

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

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: IQB2023-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Acenaphthylene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Aniline	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Anthracene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Benzidine	EPA 625	7B21110	8.4	20	ND	0.99	02/21/07	02/25/07	L
Benzoic acid	EPA 625	7B21110	8.4	20	ND	0.99	02/21/07	02/25/07	
Benzo(a)anthracene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Benzo(b)fluoranthene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Benzo(k)fluoranthene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Benzo(g,h,i)perylene	EPA 625	7B21110	3.0	9.9	ND	0.99	02/21/07	02/25/07	L
Benzo(a)pyrene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Benzyl alcohol	EPA 625	7B21110	2.5	20	ND	0.99	02/21/07	02/25/07	
Bis(2-chloroethoxy)methane	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Bis(2-chloroethyl)ether	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Bis(2-chloroisopropyl)ether	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7B21110	4.0	50	ND	0.99	02/21/07	02/25/07	
4-Bromophenyl phenyl ether	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Butyl benzyl phthalate	EPA 625	7B21110	4.0	20	ND	0.99	02/21/07	02/25/07	
4-Chloroaniline	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
2-Chloronaphthalene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
4-Chloro-3-methylphenol	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
2-Chlorophenol	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
4-Chlorophenyl phenyl ether	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Chrysene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Dibenz(a,h)anthracene	EPA 625	7B21110	3.0	20	ND	0.99	02/21/07	02/25/07	
Dibenzofuran	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Di-n-butyl phthalate	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
1,3-Dichlorobenzene	EPA 625	7B21110	3.0	9.9	ND	0.99	02/21/07	02/25/07	
1,4-Dichlorobenzene	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
1,2-Dichlorobenzene	EPA 625	7B21110	3.0	9.9	ND	0.99	02/21/07	02/25/07	
3,3-Dichlorobenzidine	EPA 625	7B21110	3.0	20	ND	0.99	02/21/07	02/25/07	
2,4-Dichlorophenol	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Diethyl phthalate	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
2,4-Dimethylphenol	EPA 625	7B21110	3.5	20	ND	0.99	02/21/07	02/25/07	
Dimethyl phthalate	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
4,6-Dinitro-2-methylphenol	EPA 625	7B21110	4.0	20	ND	0.99	02/21/07	02/25/07	
2,4-Dinitrophenol	EPA 625	7B21110	4.5	20	ND	0.99	02/21/07	02/25/07	
2,4-Dinitrotoluene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
2,6-Dinitrotoluene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Di-n-octyl phthalate	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
Fluoranthene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	

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 Project Manager

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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: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Hexachlorobenzene	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Hexachlorobutadiene	EPA 625	7B21110	3.5	9.9	ND	0.99	02/21/07	02/25/07	
Hexachlorocyclopentadiene	EPA 625	7B21110	5.0	20	ND	0.99	02/21/07	02/25/07	
Hexachloroethane	EPA 625	7B21110	3.0	9.9	ND	0.99	02/21/07	02/25/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7B21110	3.0	20	ND	0.99	02/21/07	02/25/07	
Isophorone	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
2-Methylnaphthalene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
2-Methylphenol	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
4-Methylphenol	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Naphthalene	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
2-Nitroaniline	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
3-Nitroaniline	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
4-Nitroaniline	EPA 625	7B21110	2.5	20	ND	0.99	02/21/07	02/25/07	
Nitrobenzene	EPA 625	7B21110	2.5	20	ND	0.99	02/21/07	02/25/07	
2-Nitrophenol	EPA 625	7B21110	3.5	9.9	ND	0.99	02/21/07	02/25/07	
4-Nitrophenol	EPA 625	7B21110	5.4	20	ND	0.99	02/21/07	02/25/07	
N-Nitrosodiphenylamine	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
N-Nitroso-di-n-propylamine	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
Pentachlorophenol	EPA 625	7B21110	3.5	20	ND	0.99	02/21/07	02/25/07	
Phenanthrene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Phenol	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
Pyrene	EPA 625	7B21110	2.0	9.9	ND	0.99	02/21/07	02/25/07	
1,2,4-Trichlorobenzene	EPA 625	7B21110	2.5	9.9	ND	0.99	02/21/07	02/25/07	
2,4,5-Trichlorophenol	EPA 625	7B21110	3.0	20	ND	0.99	02/21/07	02/25/07	
2,4,6-Trichlorophenol	EPA 625	7B21110	3.0	20	ND	0.99	02/21/07	02/25/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	7B21110	2.0	20	ND	0.99	02/21/07	02/25/07	
N-Nitrosodimethylamine	EPA 625	7B21110	2.5	20	ND	0.99	02/21/07	02/25/07	
Surrogate: 2-Fluorophenol (30-120%)					64 %				
Surrogate: Phenol-d6 (35-120%)					66 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					80 %				
Surrogate: Nitrobenzene-d5 (40-120%)					72 %				
Surrogate: 2-Fluorobiphenyl (45-120%)					78 %				
Surrogate: Terphenyl-d14 (45-120%)					85 %				

