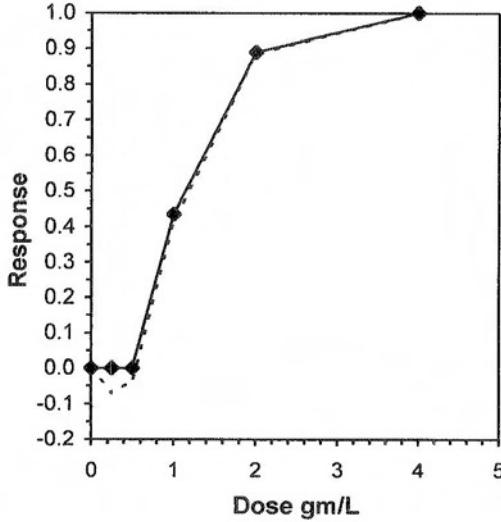
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	23.000	25.000	21.000	24.000	23.000	25.000	25.000	21.000	22.000	25.000
0.25	23.000	26.000	27.000	24.000	24.000	25.000	27.000	22.000	28.000	24.000
0.5	22.000	26.000	25.000	26.000	24.000	22.000	26.000	23.000	25.000	24.000
1	17.000	14.000	10.000	14.000	14.000	12.000	8.000	20.000	13.000	15.000
2	0.000	2.000	3.000	5.000	3.000	3.000	7.000	0.000	2.000	2.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Conc-gm/L	Transform: Untransformed						t-Stat	1-Tailed Critical	Isotonic		
	Mean	N-Mean	Mean	Min	Max	CV%			MSD	Mean	N-Mean
D-Control	23.400	1.0000	23.400	21.000	25.000	7.037	10	-1.608	2.223	2.212	24.233 1.0000
0.25	25.000	1.0684	25.000	22.000	28.000	7.775	10	-0.905	2.223	2.212	24.233 1.0000
0.5	24.300	1.0385	24.300	22.000	26.000	6.449	10	9.750	2.223	2.212	24.233 1.0000
*1	13.700	0.5855	13.700	8.000	20.000	24.585	10	20.807	2.223	2.212	13.700 0.5653
*2	2.700	0.1154	2.700	0.000	7.000	78.178	10				2.700 0.1114
4	0.000	0.0000	0.000	0.000	0.000	0.000	10				0.000 0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.05$)	0.98781	0.947	0.1743	1.07344
Bartlett's Test indicates equal variances ($p = 0.12$)	7.30799	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Dunnett's Test	0.5	1	0.70711	

