

APPENDIX G

Section 2

Outfall 002, September 22, 2007

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: Annual Outfall 002

Sampled: 09/22/07
Received: 09/22/07
Revised: 10/25/07 14:15

NELAP #01108CA California ELAP#1197 CSDLAC #10256

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

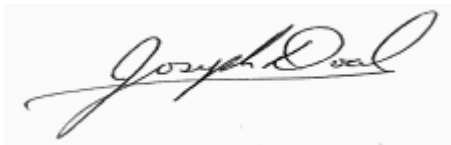
SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This is a revised report provided to reflect the proper results for Calcium and Magnesium by EPA 200.7 which was used to calculate Total Hardness. All other data is unchanged.

LABORATORY ID	CLIENT ID	MATRIX
IQI2057-01	Outfall 002	Water
IQI2057-02	Trip Blank	Water

Reviewed By:



TestAmerica - Irvine, CA

Joseph Doak
Project Manager

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water)									
Reporting Units: mg/l									
Total Recoverable Hydrocarbons	EPA 418.1	7124051	0.60	1.0	ND	1	09/24/07	09/24/07	

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NPDES-57

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: mg/l									
EFH (C13 - C22)	EPA 8015B	7127058	0.098	0.49	0.20	0.98	09/27/07	09/27/07	Ja
Surrogate: n-Octacosane (40-125%)					65 %				

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NPDES-58

MWH-Pasadena/Boeing
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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: mg/l									
GRO (C4 - C12)	EPA 8015 Mod.	7J01047	0.025	0.10	ND	1	10/01/07	10/01/07	
<i>Surrogate: 4-BFB (FID) (65-140%)</i>					<i>102 %</i>				

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NPDES-59

MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Benzene	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	P1
Bromodichloromethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
Bromoform	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	
Bromomethane	EPA 624	7I24003	0.42	5.0	ND	1	09/24/07	09/24/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7I24003	1.5	5.0	ND	1	09/24/07	09/24/07	
Carbon tetrachloride	EPA 624	7I24003	0.28	5.0	ND	1	09/24/07	09/24/07	
Chlorobenzene	EPA 624	7I24003	0.36	2.0	ND	1	09/24/07	09/24/07	
Chloroethane	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	M1
Chloroform	EPA 624	7I24003	0.33	2.0	ND	1	09/24/07	09/24/07	
Chloromethane	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	
Dibromochloromethane	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichlorobenzene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
1,3-Dichlorobenzene	EPA 624	7I24003	0.35	2.0	ND	1	09/24/07	09/24/07	
1,4-Dichlorobenzene	EPA 624	7I24003	0.37	2.0	ND	1	09/24/07	09/24/07	
1,1-Dichloroethane	EPA 624	7I24003	0.27	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichloroethane	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	
1,1-Dichloroethene	EPA 624	7I24003	0.42	3.0	ND	1	09/24/07	09/24/07	
trans-1,2-Dichloroethene	EPA 624	7I24003	0.27	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichloropropane	EPA 624	7I24003	0.35	2.0	ND	1	09/24/07	09/24/07	
cis-1,3-Dichloropropene	EPA 624	7I24003	0.22	2.0	ND	1	09/24/07	09/24/07	
trans-1,3-Dichloropropene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
Ethylbenzene	EPA 624	7I24003	0.25	2.0	ND	1	09/24/07	09/24/07	
Methylene chloride	EPA 624	7I24003	0.95	5.0	ND	1	09/24/07	09/24/07	
1,1,2,2-Tetrachloroethane	EPA 624	7I24003	0.24	2.0	ND	1	09/24/07	09/24/07	M1
Tetrachloroethene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
Toluene	EPA 624	7I24003	0.36	2.0	ND	1	09/24/07	09/24/07	
1,1,1-Trichloroethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
1,1,2-Trichloroethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
Trichloroethene	EPA 624	7I24003	0.26	5.0	ND	1	09/24/07	09/24/07	
Trichlorofluoromethane	EPA 624	7I24003	0.34	5.0	ND	1	09/24/07	09/24/07	M1
Vinyl chloride	EPA 624	7I24003	0.30	5.0	ND	1	09/24/07	09/24/07	L, M7
Xylenes, Total	EPA 624	7I24003	0.90	4.0	ND	1	09/24/07	09/24/07	

Surrogate: Dibromofluoromethane (80-120%)

103 %

Surrogate: Toluene-d8 (80-120%)

104 %

Surrogate: 4-Bromofluorobenzene (80-120%)

101 %

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 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-02 (Trip Blank - Water)									P1
Reporting Units: ug/l									
Benzene	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	
Bromodichloromethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
Bromoform	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	
Bromomethane	EPA 624	7I24003	0.42	5.0	ND	1	09/24/07	09/24/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7I24003	1.5	5.0	ND	1	09/24/07	09/24/07	
Carbon tetrachloride	EPA 624	7I24003	0.28	5.0	ND	1	09/24/07	09/24/07	
Chlorobenzene	EPA 624	7I24003	0.36	2.0	ND	1	09/24/07	09/24/07	
Chloroethane	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	
Chloroform	EPA 624	7I24003	0.33	2.0	ND	1	09/24/07	09/24/07	
Chloromethane	EPA 624	7I24003	0.40	5.0	ND	1	09/24/07	09/24/07	
Dibromochloromethane	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichlorobenzene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
1,3-Dichlorobenzene	EPA 624	7I24003	0.35	2.0	ND	1	09/24/07	09/24/07	
1,4-Dichlorobenzene	EPA 624	7I24003	0.37	2.0	ND	1	09/24/07	09/24/07	
1,1-Dichloroethane	EPA 624	7I24003	0.27	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichloroethane	EPA 624	7I24003	0.28	2.0	ND	1	09/24/07	09/24/07	
1,1-Dichloroethene	EPA 624	7I24003	0.42	3.0	ND	1	09/24/07	09/24/07	
trans-1,2-Dichloroethene	EPA 624	7I24003	0.27	2.0	ND	1	09/24/07	09/24/07	
1,2-Dichloropropane	EPA 624	7I24003	0.35	2.0	ND	1	09/24/07	09/24/07	
cis-1,3-Dichloropropene	EPA 624	7I24003	0.22	2.0	ND	1	09/24/07	09/24/07	
trans-1,3-Dichloropropene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
Ethylbenzene	EPA 624	7I24003	0.25	2.0	ND	1	09/24/07	09/24/07	
Methylene chloride	EPA 624	7I24003	0.95	5.0	ND	1	09/24/07	09/24/07	
1,1,2,2-Tetrachloroethane	EPA 624	7I24003	0.24	2.0	ND	1	09/24/07	09/24/07	
Tetrachloroethene	EPA 624	7I24003	0.32	2.0	ND	1	09/24/07	09/24/07	
Toluene	EPA 624	7I24003	0.36	2.0	ND	1	09/24/07	09/24/07	
1,1,1-Trichloroethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
1,1,2-Trichloroethane	EPA 624	7I24003	0.30	2.0	ND	1	09/24/07	09/24/07	
Trichloroethene	EPA 624	7I24003	0.26	5.0	ND	1	09/24/07	09/24/07	
Trichlorofluoromethane	EPA 624	7I24003	0.34	5.0	ND	1	09/24/07	09/24/07	
Vinyl chloride	EPA 624	7I24003	0.30	5.0	ND	1	09/24/07	09/24/07	L
Xylenes, Total	EPA 624	7I24003	0.90	4.0	ND	1	09/24/07	09/24/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>107 %</i>				
<i>Surrogate: Toluene-d8 (80-120%)</i>					<i>105 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					<i>98 %</i>				

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 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7I24003	4.0	50	ND	1	09/24/07	09/24/07	
Acrylonitrile	EPA 624	7I24003	0.70	50	ND	1	09/24/07	09/24/07	
2-Chloroethyl vinyl ether	EPA 624	7I24003	1.8	5.0	ND	1	09/24/07	09/24/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					103 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					104 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					101 %				
Sample ID: IQI2057-02 (Trip Blank - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7I24003	4.0	50	ND	1	09/24/07	09/24/07	
Acrylonitrile	EPA 624	7I24003	0.70	50	ND	1	09/24/07	09/24/07	
2-Chloroethyl vinyl ether	EPA 624	7I24003	1.8	5.0	ND	1	09/24/07	09/24/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					107 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					105 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				

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Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water)									P1
Reporting Units: ug/l									
Cyclohexane	EPA 624 (MOD.)	7124003	N/A	2.5	ND	1	09/24/07	09/24/07	
freon 123a	EPA 624 (MOD.)	7124003	N/A	2.5	ND	1	09/24/07	09/24/07	
Sample ID: IQI2057-02 (Trip Blank - Water)									P1
Reporting Units: ug/l									
Cyclohexane	EPA 624 (MOD.)	7124003	N/A	2.5	ND	1	09/24/07	09/24/07	
freon 123a	EPA 624 (MOD.)	7124003	N/A	2.5	ND	1	09/24/07	09/24/07	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Acenaphthylene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Anthracene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Benzidine	EPA 625	7124082	0.94	4.7	ND	0.943	09/24/07	09/27/07	L6
Benzo(a)anthracene	EPA 625	7124082	0.094	4.7	ND	0.943	09/24/07	09/27/07	
Benzo(a)pyrene	EPA 625	7124082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
Benzo(b)fluoranthene	EPA 625	7124082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
Benzo(g,h,i)perylene	EPA 625	7124082	0.094	4.7	ND	0.943	09/24/07	09/27/07	
Benzo(k)fluoranthene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Bis(2-chloroethoxy)methane	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Bis(2-chloroethyl)ether	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Bis(2-chloroisopropyl)ether	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7124082	1.6	4.7	1.9	0.943	09/24/07	09/27/07	Ja
4-Bromophenyl phenyl ether	EPA 625	7124082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
Butyl benzyl phthalate	EPA 625	7124082	0.66	4.7	1.0	0.943	09/24/07	09/27/07	Ja
4-Chloroaniline	EPA 625	7124082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
2-Chloronaphthalene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
4-Chloro-3-methylphenol	EPA 625	7124082	0.19	1.9	ND	0.943	09/24/07	09/27/07	
4-Chlorophenyl phenyl ether	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
2-Chlorophenol	EPA 625	7124082	0.19	0.94	ND	0.943	09/24/07	09/27/07	
Chrysene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Dibenz(a,h)anthracene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Dibenzofuran	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Di-n-butyl phthalate	EPA 625	7124082	0.19	1.9	ND	0.943	09/24/07	09/27/07	
3,3-Dichlorobenzidine	EPA 625	7124082	0.38	4.7	ND	0.943	09/24/07	09/27/07	
2,4-Dichlorophenol	EPA 625	7124082	0.19	1.9	ND	0.943	09/24/07	09/27/07	
Diethyl phthalate	EPA 625	7124082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
2,4-Dimethylphenol	EPA 625	7124082	0.28	1.9	0.32	0.943	09/24/07	09/27/07	Ja
Dimethyl phthalate	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
4,6-Dinitro-2-methylphenol	EPA 625	7124082	0.19	4.7	ND	0.943	09/24/07	09/27/07	
2,4-Dinitrophenol	EPA 625	7124082	0.85	4.7	ND	0.943	09/24/07	09/27/07	
2,4-Dinitrotoluene	EPA 625	7124082	0.19	4.7	ND	0.943	09/24/07	09/27/07	
2,6-Dinitrotoluene	EPA 625	7124082	0.094	4.7	ND	0.943	09/24/07	09/27/07	
Di-n-octyl phthalate	EPA 625	7124082	0.094	4.7	ND	0.943	09/24/07	09/27/07	L
Fluoranthene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Fluorene	EPA 625	7124082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Hexachlorobenzene	EPA 625	7124082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
Hexachlorocyclopentadiene	EPA 625	7124082	0.094	4.7	ND	0.943	09/24/07	09/27/07	
Hexachloroethane	EPA 625	7124082	0.19	2.8	ND	0.943	09/24/07	09/27/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7124082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
Isophorone	EPA 625	7124082	0.094	0.94	ND	0.943	09/24/07	09/27/07	

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NPDES-64

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
4-Methylphenol	EPA 625	7I24082	0.19	4.7	18	0.943	09/24/07	09/27/07	
Nitrobenzene	EPA 625	7I24082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
2-Nitrophenol	EPA 625	7I24082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
4-Nitrophenol	EPA 625	7I24082	2.4	4.7	ND	0.943	09/24/07	09/27/07	
N-Nitrosodimethylamine	EPA 625	7I24082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
N-Nitroso-di-n-propylamine	EPA 625	7I24082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
N-Nitrosodiphenylamine	EPA 625	7I24082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
Pentachlorophenol	EPA 625	7I24082	0.094	1.9	ND	0.943	09/24/07	09/27/07	
Phenanthrene	EPA 625	7I24082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
Phenol	EPA 625	7I24082	0.28	0.94	3.2	0.943	09/24/07	09/27/07	
Pyrene	EPA 625	7I24082	0.094	0.47	ND	0.943	09/24/07	09/27/07	
2,4,5-Trichlorophenol	EPA 625	7I24082	0.19	1.9	ND	0.943	09/24/07	09/27/07	
2,4,6-Trichlorophenol	EPA 625	7I24082	0.094	0.94	ND	0.943	09/24/07	09/27/07	
<i>Surrogate: 2-Fluorophenol (30-120%)</i>					73 %				
<i>Surrogate: Phenol-d6 (35-120%)</i>					82 %				
<i>Surrogate: 2,4,6-Tribromophenol (40-120%)</i>					79 %				
<i>Surrogate: Nitrobenzene-d5 (40-120%)</i>					86 %				
<i>Surrogate: 2-Fluorobiphenyl (45-120%)</i>					64 %				
<i>Surrogate: Terphenyl-d14 (45-120%)</i>					91 %				

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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
alpha-BHC	EPA 608	7124073	0.0024	0.0094	ND	0.943	09/24/07	09/24/07	
beta-BHC	EPA 608	7124073	0.038	0.094	ND	0.943	09/24/07	09/24/07	
delta-BHC	EPA 608	7124073	0.019	0.19	ND	0.943	09/24/07	09/24/07	
gamma-BHC (Lindane)	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Chlordane	EPA 608	7124073	0.19	0.94	ND	0.943	09/24/07	09/24/07	
4,4'-DDD	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
4,4'-DDE	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
4,4'-DDT	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Dieldrin	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Endosulfan I	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Endosulfan II	EPA 608	7124073	0.038	0.094	ND	0.943	09/24/07	09/24/07	
Endosulfan sulfate	EPA 608	7124073	0.047	0.19	ND	0.943	09/24/07	09/24/07	
Endrin	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Endrin aldehyde	EPA 608	7124073	0.047	0.094	ND	0.943	09/24/07	09/24/07	
Endrin ketone	EPA 608	7124073	0.038	0.094	ND	0.943	09/24/07	09/24/07	
Heptachlor	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Heptachlor epoxide	EPA 608	7124073	0.028	0.094	ND	0.943	09/24/07	09/24/07	
Methoxychlor	EPA 608	7124073	0.038	0.094	ND	0.943	09/24/07	09/24/07	C
Toxaphene	EPA 608	7124073	1.4	4.7	ND	0.943	09/24/07	09/24/07	
Surrogate: Tetrachloro- <i>m</i> -xylene (35-115%)					26 %				Z
Surrogate: Decachlorobiphenyl (45-120%)					27 %				Z
Surrogate: Tetrachloro- <i>m</i> -xylene (35-115%)					26 %				Z
Surrogate: Decachlorobiphenyl (45-120%)					27 %				Z

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Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7124073	0.42	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1221	EPA 608	7124073	0.094	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1232	EPA 608	7124073	0.24	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1242	EPA 608	7124073	0.24	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1248	EPA 608	7124073	0.24	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1254	EPA 608	7124073	0.24	0.94	ND	0.943	09/24/07	09/25/07	
Aroclor 1260	EPA 608	7124073	0.28	0.94	ND	0.943	09/24/07	09/25/07	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					33 %				Z

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: mg/l									
Barium	EPA 200.7	7I25144	0.0060	0.010	2.3	1	09/25/07	09/26/07	
Boron	EPA 200.7	7I25144	0.020	0.050	0.22	1	09/25/07	09/26/07	
Calcium	EPA 200.7	7I25144	0.050	0.10	310	1	09/25/07	09/26/07	
Iron	EPA 200.7	7I25144	0.015	0.040	97	1	09/25/07	09/26/07	
Magnesium	EPA 200.7	7I25144	0.012	0.020	54	1	09/25/07	09/26/07	
Hardness (as CaCO ₃)	2340B/200.7	7I25144	1.0	1.0	990	1	09/25/07	09/26/07	

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NPDES-68

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8	7I25136	1.0	10	ND	5	09/25/07	09/26/07	RL1
Arsenic	EPA 200.7	7I25144	7.0	10	35	1	09/25/07	09/26/07	
Beryllium	EPA 200.7	7I25144	0.90	2.0	11	1	09/25/07	09/26/07	
Cadmium	EPA 200.8	7I25136	0.55	5.0	6.9	5	09/25/07	09/26/07	
Chromium	EPA 200.7	7I25144	2.0	5.0	100	1	09/25/07	09/26/07	
Cobalt	EPA 200.7	7I25144	2.0	10	91	1	09/25/07	09/26/07	
Copper	EPA 200.8	7I25136	3.8	10	100	5	09/25/07	09/26/07	
Lead	EPA 200.8	7I25136	0.50	5.0	310	5	09/25/07	09/26/07	
Manganese	EPA 200.7	7I25144	14	40	11000	2	09/25/07	09/26/07	
Nickel	EPA 200.7	7I25144	2.0	10	110	1	09/25/07	09/26/07	
Selenium	EPA 200.8	7I25136	1.5	10	3.9	5	09/25/07	09/26/07	RL1, Ja
Silver	EPA 200.8	7I25136	1.0	5.0	ND	5	09/25/07	09/26/07	RL1
Thallium	EPA 200.8	7I25136	0.75	5.0	1.9	5	09/25/07	09/26/07	RL1, Ja
Vanadium	EPA 200.7	7I25144	3.0	10	210	1	09/25/07	09/26/07	
Zinc	EPA 200.7	7I25144	12	40	790	2	09/25/07	10/01/07	

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: mg/l									
Barium	EPA 200.7-Diss	7I24139	0.0060	0.010	0.044	1	09/24/07	09/27/07	
Beryllium	EPA 200.7-Diss	7I24139	0.00090	0.0020	ND	1	09/24/07	09/27/07	
Boron	EPA 200.7-Diss	7I24139	0.020	0.050	0.083	1	09/24/07	09/27/07	
Calcium	EPA 200.7-Diss	7I24139	0.050	0.10	32	1	09/24/07	09/27/07	MHA
Chromium	EPA 200.7-Diss	7I24139	0.0020	0.0050	ND	1	09/24/07	09/27/07	
Cobalt	EPA 200.7-Diss	7I24139	0.0020	0.010	0.0032	1	09/24/07	09/27/07	Ja
Iron	EPA 200.7-Diss	7I24139	0.015	0.040	0.62	1	09/24/07	09/27/07	M1
Magnesium	EPA 200.7-Diss	7I24139	0.012	0.020	7.6	1	09/24/07	09/27/07	
Manganese	EPA 200.7-Diss	7I24139	0.0070	0.020	0.26	1	09/24/07	09/27/07	
Hardness (as CaCO3)	SM2340B	7I24139	1.0	1.0	110	1	09/24/07	09/27/07	
Vanadium	EPA 200.7-Diss	7I24139	0.0030	0.010	0.0042	1	09/24/07	09/27/07	Ja
Zinc	EPA 200.7-Diss	7I24139	0.0060	0.020	ND	1	09/24/07	09/27/07	

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7I26138	0.40	4.0	0.93	2	09/26/07	09/28/07	RL1, Ja
Cadmium	EPA 200.8-Diss	7I26138	0.22	2.0	ND	2	09/26/07	09/28/07	RL1
Copper	EPA 200.8-Diss	7I26138	1.5	4.0	7.9	2	09/26/07	09/28/07	
Lead	EPA 200.8-Diss	7I26138	0.20	2.0	1.9	2	09/26/07	09/29/07	RL1, Ja
Nickel	EPA 200.8-Diss	7I26138	1.8	4.0	5.3	2	09/26/07	09/28/07	
Selenium	EPA 200.8-Diss	7I26138	0.60	4.0	0.76	2	09/26/07	09/28/07	RL1, Ja
Silver	EPA 200.8-Diss	7I26138	0.40	2.0	ND	2	09/26/07	09/28/07	RL1
Thallium	EPA 200.8-Diss	7I26138	0.30	2.0	0.31	2	09/26/07	09/29/07	RL1, Ja

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: mg/l									
Ammonia-N (Distilled)	EPA 350.2	7I27098	0.30	0.50	5.9	1	09/27/07	09/27/07	
Biochemical Oxygen Demand	EPA 405.1	7I24075	0.59	2.0	20	1	09/24/07	09/29/07	
Chloride	EPA 300.0	7I24057	0.25	0.50	4.4	1	09/24/07	09/24/07	
Fluoride	EPA 300.0	7I24057	0.15	0.50	0.50	1	09/24/07	09/24/07	Ja
Nitrate-N	EPA 300.0	7I24057	0.060	0.11	3.8	1	09/24/07	09/24/07	M2
Nitrite-N	EPA 300.0	7I24057	0.090	0.15	0.22	1	09/24/07	09/24/07	
Nitrate/Nitrite-N	EPA 300.0	7I24057	0.15	0.26	4.0	1	09/24/07	09/24/07	
Oil & Grease	EPA 413.1	7I25056	1.2	5.0	1.5	1	09/25/07	09/25/07	Ja
Residual Chlorine	EPA 330.5	7I24093	0.10	0.10	ND	1	09/24/07	09/24/07	HFT
Sulfate	EPA 300.0	7I24057	0.20	0.50	11	1	09/24/07	09/24/07	
Surfactants (MBAS)	SM5540-C	7I24074	0.044	0.10	0.13	1	09/24/07	09/24/07	
Total Dissolved Solids	SM2540C	7I27118	10	10	780	1	09/27/07	09/27/07	
Total Organic Carbon	EPA 415.1	7I29052	2.5	5.0	53	5	09/29/07	09/29/07	
Total Suspended Solids	EPA 160.2	7I25131	10	10	33000	1	09/25/07	09/25/07	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ml/l/hr									
Total Settleable Solids	EPA 160.5	7122057	0.10	0.10	ND	1	09/22/07	09/22/07	A-01

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NPDES-73

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: NTU									
Turbidity	EPA 180.1	7122051	40	1000	8400	1000	09/22/07	09/22/07	