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	C-7
alpha-BHC	EPA 608	7B22132	0.020	0.098	ND	0.98	02/22/07	02/25/07	
beta-BHC	EPA 608	7B22132	0.039	0.098	ND	0.98	02/22/07	02/25/07	
delta-BHC	EPA 608	7B22132	0.020	0.20	ND	0.98	02/22/07	02/25/07	
gamma-BHC (Lindane)	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Chlordane	EPA 608	7B22132	0.20	0.98	ND	0.98	02/22/07	02/25/07	
4,4'-DDD	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
4,4'-DDE	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
4,4'-DDT	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	C-7
Dieldrin	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Endosulfan I	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Endosulfan II	EPA 608	7B22132	0.039	0.098	ND	0.98	02/22/07	02/25/07	
Endosulfan sulfate	EPA 608	7B22132	0.049	0.20	ND	0.98	02/22/07	02/25/07	
Endrin	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Endrin aldehyde	EPA 608	7B22132	0.049	0.098	ND	0.98	02/22/07	02/25/07	
Endrin ketone	EPA 608	7B22132	0.039	0.098	ND	0.98	02/22/07	02/25/07	
Heptachlor	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Heptachlor epoxide	EPA 608	7B22132	0.029	0.098	ND	0.98	02/22/07	02/25/07	
Methoxychlor	EPA 608	7B22132	0.039	0.098	ND	0.98	02/22/07	02/25/07	C-7
Toxaphene	EPA 608	7B22132	1.5	4.9	ND	0.98	02/22/07	02/25/07	
Surrogate: Tetrachloro-m-xylene (35-115%)					80 %				
Surrogate: Decachlorobiphenyl (45-120%)					75 %				

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TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7B22132	0.34	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1221	EPA 608	7B22132	0.098	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1232	EPA 608	7B22132	0.25	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1242	EPA 608	7B22132	0.25	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1248	EPA 608	7B22132	0.25	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1254	EPA 608	7B22132	0.25	0.98	ND	0.98	02/22/07	02/23/07	
Aroclor 1260	EPA 608	7B22132	0.29	0.98	ND	0.98	02/22/07	02/23/07	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					98 %				