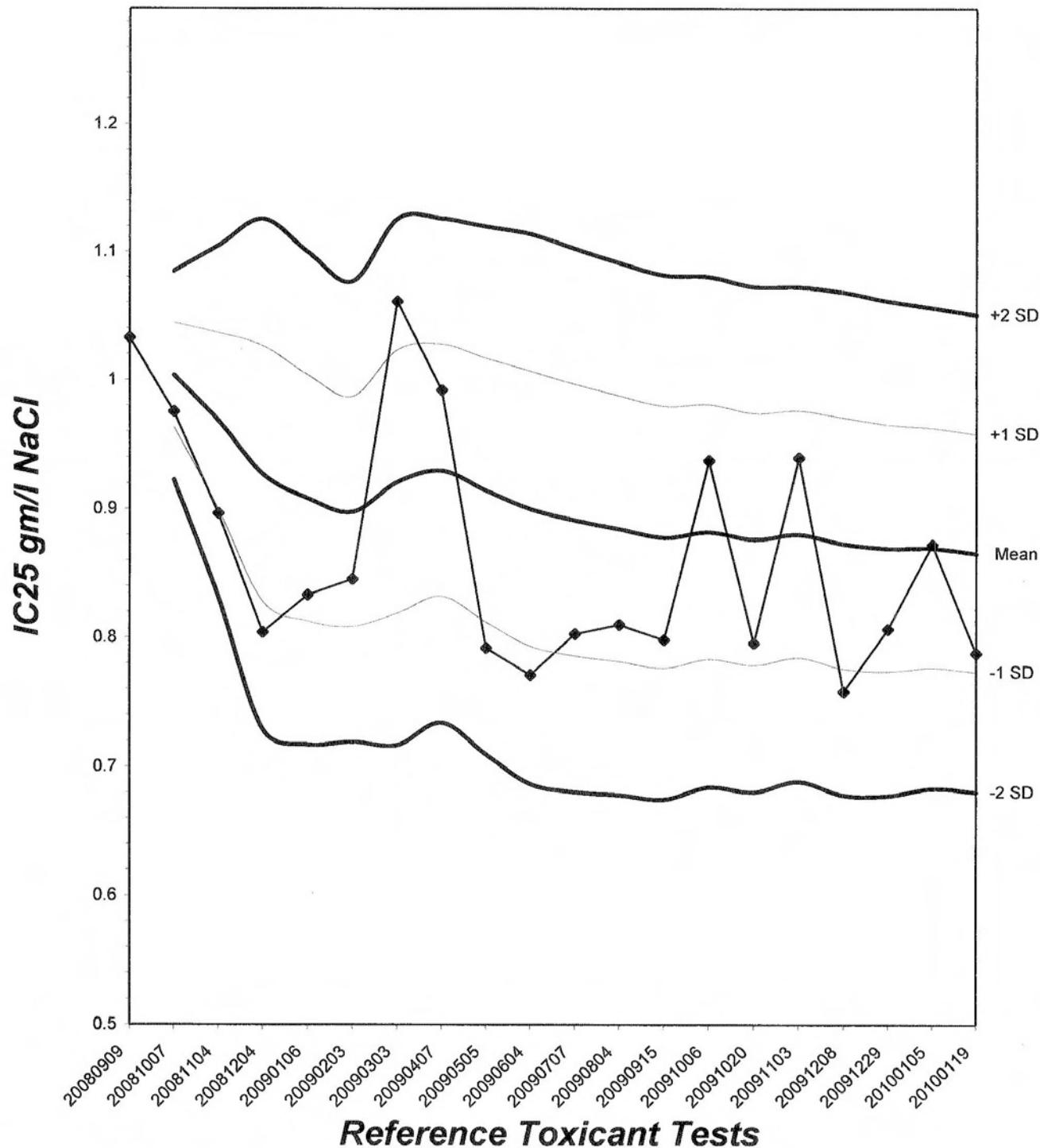
Treatments vs D-Control

Linear Interpolation (200 Resamples)					
Point	gm/L	SD	95% CL	Skew	
IC05	0.5575	0.0143	0.5110	0.5655	-2.0775
IC10	0.6150	0.0146	0.5755	0.6311	-0.4724
IC15	0.6725	0.0178	0.6297	0.6978	0.1744
IC20	0.7301	0.0222	0.6808	0.7720	0.4277
IC25	0.7876	0.0272	0.7293	0.8440	0.5197
IC40	0.9601	0.0466	0.8758	1.0814	0.8653
IC50	1.1439	0.0763	0.9761	1.2715	-0.1589



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 10.7



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials	
		A	B	C	D	E	F	G	H	I	J				
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	L	
	2	0	0	0	0	0	0	0	0	0	0	0	10	L	
	3	0	0	0	0	0	0	0	0	0	0	0	10	L	
	4	3	4	3	5	3	4	4	3	3	4	36	10	P	
	5	6	9	0	0	0	0	8	7	9	8	47	10	P	
	6	1	4	0	8	7	8	7	13	0	0	57	10	P	
	7	0	1	7	1	0	1	2	1	4	0	11	10	P	
	Total	23	25	21	24	23	25	25	21	22	25	234	10	P	
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	L	
	2	0	0	0	0	0	0	0	0	0	0	0	10	L	
	3	0	0	0	0	0	0	0	0	4	0	4	10	L	
	4	3	4	5	5	3	4	4	3	0	4	45	10	P	
	5	8	0	0	0	0	7	8	7	9	8	47	10	P	
	6	0	8	1	0	7	8	0	0	0	15	0	48	P	
	7	1	2	1	4	1	2	1	3	1	4	12	116	10	P
	Total	23	26	27	24	29	25	27	22	28	24	226	10	P	
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	L	
	2	0	0	0	0	0	0	0	0	0	0	0	10	L	
	3	0	0	0	0	0	0	0	0	0	0	0	10	L	
	4	3	4	5	5	1	3	3	4	3	3	4	36	P	
	5	7	8	0	0	0	0	0	8	9	9	41	10	P	
	6	0	1	4	7	8	9	9	10	12	0	0	69	P	
	7	1	2	0	1	3	4	1	2	0	1	1	97	P	
	Total	22	26	25	26	24	22	26	23	25	24	243	10	P	

Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	LR
	2	0	0	0	0	0	0	0	0	0	0	0	10	LR
	3	0	0	0	0	0	0	3	0	2	5	10	LR	LR
	4	3	2	4	3	3	2	3	0	1	0	24	10	JR
	5	6	0	0	0	0	0	7	0	6	19	10	JR	JR
	6	0	5	6	4	3	4	5	0	0	0	27	10	JR
	7	8	7	0	7	8	6	0	10	9	7	62	10	JR
	Total	17	14	10	14	14	12	8	20	13	15	137	10	JR
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	LR
	2	0	0	0	0	0	0	0	0	0	0	0	10	LR
	3	0	0	0	0	0	0	0	0	0	0	0	10	LR
	4	0	0	0	0	0	0	0	0	0	0	0	10	JR
	5	0	2	3	2	0	3	0	0	0	2	12	10	JR
	6	0	0	0	3	0	3	0	0	0	6	10	JR	JR
	7	0	0	0	3	0	0	4	0	2	0	9	10	JR
	Total	0	2	3	5	3	3	7	0	2	2	27	10	JR
4.0 g/l	1	XX	XX	XX	X	XX	XX	XX	XX	XX	0	0	LR	
	2	--	--	--	--	--	--	--	--	--	-	-	--	
	3	--	--	--	--	--	--	--	--	--	-	-	--	
	4	--	--	--	--	--	--	--	--	--	-	-	--	
	5	--	--	--	--	--	--	--	--	--	-	-	--	
	6	--	--	--	--	--	--	--	--	--	-	-	--	
	7	--	--	--	--	--	--	--	--	--	-	-	--	
	Total	0	0	0	0	0	0	0	0	0	0	0	JR	

Circled fourth brood not used in statistical analysis.

7th day only used if <60% of the surviving control females have produced their third brood.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY
Reference Toxicant - NaCl
Water Chemistries Raw Data Sheet



QA/QC No.: RT-100119

Start Date: 01/19/2010

	DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
	Initial	Final												
Analyst Initials:	LR	LR	LR	LR	LR	LR	LR	LR	LR	JR	~L	L	~L	L
Time of Readings:	1400	1400	1400	1430	1430	1330	1330	1500	1500	1330	1330	1400	1400	1400
Control	DO	9.1	8.3	8.0	8.1	9.0	8.0	9.3	8.0	8.3	8.0	8.3	8.2	8.0
	pH	7.8	8.0	8.0	7.8	7.7	7.9	7.7	7.9	7.7	8.0	7.6	8.0	7.7
	Temp	25.3	25.3	25.4	25.0	25.0	25.0	25.4	24.8	25.7	24.7	25.0	24.4	24.9
0.25 g/l	DO	9.1	8.3	8.0	8.0	9.0	8.0	9.2	8.0	8.3	8.1	8.5	8.0	8.2
	pH	7.8	8.0	8.0	7.8	7.7	7.9	7.7	7.9	7.7	8.0	7.7	8.0	7.9
	Temp	25.3	25.4	25.4	25.1	25.0	25.1	25.4	25.1	25.7	24.6	25.2	24.7	25.0
0.5 g/l	DO	9.0	8.2	8.0	8.0	8.9	8.1	9.1	8.0	8.3	8.2	8.5	8.3	8.3
	pH	7.7	8.0	8.0	7.8	7.7	7.9	7.7	7.9	7.7	8.0	7.7	8.0	7.9
	Temp	25.3	25.4	25.5	25.2	25.0	25.1	25.4	25.3	25.7	24.3	25.5	24.5	24.5
1.0 g/l	DO	9.0	8.3	8.0	8.0	8.7	8.1	9.3	8.0	8.3	8.1	8.6	8.1	8.3
	pH	7.7	8.1	8.0	7.8	7.7	7.9	7.7	7.9	7.7	8.0	7.9	7.8	7.9
	Temp	25.3	25.5	25.5	25.1	25.1	25.1	25.5	25.3	25.8	24.5	24.8	24.7	25.0
2.0 g/l	DO	8.9	8.3	7.9	8.1	8.5	8.3	9.3	8.0	8.2	8.1	8.6	8.0	8.2
	pH	7.7	8.1	8.0	7.8	7.7	7.9	7.7	7.9	7.6	7.5	7.7	7.5	7.8
	Temp	25.2	25.5	25.6	25.1	25.1	25.2	25.5	25.3	25.9	24.2	24.7	24.2	25.1
4.0 g/l	DO	8.7	8.4	-	-	-	-	-	-	-	-	-	-	-
	pH	7.7	8.1	-	-	-	-	-	-	-	-	-	-	-
	Temp	25.2	25.5	-	-	-	-	-	-	-	-	-	-	-

Dissolved Oxygen (DO) readings are in mg/l O₂; Temperature (Temp) readings are in °C.