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NPDES-74

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7126122	2.2	5.0	10	1	09/26/07	09/26/07	
Perchlorate	EPA 314.0	7128071	3.0	8.0	ND	2	09/28/07	09/28/07	RL1

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NPDES-75

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	7127125	1.0	1.0	300	1	09/27/07	09/27/07	

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NPDES-76

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W7I1160	0.025	0.10	0.029	1	09/27/07	09/27/07	J
Mercury, Total	EPA 245.1	W7I1160	0.025	0.10	0.042	1	09/27/07	09/27/07	J

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NPDES-77

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2057-01 (Outfall 002 - Water) - cont.									
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B	P7I2709	0.36	1.0	0.40	1	09/27/07	09/27/07	Ja
<i>Surrogate: Dibromofluoromethane (80-130%)</i>					<i>137 %</i>				<i>ZZ</i>

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NPDES-78

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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 (IQI2057-01) - Water					
EPA 160.5	2	09/22/2007 11:10	09/22/2007 16:10	09/22/2007 17:55	09/22/2007 17:55
EPA 180.1	2	09/22/2007 11:10	09/22/2007 16:10	09/22/2007 17:55	09/22/2007 17:55
EPA 300.0	2	09/22/2007 11:10	09/22/2007 16:10	09/24/2007 07:00	09/24/2007 10:14
EPA 330.5	1	09/22/2007 11:10	09/22/2007 16:10	09/24/2007 11:18	09/24/2007 12:00
EPA 405.1	2	09/22/2007 11:10	09/22/2007 16:10	09/24/2007 09:00	09/29/2007 12:00
EPA 624	3	09/22/2007 11:10	09/22/2007 16:10	09/24/2007 00:00	09/24/2007 10:54
SM5540-C	2	09/22/2007 11:10	09/22/2007 16:10	09/24/2007 09:00	09/24/2007 10:02
Sample ID: Trip Blank (IQI2057-02) - Water					
EPA 624	3	09/22/2007 16:10	09/22/2007 16:10	09/24/2007 00:00	09/24/2007 18:01

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

Project ID: Annual Outfall 002
 Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7124051 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7124051-BLK1)											
Total Recoverable Hydrocarbons	ND	1.0	0.60	mg/l							
LCS Analyzed: 09/24/2007 (7124051-BS1)											
Total Recoverable Hydrocarbons	4.74	1.0	0.60	mg/l	5.00		95	65-120			MNRI
LCS Dup Analyzed: 09/24/2007 (7124051-BSD1)											
Total Recoverable Hydrocarbons	4.74	1.0	0.60	mg/l	5.00		95	65-120	0	20	

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 Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7127058 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (7127058-BLK1)											
EFH (C13 - C22)	ND	0.50	0.10	mg/l							
EFH (C13 - C40)	ND	0.50	0.10	mg/l							
Surrogate: n-Octacosane	0.130			mg/l	0.200		65	40-125			
LCS Analyzed: 09/27/2007 (7127058-BS1)											
EFH (C13 - C40)	0.500	0.50	0.10	mg/l	0.750		67	40-115			MNRI, Ja
Surrogate: n-Octacosane	0.120			mg/l	0.200		60	40-125			MNRI
LCS Dup Analyzed: 09/27/2007 (7127058-BSD1)											
EFH (C13 - C40)	0.525	0.50	0.10	mg/l	0.750		70	40-115	5	25	
Surrogate: n-Octacosane	0.129			mg/l	0.200		64	40-125			

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 Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5030/CADHS Mod. 8015)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7J01047 Extracted: 10/01/07											
Blank Analyzed: 10/01/2007 (7J01047-BLK1)											
GRO (C4 - C12)	ND	0.10	0.025	mg/l							
Surrogate: 4-BFB (FID)	0.0100			mg/l	0.0100		100	65-140			
LCS Analyzed: 10/01/2007 (7J01047-BS1)											
GRO (C4 - C12)	0.668	0.10	0.025	mg/l	0.800		84	80-120			
Surrogate: 4-BFB (FID)	0.0157			mg/l	0.0100		157	65-140			ZX
Matrix Spike Analyzed: 10/01/2007 (7J01047-MS1)											
						Source: IQI2321-07					
GRO (C4 - C12)	0.238	0.10	0.025	mg/l	0.220	ND	108	65-140			
Surrogate: 4-BFB (FID)	0.0111			mg/l	0.0100		111	65-140			
Matrix Spike Dup Analyzed: 10/01/2007 (7J01047-MSD1)											
						Source: IQI2321-07					
GRO (C4 - C12)	0.236	0.10	0.025	mg/l	0.220	ND	107	65-140	1	20	
Surrogate: 4-BFB (FID)	0.0108			mg/l	0.0100		108	65-140			

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Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7I24003 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7I24003-BLK1)											
Benzene	ND	2.0	0.28	ug/l							
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	5.0	0.40	ug/l							
Bromomethane	ND	5.0	0.42	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	1.5	ug/l							
Carbon tetrachloride	ND	5.0	0.28	ug/l							
Chlorobenzene	ND	2.0	0.36	ug/l							
Chloroethane	ND	5.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Chloromethane	ND	5.0	0.40	ug/l							
Dibromochloromethane	ND	2.0	0.28	ug/l							
1,2-Dichlorobenzene	ND	2.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	2.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	2.0	0.37	ug/l							
1,1-Dichloroethane	ND	2.0	0.27	ug/l							
1,2-Dichloroethane	ND	2.0	0.28	ug/l							
1,1-Dichloroethene	ND	3.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	2.0	0.27	ug/l							
1,2-Dichloropropane	ND	2.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	2.0	0.22	ug/l							
trans-1,3-Dichloropropene	ND	2.0	0.32	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Methylene chloride	ND	5.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/l							
Tetrachloroethene	ND	2.0	0.32	ug/l							
Toluene	ND	2.0	0.36	ug/l							
1,1,1-Trichloroethane	ND	2.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	2.0	0.30	ug/l							
Trichloroethene	ND	5.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	5.0	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Surrogate: Dibromofluoromethane	26.2			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	26.0			ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.1			ug/l	25.0		100	80-120			

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Received: 09/22/07

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
Batch: 7I24003 Extracted: 09/24/07											
LCS Analyzed: 09/24/2007 (7I24003-BS1)											
Benzene	26.6	2.0	0.28	ug/l	25.0		106	70-120			
Bromodichloromethane	27.8	2.0	0.30	ug/l	25.0		111	70-135			
Bromoform	28.8	5.0	0.40	ug/l	25.0		115	55-130			
Bromomethane	33.6	5.0	0.42	ug/l	25.0		134	65-140			
Carbon tetrachloride	29.9	5.0	0.28	ug/l	25.0		119	65-140			
Chlorobenzene	27.5	2.0	0.36	ug/l	25.0		110	75-120			
Chloroethane	34.3	5.0	0.40	ug/l	25.0		137	60-140			
Chloroform	29.2	2.0	0.33	ug/l	25.0		117	70-130			
Chloromethane	33.7	5.0	0.40	ug/l	25.0		135	50-140			
Dibromochloromethane	30.0	2.0	0.28	ug/l	25.0		120	70-140			
1,2-Dichlorobenzene	26.6	2.0	0.32	ug/l	25.0		106	75-120			
1,3-Dichlorobenzene	28.4	2.0	0.35	ug/l	25.0		114	75-120			
1,4-Dichlorobenzene	24.7	2.0	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	28.8	2.0	0.27	ug/l	25.0		115	70-125			
1,2-Dichloroethane	31.1	2.0	0.28	ug/l	25.0		124	60-140			
1,1-Dichloroethene	25.4	3.0	0.42	ug/l	25.0		101	70-125			
trans-1,2-Dichloroethene	27.2	2.0	0.27	ug/l	25.0		109	70-125			
1,2-Dichloropropane	28.6	2.0	0.35	ug/l	25.0		114	70-125			
cis-1,3-Dichloropropene	28.2	2.0	0.22	ug/l	25.0		113	75-125			
trans-1,3-Dichloropropene	26.5	2.0	0.32	ug/l	25.0		106	70-125			
Ethylbenzene	29.2	2.0	0.25	ug/l	25.0		117	75-125			
Methylene chloride	26.1	5.0	0.95	ug/l	25.0		105	55-130			
1,1,2,2-Tetrachloroethane	30.9	2.0	0.24	ug/l	25.0		123	55-130			
Tetrachloroethene	28.4	2.0	0.32	ug/l	25.0		114	70-125			
Toluene	27.8	2.0	0.36	ug/l	25.0		111	70-120			
1,1,1-Trichloroethane	31.1	2.0	0.30	ug/l	25.0		124	65-135			
1,1,2-Trichloroethane	29.7	2.0	0.30	ug/l	25.0		119	70-125			
Trichloroethene	27.8	5.0	0.26	ug/l	25.0		111	70-125			
Trichlorofluoromethane	35.2	5.0	0.34	ug/l	25.0		141	65-145			
Vinyl chloride	35.6	5.0	0.30	ug/l	25.0		142	55-135			L
Xylenes, Total	86.5	4.0	0.90	ug/l	75.0		115	70-125			
Surrogate: Dibromofluoromethane	26.3			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	25.8			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	26.1			ug/l	25.0		104	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: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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
Batch: 7I24003 Extracted: 09/24/07											
Matrix Spike Analyzed: 09/24/2007 (7I24003-MS1)						Source: IQI2057-01					
Benzene	29.4	2.0	0.28	ug/l	25.0	ND	118	65-125			
Bromodichloromethane	30.9	2.0	0.30	ug/l	25.0	ND	124	70-135			
Bromoform	31.5	5.0	0.40	ug/l	25.0	ND	126	55-135			
Bromomethane	34.4	5.0	0.42	ug/l	25.0	ND	137	55-145			
Carbon tetrachloride	34.7	5.0	0.28	ug/l	25.0	ND	139	65-140			
Chlorobenzene	30.2	2.0	0.36	ug/l	25.0	ND	121	75-125			
Chloroethane	35.9	5.0	0.40	ug/l	25.0	ND	144	55-140			MI
Chloroform	31.3	2.0	0.33	ug/l	25.0	ND	125	65-135			
Chloromethane	35.0	5.0	0.40	ug/l	25.0	ND	140	45-145			
Dibromochloromethane	32.3	2.0	0.28	ug/l	25.0	ND	129	65-140			
1,2-Dichlorobenzene	28.8	2.0	0.32	ug/l	25.0	ND	115	75-125			
1,3-Dichlorobenzene	31.2	2.0	0.35	ug/l	25.0	ND	125	75-125			
1,4-Dichlorobenzene	27.2	2.0	0.37	ug/l	25.0	ND	109	75-125			
1,1-Dichloroethane	31.4	2.0	0.27	ug/l	25.0	ND	125	65-130			
1,2-Dichloroethane	33.6	2.0	0.28	ug/l	25.0	ND	134	60-140			
1,1-Dichloroethene	26.1	3.0	0.42	ug/l	25.0	ND	104	60-130			
trans-1,2-Dichloroethene	29.8	2.0	0.27	ug/l	25.0	ND	119	65-130			
1,2-Dichloropropane	31.5	2.0	0.35	ug/l	25.0	ND	126	65-130			
cis-1,3-Dichloropropene	31.0	2.0	0.22	ug/l	25.0	ND	124	70-130			
trans-1,3-Dichloropropene	29.0	2.0	0.32	ug/l	25.0	ND	116	65-135			
Ethylbenzene	32.3	2.0	0.25	ug/l	25.0	ND	129	65-130			
Methylene chloride	28.0	5.0	0.95	ug/l	25.0	ND	112	50-135			
1,1,2,2-Tetrachloroethane	34.2	2.0	0.24	ug/l	25.0	ND	137	55-135			MI
Tetrachloroethene	31.8	2.0	0.32	ug/l	25.0	ND	127	65-130			
Toluene	31.1	2.0	0.36	ug/l	25.0	ND	124	70-125			
1,1,1-Trichloroethane	34.2	2.0	0.30	ug/l	25.0	ND	137	65-140			
1,1,2-Trichloroethane	32.6	2.0	0.30	ug/l	25.0	ND	130	65-130			
Trichloroethene	30.9	5.0	0.26	ug/l	25.0	ND	124	65-125			
Trichlorofluoromethane	36.6	5.0	0.34	ug/l	25.0	ND	146	60-145			MI
Vinyl chloride	37.7	5.0	0.30	ug/l	25.0	ND	151	45-140			M7
Xylenes, Total	95.4	4.0	0.90	ug/l	75.0	ND	127	60-130			
Surrogate: Dibromofluoromethane	25.7			ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.9			ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	80-120			

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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
Batch: 7I24003 Extracted: 09/24/07											
Matrix Spike Dup Analyzed: 09/24/2007 (7I24003-MSD1)						Source: IQI2057-01					
Benzene	25.5	2.0	0.28	ug/l	25.0	ND	102	65-125	14	20	
Bromodichloromethane	26.2	2.0	0.30	ug/l	25.0	ND	105	70-135	16	20	
Bromoform	28.2	5.0	0.40	ug/l	25.0	ND	113	55-135	11	25	
Bromomethane	29.6	5.0	0.42	ug/l	25.0	ND	118	55-145	15	25	
Carbon tetrachloride	28.6	5.0	0.28	ug/l	25.0	ND	114	65-140	19	25	
Chlorobenzene	26.1	2.0	0.36	ug/l	25.0	ND	104	75-125	15	20	
Chloroethane	31.2	5.0	0.40	ug/l	25.0	ND	125	55-140	14	25	
Chloroform	27.3	2.0	0.33	ug/l	25.0	ND	109	65-135	14	20	
Chloromethane	29.8	5.0	0.40	ug/l	25.0	ND	119	45-145	16	25	
Dibromochloromethane	28.8	2.0	0.28	ug/l	25.0	ND	115	65-140	11	25	
1,2-Dichlorobenzene	25.7	2.0	0.32	ug/l	25.0	ND	103	75-125	12	20	
1,3-Dichlorobenzene	27.0	2.0	0.35	ug/l	25.0	ND	108	75-125	14	20	
1,4-Dichlorobenzene	23.8	2.0	0.37	ug/l	25.0	ND	95	75-125	14	20	
1,1-Dichloroethane	27.1	2.0	0.27	ug/l	25.0	ND	109	65-130	14	20	
1,2-Dichloroethane	29.4	2.0	0.28	ug/l	25.0	ND	117	60-140	13	20	
1,1-Dichloroethene	23.6	3.0	0.42	ug/l	25.0	ND	94	60-130	10	20	
trans-1,2-Dichloroethene	25.9	2.0	0.27	ug/l	25.0	ND	104	65-130	14	20	
1,2-Dichloropropane	27.2	2.0	0.35	ug/l	25.0	ND	109	65-130	14	20	
cis-1,3-Dichloropropene	26.4	2.0	0.22	ug/l	25.0	ND	106	70-130	16	20	
trans-1,3-Dichloropropene	24.6	2.0	0.32	ug/l	25.0	ND	98	65-135	16	25	
Ethylbenzene	28.0	2.0	0.25	ug/l	25.0	ND	112	65-130	14	20	
Methylene chloride	24.4	5.0	0.95	ug/l	25.0	ND	98	50-135	14	20	
1,1,2,2-Tetrachloroethane	34.9	2.0	0.24	ug/l	25.0	ND	140	55-135	2	30	MI
Tetrachloroethene	27.1	2.0	0.32	ug/l	25.0	ND	108	65-130	16	20	
Toluene	26.3	2.0	0.36	ug/l	25.0	ND	105	70-125	17	20	
1,1,1-Trichloroethane	29.5	2.0	0.30	ug/l	25.0	ND	118	65-140	15	20	
1,1,2-Trichloroethane	29.1	2.0	0.30	ug/l	25.0	ND	116	65-130	11	25	
Trichloroethene	26.4	5.0	0.26	ug/l	25.0	ND	106	65-125	16	20	
Trichlorofluoromethane	32.2	5.0	0.34	ug/l	25.0	ND	129	60-145	13	25	
Vinyl chloride	32.0	5.0	0.30	ug/l	25.0	ND	128	45-140	16	30	M7
Xylenes, Total	81.9	4.0	0.90	ug/l	75.0	ND	109	60-130	15	20	
Surrogate: Dibromofluoromethane	26.3			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	25.7			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	24.9			ug/l	25.0		100	80-120			

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 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24003 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7I24003-BLK1)											
Acrolein	ND	50	4.0	ug/l							
Acrylonitrile	ND	50	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	26.2			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	26.0			ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.1			ug/l	25.0		100	80-120			
LCS Analyzed: 09/24/2007 (7I24003-BS1)											
2-Chloroethyl vinyl ether	35.3	5.0	1.8	ug/l	25.0		141	25-170			
Surrogate: Dibromofluoromethane	26.3			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	25.8			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	26.1			ug/l	25.0		104	80-120			
Matrix Spike Analyzed: 09/24/2007 (7I24003-MS1)											
						Source: IQI2057-01					
2-Chloroethyl vinyl ether	38.8	5.0	1.8	ug/l	25.0	ND	155	25-170			
Surrogate: Dibromofluoromethane	25.7			ug/l	25.0		103	80-120			
Surrogate: Toluene-d8	25.9			ug/l	25.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	80-120			
Matrix Spike Dup Analyzed: 09/24/2007 (7I24003-MSD1)											
						Source: IQI2057-01					
2-Chloroethyl vinyl ether	35.3	5.0	1.8	ug/l	25.0	ND	141	25-170	9	25	
Surrogate: Dibromofluoromethane	26.3			ug/l	25.0		105	80-120			
Surrogate: Toluene-d8	25.7			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	24.9			ug/l	25.0		100	80-120			

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Joseph Doak
 Project Manager

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

Project ID: Annual Outfall 002
Report Number: IQI2057

Sampled: 09/22/07
Received: 09/22/07

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24003 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7I24003-BLK1)											
Cyclohexane	ND	2.5	N/A	ug/l							
freon 123a	ND	2.5	N/A	ug/l							

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 Arcadia, CA 91007
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7124082 Extracted: 09/24/07											
Blank Analyzed: 09/27/2007 (7124082-BLK1)											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	1.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	1.98	5.0	1.7	ug/l							Ja
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	1.54	5.0	0.70	ug/l							Ja
4-Chloroaniline	ND	2.0	0.10	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	0.940	2.0	0.20	ug/l							Ja
3,3-Dichlorobenzidine	ND	5.0	0.40	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
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Batch: 7124082 Extracted: 09/24/07

Blank Analyzed: 09/27/2007 (7124082-BLK1)

Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
N-Nitrosodimethylamine	ND	2.0	0.10	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
Surrogate: 2-Fluorophenol	18.6			ug/l	20.0		93	30-120			
Surrogate: Phenol-d6	19.6			ug/l	20.0		98	35-120			
Surrogate: 2,4,6-Tribromophenol	20.9			ug/l	20.0		104	40-120			
Surrogate: Nitrobenzene-d5	10.0			ug/l	10.0		100	40-120			
Surrogate: 2-Fluorobiphenyl	10.2			ug/l	10.0		102	45-120			
Surrogate: Terphenyl-d14	10.3			ug/l	10.0		103	45-120			

LCS Analyzed: 09/27/2007 (7124082-BS1)

MNRI

Acenaphthene	8.64	0.50	0.10	ug/l	10.0		86	55-120			
Acenaphthylene	9.58	0.50	0.10	ug/l	10.0		96	60-120			
Anthracene	9.46	0.50	0.10	ug/l	10.0		95	60-120			
Benzidine	5.84	5.0	1.0	ug/l	10.0		58	25-160			
Benzo(a)anthracene	9.82	5.0	0.10	ug/l	10.0		98	60-120			
Benzo(a)pyrene	8.60	2.0	0.10	ug/l	10.0		86	55-125			
Benzo(b)fluoranthene	7.48	2.0	0.10	ug/l	10.0		75	55-125			
Benzo(g,h,i)perylene	9.14	5.0	0.10	ug/l	10.0		91	45-130			
Benzo(k)fluoranthene	7.94	0.50	0.10	ug/l	10.0		79	50-125			

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Report Number: IQI2057

Sampled: 09/22/07
Received: 09/22/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24082 Extracted: 09/24/07											
LCS Analyzed: 09/27/2007 (7I24082-BS1)											
Bis(2-chloroethoxy)methane	9.10	0.50	0.10	ug/l	10.0		91	55-120			MNRI
Bis(2-chloroethyl)ether	7.86	0.50	0.10	ug/l	10.0		79	50-120			
Bis(2-chloroisopropyl)ether	7.64	0.50	0.10	ug/l	10.0		76	45-120			
Bis(2-ethylhexyl)phthalate	11.7	5.0	1.7	ug/l	10.0		117	60-125			
4-Bromophenyl phenyl ether	9.56	1.0	0.10	ug/l	10.0		96	55-120			
Butyl benzyl phthalate	11.1	5.0	0.70	ug/l	10.0		111	50-125			
4-Chloroaniline	7.92	2.0	0.10	ug/l	10.0		79	50-120			
2-Chloronaphthalene	8.02	0.50	0.10	ug/l	10.0		80	55-120			
4-Chloro-3-methylphenol	9.42	2.0	0.20	ug/l	10.0		94	55-120			
4-Chlorophenyl phenyl ether	9.90	0.50	0.10	ug/l	10.0		99	60-120			
2-Chlorophenol	8.06	1.0	0.20	ug/l	10.0		81	45-120			
Chrysene	8.86	0.50	0.10	ug/l	10.0		89	60-120			
Dibenz(a,h)anthracene	8.28	0.50	0.10	ug/l	10.0		83	50-135			
Dibenzofuran	8.86	0.50	0.10	ug/l	10.0		89	60-120			
Di-n-butyl phthalate	10.4	2.0	0.20	ug/l	10.0		104	55-125			
3,3-Dichlorobenzidine	7.90	5.0	0.40	ug/l	10.0		79	50-135			
2,4-Dichlorophenol	8.44	2.0	0.20	ug/l	10.0		84	50-120			
Diethyl phthalate	10.7	1.0	0.10	ug/l	10.0		107	50-120			
2,4-Dimethylphenol	8.18	2.0	0.30	ug/l	10.0		82	35-120			
Dimethyl phthalate	9.66	0.50	0.10	ug/l	10.0		97	25-120			
4,6-Dinitro-2-methylphenol	8.76	5.0	0.20	ug/l	10.0		88	40-120			
2,4-Dinitrophenol	8.30	5.0	0.90	ug/l	10.0		83	35-120			
2,4-Dinitrotoluene	10.3	5.0	0.20	ug/l	10.0		103	60-120			
2,6-Dinitrotoluene	10.4	5.0	0.10	ug/l	10.0		104	60-120			
Di-n-octyl phthalate	13.8	5.0	0.10	ug/l	10.0		138	60-130			L
Fluoranthene	9.84	0.50	0.10	ug/l	10.0		98	55-120			
Fluorene	10.2	0.50	0.10	ug/l	10.0		102	60-120			
Hexachlorobenzene	9.22	1.0	0.10	ug/l	10.0		92	55-120			
Hexachlorocyclopentadiene	7.24	5.0	0.10	ug/l	10.0		72	20-120			
Hexachloroethane	6.20	3.0	0.20	ug/l	10.0		62	35-120			
Indeno(1,2,3-cd)pyrene	9.08	2.0	0.10	ug/l	10.0		91	45-135			
Isophorone	9.60	1.0	0.10	ug/l	10.0		96	50-120			
4-Methylphenol	8.38	5.0	0.20	ug/l	10.0		84	45-120			
Nitrobenzene	8.48	1.0	0.10	ug/l	10.0		85	50-120			
2-Nitrophenol	8.74	2.0	0.10	ug/l	10.0		87	45-120			