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	7B21063	0.020	0.050	0.020	1	02/21/07	02/21/07	J, B
Iron	EPA 200.7	7B21063	0.015	0.040	0.86	1	02/21/07	02/21/07	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7	7B21063	40	50	870	1	02/21/07	02/21/07	
Antimony	EPA 200.8	7B21137	0.050	2.0	0.65	1	02/21/07	02/21/07	J
Arsenic	EPA 200.7	7B21063	7.0	10	10	1	02/21/07	02/21/07	
Beryllium	EPA 200.7	7B21063	0.90	2.0	ND	1	02/21/07	02/21/07	
Cadmium	EPA 200.8	7B21137	0.025	1.0	0.10	1	02/21/07	02/21/07	J, B
Chromium	EPA 200.7	7B21063	2.0	5.0	ND	1	02/21/07	02/21/07	
Copper	EPA 200.8	7B21137	0.25	2.0	3.5	1	02/21/07	02/21/07	
Lead	EPA 200.8	7B21137	0.040	1.0	1.0	1	02/21/07	02/21/07	
Nickel	EPA 200.7	7B21063	2.0	10	ND	1	02/21/07	02/21/07	
Selenium	EPA 200.7	7B21063	8.0	10	ND	1	02/21/07	02/21/07	
Silver	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	
Thallium	EPA 200.8	7B21137	0.15	1.0	ND	1	02/21/07	02/21/07	
Vanadium	EPA 200.7	7B21063	3.0	10	4.0	1	02/21/07	02/21/07	J
Zinc	EPA 200.7	7B21063	15	20	ND	1	02/21/07	02/21/07	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	7B22143	0.040	0.050	ND	1	02/22/07	02/23/07	
Arsenic	EPA 200.7-Diss	7B22143	0.0070	0.010	ND	1	02/22/07	02/23/07	
Beryllium	EPA 200.7-Diss	7B22143	0.00090	0.0020	ND	1	02/22/07	02/23/07	
Boron	EPA 200.7-Diss	7B22143	0.020	0.050	ND	1	02/22/07	02/23/07	
Chromium	EPA 200.7-Diss	7B22143	0.0020	0.0050	ND	1	02/22/07	02/23/07	
Iron	EPA 200.7-Diss	7B22143	0.015	0.040	ND	1	02/22/07	02/23/07	
Nickel	EPA 200.7-Diss	7B22143	0.0020	0.010	ND	1	02/22/07	02/23/07	
Selenium	EPA 200.7-Diss	7B22143	0.0080	0.010	ND	1	02/22/07	02/23/07	
Hardness (as CaCO3)	SM2340B	7B22143	1.0	1.0	180	1	02/22/07	02/23/07	
Silver	EPA 200.7-Diss	7B22143	0.0060	0.010	ND	1	02/22/07	02/23/07	
Vanadium	EPA 200.7-Diss	7B22143	0.0030	0.010	ND	1	02/22/07	02/23/07	
Zinc	EPA 200.7-Diss	7B22143	0.0040	0.020	ND	1	02/22/07	02/23/07	

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DISSOLVED METALS

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Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7B23073	0.050	2.0	0.72	1	02/23/07	02/23/07	J
Cadmium	EPA 200.8-Diss	7B23073	0.050	1.0	ND	1	02/23/07	02/23/07	
Copper	EPA 200.8-Diss	7B23073	0.40	2.0	0.52	1	02/23/07	02/23/07	J
Lead	EPA 200.8-Diss	7B23073	0.10	1.0	ND	1	02/23/07	02/23/07	
Thallium	EPA 200.8-Diss	7B23073	0.15	1.0	ND	1	02/23/07	02/23/07	

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INORGANICS

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Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B20044	1.5	5.0	130	10	02/20/07	02/20/07	
Fluoride	EPA 300.0	7B20044	0.15	0.50	0.46	1	02/20/07	02/20/07	J
Hardness (as CaCO ₃)	SM2340B	7B21063	1.0	1.0	210	1	02/21/07	02/21/07	
Nitrate/Nitrite-N	EPA 300.0	7B20044	0.080	0.15	0.45	1	02/20/07	02/20/07	
Oil & Grease	EPA 413.1	7B28085	0.92	4.9	ND	1	02/28/07	02/28/07	
Sulfate	EPA 300.0	7B20044	0.45	0.50	23	1	02/20/07	02/20/07	
Total Dissolved Solids	SM2540C	7B23078	10	10	550	1	02/23/07	02/23/07	
Total Suspended Solids	EPA 160.2	7B21150	10	10	16	1	02/21/07	02/22/07	

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Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2023-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7B23104	2.2	5.0	ND	1	02/23/07	02/23/07	
Perchlorate	EPA 314.0	7B27143	0.80	4.0	ND	1	02/27/07	02/28/07	