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
Conductivity (µS)	345	340	330	6800	3710	3650
Alkalinity (mg/l CaCO ₃)	72	72	74	72	73	74
Hardness (mg/l CaCO ₃)	92	93	89	92	92	90

Source of Neonates

Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	2A	3A	1B	2B	3B	1C	2C	2D	1E	2F

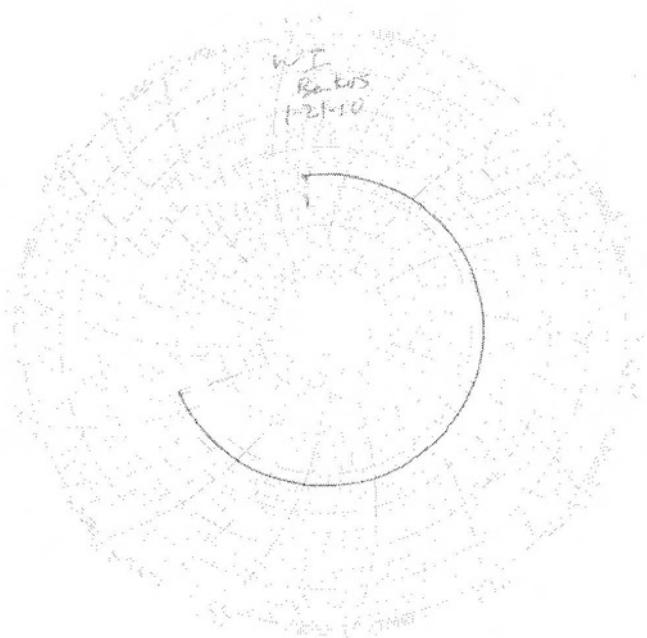
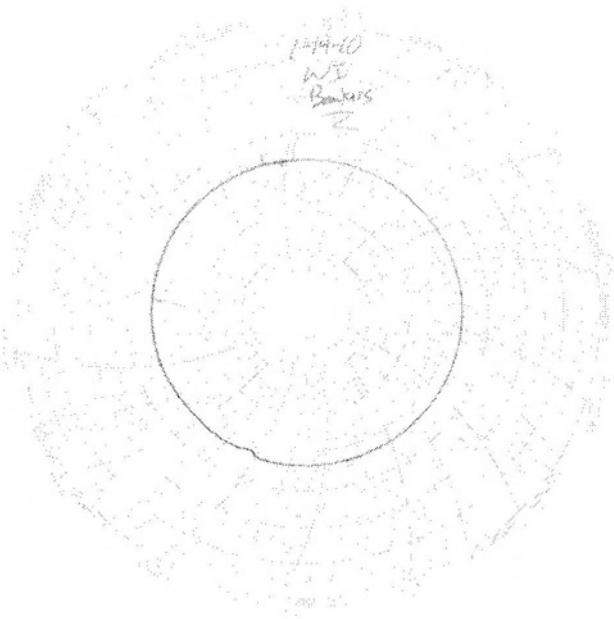