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Project Manager

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

Project ID: Annual Outfall 002
Report Number: IQI2057

Sampled: 09/22/07
Received: 09/22/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7124082 Extracted: 09/24/07											
LCS Analyzed: 09/27/2007 (7124082-BS1)											
4-Nitrophenol	10.4	5.0	2.5	ug/l	10.0		104	40-120			MNR1
N-Nitrosodimethylamine	7.54	2.0	0.10	ug/l	10.0		75	40-120			
N-Nitroso-di-n-propylamine	8.88	2.0	0.10	ug/l	10.0		89	45-120			
N-Nitrosodiphenylamine	9.36	1.0	0.10	ug/l	10.0		94	55-120			
Pentachlorophenol	9.46	2.0	0.10	ug/l	10.0		95	45-125			
Phenanthrene	8.92	0.50	0.10	ug/l	10.0		89	60-120			
Phenol	7.94	1.0	0.30	ug/l	10.0		79	45-120			
Pyrene	9.50	0.50	0.10	ug/l	10.0		95	50-125			
2,4,5-Trichlorophenol	9.34	2.0	0.20	ug/l	10.0		93	50-120			
2,4,6-Trichlorophenol	8.86	1.0	0.10	ug/l	10.0		89	50-120			
Surrogate: 2-Fluorophenol	14.6			ug/l	20.0		73	30-120			
Surrogate: Phenol-d6	15.9			ug/l	20.0		80	35-120			
Surrogate: 2,4,6-Tribromophenol	19.4			ug/l	20.0		97	40-120			
Surrogate: Nitrobenzene-d5	8.48			ug/l	10.0		85	40-120			
Surrogate: 2-Fluorobiphenyl	7.98			ug/l	10.0		80	45-120			
Surrogate: Terphenyl-d14	9.34			ug/l	10.0		93	45-120			
LCS Dup Analyzed: 09/27/2007 (7124082-BSD1)											
Acenaphthene	8.68	0.50	0.10	ug/l	10.0		87	55-120	1	20	
Acenaphthylene	9.90	0.50	0.10	ug/l	10.0		99	60-120	3	20	
Anthracene	9.40	0.50	0.10	ug/l	10.0		94	60-120	1	20	
Benzidine	1.94	5.0	1.0	ug/l	10.0		19	25-160	100	35	L6, R-2, Ja
Benzo(a)anthracene	9.52	5.0	0.10	ug/l	10.0		95	60-120	3	20	
Benzo(a)pyrene	8.42	2.0	0.10	ug/l	10.0		84	55-125	2	25	
Benzo(b)fluoranthene	7.46	2.0	0.10	ug/l	10.0		75	55-125	0	25	
Benzo(g,h,i)perylene	9.22	5.0	0.10	ug/l	10.0		92	45-130	1	25	
Benzo(k)fluoranthene	7.96	0.50	0.10	ug/l	10.0		80	50-125	0	20	
Bis(2-chloroethoxy)methane	8.90	0.50	0.10	ug/l	10.0		89	55-120	2	20	
Bis(2-chloroethyl)ether	7.88	0.50	0.10	ug/l	10.0		79	50-120	0	20	
Bis(2-chloroisopropyl)ether	7.90	0.50	0.10	ug/l	10.0		79	45-120	3	20	
Bis(2-ethylhexyl)phthalate	11.4	5.0	1.7	ug/l	10.0		114	60-125	2	20	
4-Bromophenyl phenyl ether	9.84	1.0	0.10	ug/l	10.0		98	55-120	3	25	
Butyl benzyl phthalate	10.5	5.0	0.70	ug/l	10.0		105	50-125	6	20	
4-Chloroaniline	8.48	2.0	0.10	ug/l	10.0		85	50-120	7	25	
2-Chloronaphthalene	8.60	0.50	0.10	ug/l	10.0		86	55-120	7	20	
4-Chloro-3-methylphenol	9.40	2.0	0.20	ug/l	10.0		94	55-120	0	25	

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7124082 Extracted: 09/24/07											
LCS Dup Analyzed: 09/27/2007 (7124082-BSD1)											
4-Chlorophenyl phenyl ether	10.2	0.50	0.10	ug/l	10.0	102	60-120	3	20		
2-Chlorophenol	8.12	1.0	0.20	ug/l	10.0	81	45-120	1	25		
Chrysene	8.58	0.50	0.10	ug/l	10.0	86	60-120	3	20		
Dibenz(a,h)anthracene	8.62	0.50	0.10	ug/l	10.0	86	50-135	4	25		
Dibenzofuran	9.30	0.50	0.10	ug/l	10.0	93	60-120	5	20		
Di-n-butyl phthalate	10.0	2.0	0.20	ug/l	10.0	100	55-125	4	20		
3,3-Dichlorobenzidine	6.82	5.0	0.40	ug/l	10.0	68	50-135	15	25		
2,4-Dichlorophenol	8.52	2.0	0.20	ug/l	10.0	85	50-120	1	20		
Diethyl phthalate	10.8	1.0	0.10	ug/l	10.0	108	50-120	1	30		
2,4-Dimethylphenol	8.58	2.0	0.30	ug/l	10.0	86	35-120	5	25		
Dimethyl phthalate	9.96	0.50	0.10	ug/l	10.0	100	25-120	3	30		
4,6-Dinitro-2-methylphenol	7.92	5.0	0.20	ug/l	10.0	79	40-120	10	25		
2,4-Dinitrophenol	8.78	5.0	0.90	ug/l	10.0	88	35-120	6	25		
2,4-Dinitrotoluene	11.0	5.0	0.20	ug/l	10.0	110	60-120	6	20		
2,6-Dinitrotoluene	10.6	5.0	0.10	ug/l	10.0	106	60-120	2	20		
Di-n-octyl phthalate	13.5	5.0	0.10	ug/l	10.0	135	60-130	3	20		L
Fluoranthene	9.78	0.50	0.10	ug/l	10.0	98	55-120	1	20		
Fluorene	10.5	0.50	0.10	ug/l	10.0	105	60-120	3	20		
Hexachlorobenzene	9.06	1.0	0.10	ug/l	10.0	91	55-120	2	20		
Hexachlorocyclopentadiene	7.32	5.0	0.10	ug/l	10.0	73	20-120	1	30		
Hexachloroethane	5.52	3.0	0.20	ug/l	10.0	55	35-120	12	25		
Indeno(1,2,3-cd)pyrene	8.84	2.0	0.10	ug/l	10.0	88	45-135	3	25		
Isophorone	10.0	1.0	0.10	ug/l	10.0	100	50-120	4	20		
4-Methylphenol	8.60	5.0	0.20	ug/l	10.0	86	45-120	3	20		
Nitrobenzene	8.64	1.0	0.10	ug/l	10.0	86	50-120	2	25		
2-Nitrophenol	9.28	2.0	0.10	ug/l	10.0	93	45-120	6	25		
4-Nitrophenol	10.9	5.0	2.5	ug/l	10.0	109	40-120	5	30		
N-Nitrosodimethylamine	7.82	2.0	0.10	ug/l	10.0	78	40-120	4	20		
N-Nitroso-di-n-propylamine	9.60	2.0	0.10	ug/l	10.0	96	45-120	8	20		
N-Nitrosodiphenylamine	9.50	1.0	0.10	ug/l	10.0	95	55-120	1	20		
Pentachlorophenol	9.54	2.0	0.10	ug/l	10.0	95	45-125	1	25		
Phenanthrene	8.96	0.50	0.10	ug/l	10.0	90	60-120	0	20		
Phenol	7.96	1.0	0.30	ug/l	10.0	80	45-120	0	25		
Pyrene	9.28	0.50	0.10	ug/l	10.0	93	50-125	2	25		
2,4,5-Trichlorophenol	9.80	2.0	0.20	ug/l	10.0	98	50-120	5	30		

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Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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
Batch: 7124082 Extracted: 09/24/07											
LCS Dup Analyzed: 09/27/2007 (7124082-BSD1)											
2,4,6-Trichlorophenol	9.66	1.0	0.10	ug/l	10.0		97	50-120	9	30	
Surrogate: 2-Fluorophenol	15.2			ug/l	20.0		76	30-120			
Surrogate: Phenol-d6	16.2			ug/l	20.0		81	35-120			
Surrogate: 2,4,6-Tribromophenol	19.6			ug/l	20.0		98	40-120			
Surrogate: Nitrobenzene-d5	8.46			ug/l	10.0		85	40-120			
Surrogate: 2-Fluorobiphenyl	8.90			ug/l	10.0		89	45-120			
Surrogate: Terphenyl-d14	9.14			ug/l	10.0		91	45-120			

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7I24073 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7I24073-BLK1)											
Aldrin	ND	0.10	0.030	ug/l							
alpha-BHC	ND	0.010	0.0025	ug/l							
alpha-BHC	ND	0.10	0.020	ug/l							
beta-BHC	ND	0.10	0.040	ug/l							
delta-BHC	ND	0.20	0.020	ug/l							
gamma-BHC (Lindane)	ND	0.10	0.030	ug/l							
Chlordane	ND	1.0	0.20	ug/l							
4,4'-DDD	ND	0.10	0.030	ug/l							
4,4'-DDE	ND	0.10	0.030	ug/l							
4,4'-DDT	ND	0.10	0.030	ug/l							
Dieldrin	ND	0.10	0.030	ug/l							
Endosulfan I	ND	0.10	0.030	ug/l							
Endosulfan II	ND	0.10	0.040	ug/l							
Endosulfan sulfate	ND	0.20	0.050	ug/l							
Endrin	ND	0.10	0.030	ug/l							
Endrin aldehyde	ND	0.10	0.050	ug/l							
Endrin ketone	ND	0.10	0.040	ug/l							
Heptachlor	ND	0.10	0.030	ug/l							
Heptachlor epoxide	ND	0.10	0.030	ug/l							
Methoxychlor	ND	0.10	0.040	ug/l							
Toxaphene	ND	5.0	1.5	ug/l							
Surrogate: Tetrachloro-m-xylene	0.412			ug/l	0.500		82	35-115			
Surrogate: Decachlorobiphenyl	0.469			ug/l	0.500		94	45-120			
Surrogate: Tetrachloro-m-xylene	0.412			ug/l	0.500		82	35-115			
Surrogate: Decachlorobiphenyl	0.469			ug/l	0.500		94	45-120			
LCS Analyzed: 09/24/2007 (7I24073-BS1)											
Aldrin	0.391	0.10	0.030	ug/l	0.500		78	40-115			MNR1
alpha-BHC	0.372	0.10	0.020	ug/l	0.500		74	45-115			
alpha-BHC	0.372	0.010	0.0025	ug/l	0.500		74	45-115			
beta-BHC	0.397	0.10	0.040	ug/l	0.500		79	55-115			
delta-BHC	0.413	0.20	0.020	ug/l	0.500		83	55-115			
gamma-BHC (Lindane)	0.400	0.10	0.030	ug/l	0.500		80	45-115			
4,4'-DDD	0.431	0.10	0.030	ug/l	0.500		86	55-120			
4,4'-DDE	0.432	0.10	0.030	ug/l	0.500		86	50-120			
4,4'-DDT	0.470	0.10	0.030	ug/l	0.500		94	55-120			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7124073 Extracted: 09/24/07											
LCS Analyzed: 09/24/2007 (7124073-BS1)											
Dieldrin	0.440	0.10	0.030	ug/l	0.500		88	55-115			MNR1
Endosulfan I	0.433	0.10	0.030	ug/l	0.500		87	55-115			
Endosulfan II	0.461	0.10	0.040	ug/l	0.500		92	55-120			
Endosulfan sulfate	0.475	0.20	0.050	ug/l	0.500		95	60-120			
Endrin	0.459	0.10	0.030	ug/l	0.500		92	55-115			
Endrin aldehyde	0.454	0.10	0.050	ug/l	0.500		91	50-120			
Endrin ketone	0.469	0.10	0.040	ug/l	0.500		94	55-120			
Heptachlor	0.406	0.10	0.030	ug/l	0.500		81	45-115			
Heptachlor epoxide	0.429	0.10	0.030	ug/l	0.500		86	55-115			
Methoxychlor	0.500	0.10	0.040	ug/l	0.500		100	60-120			
Surrogate: Tetrachloro-m-xylene	0.370			ug/l	0.500		74	35-115			
Surrogate: Decachlorobiphenyl	0.462			ug/l	0.500		92	45-120			
Surrogate: Tetrachloro-m-xylene	0.370			ug/l	0.500		74	35-115			
Surrogate: Decachlorobiphenyl	0.462			ug/l	0.500		92	45-120			
LCS Dup Analyzed: 09/24/2007 (7124073-BSD1)											
Aldrin	0.431	0.10	0.030	ug/l	0.500		86	40-115	10	30	
alpha-BHC	0.427	0.010	0.0025	ug/l	0.500		85	45-115	14	30	
alpha-BHC	0.427	0.10	0.020	ug/l	0.500		85	45-115	14	30	
beta-BHC	0.438	0.10	0.040	ug/l	0.500		88	55-115	10	30	
delta-BHC	0.453	0.20	0.020	ug/l	0.500		91	55-115	9	30	
gamma-BHC (Lindane)	0.455	0.10	0.030	ug/l	0.500		91	45-115	13	30	
4,4'-DDD	0.452	0.10	0.030	ug/l	0.500		90	55-120	5	30	
4,4'-DDE	0.467	0.10	0.030	ug/l	0.500		93	50-120	8	30	
4,4'-DDT	0.496	0.10	0.030	ug/l	0.500		99	55-120	5	30	
Dieldrin	0.471	0.10	0.030	ug/l	0.500		94	55-115	7	30	
Endosulfan I	0.469	0.10	0.030	ug/l	0.500		94	55-115	8	30	
Endosulfan II	0.482	0.10	0.040	ug/l	0.500		96	55-120	5	30	
Endosulfan sulfate	0.492	0.20	0.050	ug/l	0.500		98	60-120	4	30	
Endrin	0.493	0.10	0.030	ug/l	0.500		99	55-115	7	30	
Endrin aldehyde	0.471	0.10	0.050	ug/l	0.500		94	50-120	4	30	
Endrin ketone	0.483	0.10	0.040	ug/l	0.500		97	55-120	3	30	
Heptachlor	0.455	0.10	0.030	ug/l	0.500		91	45-115	11	30	
Heptachlor epoxide	0.467	0.10	0.030	ug/l	0.500		93	55-115	9	30	
Methoxychlor	0.514	0.10	0.040	ug/l	0.500		103	60-120	3	30	
Surrogate: Tetrachloro-m-xylene	0.413			ug/l	0.500		83	35-115			

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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
Batch: 7124073 Extracted: 09/24/07											
LCS Dup Analyzed: 09/24/2007 (7124073-BSD1)											
Surrogate: Decachlorobiphenyl	0.481			ug/l	0.500		96	45-120			
Surrogate: Tetrachloro-m-xylene	0.413			ug/l	0.500		83	35-115			
Surrogate: Decachlorobiphenyl	0.481			ug/l	0.500		96	45-120			

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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7124073 Extracted: 09/24/07											
Blank Analyzed: 09/25/2007 (7124073-BLK1)											
Aroclor 1016	ND	1.0	0.45	ug/l							
Aroclor 1221	ND	1.0	0.10	ug/l							
Aroclor 1232	ND	1.0	0.25	ug/l							
Aroclor 1242	ND	1.0	0.25	ug/l							
Aroclor 1248	ND	1.0	0.25	ug/l							
Aroclor 1254	ND	1.0	0.25	ug/l							
Aroclor 1260	ND	1.0	0.30	ug/l							
Surrogate: Decachlorobiphenyl	0.458			ug/l	0.500		92	45-120			
LCS Analyzed: 09/25/2007 (7124073-BS2)											
Aroclor 1016	3.22	1.0	0.45	ug/l	4.00		81	50-115			MNRI
Aroclor 1260	3.51	1.0	0.30	ug/l	4.00		88	60-120			
Surrogate: Decachlorobiphenyl	0.404			ug/l	0.500		81	45-120			
LCS Dup Analyzed: 09/25/2007 (7124073-BSD2)											
Aroclor 1016	3.32	1.0	0.45	ug/l	4.00		83	50-115	3	30	
Aroclor 1260	3.69	1.0	0.30	ug/l	4.00		92	60-120	5	25	
Surrogate: Decachlorobiphenyl	0.432			ug/l	0.500		86	45-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7125136 Extracted: 09/25/07											
Blank Analyzed: 09/26/2007 (7125136-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.20	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/26/2007 (7125136-BS1)											
Antimony	83.2	2.0	0.20	ug/l	80.0		104	85-115			
Cadmium	81.4	1.0	0.11	ug/l	80.0		102	85-115			
Copper	83.8	2.0	0.75	ug/l	80.0		105	85-115			
Lead	80.5	1.0	0.10	ug/l	80.0		101	85-115			
Selenium	79.5	2.0	0.30	ug/l	80.0		99	85-115			
Silver	81.2	1.0	0.20	ug/l	80.0		102	85-115			
Thallium	84.6	1.0	0.15	ug/l	80.0		106	85-115			
Matrix Spike Analyzed: 09/26/2007 (7125136-MS1) Source: IQI2053-01											
Antimony	83.3	2.0	0.20	ug/l	80.0	0.569	103	70-130			
Cadmium	78.0	1.0	0.11	ug/l	80.0	ND	98	70-130			
Copper	80.0	2.0	0.75	ug/l	80.0	ND	100	70-130			
Lead	76.1	1.0	0.10	ug/l	80.0	ND	95	70-130			
Selenium	74.7	2.0	0.30	ug/l	80.0	0.672	93	70-130			
Silver	77.0	1.0	0.20	ug/l	80.0	ND	96	70-130			
Thallium	80.4	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/26/2007 (7125136-MS2) Source: IQI1869-04											
Antimony	81.3	2.0	0.20	ug/l	80.0	0.881	101	70-130			
Cadmium	73.3	1.0	0.11	ug/l	80.0	ND	92	70-130			
Copper	82.3	2.0	0.75	ug/l	80.0	5.95	95	70-130			
Lead	70.4	1.0	0.10	ug/l	80.0	0.706	87	70-130			
Selenium	155	2.0	0.30	ug/l	80.0	79.7	94	70-130			
Silver	74.0	1.0	0.20	ug/l	80.0	ND	92	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7125136 Extracted: 09/25/07											
Matrix Spike Dup Analyzed: 09/26/2007 (7125136-MSD1)						Source: IQI2053-01					
Antimony	82.0	2.0	0.20	ug/l	80.0	0.569	102	70-130	2	20	
Cadmium	77.3	1.0	0.11	ug/l	80.0	ND	97	70-130	1	20	
Copper	78.7	2.0	0.75	ug/l	80.0	ND	98	70-130	2	20	
Lead	73.0	1.0	0.10	ug/l	80.0	ND	91	70-130	4	20	
Selenium	73.6	2.0	0.30	ug/l	80.0	0.672	91	70-130	2	20	
Silver	76.4	1.0	0.20	ug/l	80.0	ND	96	70-130	1	20	
Thallium	77.8	1.0	0.15	ug/l	80.0	ND	97	70-130	3	20	

Batch: 7125144 Extracted: 09/25/07

Blank Analyzed: 09/26/2007-09/27/2007 (7125144-BLK1)

Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Cobalt	ND	10	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							

LCS Analyzed: 09/26/2007-09/27/2007 (7125144-BS1)