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IQB2023-01) - Water					
EPA 300.0	2	02/19/2007 11:15	02/19/2007 18:55	02/20/2007 15:00	02/20/2007 15:45
EPA 624	3	02/19/2007 11:15	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 13:42
Sample ID: Trip Blank (IQB2023-02) - Water					
EPA 624	3	02/19/2007 11:15	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 10:38

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21011-BLK1)											
Benzene	ND	1.0	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							
Carbon tetrachloride	ND	0.50	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	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	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	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	1.5	ug/l							
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89	80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
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Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
LCS Analyzed: 02/21/2007 (7B21011-BS1)											
Benzene	24.4	1.0	0.28	ug/l	25.0		98	70-120			
Bromodichloromethane	24.9	2.0	0.30	ug/l	25.0		100	70-135			
Bromoform	22.8	5.0	0.40	ug/l	25.0		91	55-130			
Bromomethane	25.5	5.0	0.42	ug/l	25.0		102	65-140			
Carbon tetrachloride	23.3	0.50	0.28	ug/l	25.0		93	65-140			
Chlorobenzene	24.8	2.0	0.36	ug/l	25.0		99	75-120			
Chloroethane	21.6	5.0	0.40	ug/l	25.0		86	60-140			
Chloroform	23.5	2.0	0.33	ug/l	25.0		94	70-130			
Chloromethane	30.5	5.0	0.40	ug/l	25.0		122	50-140			
Dibromochloromethane	26.8	2.0	0.28	ug/l	25.0		107	70-140			
1,2-Dichlorobenzene	25.3	2.0	0.32	ug/l	25.0		101	75-120			
1,3-Dichlorobenzene	25.3	2.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	24.8	2.0	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	23.5	2.0	0.27	ug/l	25.0		94	70-125			
1,2-Dichloroethane	25.0	0.50	0.28	ug/l	25.0		100	60-140			
1,1-Dichloroethene	23.3	5.0	0.42	ug/l	25.0		93	70-125			
trans-1,2-Dichloroethene	24.4	2.0	0.27	ug/l	25.0		98	70-125			
1,2-Dichloropropane	25.6	2.0	0.35	ug/l	25.0		102	70-125			
cis-1,3-Dichloropropene	24.1	2.0	0.22	ug/l	25.0		96	75-125			
trans-1,3-Dichloropropene	24.7	2.0	0.32	ug/l	25.0		99	70-125			
Ethylbenzene	25.8	2.0	0.25	ug/l	25.0		103	75-125			
Methylene chloride	21.4	5.0	0.95	ug/l	25.0		86	55-130			
1,1,2,2-Tetrachloroethane	27.4	2.0	0.24	ug/l	25.0		110	55-130			
Tetrachloroethene	22.4	2.0	0.32	ug/l	25.0		90	70-125			
Toluene	25.4	2.0	0.36	ug/l	25.0		102	70-120			
1,1,1-Trichloroethane	23.1	2.0	0.30	ug/l	25.0		92	65-135			
1,1,2-Trichloroethane	26.5	2.0	0.30	ug/l	25.0		106	70-125			
Trichloroethene	24.6	2.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	23.0	5.0	0.34	ug/l	25.0		92	65-145			
Vinyl chloride	26.6	0.50	0.30	ug/l	25.0		106	55-135			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107	80-120			