Test Temperature Chart

Test No: RT-100122

Date Tested: 01/19/10 to 01/26/10

Acceptable Range: 25+/- 1°C



ANALYSIS REQUIRED									
Field readings: (Log in and include in report Temp and pH) Temp °F = 54 pH = 7.54 Time of readings = 13:00									
Comments									
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #			
Outfall 002	W	VOAs	5	11/18/10 13:00	HCl	1A, 1B, 1C, D 1D, 1E	X		
Outfall 002	W	1L Poly	1		None	2	X		
Outfall 002	W	1L Amber	2		HCl	3A, 3B	X		
Outfall 002	W	500 mL Poly	1		NaOH	4	X		
Outfall 002	W	500 mL Poly	2		None	5A, 5B	X		
Outfall 002	W	VOAs	3		HCl	6A, 6B, 6C	X		
Outfall 002	W	150 mL Poly	1		None	7	X		
Total Residual Chlorine									
Conductivity									
Cyanide (total recoverable)									
Oil & Grease (1664-HEM)									
Settleable Solids									
VOCs 624 + xylenes + Freon 113									
Project Name/Address:									
Boeing-SSFL NPDES Quarterly Outfall 002 GRAB Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Meghan Cheek Sampler: Emily Afonso									
Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007									
Phone Number: (626) 568-6691 Fax Number: (626) 568-6515									
Received By: Matthew Gammie Date/Time: 11/18/10 16:00 Received By: Matthew Gammie Date/Time: 11/18/10 16:00 Received By: Matthew Gammie Date/Time: 11/18/10 16:00									
Reinquished By: Matthew Gammie Date/Time: 11/18/10 16:00 Reinquished By: Matthew Gammie Date/Time: 11/18/10 16:00 Reinquished By: Matthew Gammie Date/Time: 11/18/10 16:00									
Received By: Matthew Gammie Date/Time: 11/18/10 16:00 Received By: Matthew Gammie Date/Time: 11/18/10 16:00 Received By: Matthew Gammie Date/Time: 11/18/10 16:00									
Turn-around time: (Check) 24 Hour: _____ 72 Hour: _____ 10 Day: _____ 48 Hour: _____ 5 Day: _____ Normal: X									
Sample Integrity (Check) Intact: _____ On Ice: X									
Data Requirements: (Check) All Level IV: _____ No Level IV: _____									
NPDES Level IV: X									

TTA 1336

CHAIN OF CUSTODY FORM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITA1330

MWH-Pasadena Boeing

Lot #: F0A210540

Joseph Doak

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

TESTAMERICA LABORATORIES, INC.


Kay Clay
Project Manager

March 17, 2010

Case Narrative
LOT NUMBER: F0A210540
Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on January 21, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below.

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. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

This report shall not be reproduced, except in full, without the written approval of the laboratory.

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.

Report revised to report the KPA uranium results in pCi/L.

Observations/Nonconformances

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

Gross Alpha/Beta (EPA 900.0 MOD)

The gross alpha and beta matrix spike are outside lower control limits due to possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F0A210540 (1): ITA1330-02

SUBCONTRACT ORDER
TestAmerica Irvine

ITA1330

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	Surcharge	Comments
Sample ID: ITA1330-02 (Outfall 002 (Composite) - Water) Sampled: 01/19/10 14:30						
Gamma Spec-O	mg/kg	01/27/10	01/19/11 14:30	\$250.00	0%	Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Gross Alpha-O	pCi/L	01/27/10	07/18/10 14:30	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	01/27/10	07/18/10 14:30	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out	N/A	01/27/10	02/16/10 14:30	\$0.00	0%	
Radium, Combined-O	pCi/L	01/27/10	01/19/11 14:30	\$238.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	01/27/10	01/19/11 14:30	\$155.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	01/27/10	01/19/11 14:30	\$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	01/27/10	01/19/11 14:30	\$120.00	0%	Out St Louis, Boeing permit, DO NOT FILTER!
<i>Containers Supplied:</i>						
2.5 gal Poly (R)	500 mL Amber (S)					

Released By

James Mc Pherson 1/20/10 17:00

Date/Time

Date/Time

Received By

FedEx 1/20/10 17:00

Date/Time

Date/Time

1/21/10 12:15

Date/Time

Released By

Page 1 of 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CONDITION UPON RECEIPT FORM

Client: T.A. Drivne

Quote No: 85044

COC/RFA No: ITA1330 31/28/58

Lot #(s): FOA210532

536

546

541

Initiated By: JW

Date: 20 1-21-10

Time: 1215

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):* 9

Sample Temperature (s):**

1. 4289 2132 9059

6. _____

1. ambient

6. _____

2. 9060

7. _____

2.

7. _____

3. _____

8. _____

3. _____

8. _____

4. _____

9. _____

4. _____

9. _____

5. _____

10. _____

5. _____

10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on the cooler?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Are there custody seals present on bottles?
2. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?	9. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
3. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	10. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH? (If not, make note below)
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?	11. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?
5. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. <input checked="" type="radio"/> Y <input type="radio"/> N	Was sample received broken?	13. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was Internal COC/Workshare received?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Is sample volume sufficient for analysis?	14. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: Log tritium for ITA135B per RC m/c 1/21/10

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____

Project Management Review: K.S.