Arsenic	456	10	7.0	ug/l	500		91	85-115			
Barium	0.505	0.010	0.0060	mg/l	0.500		101	85-115			
Beryllium	481	2.0	0.90	ug/l	500		96	85-115			
Boron	0.487	0.050	0.020	mg/l	0.500		97	85-115			
Calcium	2.41	0.10	0.050	mg/l	2.50		97	85-115			
Chromium	478	5.0	2.0	ug/l	500		96	85-115			
Cobalt	464	10	2.0	ug/l	500		93	85-115			
Iron	0.485	0.040	0.015	mg/l	0.500		97	85-115			
Magnesium	2.30	0.020	0.012	mg/l	2.50		92	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7125144 Extracted: 09/25/07											
LCS Analyzed: 09/26/2007-09/27/2007 (7125144-BS1)											
Manganese	484	20	7.0	ug/l	500		97	85-115			
Nickel	469	10	2.0	ug/l	500		94	85-115			
Vanadium	488	10	3.0	ug/l	500		98	85-115			
Zinc	446	20	6.0	ug/l	500		89	85-115			
Matrix Spike Analyzed: 09/26/2007-09/27/2007 (7125144-MS1) Source: IQI1686-02											
Arsenic	480	10	7.0	ug/l	500	ND	96	70-130			
Barium	0.600	0.010	0.0060	mg/l	0.500	0.0935	101	70-130			
Beryllium	497	2.0	0.90	ug/l	500	ND	99	70-130			
Boron	0.595	0.050	0.020	mg/l	0.500	0.0751	104	70-130			
Calcium	84.7	0.10	0.050	mg/l	2.50	81.0	146	70-130			MHA
Chromium	497	5.0	2.0	ug/l	500	11.6	97	70-130			
Cobalt	454	10	2.0	ug/l	500	ND	91	70-130			
Iron	0.556	0.040	0.015	mg/l	0.500	0.0577	100	70-130			
Magnesium	39.7	0.020	0.012	mg/l	2.50	37.0	108	70-130			
Manganese	477	20	7.0	ug/l	500	ND	95	70-130			
Nickel	460	10	2.0	ug/l	500	ND	92	70-130			
Vanadium	508	10	3.0	ug/l	500	4.59	101	70-130			
Zinc	540	20	6.0	ug/l	500	77.2	92	70-130			
Matrix Spike Analyzed: 09/26/2007-09/27/2007 (7125144-MS2) Source: IQI1686-05											
Arsenic	481	10	7.0	ug/l	500	ND	96	70-130			
Barium	0.634	0.010	0.0060	mg/l	0.500	0.113	104	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	0.607	0.050	0.020	mg/l	0.500	0.0793	105	70-130			
Calcium	98.1	0.10	0.050	mg/l	2.50	92.6	222	70-130			MHA
Chromium	502	5.0	2.0	ug/l	500	10.7	98	70-130			
Cobalt	460	10	2.0	ug/l	500	ND	92	70-130			
Iron	0.776	0.040	0.015	mg/l	0.500	0.233	109	70-130			
Magnesium	43.9	0.020	0.012	mg/l	2.50	40.5	135	70-130			MHA
Manganese	495	20	7.0	ug/l	500	13.1	96	70-130			
Nickel	467	10	2.0	ug/l	500	2.26	93	70-130			
Vanadium	516	10	3.0	ug/l	500	4.29	102	70-130			
Zinc	556	20	6.0	ug/l	500	92.5	93	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I25144 Extracted: 09/25/07											
Matrix Spike Dup Analyzed: 09/26/2007-09/27/2007 (7I25144-MSD1)						Source: IQI1686-02					
Arsenic	486	10	7.0	ug/l	500	ND	97	70-130	1	20	
Barium	0.612	0.010	0.0060	mg/l	0.500	0.0935	104	70-130	2	20	
Beryllium	506	2.0	0.90	ug/l	500	ND	101	70-130	2	20	
Boron	0.604	0.050	0.020	mg/l	0.500	0.0751	106	70-130	1	20	
Calcium	83.8	0.10	0.050	mg/l	2.50	81.0	113	70-130	1	20	MHA
Chromium	505	5.0	2.0	ug/l	500	11.6	99	70-130	2	20	
Cobalt	462	10	2.0	ug/l	500	ND	92	70-130	2	20	
Iron	0.566	0.040	0.015	mg/l	0.500	0.0577	102	70-130	2	20	
Magnesium	39.6	0.020	0.012	mg/l	2.50	37.0	103	70-130	0	20	
Manganese	488	20	7.0	ug/l	500	ND	98	70-130	2	20	
Nickel	468	10	2.0	ug/l	500	ND	94	70-130	2	20	
Vanadium	518	10	3.0	ug/l	500	4.59	103	70-130	2	20	
Zinc	544	20	6.0	ug/l	500	77.2	93	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7I24139 Extracted: 09/24/07											
Blank Analyzed: 09/27/2007 (7I24139-BLK1)											
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	0.0020	0.00090	mg/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	0.0050	0.0020	mg/l							
Cobalt	ND	0.010	0.0020	mg/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	0.020	0.0070	mg/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Vanadium	ND	0.010	0.0030	mg/l							
Zinc	ND	0.020	0.0060	mg/l							
LCS Analyzed: 09/27/2007 (7I24139-BS1)											
Barium	0.869	0.010	0.0060	mg/l	1.00		87	85-115			
Beryllium	0.963	0.0020	0.00090	mg/l	1.00		96	85-115			
Boron	0.883	0.050	0.020	mg/l	1.00		88	85-115			
Calcium	0.903	0.10	0.050	mg/l	1.00		90	85-115			
Chromium	0.987	0.0050	0.0020	mg/l	1.00		99	85-115			
Cobalt	0.978	0.010	0.0020	mg/l	1.00		98	85-115			
Iron	0.962	0.040	0.015	mg/l	1.00		96	85-115			
Magnesium	0.977	0.020	0.012	mg/l	1.00		98	85-115			
Manganese	0.956	0.020	0.0070	mg/l	1.00		96	85-115			
Vanadium	0.974	0.010	0.0030	mg/l	1.00		97	85-115			
Zinc	1.14	0.020	0.0060	mg/l	1.00		114	85-115			
Matrix Spike Analyzed: 09/27/2007 (7I24139-MS1)											
						Source: IQI2057-01					
Barium	1.01	0.010	0.0060	mg/l	1.00	0.0442	97	70-130			
Beryllium	0.980	0.0020	0.00090	mg/l	1.00	ND	98	70-130			
Boron	1.06	0.050	0.020	mg/l	1.00	0.0828	98	70-130			
Calcium	32.2	0.10	0.050	mg/l	1.00	32.0	21	70-130			MHA
Chromium	0.981	0.0050	0.0020	mg/l	1.00	ND	98	70-130			
Cobalt	0.986	0.010	0.0020	mg/l	1.00	0.00320	98	70-130			
Iron	1.87	0.040	0.015	mg/l	1.00	0.621	125	70-130			
Magnesium	8.39	0.020	0.012	mg/l	1.00	7.62	77	70-130			
Manganese	1.21	0.020	0.0070	mg/l	1.00	0.261	95	70-130			

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7124139 Extracted: 09/24/07											
Matrix Spike Analyzed: 09/27/2007 (7124139-MS1)						Source: IQI2057-01					
Vanadium	0.989	0.010	0.0030	mg/l	1.00	0.00423	98	70-130			
Zinc	0.932	0.020	0.0060	mg/l	1.00	ND	93	70-130			
Matrix Spike Dup Analyzed: 09/27/2007 (7124139-MSD1)						Source: IQI2057-01					
Barium	1.05	0.010	0.0060	mg/l	1.00	0.0442	101	70-130	4	20	
Beryllium	1.01	0.0020	0.00090	mg/l	1.00	ND	101	70-130	3	20	
Boron	1.11	0.050	0.020	mg/l	1.00	0.0828	103	70-130	5	20	
Calcium	32.1	0.10	0.050	mg/l	1.00	32.0	18	70-130	0	20	MHA
Chromium	1.02	0.0050	0.0020	mg/l	1.00	ND	102	70-130	4	20	
Cobalt	1.03	0.010	0.0020	mg/l	1.00	0.00320	102	70-130	4	20	
Iron	1.98	0.040	0.015	mg/l	1.00	0.621	136	70-130	6	20	MI
Magnesium	8.48	0.020	0.012	mg/l	1.00	7.62	87	70-130	1	20	
Manganese	1.24	0.020	0.0070	mg/l	1.00	0.261	98	70-130	3	20	
Vanadium	1.03	0.010	0.0030	mg/l	1.00	0.00423	103	70-130	4	20	
Zinc	0.974	0.020	0.0060	mg/l	1.00	ND	97	70-130	4	20	

Batch: 7126138 Extracted: 09/26/07

Blank Analyzed: 09/28/2007-09/29/2007 (7126138-BLK1)

Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Nickel	ND	2.0	0.90	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.20	ug/l							
Thallium	ND	1.0	0.15	ug/l							

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Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7126138 Extracted: 09/26/07											
LCS Analyzed: 09/28/2007-09/29/2007 (7126138-BS1)											
Antimony	84.1	2.0	0.20	ug/l	80.0		105	85-115			
Cadmium	82.8	1.0	0.11	ug/l	80.0		104	85-115			
Copper	83.5	2.0	0.75	ug/l	80.0		104	85-115			
Lead	85.1	1.0	0.10	ug/l	80.0		106	85-115			
Nickel	83.2	2.0	0.90	ug/l	80.0		104	85-115			
Selenium	78.7	2.0	0.30	ug/l	80.0		98	85-115			
Silver	81.9	1.0	0.20	ug/l	80.0		102	85-115			
Thallium	77.8	1.0	0.15	ug/l	80.0		97	85-115			
Matrix Spike Analyzed: 09/28/2007-09/29/2007 (7126138-MS1) Source: IQI2057-01											
Antimony	82.7	4.0	0.40	ug/l	80.0	0.929	102	70-130			
Cadmium	80.9	2.0	0.22	ug/l	80.0	ND	101	70-130			
Copper	88.5	4.0	1.5	ug/l	80.0	7.93	101	70-130			
Lead	84.8	2.0	0.20	ug/l	80.0	1.90	104	70-130			
Nickel	84.0	4.0	1.8	ug/l	80.0	5.34	98	70-130			
Selenium	75.7	4.0	0.60	ug/l	80.0	0.756	94	70-130			
Silver	80.3	2.0	0.40	ug/l	80.0	ND	100	70-130			
Thallium	78.0	2.0	0.30	ug/l	80.0	0.313	97	70-130			
Matrix Spike Dup Analyzed: 09/28/2007-09/29/2007 (7126138-MSD1) Source: IQI2057-01											
Antimony	83.5	4.0	0.40	ug/l	80.0	0.929	103	70-130	1	20	
Cadmium	81.3	2.0	0.22	ug/l	80.0	ND	102	70-130	1	20	
Copper	88.8	4.0	1.5	ug/l	80.0	7.93	101	70-130	0	20	
Lead	86.4	2.0	0.20	ug/l	80.0	1.90	106	70-130	2	20	
Nickel	85.8	4.0	1.8	ug/l	80.0	5.34	101	70-130	2	20	
Selenium	76.9	4.0	0.60	ug/l	80.0	0.756	95	70-130	1	20	
Silver	80.0	2.0	0.40	ug/l	80.0	ND	100	70-130	0	20	
Thallium	79.9	2.0	0.30	ug/l	80.0	0.313	99	70-130	2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7122051 Extracted: 09/22/07											
Blank Analyzed: 09/22/2007 (7122051-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 09/22/2007 (7122051-DUP1)											
Turbidity	5.82	1.0	0.040	NTU		5.79			1	20	
Batch: 7124057 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7124057-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Fluoride	ND	0.50	0.15	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: 09/24/2007 (7124057-BS1)											
Chloride	4.85	0.50	0.25	mg/l	5.00		97	90-110			
Fluoride	4.76	0.50	0.15	mg/l	5.00		95	90-110			
Nitrate-N	1.03	0.11	0.060	mg/l	1.13		91	90-110			
Nitrite-N	1.52	0.15	0.090	mg/l	1.52		100	90-110			
Sulfate	9.78	0.50	0.20	mg/l	10.0		98	90-110			
Matrix Spike Analyzed: 09/24/2007 (7124057-MS1)											
Chloride	8.67	0.50	0.25	mg/l	5.00	4.37	86	80-120			
Fluoride	5.09	0.50	0.15	mg/l	5.00	0.496	92	80-120			
Nitrate-N	4.55	0.11	0.060	mg/l	1.13	3.79	68	80-120			M2
Nitrite-N	1.58	0.15	0.090	mg/l	1.52	0.218	89	80-120			
Sulfate	20.5	0.50	0.20	mg/l	10.0	11.3	92	80-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24057 Extracted: 09/24/07											
Matrix Spike Dup Analyzed: 09/24/2007 (7I24057-MSD1)						Source: IQI2057-01					
Chloride	8.64	0.50	0.25	mg/l	5.00	4.37	85	80-120	0	20	
Fluoride	5.12	0.50	0.15	mg/l	5.00	0.496	92	80-120	1	20	
Nitrate-N	4.55	0.11	0.060	mg/l	1.13	3.79	68	80-120	0	20	M2
Nitrite-N	1.59	0.15	0.090	mg/l	1.52	0.218	90	80-120	1	20	
Sulfate	20.5	0.50	0.20	mg/l	10.0	11.3	92	80-120	0	20	

Batch: 7I24074 Extracted: 09/24/07

Blank Analyzed: 09/24/2007 (7I24074-BLK1)

Surfactants (MBAS) ND 0.10 0.044 mg/l

LCS Analyzed: 09/24/2007 (7I24074-BS1)

Surfactants (MBAS) 0.243 0.10 0.044 mg/l 0.250 97 90-110

Matrix Spike Analyzed: 09/24/2007 (7I24074-MS1)

Source: IQI2057-01

Surfactants (MBAS) 0.288 0.10 0.044 mg/l 0.250 0.129 64 50-125

Matrix Spike Dup Analyzed: 09/24/2007 (7I24074-MSD1)

Source: IQI2057-01

Surfactants (MBAS) 0.295 0.10 0.044 mg/l 0.250 0.129 66 50-125 2 20

Batch: 7I24075 Extracted: 09/24/07

Blank Analyzed: 09/29/2007 (7I24075-BLK1)

Biochemical Oxygen Demand ND 2.0 0.59 mg/l

LCS Analyzed: 09/29/2007 (7I24075-BS1)

Biochemical Oxygen Demand 185 100 30 mg/l 198 93 85-115

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Project ID: Annual Outfall 002
 Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

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: 7124075 Extracted: 09/24/07</u>											
LCS Dup Analyzed: 09/29/2007 (7124075-BSD1)											
Biochemical Oxygen Demand	184	100	30	mg/l	198		93	85-115	1	20	
<u>Batch: 7124093 Extracted: 09/24/07</u>											
Duplicate Analyzed: 09/24/2007 (7124093-DUP1)											
Residual Chlorine	ND	0.10	0.10	mg/l		Source: IQI2057-01 ND				20	
<u>Batch: 7125056 Extracted: 09/25/07</u>											
Blank Analyzed: 09/25/2007 (7125056-BLK1)											
Oil & Grease	ND	5.0	1.2	mg/l							
LCS Analyzed: 09/25/2007 (7125056-BS1)											
Oil & Grease	20.2	5.0	1.2	mg/l	20.0		101	65-120			MNR1
LCS Dup Analyzed: 09/25/2007 (7125056-BSD1)											
Oil & Grease	20.0	5.0	1.2	mg/l	20.0		100	65-120	1	20	
<u>Batch: 7125131 Extracted: 09/25/07</u>											
Blank Analyzed: 09/25/2007 (7125131-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/25/2007 (7125131-BS1)											
Total Suspended Solids	1060	10	10	mg/l	1000		106	85-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7125131 Extracted: 09/25/07											
Duplicate Analyzed: 09/25/2007 (7125131-DUP1)						Source: IQI1885-01					
Total Suspended Solids	30.0	10	10	mg/l		28.0			7	10	
Batch: 7126122 Extracted: 09/26/07											
Blank Analyzed: 09/26/2007 (7126122-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 09/26/2007 (7126122-BS1)											
Total Cyanide	197	5.0	2.2	ug/l	200		98	90-110			
Matrix Spike Analyzed: 09/26/2007 (7126122-MS1)						Source: IQI1910-01					
Total Cyanide	209	5.0	2.2	ug/l	200	ND	105	70-115			
Matrix Spike Dup Analyzed: 09/26/2007 (7126122-MSD1)						Source: IQI1910-01					
Total Cyanide	207	5.0	2.2	ug/l	200	ND	104	70-115	1	15	
Batch: 7127098 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (7127098-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
LCS Analyzed: 09/27/2007 (7127098-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.30	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 09/27/2007 (7127098-MS1)						Source: IQI2156-01					
Ammonia-N (Distilled)	10.4	0.50	0.30	mg/l	10.0	ND	104	70-120			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7127098 Extracted: 09/27/07											
Matrix Spike Dup Analyzed: 09/27/2007 (7127098-MSD1)						Source: IQI2156-01					
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0	ND	101	70-120	3	15	
Batch: 7127118 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (7127118-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/27/2007 (7127118-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/27/2007 (7127118-DUP1)						Source: IQI2053-01					
Total Dissolved Solids	589	10	10	mg/l		588			0	10	
Batch: 7127125 Extracted: 09/27/07											
Duplicate Analyzed: 09/27/2007 (7127125-DUP1)						Source: IQI1860-01					
Specific Conductance	2190	1.0	1.0	umhos/cm		2200			1	5	
Batch: 7128071 Extracted: 09/28/07											
Blank Analyzed: 09/28/2007 (7128071-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 09/28/2007 (7128071-BS1)											
Perchlorate	48.3	4.0	1.5	ug/l	50.0		97	85-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 7128071 Extracted: 09/28/07</u>											
Matrix Spike Analyzed: 09/28/2007 (7128071-MS1)						Source: IQI2186-01					
Perchlorate	56.9	4.0	1.5	ug/l	50.0	7.41	99	80-120			
Matrix Spike Dup Analyzed: 09/28/2007 (7128071-MSD1)						Source: IQI2186-01					
Perchlorate	56.5	4.0	1.5	ug/l	50.0	7.41	98	80-120	1	20	
<u>Batch: 7129052 Extracted: 09/29/07</u>											
Blank Analyzed: 09/29/2007 (7129052-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 09/29/2007 (7129052-BS1)											
Total Organic Carbon	11.0	1.0	0.50	mg/l	10.0		110	90-110			
Matrix Spike Analyzed: 09/29/2007 (7129052-MS1)						Source: IQI1850-02					
Total Organic Carbon	12.7	1.0	0.50	mg/l	5.00	7.84	98	80-120			
Matrix Spike Dup Analyzed: 09/29/2007 (7129052-MSD1)						Source: IQI1850-02					
Total Organic Carbon	13.8	1.0	0.50	mg/l	5.00	7.84	120	80-120	8	20	

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METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: W7I1160 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (W7I1160-BLK1)											
Mercury, Dissolved	ND	0.10	0.025	ug/l							
Mercury, Total	ND	0.10	0.025	ug/l							
LCS Analyzed: 09/27/2007 (W7I1160-BS1)											
Mercury, Dissolved	1.05	0.10	0.025	ug/l	1.00		105	85-115			
Mercury, Total	1.05	0.10	0.025	ug/l	1.00		105	85-115			
Matrix Spike Analyzed: 09/27/2007 (W7I1160-MS1) Source: 7092457-10											
Mercury, Dissolved	1.07	0.10	0.025	ug/l	1.00	ND	107	70-130			
Mercury, Total	1.07	0.10	0.025	ug/l	1.00	ND	107	70-130			
Matrix Spike Analyzed: 09/27/2007 (W7I1160-MS2) Source: 7092457-11											
Mercury, Dissolved	1.04	0.10	0.025	ug/l	1.00	ND	104	70-130			
Mercury, Total	1.04	0.10	0.025	ug/l	1.00	ND	104	70-130			
Matrix Spike Dup Analyzed: 09/27/2007 (W7I1160-MSD1) Source: 7092457-10											
Mercury, Dissolved	1.05	0.10	0.025	ug/l	1.00	ND	105	70-130	2	20	
Mercury, Total	1.05	0.10	0.025	ug/l	1.00	ND	105	70-130	2	20	
Matrix Spike Dup Analyzed: 09/27/2007 (W7I1160-MSD2) Source: 7092457-11											
Mercury, Dissolved	1.04	0.10	0.025	ug/l	1.00	ND	104	70-130	0	20	
Mercury, Total	1.04	0.10	0.025	ug/l	1.00	ND	104	70-130	0	20	

TestAmerica - Irvine, CA

Joseph Doak
 Project Manager

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

Project ID: Annual Outfall 002
 Report Number: IQI2057

Sampled: 09/22/07
 Received: 09/22/07

METHOD BLANK/QC DATA

1,4-DIOXANE BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: P7I2709 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (P7I2709-BLK1)											
1,4-Dioxane	0.380	1.0	0.36	ug/l							Ja
Surrogate: Dibromofluoromethane	1.17			ug/l	1.00		117	80-130			
LCS Analyzed: 09/27/2007 (P7I2709-BS1)											
1,4-Dioxane	9.53	1.0	0.36	ug/l	10.0		95	70-130			
Surrogate: Dibromofluoromethane	1.11			ug/l	1.00		111	80-130			
LCS Dup Analyzed: 09/27/2007 (P7I2709-BSD1)											
1,4-Dioxane	8.72	1.0	0.36	ug/l	10.0		87	70-130	9	35	
Surrogate: Dibromofluoromethane	1.05			ug/l	1.00		105	80-130			
Matrix Spike Analyzed: 09/27/2007 (P7I2709-MS1) Source: PQI0960-01											
1,4-Dioxane	10.4	1.0	0.36	ug/l	10.0	1.52	89	65-145			
Surrogate: Dibromofluoromethane	1.38			ug/l	1.00		138	80-130			ZI
Matrix Spike Dup Analyzed: 09/27/2007 (P7I2709-MSD1) Source: PQI0960-01											
1,4-Dioxane	10.8	1.0	0.36	ug/l	10.0	1.52	93	65-145	4	20	
Surrogate: Dibromofluoromethane	1.34			ug/l	1.00		134	80-130			ZI

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 Project Manager

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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
IQI2057-01	413.1 Oil and Grease	Oil & Grease	mg/l	1.50	5.0	10.00
IQI2057-01	608-Pest Boeing 001/002 Q (LL)	alpha-BHC	ug/l	0	0.0094	0.0100
IQI2057-01	624-Boeing 001/002 Q (Fr113+X)	1,1-Dichloroethene	ug/l	0	3.0	3.20
IQI2057-01	624-Boeing 001/002 Q (Fr113+X)	Trichloroethene	ug/l	0	5.0	5.00
IQI2057-01	625+NDMA, LL	2,4,6-Trichlorophenol	ug/l	0	0.94	6.50
IQI2057-01	625+NDMA, LL	2,4-Dinitrotoluene	ug/l	0	4.7	9.10
IQI2057-01	625+NDMA, LL	Bis(2-ethylhexyl)phthalate	ug/l	1.94	4.7	4.00
IQI2057-01	625+NDMA, LL	N-Nitrosodimethylamine	ug/l	0	1.9	8.10
IQI2057-01	625+NDMA, LL	Pentachlorophenol	ug/l	0	1.9	8.20
IQI2057-01	Antimony-200.8	Antimony	ug/l	0.75	10	6.00
IQI2057-01	Antimony-200.8, Diss	Antimony	ug/l	0.93	4.0	6.00
IQI2057-01	Arsenic-200.7	Arsenic	ug/l	35	10	50
IQI2057-01	Barium-200.7	Barium	mg/l	2.28	0.010	1.00
IQI2057-01	Barium-200.7, Diss	Barium	mg/l	0.044	0.010	1.00
IQI2057-01	Beryllium-200.7	Beryllium	ug/l	11	2.0	4.00
IQI2057-01	Beryllium-200.7,Diss	Beryllium	mg/l	0.00049	0.0020	0.0040
IQI2057-01	BOD	Biochemical Oxygen Demand	mg/l	20	2.0	20
IQI2057-01	Cadmium-200.8	Cadmium	ug/l	6.94	5.0	2.00
IQI2057-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.11	2.0	2.00
IQI2057-01	Chloride - 300.0	Chloride	mg/l	4.37	0.50	150
IQI2057-01	Chlorine, Residual	Residual Chlorine	mg/l	0.0100	0.10	0.100
IQI2057-01	Chromium-200.7	Chromium	ug/l	103	5.0	8.10
IQI2057-01	Chromium-200.7, Diss	Chromium	mg/l	0.0011	0.0050	0.0081
IQI2057-01	Copper-200.8	Copper	ug/l	104	10	7.10
IQI2057-01	Copper-200.8, Diss	Copper	ug/l	7.93	4.0	7.10
IQI2057-01	Cyanide-335.2 5ppb	Total Cyanide	ug/l	9.97	5.0	4.30
IQI2057-01	Fluoride-300.0	Fluoride	mg/l	0.50	0.50	1.60
IQI2057-01	Iron-200.7	Iron	mg/l	97	0.040	0.30
IQI2057-01	Iron-200.7, Diss	Iron	mg/l	0.62	0.040	0.30
IQI2057-01	Lead-200.8	Lead	ug/l	306	5.0	2.60
IQI2057-01	Lead-200.8, Diss	Lead	ug/l	1.90	2.0	2.60
IQI2057-01	Manganese-200.7	Manganese	ug/l	11208	40	50
IQI2057-01	Manganese-200.7,Diss	Manganese	mg/l	0.26	0.020	0.050
IQI2057-01	MBAS - SM5540-C	Surfactants (MBAS)	mg/l	0.13	0.10	0.50
IQI2057-01	Nickel-200.7	Nickel	ug/l	111	10	35
IQI2057-01	Nickel-200.8, Diss	Nickel	ug/l	5.34	4.0	35
IQI2057-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	4.00	0.26	8.00
IQI2057-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	8.0	6.00
IQI2057-01	Selenium-200.8	Selenium	ug/l	3.85	10	4.10
IQI2057-01	Selenium-200.8, Diss	Selenium	ug/l	0.76	4.0	4.10

TestAmerica - Irvine, CA

Joseph Doak
Project Manager

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

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
IQI2057-01	Settleable Solids	Total Settleable Solids	ml/l/hr	0	0.10	0.100
IQI2057-01	Silver-200.8	Silver	ug/l	0.87	5.0	2.00
IQI2057-01	Silver-200.8, Diss	Silver	ug/l	0.12	2.0	2.00
IQI2057-01	Sulfate-300.0	Sulfate	mg/l	11	0.50	300
IQI2057-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	780	10	950
IQI2057-01	Thallium-200.8	Thallium	ug/l	1.90	5.0	2.00
IQI2057-01	Thallium-200.8, Diss	Thallium	ug/l	0.31	2.0	2.00
IQI2057-01	TSS - EPA 160.2	Total Suspended Solids	mg/l	33240	10	15
IQI2057-01	Zinc-200.7	Zinc	ug/l	795	40	54
IQI2057-01	Zinc-200.7, Diss	Zinc	mg/l	0.0054	0.020	0.054
IQI2057-02	624-Boeing 001/002 Q (Fr113+X)	1,1-Dichloroethene	ug/l	0	3.0	3.20
IQI2057-02	624-Boeing 001/002 Q (Fr113+X)	Trichloroethene	ug/l	0	5.0	5.00

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

DATA QUALIFIERS AND DEFINITIONS

A-01	Sample to Dark to get reading
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
HFT	The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L6	Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
MNR1	There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
P1	Sample received and analyzed without chemical preservation.
R-2	The RPD exceeded the acceptance limit.
RL1	Reporting limit raised due to sample matrix effects.
Z	Due to sample matrix effects, the surrogate recovery was below the acceptance limits.
Z1	Surrogate recovery was above acceptance limits.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

For GRO (C4-C12):

GRO (C4-C12) is quantitated against a gasoline standard. Quantitation begins immediately following the methanol peak.