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006
 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1)						Source: IQB2021-01					
Benzene	33.0	1.0	0.28	ug/l	25.0	ND	132	65-125			MI
Bromodichloromethane	34.1	2.0	0.30	ug/l	25.0	ND	136	70-135			MI
Bromoform	28.1	5.0	0.40	ug/l	25.0	ND	112	55-135			
Bromomethane	38.2	5.0	0.42	ug/l	25.0	ND	153	55-145			MI
Carbon tetrachloride	34.0	0.50	0.28	ug/l	25.0	ND	136	65-140			
Chlorobenzene	33.2	2.0	0.36	ug/l	25.0	ND	133	75-125			MI
Chloroethane	32.6	5.0	0.40	ug/l	25.0	ND	130	55-140			
Chloroform	33.4	2.0	0.33	ug/l	25.0	ND	134	65-135			
Chloromethane	43.7	5.0	0.40	ug/l	25.0	ND	175	45-145			MI
Dibromochloromethane	35.3	2.0	0.28	ug/l	25.0	ND	141	65-140			MI
1,2-Dichlorobenzene	32.8	2.0	0.32	ug/l	25.0	ND	131	75-125			MI
1,3-Dichlorobenzene	33.2	2.0	0.35	ug/l	25.0	ND	133	75-125			MI
1,4-Dichlorobenzene	32.2	2.0	0.37	ug/l	25.0	ND	129	75-125			MI
1,1-Dichloroethane	33.3	2.0	0.27	ug/l	25.0	ND	133	65-130			MI
1,2-Dichloroethane	32.9	0.50	0.28	ug/l	25.0	ND	132	60-140			
1,1-Dichloroethene	31.0	5.0	0.42	ug/l	25.0	ND	124	60-130			
trans-1,2-Dichloroethene	33.8	2.0	0.27	ug/l	25.0	ND	135	65-130			MI
1,2-Dichloropropane	34.0	2.0	0.35	ug/l	25.0	ND	136	65-130			MI
cis-1,3-Dichloropropene	31.4	2.0	0.22	ug/l	25.0	ND	126	70-130			
trans-1,3-Dichloropropene	31.2	2.0	0.32	ug/l	25.0	ND	125	65-135			
Ethylbenzene	34.9	2.0	0.25	ug/l	25.0	ND	140	65-130			MI
Methylene chloride	30.2	5.0	0.95	ug/l	25.0	ND	121	50-135			
1,1,2,2-Tetrachloroethane	31.6	2.0	0.24	ug/l	25.0	ND	126	55-135			
Tetrachloroethene	30.2	2.0	0.32	ug/l	25.0	ND	121	65-130			
Toluene	34.1	2.0	0.36	ug/l	25.0	ND	136	70-125			MI
1,1,1-Trichloroethane	33.9	2.0	0.30	ug/l	25.0	ND	136	65-140			
1,1,2-Trichloroethane	32.8	2.0	0.30	ug/l	25.0	ND	131	65-130			MI
Trichloroethene	33.6	2.0	0.26	ug/l	25.0	ND	134	65-125			MI
Trichlorofluoromethane	34.6	5.0	0.34	ug/l	25.0	ND	138	60-145			
Vinyl chloride	40.4	0.50	0.30	ug/l	25.0	ND	162	45-140			MI
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1)						Source: IQB2021-01					
Benzene	28.9	1.0	0.28	ug/l	25.0	ND	116	65-125	13	20	
Bromodichloromethane	29.9	2.0	0.30	ug/l	25.0	ND	120	70-135	13	20	
Bromoform	25.6	5.0	0.40	ug/l	25.0	ND	102	55-135	9	25	
Bromomethane	33.5	5.0	0.42	ug/l	25.0	ND	134	55-145	13	25	
Carbon tetrachloride	29.7	0.50	0.28	ug/l	25.0	ND	119	65-140	14	25	
Chlorobenzene	29.5	2.0	0.36	ug/l	25.0	ND	118	75-125	12	20	
Chloroethane	28.8	5.0	0.40	ug/l	25.0	ND	115	55-140	12	25	
Chloroform	29.4	2.0	0.33	ug/l	25.0	ND	118	65-135	13	20	
Chloromethane	39.2	5.0	0.40	ug/l	25.0	ND	157	45-145	11	25	MI
Dibromochloromethane	31.8	2.0	0.28	ug/l	25.0	ND	127	65-140	10	25	
1,2-Dichlorobenzene	30.5	2.0	0.32	ug/l	25.0	ND	122	75-125	7	20	
1,3-Dichlorobenzene	30.1	2.0	0.35	ug/l	25.0	ND	120	75-125	10	20	
1,4-Dichlorobenzene	29.4	2.0	0.37	ug/l	25.0	ND	118	75-125	9	20	
1,1-Dichloroethane	29.5	2.0	0.27	ug/l	25.0	ND	118	65-130	12	20	
1,2-Dichloroethane	29.3	0.50	0.28	ug/l	25.0	ND	117	60-140	12	20	
1,1-Dichloroethene	28.0	5.0	0.42	ug/l	25.0	ND	112	60-130	10	20	
trans-1,2-Dichloroethene	29.8	2.0	0.27	ug/l	25.0	ND	119	65-130	13	20	
1,2-Dichloropropane	30.2	2.0	0.35	ug/l	25.0	ND	121	65-130	12	20	
cis-1,3-Dichloropropene	27.7	2.0	0.22	ug/l	25.0	ND	111	70-130	13	20	
trans-1,3-Dichloropropene	27.8	2.0	0.32	ug/l	25.0	ND	111	65-135	12	25	
Ethylbenzene	30.7	2.0	0.25	ug/l	25.0	ND	123	65-130	13	20	
Methylene chloride	26.6	5.0	0.95	ug/l	25.0	ND	106	50-135	13	20	
1,1,2,2-Tetrachloroethane	30.7	2.0	0.24	ug/l	25.0	ND	123	55-135	3	30	
Tetrachloroethene	26.6	2.0	0.32	ug/l	25.0	ND	106	65-130	13	20	
Toluene	29.8	2.0	0.36	ug/l	25.0	ND	119	70-125	13	20	
1,1,1-Trichloroethane	30.0	2.0	0.30	ug/l	25.0	ND	120	65-140	12	20	
1,1,2-Trichloroethane	29.4	2.0	0.30	ug/l	25.0	ND	118	65-130	11	25	
Trichloroethene	29.1	2.0	0.26	ug/l	25.0	ND	116	65-125	14	20	
Trichlorofluoromethane	30.4	5.0	0.34	ug/l	25.0	ND	122	60-145	13	25	
Vinyl chloride	35.3	0.50	0.30	ug/l	25.0	ND	141	45-140	13	30	MI
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.1			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			