Informed by: _____

If released, notify: _____

Date: 01-22-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

METHODS SUMMARY

F0A210540

<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	
Radium-228 by GFPC	EPA 904 MOD	
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

F0A210540

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LTH8A	001	ITA1330-02	01/19/10	14:30

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: ITA1330-02

Radiochemistry

Lab Sample ID: FOA210540-001
 Work Order: LTH8A
 Matrix: WATER

Date Collected: 01/19/10 1430
 Date Received: 01/21/10 1215

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	pCi/L	Batch #	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD							
Cesium 137	0.0	U	1.7	20.0	6.3	01/23/10	01/26/10
Potassium 40	-60	U	520		290	01/23/10	01/26/10
Gross Alpha/Beta EPA 900							
Gross Alpha	3.9		1.9	3.0	2.3	01/25/10	01/29/10
Gross Beta	9.5		1.7	4.0	1.8	01/25/10	01/29/10
SR-90 BY GFPC EPA-905 MOD							
Strontium 90	0.09	U	0.41	3.00	0.70	01/22/10	02/01/10
TRITIUM (Distill) by EPA 906.0 MOD							
Tritium	36	U	81	500	140	01/28/10	01/29/10
Total Uranium by KPA ASTM 5174-91							
Total Uranium	0.218	J	0.038	0.693	0.21	02/04/10	02/08/10
Radium 226 by EPA 903.0 MOD							
Radium (226)	0.017	U	0.098	1.00	0.19	01/22/10	02/08/10
Radium 228 by GFPC EPA 904 MOD							
Radium 228	0.62	U	0.59	1.00	0.95	01/22/10	02/08/10

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.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0A210540
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Total Uranium by KPA ASTM 5174-91			pCi/L	Batch #	0035029	Yld %	F0B040000-029B
Total Uranium	-0.0623	U	0.0075	0.693	0.21	02/04/10	02/08/10
Radium 226 by EPA 903.0 MOD			pCi/L	Batch #	0022145	Yld % 108	F0A220000-145B
Radium (226)	0.111	U	0.094	1.00	0.13	01/22/10	02/08/10
Radium 228 by GFPC EPA 904 MOD			pCi/L	Batch #	0022148	Yld % 92	F0A220000-148B
Radium 228	0.22	U	0.35	1.00	0.59	01/22/10	02/08/10
SR-90 BY GFPC EPA-905 MOD			pCi/L	Batch #	0022149	Yld % 79	F0A220000-149B
Strontium 90	-0.01	U	0.22	3.00	0.38	01/22/10	02/01/10
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	Batch #	0023036	Yld %	F0A230000-036B
Cesium 137	-0.4	U	6.7	20.0	12	01/23/10	01/26/10
Potassium 40	-70	U	240		210	01/23/10	01/26/10
Gross Alpha/Beta EPA 900			pCi/L	Batch #	0025415	Yld %	F0A250000-415B
Gross Alpha	-0.03	U	0.34	3.00	0.71	01/25/10	01/29/10
Gross Beta	-0.26	U	0.86	4.00	1.5	01/25/10	01/29/10
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	Batch #	0028080	Yld %	F0A280000-080B
Tritium	250	J	120	500	140	01/28/10	01/28/10

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.

** Result is less than the sample detection limit.

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: F0A210540

Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ+/-)	MDC	% Yld	% Rec	Lab Sample ID	QC Control Limits	
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	901.1 MOD			F0A230000-036C		
Americium 241	141000	132000	10000	500	93		(87 - 110)		
Cesium 137	53100	48200	2800	200	91		(90 - 110)		
Cobalt 60	87900	79000	4400	200	90		(89 - 110)		
	Batch #: 0023036			Analysis Date: 01/26/10					
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0A250000-415C		
Gross Beta	68.1	73.4	6.2	1.6	108		(58 - 133)		
	Batch #: 0025415			Analysis Date: 01/29/10					
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0A250000-415C		
Gross Alpha	49.4	45.4	5.0	0.9	92		(62 - 134)		
	Batch #: 0025415			Analysis Date: 01/29/10					
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			F0A280000-080C		
Tritium	4540	4680	480	140	103		(85 - 112)		
	Batch #: 0028080			Analysis Date: 01/28/10					
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			F0B040000-029C		
Total Uranium	27.7	29.2	3.5	0.2	105		(90 - 120)		
	Batch #: 0035029			Analysis Date: 02/08/10					
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			F0B040000-029C		
Total Uranium	5.54	5.67	0.59	0.21	102		(90 - 120)		
	Batch #: 0035029			Analysis Date: 02/08/10					