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO) :

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.

TestAmerica - Irvine, CA

Joseph Doak
Project Manager

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IQI2057 <Page 61 of 63>

NPDES-116

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
2340B/200.7	Water		
EPA 120.1	Water	X	X
EPA 160.2	Water	X	X
EPA 160.5	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 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 330.5	Water	X	X
EPA 335.2	Water	X	X
EPA 350.2	Water		X
EPA 405.1	Water	X	X
EPA 413.1	Water	X	X
EPA 415.1	Water	X	X
EPA 418.1	Water	X	X
EPA 608	Water	X	X
EPA 624 (MOD.)	Water		X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	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 Chrnrc
 Samples: IQI2057-01

Analysis Performed: Bioassay-Acute 96hr
 Samples: IQI2057-01

TestAmerica - Irvine, CA

Joseph Doak
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: IQI2057

Sampled: 09/22/07

Received: 09/22/07

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gross Alpha
Samples: IQI2057-01

Analysis Performed: Gross Beta
Samples: IQI2057-01

Analysis Performed: Radium, Combined
Samples: IQI2057-01

Analysis Performed: Strontium 90
Samples: IQI2057-01

Analysis Performed: Tritium
Samples: IQI2057-01

TestAmerica - Phoenix, AZ *NELAC Cert #01109CA, California Cert #2446, Arizona Cert #AZ0426, Nevada Cert #AZ-907*

9830 S. 51st Street, Suite B-120 - Phoenix, AZ 85044

Method Performed: EPA 8260B
Samples: IQI2057-01

Truesdail Laboratories-SUB *California Cert #1237*

14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine
Samples: IQI2057-01

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
Samples: IQI2057-01

Weck Laboratories, Inc

14859 E. Clark Avenue - City of Industry, CA 91745

Method Performed: EPA 245.1
Samples: IQI2057-01

TestAmerica - Irvine, CA

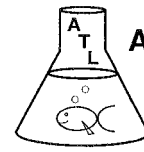
Joseph Doak
Project Manager

IQI 2057

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field Readings:	
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL NPDES Annual Outfall 002		Total Recoverable Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Cr, Ni, Se, Ag, Ti, Zn, Co, V, Hardness as CaCO3		Temp = 57.4 pH = 7.02 Collectors Comment S	
Project Manager: Bronwyn Kelly		Phone Number: (626) 568-6691		Settleable Solids		Alpha BHC (608) + PP	
Sampler: R BANAGIA P Follock		Fax Number: (626) 568-6515		VOCS 624 + xylenes + Freon 113, Freon 123A Cyclohexane		2,4,6 TCP, 2,4 Dinitrotoluene, Bis(2- ethy Inhexyl)phthalate, NDMA PCP (EPA 625) + PP	
Sample Description	Sample Matrix	Container Type	# of Com	Sampling Date/Time	Preservative	Bottle #	Field Readings
Outfall 002	W	Poly-1L	1	9/22/07 11:10	HNO3	1A	24 TAT
Outfall 002-Dup	W	Poly-1L	1		HNO3	1B	24 TAT
Outfall 002	W	Poly-1L	1		None	2	
Outfall 002	W	VOAs	5		HCl	3A,3B,3C, 3D, 3E	
Outfall 002	W	1L Amber	2		None	4A,4B	
Outfall 002	W	1L Amber	2		HCL	5A, 5B	24 TAT
Outfall 002	W	Poly-500 ml	1		NaOH	6	24 TAT
Outfall 002	W	Poly-1L	1		None	7	
Outfall 002	W	Poly-500 ml	2		None	8A,8B	
Outfall 002	W	Poly-500 ml	2		None	9A,9B	
Outfall 002	W	Poly-500 ml	2		None	10A, 10B	
Outfall 002	W	Poly-500 ml	1		H2SO4	11	
Outfall 002	W	1L Amber	2		None	12A, 12B	
Outfall 002	W	1L Amber	2	9/22/07 11:10	None	13A, 13B	
Trip Blank	W	VOAs	3		HCL	14A, 14B, 14C	
Relinquished By	9/22/07		Date/Time:	1342		Date/Time:	1342
Relinquished By	9/22/07		Date/Time:	1610		Date/Time:	1610
Relinquished By	9/22/07		Date/Time:	1610		Date/Time:	1610

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

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

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

Date: October 1, 2007

Client: TestAmerica - Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Trupti Mistry

Laboratory No.: A-07092405-001
Sample ID.: IQI2057-01

Sample Control: The sample was received by ATL in a chilled state and with the chain of custody record attached, but out of the recommended hold time. Testing was conducted on this one sample per client instruction as sample was storm runoff and could not be resampled. Sample was very muddy with much debris and was screened and centrifuged prior to *Ceriodaphnia* testing to enable viewing of test organisms.

Date Sampled: 09/22/07
Date Received: 09/24/07
Temp. Received: 2°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 09/24/07 to 09/30/07

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


Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0),
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

Acute:	Survival	TUa
Fathead Minnow:	100%	0.0
Chronic:	NOEC	TUc
<i>Ceriodaphnia</i> Survival:	100%	1.0
<i>Ceriodaphnia</i> Reproduction:	6.25%	16.0

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-07092405-001
 Client/ID: TestAmerica IQI2057-01

Start Date: 09/24/2007

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 12 (1-14) days.
 Regulations: NPDES.
 Test solution volume: 250 ml.
 Feeding: prior to renewal at 48 hrs.
 Number of replicates: 2.
 Dilution water: Moderately hard reconstituted water.
 Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
 Test type: Static-Renewal.
 Test Protocol: EPA-821-R-02-012.
 Endpoints: Percent Survival at 96 hrs.
 Test chamber: 600 ml beakers.
 Temperature: 20 +/- 1°C.
 Number of fish per chamber: 10.
 QA/QC Batch No.: RT-070905.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.2	8.3	7.7	0	0	JL 1500
	100%	20.0	6.6	6.9	0	0	
24 Hr	Control	19.2	7.4	7.3	0	0	Rv 1500
	100%	19.2	6.6	7.1	0	0	
48 Hr	Control	19.2	6.7	7.3	0	0	Rv 1600
	100%	19.1	6.8	7.2	0	0	
Renewal	Control	19.9	9.1	7.7	0	0	Rv 1600
	100%	20.0	8.0	6.8	0	0	
72 Hr	Control	19.3	7.2	7.3	0	0	Rv 1300
	100%	19.3	6.7	7.2	0	0	
96 Hr	Control	19.5	7.4	7.2	0	0	Rv 1500
	100%	19.5	7.2	7.2	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 6.9; Conductivity: 237 umho; Temp: 2°C;
 DO: 6.5 mg/l; Alkalinity: 88 mg/l; Hardness: 134 mg/l; NH₃-N: 1.8 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
 Control: Alkalinity: 60 mg/l; Hardness: 95 mg/l; Conductivity: 294 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
 Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

- *Test and Results Summary*
- *Data Summary and Statistical Analyses*
- *Raw Test Data: Water Quality & Test Organism Measurements*

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-07092405-001
Client/ID: TestAmerica IQI2057-01

Date Tested: 09/24/07 to 09/30/07

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).
QA/QC Batch No.: RT-070906.

Endpoints: Survival and Reproduction.
Source: In-laboratory culture.
Food: .1 ml YTC, algae per day.
Test solution volume: 15 ml.
Number of replicates: 10.
Photoperiod: 16/8 hrs. light/dark cycle.
Test duration: 6 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	27.8
6.25%	100%	26.7
12.5%	100%	19.2 *
25%	100%	10.8 *
50%	100%	6.3 *
100%	100%	2.6 *

* Concentration 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

Parameter	Survival	Growth
NOEC	100%	6.25%
TUc	1.0	16.0

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (27.8 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 = 17.2%)
Statistically significantly different concentrations relative difference >13%	Pass (stat. sig. diff. conc. relative difference = 30.9%)
Concentration response relationship acceptable	Pass (normal response at conc. tested)

Ceriodaphnia Survival and Reproduction Test-Survival Day 6

Start Date: 9/24/2007 15:00 Test ID: 7092405c Sample ID: IQI2057-01
 End Date: 9/30/2007 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 9/22/2007 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia

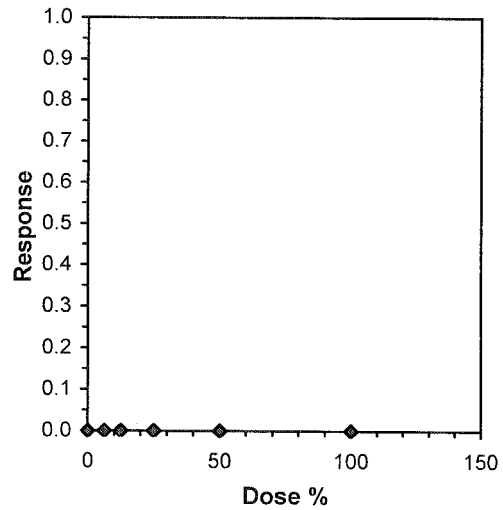
Comments:

Conc-%	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
6.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
50	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	Resp	Not Resp	Total	N	Fisher's 1-Tailed		Isotonic	
							Exact P	Critical	Mean	N-Mean
D-Control	1.0000	1.0000	0	10	10	10			1.0000	1.0000
6.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000
12.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000
25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000
50	1.0000	1.0000	0	10	10	10	1.0000	0.0500	1.0000	1.0000
100	1.0000	1.0000	0	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 D-Control				

Point	%	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: 9/24/2007 15:00 Test ID: 7092405c Sample ID: IQI2057-01
 End Date: 9/30/2007 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 9/22/2007 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia

Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	28.000	21.000	28.000	28.000	30.000	28.000	30.000	29.000	26.000	30.000
6.25	31.000	30.000	18.000	28.000	28.000	25.000	33.000	30.000	26.000	18.000
12.5	25.000	6.000	13.000	27.000	26.000	23.000	25.000	25.000	10.000	12.000
25	10.000	10.000	9.000	19.000	10.000	13.000	7.000	9.000	2.000	19.000
50	2.000	5.000	8.000	10.000	7.000	6.000	7.000	6.000	7.000	5.000
100	2.000	4.000	4.000	2.000	6.000	2.000	0.000	3.000	0.000	3.000

Conc-%	Transform: Untransformed							Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
D-Control	27.800	1.0000	27.800	21.000	30.000	9.711	10			27.800	1.0000
6.25	26.700	0.9604	26.700	18.000	33.000	19.264	10	102.50	75.00	26.700	0.9604
*12.5	19.200	0.6906	19.200	6.000	27.000	41.507	10	62.50	75.00	19.200	0.6906
*25	10.800	0.3885	10.800	2.000	19.000	47.775	10	55.00	75.00	10.800	0.3885
*50	6.300	0.2266	6.300	2.000	10.000	33.505	10	55.00	75.00	6.300	0.2266
*100	2.600	0.0935	2.600	0.000	6.000	70.687	10	55.00	75.00	2.600	0.0935

Auxiliary Tests

	Statistic	Critical	Skew	Kurt
Kolmogorov D Test indicates non-normal distribution (p <= 0.05)	1.12977	0.895	-0.6071	0.70167
Bartlett's Test indicates unequal variances (p = 5.76E-05)	26.977	15.0863		

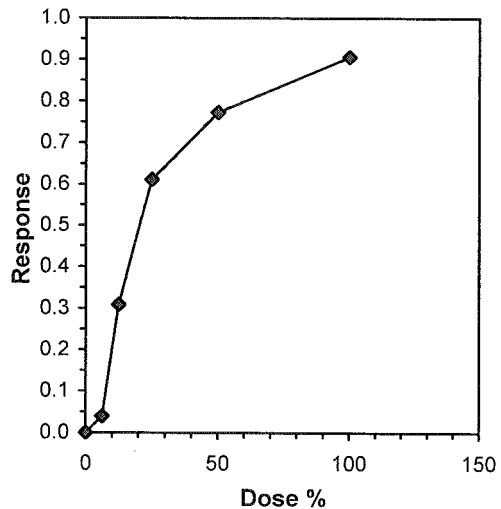
Hypothesis Test (1-tail, 0.05)

	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	6.25	12.5	8.83883	16

Treatments vs D-Control

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL		Skew
IC05	6.492	1.938	2.093	7.808	-0.4316
IC10	7.650	1.443	4.186	9.544	-0.2747
IC15	8.808	1.435	6.273	11.844	0.4347
IC20	9.967	1.572	7.682	13.547	0.6338
IC25	11.125	1.723	8.783	14.882	0.6055
IC40	16.250	2.456	11.364	19.917	-0.1956
IC50	20.387	2.475	14.226	23.940	-0.3508



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reproduction and Survival Raw Data Sheet



Lab No.: A-07092405-001
 Client ID: TestAmerica IQI2057-01

Start Date: 09/24/2007

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	0	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	5	3	4	5	5	4	6	6	5	5	48	10	R
	4	0	6	8	0	11	8	0	0	0	0	33	10	R
	5	8	12	0	8	0	0	10	8	9	12	67	10	J
	6	15	0	16	15	14	16	14	15	12	13	130	10	J
	7	-	-	-	-	-	30	-	-	-	-	-	-	-
	Total	28	21	28	28	29	28	30	29	26	30	278	10	R
6.25%	1	0	0	0	0	0	0	0	0	0	0		10	R
	2	0	0	0	0	0	0	0	0	0	0		10	R
	3	0	4	2	4	5	5	6	5	3	2	36	10	R
	4	6	9	6	7	0	8	0	0	0	4	40	10	R
	5	9	0	10	0	8	0	10	10	8	12	67	10	J
	6	16	17	0	17	15	12	17	15	15	(14)	124	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	31	30	18	28	28	25	33	30	26	18	267	10	J
12.5%	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	0	2	3	5	0	0	0	0	0	0	10	10	R
	4	4	4	2	0	4	3	5	5	4	4	35	10	R
	5	6	0	8	8	9	6	6	9	6	8	66	10	J
	6	15	0	(16)	14	13	14	14	11	0	0	81	10	J
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	25	6	13	27	26	23	25	25	10	12	192	10	R

Note: Fourth broods (circled) are not counted in data analysis.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reproduction and Survival Raw Data Sheet



Lab No.: A-07092405-001
 Client ID: TestAmerica IQI2057-01

Start Date: 09/24/2007

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
25%	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	0	2	0	4	0	2	0	0	0	2	10	10	R
	4	0	2	2	0	2	2	2	2	0	0	12	10	R
	5	4	6	7	5	0	0	5	7	2	6	42	10	R
	6	6	8	0	10	8	9	0	0	0	11	44	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	10	10	9	14	14	13	7	9	2	14	108	10	R
50%	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	2	0	0	0	2	0	0	0	4	10	R	
	4	0	0	0	2	0	0	0	0	0	2	10	R	
	5	2	0	2	4	2	2	3	2	3	2	22	10	R
	6	0	3	6	4	5	2	4	4	4	3	35	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	2	5	8	10	7	6	7	6	7	5	63	10	R
100%	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	2	0	2	0	0	0	0	0	4	10	R	
	4	0	0	0	0	0	0	0	0	0	0	10	R	
	5	2	0	4	0	2	2	0	3	0	0	13	10	R
	6	0	2	0	0	4	0	0	0	0	3	9	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	2	4	4	2	6	2	0	3	0	3	26	10	R

Note: Fourth broods (circled) are not counted in data analysis.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Water Chemistries Raw Data Sheet



Lab No.: A-07092405-001

Start Date: 09/24/2007

Client ID: TestAmerica IQI2057-01

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		— —	
Time of Readings:		1500	1600	1600	1800	1500	1500	1500	1500	1500	1500	1500	1500	— —	
Control	DO	8.4	8.3	8.1	8.4	8.4	8.1	8.6	8.0	8.1	8.1	8.0	8.0	— —	
	pH	7.6	7.5	7.6	7.6	7.7	7.6	7.6	7.7	7.4	7.8	7.6	7.8	— —	
	Temp	24.6	24.4	25.1	24.4	25.1	24.7	25.4	24.8	25.2	24.6	24.9	24.9	— —	
6.25%	DO	8.3	8.3	8.1	8.4	8.4	8.0	8.4	8.0	8.0	8.0	8.2	8.0	— —	
	pH	7.5	7.5	7.5	7.6	7.6	7.6	7.4	7.7	7.3	7.7	7.5	7.8	— —	
	Temp	24.4	24.3	25.1	24.4	25.0	24.7	25.4	24.8	25.2	24.6	24.9	25.0	— —	
12.5%	DO	8.2	8.1	8.0	8.5	8.2	7.9	8.3	7.9	7.8	7.9	8.2	7.9	— —	
	pH	7.4	7.5	7.4	7.6	7.5	7.6	7.3	7.7	7.2	7.7	7.4	7.7	— —	
	Temp	24.6	24.3	25.1	24.4	24.9	24.6	25.3	24.8	25.1	24.6	24.9	25.1	— —	
25%	DO	8.1	7.9	7.8	8.5	8.0	7.8	8.0	7.7	7.6	7.9	8.2	7.8	— —	
	pH	7.4	7.5	7.3	7.5	7.4	7.5	7.2	7.6	7.1	7.6	7.3	7.7	— —	
	Temp	24.6	24.3	25.0	24.5	24.8	24.6	25.2	24.8	25.0	24.5	24.9	24.8	— —	
50%	DO	7.8	7.7	7.0	8.5	7.6	7.7	7.4	7.7	7.2	7.8	8.3	7.8	— —	
	pH	7.3	7.5	7.2	7.5	7.2	7.5	7.0	7.6	6.9	7.6	7.1	7.6	— —	
	Temp	24.7	24.2	24.9	24.4	24.6	24.5	25.0	24.7	24.8	24.5	24.9	25.4	— —	
100%	DO	7.3	7.5	5.9	8.4	6.2	7.6	6.0	7.5	6.6	7.6	8.3	7.7	— —	
	pH	7.2	7.4	7.1	7.5	7.0	7.6	7.0	7.5	6.7	7.5	6.9	7.5	— —	
	Temp	24.8	24.2	24.6	24.5	24.1	24.5	24.6	24.7	24.5	24.5	24.8	25.1	— —	

Source of Neonates											
Replicate:	A	B	C	D	E	F	G	H	I	J	
Brood ID:	6C	4A	6B	5F	4B	4I	6J	5J	4J	4H	

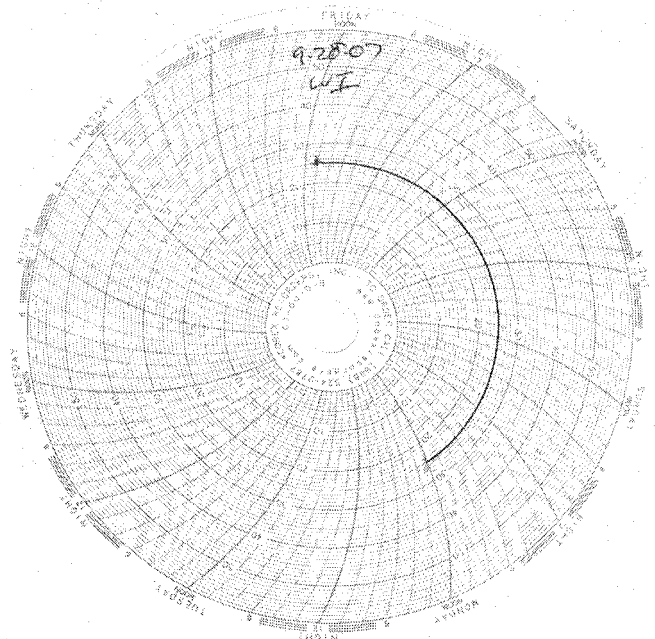
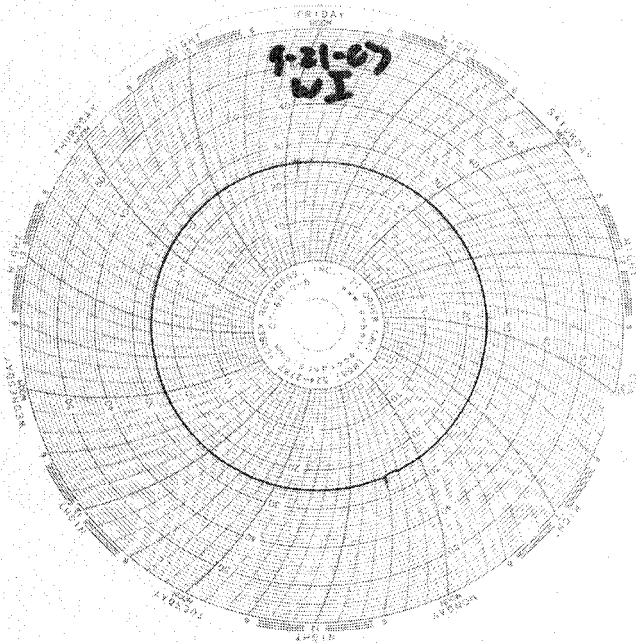
Additional Parameters	Control	100% Effluent
Conductivity	294	237
Alkalinity	60	88
Hardness	95	134
Chlorine (TRC)	0	0
Ammonia (NH ₃ -N)	<0.1	1.8

Laboratory Temperature Chart

QA/QC Batch No: A-07092405

Date Tested: 09/24/07 to 09/30/07

Acceptable Range: 25 \pm 1 $^{\circ}$ C





CHAIN OF CUSTODY

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQI2057

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756
Project Location: California
Receipt Temperature: 2 °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2057-01	Water		Sampled: 09/22/07 11:10	
Bioassay-7 dy Chrnrc	N/A	10/01/07	09/23/07 23:10	Cerio, EPA/821-R02-013, Sub to AqTox Labs
Bioassay-Acute 96hr	% Survival	10/01/07	09/23/07 23:10	FH minnow, EPA/821-R02-012, Sub to AqTox Labs
<i>Containers Supplied:</i>				
1 gal Poly (AV)	1 gal Poly (O)			

~~Released By~~
Released By [Signature] 9/24/07 12:00
Date/Time

[Signature] 9/24/07 705
Received By [Signature] 9-24-07 12:10
Date/Time



***REFERENCE
TOXICANT
DATA***



*Fathead Minnow
Reference
Toxicant
Data*

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS



QA/QC Batch No.: RT-070905

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 14 days old.