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Project ID: Annual Outfall 006
 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21011-BLK1)											
Acrolein	ND	50	4.6	ug/l							
Acrylonitrile	ND	50	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89	80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97	80-120			
LCS Analyzed: 02/21/2007 (7B21011-BS1)											
2-Chloroethyl vinyl ether	24.0	5.0	1.8	ug/l	25.0		96	25-170			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107	80-120			
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1) Source: IQB2021-01											
2-Chloroethyl vinyl ether	27.2	5.0	1.8	ug/l	25.0	ND	109	25-170			
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108	80-120			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1) Source: IQB2021-01											
2-Chloroethyl vinyl ether	24.8	5.0	1.8	ug/l	25.0	ND	99	25-170	9	25	
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.1			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			

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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
Batch: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Acenaphthene	ND	10	2.0	ug/l							
Acenaphthylene	ND	10	2.0	ug/l							
Aniline	ND	10	2.5	ug/l							
Anthracene	ND	10	2.0	ug/l							
Benzidine	ND	20	8.5	ug/l							
Benzoic acid	ND	20	8.5	ug/l							
Benzo(a)anthracene	ND	10	2.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.0	ug/l							
Benzo(g,h,i)perylene	ND	10	3.0	ug/l							
Benzo(a)pyrene	ND	10	2.0	ug/l							
Benzyl alcohol	ND	20	2.5	ug/l							
Bis(2-chloroethoxy)methane	ND	10	2.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	2.5	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
4-Bromophenyl phenyl ether	ND	10	2.5	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
2-Chloronaphthalene	ND	10	2.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.0	ug/l							
2-Chlorophenol	ND	10	2.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.0	ug/l							
Chrysene	ND	10	2.0	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	2.0	ug/l							
Di-n-butyl phthalate	ND	20	2.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
3,3-Dichlorobenzidine	ND	20	3.0	ug/l							
2,4-Dichlorophenol	ND	10	2.0	ug/l							
Diethyl phthalate	ND	10	2.0	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.0	ug/l							