NOTE (S)

MDC is determined by instrument performance only

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0A210540
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	% Yld	% Rec	Lab Sample ID	
			QC Control Limits			Precision	
Radium 226 by EPA 903.0 MOD		pCi/L	903.0 MOD			F0A220000-145C	
Radium (226)	11.3	10.7	1.1	108	95	(68 - 136)	
	Spk 2	11.3	11.2	110	100	(68 - 136)	5 %RPD
		Batch #: 0022145				Analysis Date:	02/08/10
Radium 228 by GFPC EPA 904 MOD		pCi/L	904 MOD			F0A220000-148C	
Radium 228	6.45	8.22	0.95	93	127	(60 - 142)	
	Spk 2	6.45	7.58	99	118	(60 - 142)	8 %RPD
		Batch #: 0022148				Analysis Date:	02/08/10
SR-90 BY GFPC EPA-905 MOD		pCi/L	905 MOD			F0A220000-149C	
Strontium 90	6.81	6.74	0.79	77	99	(80 - 130)	
	Spk 2	6.81	6.99	80	103	(80 - 130)	4 %RPD
		Batch #: 0022149				Analysis Date:	02/01/10

NOTE(S)

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

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: F0A200486 Date Sampled: 01/18/10
 Matrix: WATER Date Received: 01/20/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/−)	Spike Yld.	Sample Result	Total Uncert. (2σ +/−)	%YLD	%REC	QC Sample ID	QC Control Limits
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0A200486-001			
Gross Beta	68.1	10.0	1.6		0.83	0.99	14	a	(54 - 150)	
	Batch #:	0025415		Analysis Date: 01/29/10						
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			F0A200486-001			
Gross Alpha	49.4	6.9	1.6		0.98	0.70	12	a	(35 - 150)	
	Batch #:	0025415		Analysis Date: 01/29/10						
TRITIUM (Distill) by EPA	906.0 MOD		pCi/L	906.0 MOD			F0A200494-001			
Tritium	4540	4350	460		64	88	94		(62 - 147)	
	Batch #:	0028080		Analysis Date: 01/29/10						

NOTE (S)

Data are incomplete without the case narrative.

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

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID:	FOA200486	Date Sampled:	01/18/10	0730
Matrix:	WATER	Date Received:	01/20/10	0915

Parameter	Spike Amount	SPIKE Result	Total Uncert. (2 σ+/-)	Spike Yld	SAMPLE Result	Total Uncert. (2 σ+/-)	% Yld	%Rec	QC Sample ID	QC Control Limits
Total Uranium by KPA ASTM 5										
Total Uranium	27.7	28.8	3.4	-0.0334	U	0.0040	104			(62 - 150)
Spk2	27.7	29.2	3.5	-0.0334	U	0.0040	105			(62 - 150)
				Precision:			2			%RPD
		Batch #:	0035029		Analysis date:	02/08/10				

NOTE (S)

Data are incomplete without the case narrative.

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

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F0A210540 Date Sampled: 01/18/10
 Matrix: WATER Date Received: 01/20/10

Parameter	SAMPLE Result	Total Uncert. (2 σ +/-)	DUPLICATE			Total Uncert. (2 σ +/-)	% Yld	QC Sample ID
			% Yld	Result	Precision			
Gross Alpha/Beta EPA 900								
Gross Alpha	0.98	J	0.70	0.71	J	0.85	32	%RPD
Gross Beta	0.83	U	0.99	1.6	J	1.0	62	%RPD
	Batch #: 0025415 (Sample)			0025415 (Duplicate)				
TRITIUM (Distill) by EPA 906.0 MOD								
Tritium	99	U	94	-49	U	64	586	%RPD
	Batch #: 0028080 (Sample)			0028080 (Duplicate)				
Gamma Cs-137 & Hits by EPA 901.1 MOD								
Cesium 137	-2.3	U	9.2	-1.4	U	9.8	47	%RPD
Potassium 40	-30	U	240	-60	U	440	69	%RPD
	Batch #: 0023036 (Sample)			0023036 (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.