Regulations: NPDES.

Test chamber volume: 250 ml.

Feeding: Prior to renewal at 48 hrs.

Temperature: 20 +/- 1°C.

Number of replicates: 2.

Dilution water: MHSF.

Source: In-lab culture.

Test type: Static-Renewal.

Test Protocol: EPA-821-R-02-012.

Endpoints: LC50 at 96 hrs.

Test chamber: 600 ml glass beakers.

Aeration: None.

Number of organisms per chamber: 10.

Photoperiod: 16/8 hrs light/dark.

TEST DATA

Date/Time:	INITIAL			24 Hr					48 Hr				
	<u>9-5-07 1200</u>			<u>9-6-07 1100</u>					<u>9-7-07 1200</u>				
	<u>Ru</u>			<u>Ru</u>					<u>Ru</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	19.5	8.7	7.8	19.6	7.2	7.3	0	0	19.3	7.4	7.2	0	0
1.0 mg/l	19.5	8.7	7.8	19.5	7.1	7.3	0	0	19.2	7.1	7.2	0	0
2.0 mg/l	19.5	8.8	7.8	19.5	7.3	7.3	0	0	19.2	7.2	7.2	0	0
4.0 mg/l	19.5	8.9	7.8	19.4	7.2	7.3	3	4	19.2	7.1	7.2	0	0
8.0 mg/l	19.5	8.9	7.8	19.5	7.3	7.3	10	10	-	-	-	-	-

Date/Time:	RENEWAL			72 Hr					96 Hr				
	<u>9-7-07 1200</u>			<u>9-8-07 1200</u>					<u>9-9-07 1200</u>				
	<u>Ru</u>			<u>Ru</u>					<u>Z</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	19.3	8.9	7.8	19.2	6.8	7.3	0	0	19.4	6.8	7.5	0	0
1.0 mg/l	19.3	8.8	7.8	19.2	6.8	7.3	0	0	19.4	7.3	7.4	0	0
2.0 mg/l	19.3	8.9	7.7	19.1	6.7	7.2	0	0	19.3	7.1	7.4	0	0
4.0 mg/l	19.3	9.0	7.7	19.1	7.0	7.2	0	0	19.3	6.9	7.3	0	0
8.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments: Control: Alkalinity: 62 mg/l; Hardness: 92 mg/l; Conductivity: 300 umho.

SDS: Alkalinity: 62 mg/l; Hardness: 92 mg/l; Conductivity: 303 umho.

Concentration-response relationship acceptable? (see attached computer analysis):

Yes (response curve normal)

No (dose interrupted indicated or non-normal)

Acute Fish Test-96 Hr Survival

Start Date: 05 Sep-07 12:00 Test ID: RT-070905 Sample ID: REF-Ref Toxicant
 End Date: 09 Sep-07 12:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 05 Sep-07 00:00 Protocol: ACUTE-EPA-821-R-02-012 Test Species: PP-Pimephales promelas

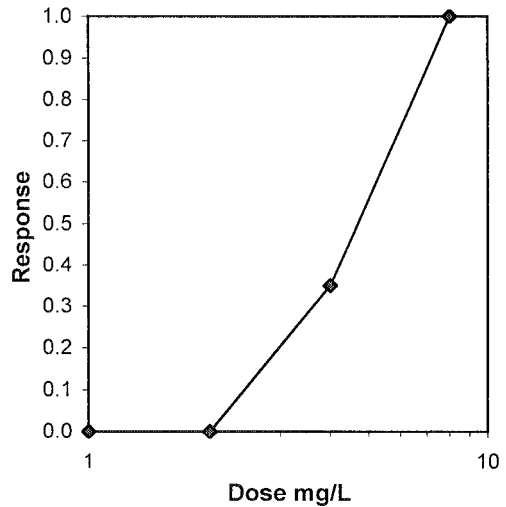
Comments:

Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.7000	0.6000
8	0.0000	0.0000

Conc-mg/L	Transform: Arcsin Square Root							Number Resp	Total Number
	Mean	N-Mean	Mean	Min	Max	CV%	N		
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	0.6500	0.6500	0.9386	0.8861	0.9912	7.916	2	7	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

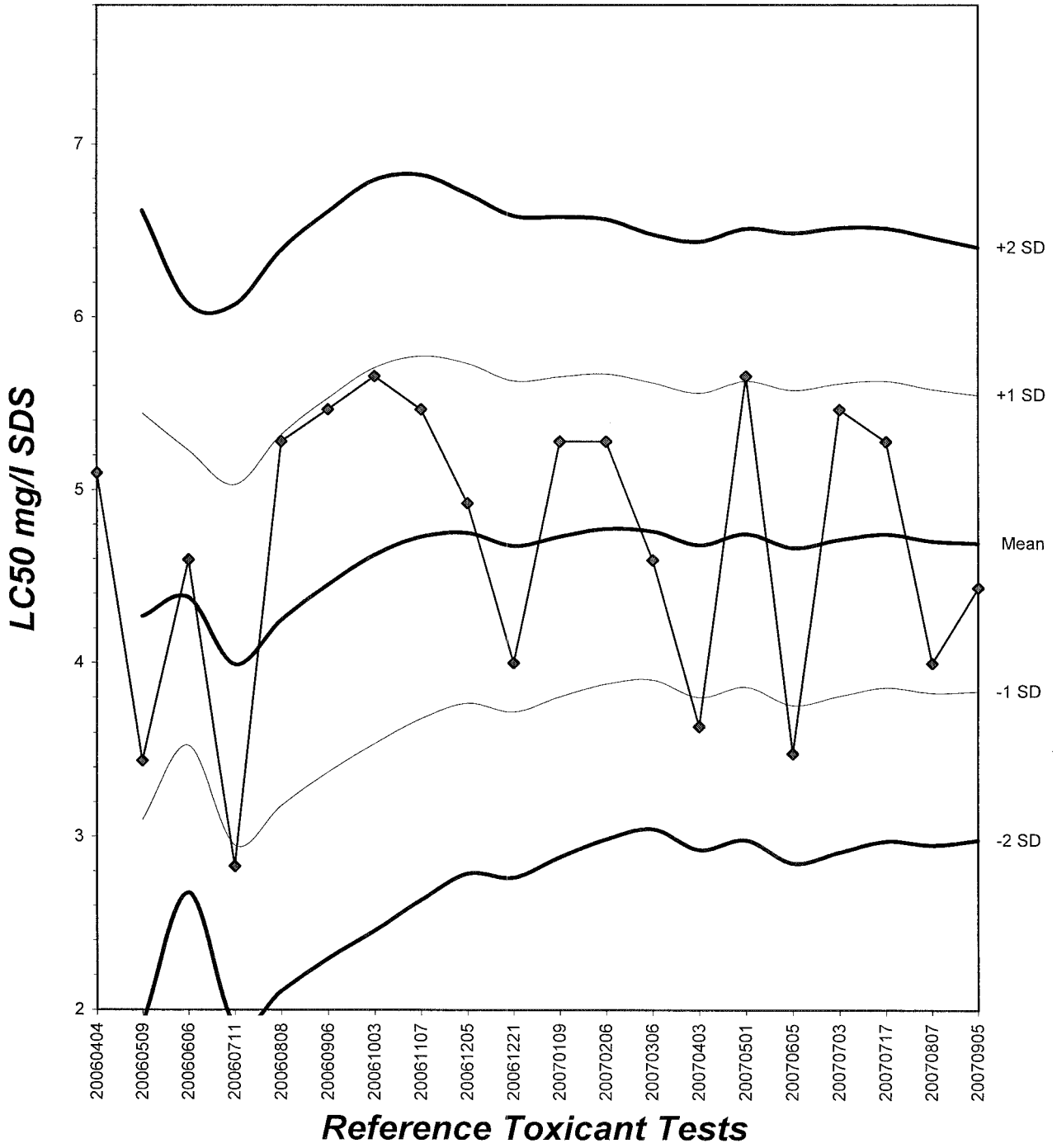
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Trimmed Spearman-Kärber			
Trim Level	EC50	95% CL	
0.0%	4.4383	3.8283	5.1455
5.0%	4.4842	3.8003	5.2911
10.0%	4.5292	3.7448	5.4779
20.0%	4.6141	3.5048	6.0745
Auto-0.0%	4.4383	3.8283	5.1455



Acute Fathead Minnow Laboratory Control Chart

CV% = 18.2



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-070905

SOURCE: In-Lab Culture

DATE HATCHED: 8-22-07

APPROXIMATE QUANTITY: ~400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: _____

DATE USED IN LAB: 9/5/07

AVERAGE FISH WEIGHT: 0.006 gm

TEST LOADING LIMITS: 0.65 gm/liter

200 ml test solution volume = 0.013 gm mean fish weight limit

250 ml test solution volume = 0.016 gm mean fish weight limit

ACCLIMATION WATER QUALITY:

Temp.: 19.5 °C

pH: 7.8

Ammonia: 0.2 mg/l NH₃-N

DO: 8.7 mg/l

Alkalinity: 62 mg/l

Hardness: 92 mg/l

READINGS RECORDED BY: _____

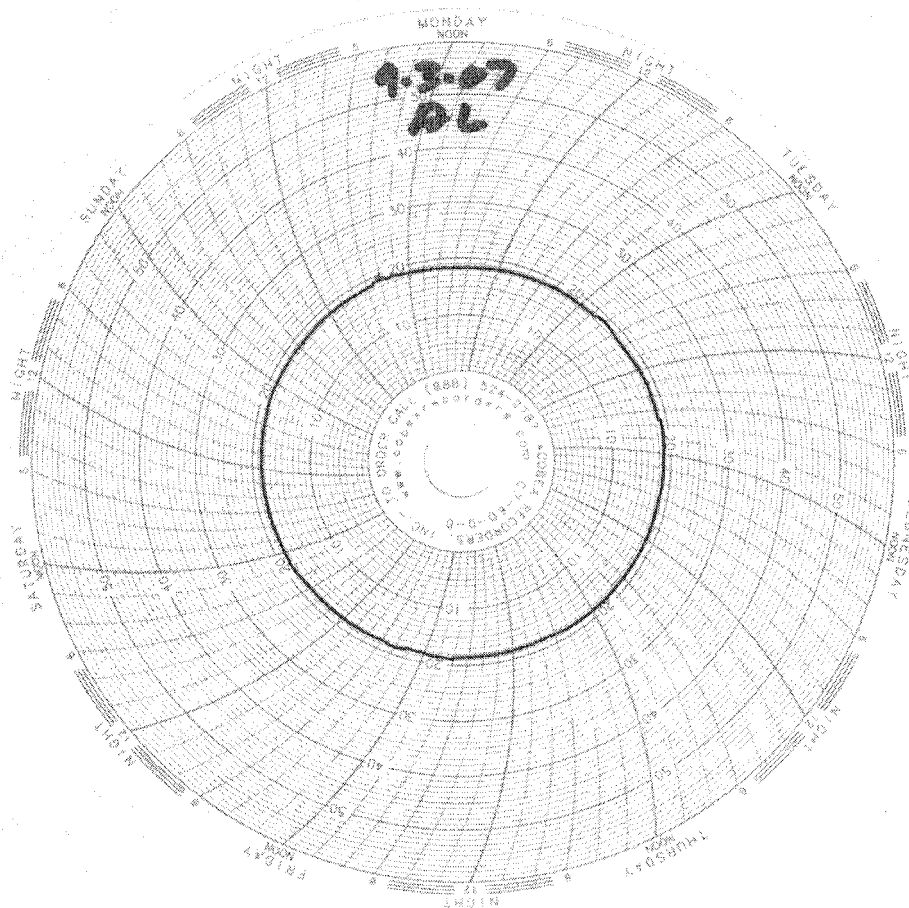
DATE: 9-6-07

Laboratory Temperature Chart

QA/QC Batch No: RT-070905

Date Tested: 09/05/07 to 09/09/07

Acceptable Range: 20 \pm 1 $^{\circ}$ C



CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

- *Test and Results Summary*
- *Data Summary and Statistical Analyses*
- *Raw Test Data: Water Quality & Test Organism Measurements*

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-070906

Date Tested: 09/06/07 to 09/12/07

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: 6 days.
 Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		20.8	
0.25 g/l	100%		18.9	
0.5 g/l	100%		17.9	
1.0 g/l	100%		16.3	*
2.0 g/l	100%		2.8	*
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	1.05 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥ 80%	Pass (100% Survival)
≥ 15 young per surviving control female	Pass (20.8 young)
≥ 60% surviving controls had 3 broods	Pass (80% with 3 broods)
PMSD < 47% for reproduction	Pass (PMSD = 16.3%)
Stat. sig. diff. conc. relative difference > 13%	Pass (Stat. sig. diff. conc. = 21.6%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-Survival Day 6

Start Date: 06 Sep-07 14:00 Test ID: RT070906 Sample ID: REF-Ref Toxicant
 End Date: 12 Sep-07 16:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 06 Sep-07 00:00 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

Comments:

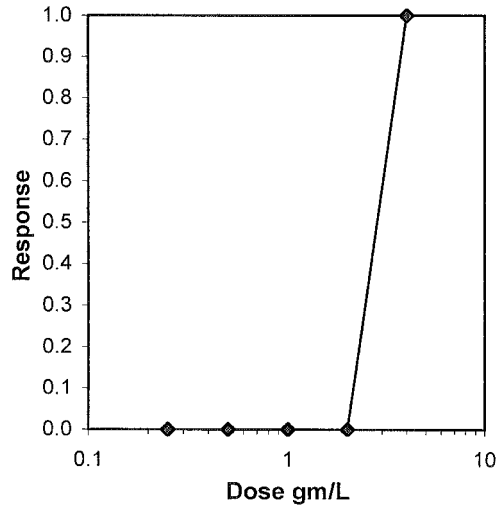
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	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	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
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	

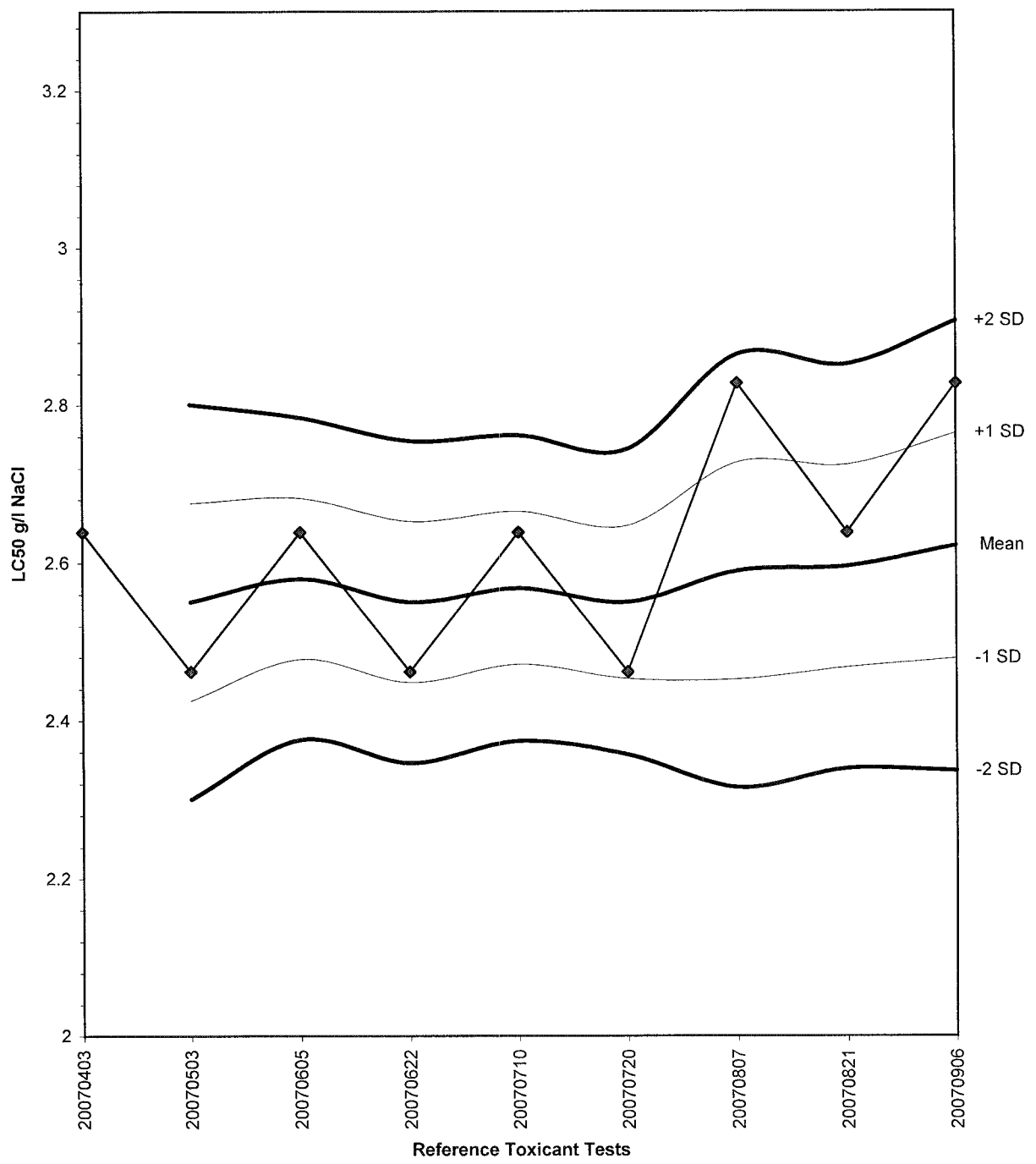
Graphical Method

Trim Level	EC50
0.0%	2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 5.4



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 06 Sep-07 14:00 Test ID: RT070906 Sample ID: REF-Ref Toxicant
 End Date: 12 Sep-07 16:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 06 Sep-07 00:00 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

Comments:

Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	16.000	23.000	23.000	25.000	22.000	14.000	22.000	21.000	21.000	21.000
0.25	15.000	22.000	24.000	15.000	22.000	14.000	19.000	16.000	22.000	20.000
0.5	12.000	21.000	22.000	14.000	20.000	14.000	19.000	14.000	21.000	22.000
1	11.000	15.000	18.000	10.000	19.000	19.000	19.000	17.000	14.000	21.000
2	4.000	2.000	1.000	2.000	0.000	4.000	3.000	7.000	0.000	5.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Conc-gm/L	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed	
			Mean	Min	Max	CV%	Critical			MSD	
D-Control	20.800	1.0000	20.800	14.000	25.000	15.994	10				
0.25	18.900	0.9087	18.900	14.000	24.000	19.231	10	1.244	2.223	3.397	
0.5	17.900	0.8606	17.900	12.000	22.000	21.947	10	1.898	2.223	3.397	
*1	16.300	0.7837	16.300	10.000	21.000	22.597	10	2.946	2.223	3.397	
*2	2.800	0.1346	2.800	0.000	7.000	80.390	10	11.783	2.223	3.397	
4	0.000	0.0000	0.000	0.000	0.000	0.000	10				

Auxiliary Tests		Statistic	Critical	Skew	Kurt					
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01)		0.92918	0.93	-0.4524	-0.9236					
Bartlett's Test indicates equal variances (p = 0.58)		2.8678	13.2767							
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU	MSDu	MSB	MSE	F-Stat	F-Prob	df
Dunnett's Test	0.5	1	0.70711		3.39652	518.03	11.6689	44.3941	4.5E-15	4, 45

Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 06 Sep-07 14:00 Test ID: RT070906 Sample ID: REF-Ref Toxicant
 End Date: 12 Sep-07 16:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 06 Sep-07 00:00 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

Comments:

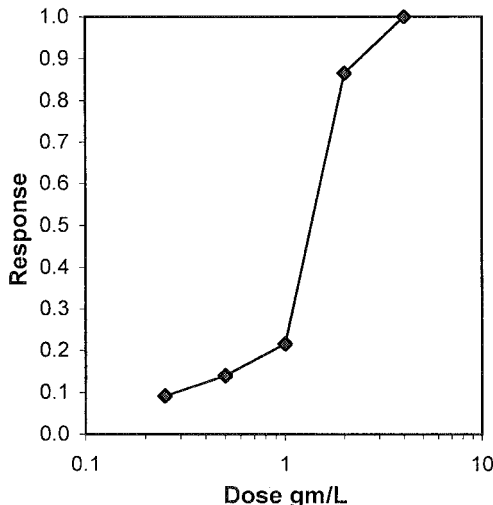
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	16.000	23.000	23.000	25.000	22.000	14.000	22.000	21.000	21.000	21.000
0.25	15.000	22.000	24.000	15.000	22.000	14.000	19.000	16.000	22.000	20.000
0.5	12.000	21.000	22.000	14.000	20.000	14.000	19.000	14.000	21.000	22.000
1	11.000	15.000	18.000	10.000	19.000	19.000	19.000	17.000	14.000	21.000
2	4.000	2.000	1.000	2.000	0.000	4.000	3.000	7.000	0.000	5.000
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					Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
D-Control	20.800	1.0000	20.800	14.000	25.000	15.994	10			20.800	1.0000
0.25	18.900	0.9087	18.900	14.000	24.000	19.231	10	90.00	76.00	18.900	0.9087
0.5	17.900	0.8606	17.900	12.000	22.000	21.947	10	79.50	76.00	17.900	0.8606
*1	16.300	0.7837	16.300	10.000	21.000	22.597	10	70.00	76.00	16.300	0.7837
*2	2.800	0.1346	2.800	0.000	7.000	80.390	10	55.00	76.00	2.800	0.1346
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 non-normal distribution (p <= 0.01)	0.92918	0.93	-0.4524	-0.9236
Bartlett's Test indicates equal variances (p = 0.58)	2.8678	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	0.5	1	0.70711	

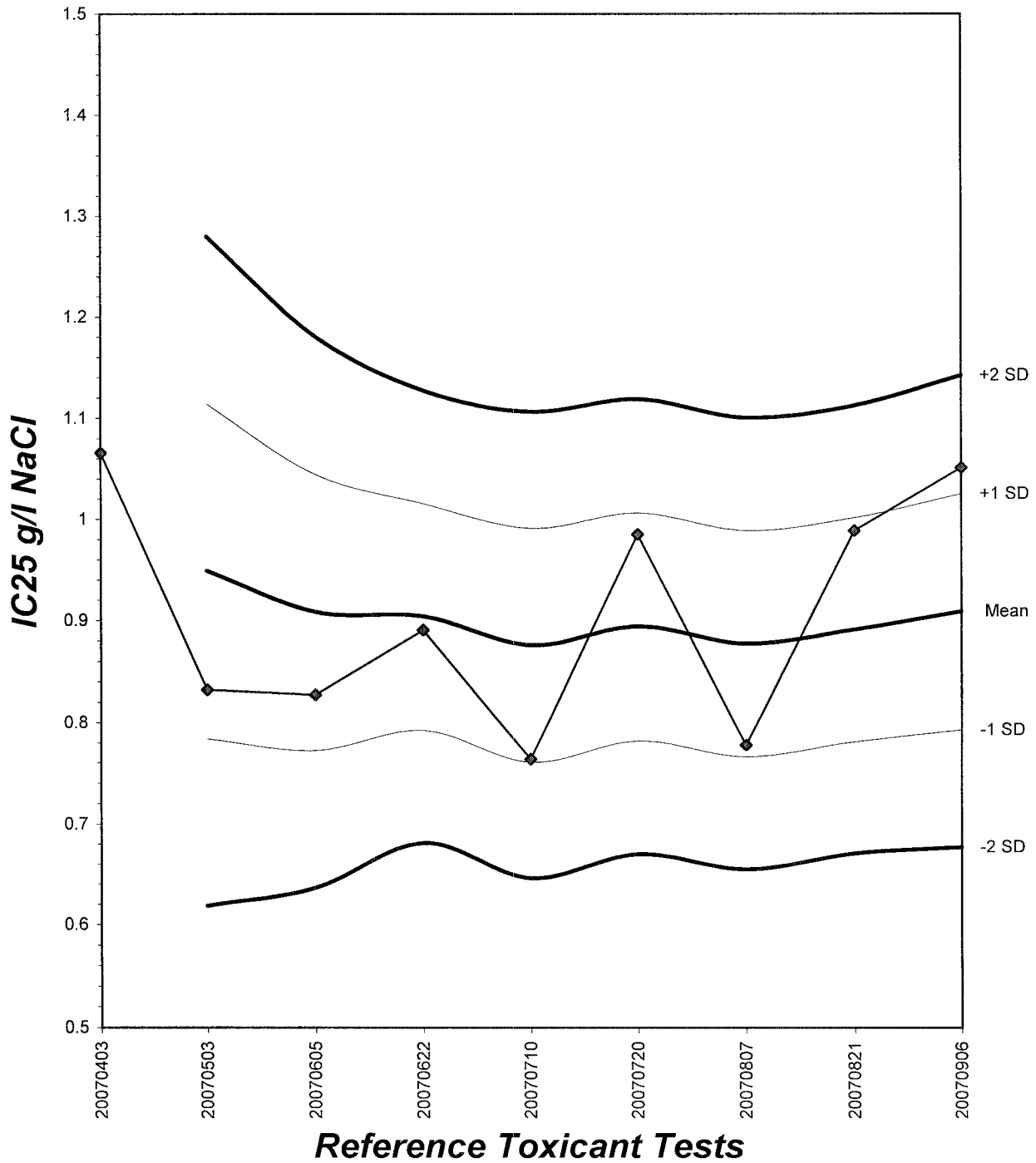
Linear Interpolation (80 Resamples)

Point	gm/L	SE	95% CL		Skew
IC05*	0.1368	0.1671	0.0620	0.6349	2.0509
IC10	0.2950	0.2192	0.1240	0.9452	1.1968
IC15	0.5688	0.2871	0.1860	1.0599	0.2292
IC20	0.8938	0.2505	0.2480	1.1257	-0.4998
IC25	1.0519	0.1241	0.7647	1.1916	-0.5431
IC40	1.2830	0.0701	1.1436	1.3960	-0.0663
IC50	1.4370	0.0570	1.3307	1.5294	-0.0575



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 12.8



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-070906

Start Date: 09/06/2007

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	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	0	4	5	4	0	5	5	5	0	0	28	10	J
	4	4	0	0	0	4	0	0	0	4	3	15	10	R
	5	0	7	7	9	7	8	7	8	7	8	68	10	R
	6	12	12	11	12	11	1	10	8	10	10	97	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	16	29	23	25	22	14	22	21	21	21	208	10	R
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	5	0	4	5	5	0	5	5	0	0	29	10	J
	4	0	4	0	0	0	4	0	0	3	3	14	10	R
	5	7	6	8	0	7	0	5	0	7	8	48	10	R
	6	3	12	12	10	10	10	9	11	12	9	98	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	15	22	24	15	22	14	19	16	22	20	189	10	R
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	0	5	5	4	5	0	5	4	0	28	10	J
	4	3	4	0	0	0	0	4	0	0	4	15	10	R
	5	0	6	7	0	6	9	6	0	6	8	48	10	R
	6	9	11	10	9	10	0	9	9	11	10	88	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	12	21	22	14	20	14	19	14	21	22	179	10	R

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-070906

Start Date: 09/06/2007

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	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	3	0	3	3	4	4	0	0	3	0	20	10	R
	4	0	4	0	0	0	0	3	4	0	3	14	10	R
	5	0	0	6	0	7	7	5	4	5	6	40	10	R
	6	8	11	9	7	8	8	11	9	6	12	89	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	11	15	18	10	19	19	19	17	14	21	163	10	R
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	0	0	0	0	0	0	0	0	0	10	R	
	4	0	0	0	0	0	0	0	3	0	2	5	10	R
	5	0	2	1	2	0	2	3	2	0	0	12	10	R
	6	4	0	0	0	0	2	0	2	0	3	11	10	R
	7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	4	2	1	2	0	4	3	7	0	5	28	10	R
4.0 g/l	1	X	X	X	X	X	X	X	X	X	0	0	R	
	2	-	-	-	-	-	-	-	-	-	-	-	-	
	3	-	-	-	-	-	-	-	-	-	-	-	-	
	4	-	-	-	-	-	-	-	-	-	-	-	-	
	5	-	-	-	-	-	-	-	-	-	-	-	-	
	6	-	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-	-	-	-	-	-	-	-	-	
	Total	0	0	0	0	0	0	0	0	0	0	0	0	R

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-070906

Start Date: 09/06/2007

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:		Rm Rm		Rm Rm		Rm Rm		Rm Rm		Rm Rm		Rm Rm		Rm Rm	
Time of Readings:		1400	1600	1600	1520	1520	1400	1400	1300	1300	1600	1600	1600	1600	1500
Control	DO	8.5	8.3	8.1	8.2	8.7	8.0	8.6	7.8	8.2	8.3	8.8	8.0	8.6	7.9
	pH	7.8	7.8	7.8	7.9	7.9	7.9	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8
	Temp	25.1	25.1	25.5	25.3	24.8	25.1	24.9	24.9	25.3	24.4	25.1	24.5	25.2	24.6
0.25 g/l	DO	8.4	8.3	8.1	8.2	8.7	8.1	8.4	8.1	8.1	8.4	8.8	8.1	8.9	7.9
	pH	7.8	7.8	7.8	7.9	7.9	7.9	7.8	7.7	7.8	7.8	7.8	7.7	7.8	7.8
	Temp	25.1	25.1	25.5	25.3	24.8	25.2	24.7	24.9	25.4	24.4	25.1	24.5	25.2	24.6
0.5 g/l	DO	8.4	8.4	8.0	8.2	8.7	8.1	8.4	7.8	8.1	8.4	8.8	8.1	9.0	7.9
	pH	7.7	7.8	7.8	7.8	7.9	7.9	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8
	Temp	25.1	25.2	25.5	25.3	24.8	25.3	24.7	25.1	25.2	24.5	25.1	24.5	25.2	24.6
1.0 g/l	DO	8.5	8.4	8.0	8.1	8.6	8.0	8.6	7.9	8.2	8.3	8.8	8.0	9.0	8.0
	pH	7.7	7.8	7.7	7.8	7.8	7.9	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8
	Temp	25.0	25.2	25.4	25.3	24.8	25.1	24.6	25.3	25.2	24.5	25.2	24.5	25.2	24.6
2.0 g/l	DO	8.6	8.3	8.1	8.3	8.5	8.1	8.6	7.8	8.1	8.5	8.7	8.0	9.1	8.0
	pH	7.7	7.8	7.7	7.8	7.8	7.9	7.8	7.8	7.8	7.8	7.8	7.9	7.8	7.8
	Temp	24.9	25.2	25.4	25.3	24.9	25.2	24.6	24.9	25.4	24.5	25.3	24.5	25.3	24.6
4.0 g/l	DO	8.6	8.4	-	-	-	-	-	-	-	-	-	-	-	-
	pH	7.7	7.8	-	-	-	-	-	-	-	-	-	-	-	-
	Temp	24.7	25.2	-	-	-	-	-	-	-	-	-	-	-	-

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)	335	315	300	6340	3510
Alkalinity (mg/l CaCO ₃)	68	65	60	69	68	63
Hardness (mg/l CaCO ₃)	100	100	94	100	100	97

Source of Neonates

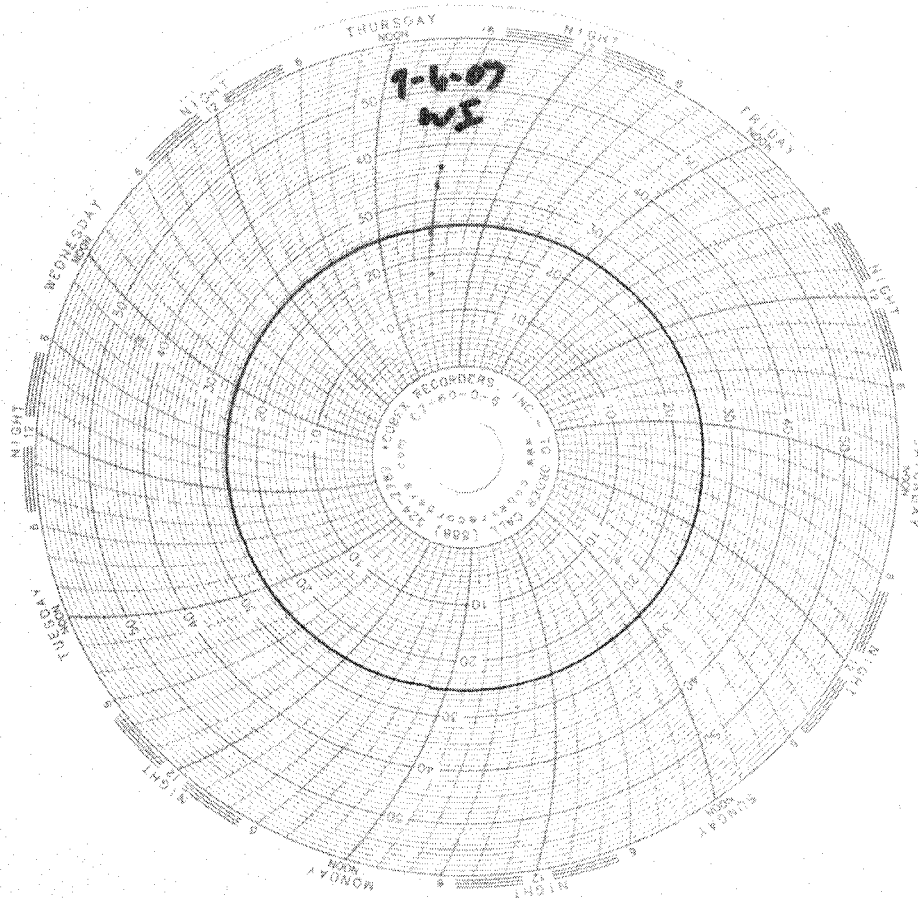
Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	B1	D2	D3	E1	E2	F3	G1	H1	I3	J2

Laboratory Temperature Chart

QA/QC Batch No: RT-070906

Date Tested: 09/06/07 to 09/12/07

Acceptable Range: 25 \pm 1 $^{\circ}$ C




Eberline Services

ANALYSIS RESULTS

SDG <u>8669</u>	Client <u>TA IRVINE</u>
Work Order <u>R709145-01</u>	Contract <u>PROJECT# IQI2057</u>
Received Date <u>09/25/07</u>	Matrix <u>WATER</u>

Client	Lab						
<u>Sample ID</u>	<u>Sample ID</u>	<u>Collected</u>	<u>Analyzed</u>	<u>Nuclide</u>	<u>Results + 2σ</u>	<u>Units</u>	<u>MDA</u>
IQI2057-01	8669-001	09/22/07	10/10/07	G.Beta-K40	426 ± 34	pCi/L	28
			09/29/07	Gross Beta	426 ± 95	pCi/L	140
			10/05/07	GrossAlpha	701 ± 170	pCi/L	120
			10/15/07	Ra-228	3.01 ± 0.061	pCi/L	0.27
			10/08/07	K-40 (G)	268 ± 38	pCi/L	28
			10/08/07	Mn-54 (G)	U	pCi/L	2.1
			10/08/07	Co-58 (G)	U	pCi/L	2.4
			10/08/07	Co-60 (G)	U	pCi/L	2.2
			10/08/07	Cs-134 (G)	U	pCi/L	3.2
			10/08/07	Cs-137 (G)	9.06 ± 2.3	pCi/L	2.5
			10/08/07	Eu-152 (G)	U	pCi/L	6.0
			10/08/07	Eu-154 (G)	U	pCi/L	6.7
			10/08/07	Tl-208 (G)	16.4 ± 2.6	pCi/L	2.5
			10/08/07	Pb-210 (G)	U	pCi/L	600
			10/08/07	Bi-212 (G)	47.2 ± 30	pCi/L	34
			10/08/07	Pb-212 (G)	43.0 ± 3.5	pCi/L	3.3
			10/08/07	Bi-214 (G)	24.1 ± 4.5	pCi/L	4.8
			10/08/07	Pb-214 (G)	27.2 ± 5.9	pCi/L	5.5
			10/08/07	Ra-226 (G)	23.4 ± 4.4	pCi/L	4.7
			10/08/07	Ac-228 (G)	48.0 ± 11	pCi/L	14
			10/08/07	Th-228 (G)	U	pCi/L	14
			10/08/07	Th-230 (G)	U	pCi/L	640
			10/08/07	Th-232 (G)	47.8 ± 11	pCi/L	9.7
10/08/07	Th-234 (G)	U	pCi/L	2.0			
10/08/07	U-238 (G)	U	pCi/L	340			
10/08/07	U-235 (G)	U	pCi/L	11			
10/08/07	Am-241 (G)	U	pCi/L	18			
10/08/07	U-234 (G)	U	pCi/L	550			
10/24/07	H-3	15.4 ± 110	pCi/L	190			
10/17/07	Ra-226	14.0 ± 1.3	pCi/L	0.60			
10/10/07	Sr-90	2.79 ± 0.44	pCi/L	0.46			

Certified by <u></u> Report Date <u>10/26/07</u> Page 1
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Eberline Services

QC RESULTS

SDG <u>8669</u> Work Order <u>R709145-01</u> Received Date <u>09/25/07</u>	Client <u>TA IRVINE</u> Contract <u>PROJECT# IQI2057</u> Matrix <u>WATER</u>
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Lab	Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
<u>LCS</u>							
	8669-002	Gross Beta	8.58 ± 0.69	pCi/Smpl	9.48	0.56	91% recovery
		GrossAlpha	10.6 ± 1.7	pCi/Smpl	10.1	0.97	105% recovery
		Ra-228	6.95 ± 1.9	pCi/Smpl	8.23	0.65	84% recovery
		Co-60 (G)	224 ± 17	pCi/Smpl	236	10	95% recovery
		Cs-137 (G)	246 ± 15	pCi/Smpl	238	12	103% recovery
		Am-241 (G)	250 ± 53	pCi/Smpl	253	70	99% recovery
		H-3	185 ± 16	pCi/Smpl	203	19	91% recovery
		Ra-226	5.23 ± 0.25	pCi/Smpl	5.02	0.078	104% recovery
		Sr-90	10.2 ± 0.82	pCi/Smpl	9.47	0.36	108% recovery
<u>BLANK</u>							
	8669-003	G.Beta-K40	0.069 ± 0.31	pCi/Smpl	NA	0.55	<MDA
		Gross Beta	0.116 ± 0.46	pCi/Smpl	NA	0.76	<MDA
		GrossAlpha	-0.269 ± 0.41	pCi/Smpl	NA	0.97	<MDA
		Ra-228	-0.136 ± 0.16	pCi/Smpl	NA	0.46	<MDA

Certified by <u>29</u> Report Date <u>10/26/07</u> Page 2

Eberline Services

SDG <u>8669</u>	Client <u>TA IRVINE</u>
Work Order <u>R709145-01</u>	Contract <u>PROJECT# IQI2057</u>
Received Date <u>09/25/07</u>	Matrix <u>WATER</u>

K-40 (G)	U	pCi/Smpl	NA	110	<MDA
Mn-54 (G)	U	pCi/Smpl	NA	4.2	<MDA
Co-58 (G)	U	pCi/Smpl	NA	4.1	<MDA
Co-60 (G)	U	pCi/Smpl	NA	4.7	<MDA
Cs-134 (G)	U	pCi/Smpl	NA	5.4	<MDA
Cs-137 (G)	U	pCi/Smpl	NA	4.4	<MDA
Eu-152 (G)	U	pCi/Smpl	NA	12	<MDA
Eu-154 (G)	U	pCi/Smpl	NA	14	<MDA
Tl-208 (G)	U	pCi/Smpl	NA	4.8	<MDA
Pb-210 (G)	U	pCi/Smpl	NA	210	<MDA
Bi-212 (G)	U	pCi/Smpl	NA	60	<MDA
Pb-212 (G)	U	pCi/Smpl	NA	7.0	<MDA
Bi-214 (G)	U	pCi/Smpl	NA	9.7	<MDA
Pb-214 (G)	U	pCi/Smpl	NA	9.3	<MDA
Ra-226 (G)	U	pCi/Smpl	NA	9.4	<MDA
Ac-228 (G)	U	pCi/Smpl	NA	20	<MDA
Th-228 (G)	U	pCi/Smpl	NA	20	<MDA
Th-230 (G)	U	pCi/Smpl	NA	320	<MDA
Th-232 (G)	U	pCi/Smpl	NA	20	<MDA
Th-234 (G)	U	pCi/Smpl	NA	1.8	<MDA
U-238 (G)	U	pCi/Smpl	NA	730	<MDA
U-235 (G)	U	pCi/Smpl	NA	17	<MDA
Am-241 (G)	U	pCi/Smpl	NA	5.0	<MDA
U-234 (G)	U	pCi/Smpl	NA	880	<MDA
H-3	2.57 ± 11	pCi/Smpl	NA	19	<MDA
Ra-226	-0.017 ± 0.028	pCi/Smpl	NA	0.061	<MDA
Sr-90	0.031 ± 0.20	pCi/Smpl	NA	0.46	<MDA

LCS

8669-006 G.Beta-K40 4.82 ± 0.55 pCi/Smpl 4.73 0.57 102% recovery

DUPLICATES

<u>Sample ID</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>MDA</u>
8669-004	G.Beta-K40	429 ± 55	48
	Gross Beta	476 ± 83	95
	GrossAlpha	605 ± 150	130
	Ra-228	3.00 ± 0.66	0.25

ORIGINALS

<u>Sample ID</u>	<u>Results ± 2σ</u>	<u>MDA</u>	<u>RPD (Tot)</u>	<u>Eval</u>
8669-001	426 ± 34	28	1	48 satis.
	426 ± 95	140	11	60 satis.
	701 ± 170	120	15	67 satis.
	3.01 ± 0.061	0.27	0	39 satis.

Certified by 29

Report Date 10/26/07

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Eberline Services

QC RESULTS

SDG <u>8669</u>	Client <u>TA IRVINE</u>
Work Order <u>R709145-01</u>	Contract <u>PROJECT# IQI2057</u>
Received Date <u>09/25/07</u>	Matrix <u>WATER</u>

DUPLICATES				ORIGINALS			
Sample ID	Nuclide	Results + 2σ	MDA	Sample ID	Results + 2σ	MDA	3σ RPD (Tot) Eval
K-40	(G)	189 ± 23	20		268 ± 38	28	35 36 satis.
Mn-54	(G)	U	1.4		U	2.1	- 0 satis.
Co-58	(G)	U	1.4		U	2.4	- 0 satis.
Co-60	(G)	U	1.5		U	2.2	- 0 satis.
Cs-134	(G)	U	3.0		U	3.2	- 0 satis.
Cs-137	(G)	3.73 ± 1.2	1.6		9.06 ± 2.3	2.5	83 65 unsat.
Eu-152	(G)	U	4.3		U	6.0	- 0 satis.
Eu-154	(G)	U	4.4		U	6.7	- 0 satis.
Tl-208	(G)	8.00 ± 1.4	1.5		16.4 ± 2.6	2.5	69 43 unsat.
Pb-210	(G)	98.8 ± 26	34		U	600	200 84 unsat.
Bi-212	(G)	27.9 ± 19	23		47.2 ± 30	34	51 144 satis.
Pb-212	(G)	45.5 ± 2.7	2.3		43.0 ± 3.5	3.3	6 26 satis.
Bi-214	(G)	15.8 ± 4.0	4.0		24.1 ± 4.5	4.8	42 50 satis.
Pb-214	(G)	24.8 ± 3.9	4.1		27.2 ± 5.9	5.5	9 46 satis.
Ra-226	(G)	15.3 ± 3.9	3.8		23.4 ± 4.4	4.7	42 51 satis.
Ac-228	(G)	40.1 ± 9.1	8.7		48.0 ± 11	14	18 53 satis.
Th-228	(G)	U	8.7		U	14	- 0 satis.
Th-230	(G)	U	140		U	640	- 0 satis.
Th-232	(G)	40.2 ± 9.1	8.0		47.8 ± 11	9.7	17 53 satis.
Th-234	(G)	U	0.96		U	2.0	- 0 satis.
U-238	(G)	U	210		U	340	- 0 satis.
U-235	(G)	U	6.0		U	11	- 0 satis.
Am-241	(G)	U	2.4		U	18	- 0 satis.
U-234	(G)	U	300		U	550	- 0 satis.
H-3		-15.7 ± 110	190		15.4 ± 110	190	- 0 satis.
Ra-226		12.0 ± 1.2	0.69		14.0 ± 1.3	0.60	15 30 satis.
Sr-90		2.13 ± 0.50	0.54		2.79 ± 0.44	0.46	27 46 satis.

SPIKED SAMPLE				ORIGINAL SAMPLE				
Sample ID	Nuclide	Results + 2σ	MDA	Sample ID	Results + 2σ	MDA	Added	%Recv
8669-005	Gross Beta	3580 ± 160	90	8669-001	426 ± 95	140	2920	108
	H-3	7360 ± 250	190		15.4 ± 110	190	8160	90

Certified by

Report Date 10/26/07

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TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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NPDES-155

Client: TestAmerica Analytical
 17461 Dehan Avenue, Suite 100
 Irvine, CA 92614-5817

REPORT

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ICI2057
P.O. Number: ICI2057
Method Number: 8315 (Modified)
Investigation: Hydrazines

Laboratory No: 969803
Report Date: October 8, 2007
Sampling Date: September 22, 2007
Receiving Date: September 24, 2007
Extraction Date: September 24, 2007
Analysis Date: September 25, 2007
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
706928-MB	Method Blank	100	1	ND	ND	ND	None
969803	ICI2057-01	100	1	ND	ND	ND	None
MDL				0.56	0.32	0.15	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

Note: Results based on detector #1 (UV=365nm) data.

Xuan Dang, Project Manager
 Analytical Services, Truesdail Laboratories, Inc.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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Client: TestAmerica Analytical
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614-5817

Client Contact: Joseph Doak
 Sample: Water / 1 Sample
 Project Name: IQI2057
 P.O. Number: IQI2057
 Method Number: 8315 (Modified)
 Investigation: Hydrazines
 Run Batch No.: Extraction: 4105; Analysis: 575

QC Lab. No.: 706928
 Project Lab. No.: 969803
 Spiked Sample ID: 969803

Report Date: October 8, 2007
 Sampling Date: September 22, 2007
 Receiving Date: September 24, 2007
 Extraction Date: September 24, 2007
 Analysis Date: September 25, 2007
 Reported By: JS

Quality Control/Quality Assurance Calibration Report

ICV

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	25.0	24.5	98.1	85-115	PASS
U-Dimethyl Hydrazine	25.0	23.9	95.6	85-115	PASS
Hydrazine	5.0	4.82	96.4	85-115	PASS

QCS

Parameter	Theoretical Value (ug/L)	Measured Value (ug/L)	Percent Recovery	Control Limits	Flag
Monomethyl Hydrazine	50.0	44.8	89.6	85-115	PASS
U-Dimethyl Hydrazine	50.0	43.9	87.8	85-115	PASS
Hydrazine	10.0	10.2	102	85-115	PASS

Quality Control/Quality Assurance Spikes Report

LCS/LCSD

Parameter	Spiked Conc. ug/L	Recovered Concentration			Percent Recovery (%)	LCS/LCSD	RPD	Flag	Control Limits	Accuracy %D
		LCS	LCSD	MB						
Monomethyl Hydrazine	50.0	50.9	48.5	0.0	102	97.1	4.83%	PASS	20	76-118
U-Dimethyl Hydrazine	50.0	49.9	46.2	0.0	100	92.4	7.78%	PASS	20	81-120
Hydrazine	10.0	10.5	10.6	0.0	105	106	0.40%	PASS	20	82-118

MS/MSD

Parameter	Recovered Concentration MS	MSD Sample	Percent Recovery (%)	MS/MSD	RPD	Flag	Accuracy %D
Monomethyl Hydrazine	2.87	3.00	0.00	5.74	6.00	4.48%	Fail*
U-Dimethyl Hydrazine	10.1	11.0	0.00	20.3	21.9	7.80%	Fail*
Hydrazine	0.55	0.54	0.00	5.52	5.36	3.02%	Fail*

* Matrix Spike recoveries are low due to matrix interference (sample contained sediment).

Note: Results based on detector #1 (UV=365nm) data.

Xuesi-Bang, Project Manager
 Analytical Services, Truesdail Laboratories, Inc.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior authorization from Truesdail Laboratories.

969803

SENDING LABORATORY:

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

RECEIVING LABORATORY:

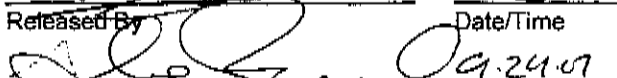
Truesdail Laboratories-SUB
14201 Franklin Avenue
Tustin, CA 92680
Phone: (714) 730-6239
Fax: (714) 730-6462
Project Location: California
Receipt Temperature: °C

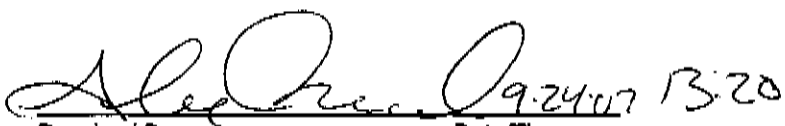
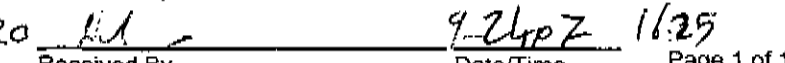
Rec'd 09/24/07
s2d 969803

Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2057-01	Water		Sampled: 09/22/07 11:10	
Hydrazine-OUT	%	10/01/07	09/25/07 11:10	Sub Truesdail for Monomethylhydrazine, J flags
Containers Supplied:				
1 L Amber (AR)	1 L Amber (AS)			

For Sample Conditions
See Form Attached

Released By  Date/Time 09-24-07 16:20

Received By  Date/Time 09-24-07 13:20
Received By  Date/Time 9-24-07 11:25



Sample Integrity & Analysis Discrepancy Form

Client: Test America

Lab # 969803

Date Delivered: 9/24/07 Time: 16:25 By: Mail Field Service Client

1. Was a Chain of Custody received and signed? Yes No N/A
2. Does Customer require an acknowledgement of the COC? Yes No N/A
3. Are there any special requirements or notes on the COC? Yes No N/A
4. If a letter was sent with the COC, does it match the COC? Yes No N/A
5. Were all requested analyses understood and acceptable? Yes No N/A
6. Were samples received in a chilled condition? Yes No N/A
Temperature (if yes)? 4°C
7. Were samples received intact (i.e. broken bottles, leaks, air bubbles, etc.)? Yes No N/A
8. Were sample custody seals intact? Yes No N/A
9. Does the number of samples received agree with COC? Yes No N/A
10. Did sample labels correspond with the client ID's? Yes No N/A
11. Did sample labels indicate proper preservation? Yes No N/A
Preserved by: Truesdail Lab Client
12. Were samples pH checked? pH = _____ Yes No N/A
13. Were all analyses within holding time at time of receipt? Yes No N/A
If not, notify the Project Manager.
14. Have Project due dates been checked and accepted? Yes No N/A
Turn Around Time (TAT): RUSH Std
15. Sample Matrix: Liquid Drinking Water Ground Water Waste Water
 Sludge Soil Wipe Paint Solid Other water
16. Comments: _____
17. Sample Check In completed by Truesdail Log-In/Receiving: _____ Mary

October 09, 2007

Vista Project I.D.: 29588

Mr. Nicholas Marz
TestAmerica
17461 Derian Ave.
Suite 100
Irvine, CA 92614


Dear Mr. Marz,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on September 25, 2007 under your Project Name "IQI2057". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A rush turnaround time was provided for this work.

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

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

Sincerely,



Martha M. Maier
Laboratory Director



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



Section I: Sample Inventory Report

Date Received: 9/25/2007

Vista Lab. ID

Client Sample ID

29588-001

IQI2057-01

SECTION II

Method Blank					EPA Method 1613				
Matrix:	Aqueous	QC Batch No.:	9458	Lab Sample:	0-MB001	Date Analyzed DB-5:	8-Oct-07	Date Analyzed DB-225:	NA
Sample Size:	1.00 L	Date Extracted:	7-Oct-07						
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers	
2,3,7,8-TCDD	ND	0.00000113			IS 13C-2,3,7,8-TCDD	75.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.00000137			13C-1,2,3,7,8-PeCDD	87.8	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.00000400			13C-1,2,3,4,7,8-HxCDD	74.2	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.00000190			13C-1,2,3,6,7,8-HxCDD	72.2	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.00000182			13C-1,2,3,4,6,7,8-HpCDD	75.7	23 - 140		
1,2,3,4,6,7,8-HpCDD	ND	0.00000442			13C-OCDD	61.4	17 - 157		
OCDD	ND	0.00000764			13C-2,3,7,8-TCDF	76.7	24 - 169		
2,3,7,8-TCDF	ND	0.00000138			13C-1,2,3,7,8-PeCDF	87.7	24 - 185		
1,2,3,7,8-PeCDF	ND	0.00000158			13C-2,3,4,7,8-PeCDF	89.9	21 - 178		
2,3,4,7,8-PeCDF	ND	0.00000154			13C-1,2,3,4,7,8-HxCDF	70.4	26 - 152		
1,2,3,4,7,8-HxCDF	ND	0.00000221			13C-1,2,3,6,7,8-HxCDF	69.3	26 - 123		
1,2,3,6,7,8-HxCDF	ND	0.00000217			13C-2,3,4,6,7,8-HxCDF	68.3	28 - 136		
2,3,4,6,7,8-HxCDF	ND	0.00000240			13C-1,2,3,7,8,9-HxCDF	67.8	29 - 147		
1,2,3,7,8,9-HxCDF	ND	0.00000329			13C-1,2,3,4,6,7,8-HpCDF	67.4	28 - 143		
1,2,3,4,6,7,8-HpCDF	ND	0.00000503			13C-1,2,3,4,7,8,9-HpCDF	74.1	26 - 138		
1,2,3,4,7,8,9-HpCDF	ND	0.00000523			13C-OCDF	61.0	17 - 157		
OCDF	ND	0.00000493			CRS 37Cl-2,3,7,8-TCDD	83.9	35 - 197		
Totals					Footnotes				
Total TCDD	ND	0.00000113			a. Sample specific estimated detection limit.				
Total PeCDD	ND	0.00000137			b. Estimated maximum possible concentration.				
Total HxCDD	ND	0.00000257			c. Method detection limit.				
Total HpCDD	ND	0.00000442			d. Lower control limit - upper control limit.				
Total TCDF	ND	0.00000138							
Total PeCDF	ND	0.00000156							
Total HxCDF	ND	0.00000252							
Total HpCDF	ND	0.00000513							

Analyst: JMH

Approved By: William J. Luksemburg 09-Oct-2007 13:15

OPR Results				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	9458	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	7-Oct-07	Date Analyzed DB-5:	8-Oct-07	Date Analyzed DB-225:	NA
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	9.94	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	71.6	25 - 164	
1,2,3,7,8-PeCDD	50.0	51.7	35 - 71	13C-1,2,3,7,8-PeCDD	84.0	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	50.7	35 - 82	13C-1,2,3,4,7,8-HxCDD	71.2	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	50.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	67.7	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	49.1	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	72.0	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	50.9	35 - 70	13C-OCDD	63.6	17 - 157	
OCDD	100	102	78 - 144	13C-2,3,7,8-TCDF	70.5	24 - 169	
2,3,7,8-TCDF	10.0	9.77	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	82.0	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.2	40 - 67	13C-2,3,4,7,8-PeCDF	85.4	21 - 178	
2,3,4,7,8-PeCDF	50.0	49.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	68.4	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.4	36 - 67	13C-1,2,3,6,7,8-HxCDF	62.1	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	53.3	42 - 65	13C-2,3,4,6,7,8-HxCDF	66.7	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	51.7	35 - 78	13C-1,2,3,7,8,9-HxCDF	65.2	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	51.0	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	69.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	51.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	70.5	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	51.7	39 - 69	13C-OCDF	58.2	17 - 157	
OCDF	100	100	63 - 170	CRS 37Cl-2,3,7,8-TCDD	89.7	35 - 197	

Analyst: JMH

Approved By: William J. Luksemburg 09-Oct-2007 13:15

Sample ID: IQI2057-01					EPA Method 1613			
Client Data		Sample Data		Laboratory Data				
Name:	TestAmerica	Matrix:	Aqueous	Lab Sample:	29588-001	Date Received:	25-Sep-07	
Project:	IQI2057	Sample Size:	1.05 L	QC Batch No.:	9458	Date Extracted:	7-Oct-07	
Date Collected:	22-Sep-07			Date Analyzed DB-5:	8-Oct-07	Dates Analyzed DB-225:	9-Oct-07	
Time Collected:	1110							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	0.00000512				IS 13C-2,3,7,8-TCDD	82.5	25 - 164	
1,2,3,7,8-PeCDD	0.0000219			J	13C-1,2,3,7,8-PeCDD	93.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.0000238			J	13C-1,2,3,4,7,8-HxCDD	81.6	32 - 141	
1,2,3,6,7,8-HxCDD	0.0000477				13C-1,2,3,6,7,8-HxCDD	76.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.0000433				13C-1,2,3,4,6,7,8-HpCDD	93.3	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.000597				13C-OCDD	82.0	17 - 157	
OCDD	0.00484				13C-2,3,7,8-TCDF	82.7	24 - 169	
2,3,7,8-TCDF	0.0000358				13C-1,2,3,7,8-PeCDF	99.7	24 - 185	
1,2,3,7,8-PeCDF	0.0000170			J	13C-2,3,4,7,8-PeCDF	99.6	21 - 178	
2,3,4,7,8-PeCDF	0.0000337				13C-1,2,3,4,7,8-HxCDF	79.0	26 - 152	
1,2,3,4,7,8-HxCDF	0.0000215			J	13C-1,2,3,6,7,8-HxCDF	74.5	26 - 123	
1,2,3,6,7,8-HxCDF	0.0000197			J	13C-2,3,4,6,7,8-HxCDF	73.8	28 - 136	
2,3,4,6,7,8-HxCDF	0.0000225			J	13C-1,2,3,7,8,9-HxCDF	77.1	29 - 147	
1,2,3,7,8,9-HxCDF	0.00000670			J	13C-1,2,3,4,6,7,8-HpCDF	77.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	0.000137				13C-1,2,3,4,7,8,9-HpCDF	87.5	26 - 138	
1,2,3,4,7,8,9-HpCDF	0.0000110			J	13C-OCDF	80.2	17 - 157	
OCDF	0.000331				CRS 37Cl-2,3,7,8-TCDD	83.7	35 - 197	
Totals					Footnotes			
Total TCDD	0.000184		0.000186		a. Sample specific estimated detection limit.			
Total PeCDD	0.000250				b. Estimated maximum possible concentration.			
Total HxCDD	0.000641				c. Method detection limit.			
Total HpCDD	0.00133				d. Lower control limit - upper control limit.			
Total TCDF	0.000488							
Total PeCDF	0.000486							
Total HxCDF	0.000308							
Total HpCDF	0.000321							

Analyst: JMH

Approved By: William J. Luksemburg 09-Oct-2007 13:15

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-02
State of Arizona	AZ0639
State of Arkansas, DEQ	05-013-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	
State of Connecticut	PH-0182
State of Florida, DEP	E87777
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA050001
State of Louisiana, DEQ	01977
State of Maine	CA0413
State of Michigan	81178087
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	
State of Nevada	CA413
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-002
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	02996
State of Texas	TX247-2005A
U.S. Army Corps of Engineers	
State of Utah	9169330940
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQI2057

29588

SENDING LABORATORY:

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


RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 673-1520
Fax: (916) 673-0106
Project Location: California
Receipt Temperature: 2.6 °C

29587 SUB
2.6 °C 9/25/07

Ice: (Y) N

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2057-01	Water		Sampled: 09/22/07 11:10	
1613-Dioxin-HR-Alta	ug/l	10/01/07	09/29/07 11:10	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
<i>Containers Supplied:</i>				
1 L Amber (J)	1 L Amber (K)			


9-24-07/17:00
Bethm R. Benedict
9/25/07/15:7

Released By _____ Date/Time _____ Received By _____ Date/Time _____
 Released By _____ Date/Time _____ Received By _____ Date/Time _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 29588
29587 BSB 9/25/09 TAT Unspecified

Samples Arrival:	Date/Time 9/25/07 0830	Initials: BSB	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 9/25/07 1211	Initials: BSB	Location: WR-2
			Shelf/Rack: B-4
Delivered By:	<u>FedEx</u>	UPS	Cal
		DHL	Hand Delivered
			Other
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
			None
Temp °C	2.6°C	Time: 0854	Thermometer ID: IR-1

	YES	NO	NA
Adequate Sample Volume Received?	✓		
Holding Time Acceptable?	✓		
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?			✓
Shipping Documentation Present?	✓		
Airbill	Trk # 7982 7102 0167	✓	
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Chain of Custody / Sample Documentation Present?	✓		
COC Anomaly/Sample Acceptance Form completed?		✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓
Na ₂ S ₂ O ₃ Preservation Documented?	COC	Sample Container	<u>None</u>
Shipping Container	Vista	<u>Client</u>	Retain
		<u>Return</u>	Dispose

Comments:

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQI2057

7092407

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2057-01 Water Sampled: 09/22/07 11:10				
Level 4 + EDD-OUT	N/A	10/01/07	10/20/07 11:10	**LEVEL IV QC, ACCESS 7 EDD**
Mercury - 245.1, Diss -OUT	mg/l	10/01/07	10/20/07 11:10	
Mercury - 245.1-OUT	mg/l	10/01/07	10/20/07 11:10	
<i>Containers Supplied:</i>				
125 mL Poly w/HNO3 (BC)	125 mL Poly w/HNO3 (BD)			

Released By _____ Date/Time 9/24/07 900

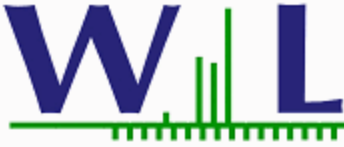
Received By _____ Date/Time 9/24/07 900

Released By _____ Date/Time _____

Received By _____ Date/Time _____

705

2.5



CERTIFICATE OF ANALYSIS

Client: TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine, CA 92614
Attention: Nicholas Marz

Report Date: 09/28/07 15:37
Received Date: 09/24/07 09:00
Turn Around: 1 day

Phone: (949) 261-1022
Fax: (949) 260-3297

Work Order #: 7092407
Client Project: IQI2057

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Nicholas Marz :

Enclosed are the results of analyses for samples received 09/24/07 09:00 with the Chain of Custody document. The samples were received in good condition. The samples were received at 2.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager



Page 1 of 6





Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 7092407
Project ID: IQI2057

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQI2057-01	Client		7092407-01	Water	09/22/07 11:10



Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 7092407
Project ID: IQI2057

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:37

IQI2057-01 7092407-01 (Water)

Date Sampled: 09/22/07 11:10

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved	0.029	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlj
Mercury, Total	0.042	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlj



Weck Laboratories, Inc.
14859 E. Clark Ave.
Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 7092407
Project ID: IQI2057

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:37

QUALITY CONTROL SECTION



Weck Laboratories, Inc.
 14859 E. Clark Ave.
 Industry, CA 91745
 Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
 17461 Derian Ave, Suite 100
 Irvine CA, 92614

Report ID: 7092407
 Project ID: IQI2057

Date Received: 09/24/07 09:00
 Date Reported: 09/28/07 15:37

Metals by EPA 200 Series Methods - Quality Control

%REC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch W711160 - EPA 245.1

Blank (W711160-BLK1)

Analyzed: 09/27/07

Mercury, Total	ND	0.10	ug/l							
Mercury, Dissolved	ND	0.10	ug/l							

LCS (W711160-BS1)

Analyzed: 09/27/07

Mercury, Total	1.05	0.10	ug/l	1.00		105	85-115			
Mercury, Dissolved	1.05	0.10	ug/l	1.00		105	85-115			

Matrix Spike (W711160-MS1)

Source: 7092457-10

Analyzed: 09/27/07

Mercury, Total	1.07	0.10	ug/l	1.00	ND	107	70-130			
Mercury, Dissolved	1.07	0.10	ug/l	1.00	ND	107	70-130			

Matrix Spike (W711160-MS2)

Source: 7092457-11

Analyzed: 09/27/07

Mercury, Total	1.04	0.10	ug/l	1.00	ND	104	70-130			
Mercury, Dissolved	1.04	0.10	ug/l	1.00	ND	104	70-130			

Matrix Spike Dup (W711160-MSD1)

Source: 7092457-10

Analyzed: 09/27/07

Mercury, Total	1.05	0.10	ug/l	1.00	ND	105	70-130	2	20	
Mercury, Dissolved	1.05	0.10	ug/l	1.00	ND	105	70-130	2	20	

Matrix Spike Dup (W711160-MSD2)

Source: 7092457-11

Analyzed: 09/27/07

Mercury, Total	1.04	0.10	ug/l	1.00	ND	104	70-130	0	20	
Mercury, Dissolved	1.04	0.10	ug/l	1.00	ND	104	70-130	0	20	



Weck Laboratories, Inc.
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Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

TestAmerica, Inc. - Irvine
17461 Derian Ave, Suite 100
Irvine CA, 92614

Report ID: 7092407
Project ID: IQI2057

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:37

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.