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006
 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l							
2,4-Dinitrophenol	ND	20	4.5	ug/l							
2,4-Dinitrotoluene	ND	10	2.0	ug/l							
2,6-Dinitrotoluene	ND	10	2.0	ug/l							
Di-n-octyl phthalate	ND	20	2.0	ug/l							
Fluoranthene	ND	10	2.0	ug/l							
Fluorene	ND	10	2.0	ug/l							
Hexachlorobenzene	ND	10	2.5	ug/l							
Hexachlorobutadiene	ND	10	3.5	ug/l							
Hexachlorocyclopentadiene	ND	20	5.0	ug/l							
Hexachloroethane	ND	10	3.0	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	3.0	ug/l							
Isophorone	ND	10	2.0	ug/l							
2-Methylnaphthalene	ND	10	2.0	ug/l							
2-Methylphenol	ND	10	2.0	ug/l							
4-Methylphenol	ND	10	2.0	ug/l							
Naphthalene	ND	10	2.5	ug/l							
2-Nitroaniline	ND	20	2.0	ug/l							
3-Nitroaniline	ND	20	2.0	ug/l							
4-Nitroaniline	ND	20	2.5	ug/l							
Nitrobenzene	ND	20	2.5	ug/l							
2-Nitrophenol	ND	10	3.5	ug/l							
4-Nitrophenol	ND	20	5.5	ug/l							
N-Nitrosodiphenylamine	ND	10	2.0	ug/l							
N-Nitroso-di-n-propylamine	ND	10	2.5	ug/l							
Pentachlorophenol	ND	20	3.5	ug/l							
Phenanthrene	ND	10	2.0	ug/l							
Phenol	ND	10	2.0	ug/l							
Pyrene	ND	10	2.0	ug/l							
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l							
2,4,5-Trichlorophenol	ND	20	3.0	ug/l							
2,4,6-Trichlorophenol	ND	20	3.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.0	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2-Fluorophenol	148			ug/l	200		74			30-120	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Surrogate: Phenol-d6	156			ug/l	200		78	35-120			
Surrogate: 2,4,6-Tribromophenol	202			ug/l	200		101	40-120			
Surrogate: Nitrobenzene-d5	83.6			ug/l	100		84	40-120			
Surrogate: 2-Fluorobiphenyl	85.9			ug/l	100		86	45-120			
Surrogate: Terphenyl-d14	97.3			ug/l	100		97	45-120			
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
Acenaphthene	80.7	10	2.0	ug/l	100		81	55-120			MNRI
Acenaphthylene	87.1	10	2.0	ug/l	100		87	60-120			
Aniline	73.3	10	2.5	ug/l	100		73	40-120			
Anthracene	86.7	10	2.0	ug/l	100		87	60-120			
Benzidine	153	20	8.5	ug/l	100		153	25-160			
Benzoic acid	72.2	20	8.5	ug/l	100		72	25-120			
Benzo(a)anthracene	87.0	10	2.0	ug/l	100		87	60-120			
Benzo(b)fluoranthene	110	10	2.0	ug/l	100		110	55-125			
Benzo(k)fluoranthene	108	10	2.0	ug/l	100		108	50-125			
Benzo(g,h,i)perylene	119	10	3.0	ug/l	100		119	45-130			
Benzo(a)pyrene	114	10	2.0	ug/l	100		114	55-125			
Benzyl alcohol	72.7	20	2.5	ug/l	100		73	50-120			
Bis(2-chloroethoxy)methane	82.7	10	2.0	ug/l	100		83	55-120			
Bis(2-chloroethyl)ether	67.1	10	2.5	ug/l	100		67	50-120			
Bis(2-chloroisopropyl)ether	68.0	10	2.5	ug/l	100		68	45-120			
Bis(2-ethylhexyl)phthalate	83.3	50	4.0	ug/l	100		83	60-125			
4-Bromophenyl phenyl ether	83.0	10	2.5	ug/l	100		83	55-120			
Butyl benzyl phthalate	82.3	20	4.0	ug/l	100		82	50-125			
4-Chloroaniline	79.5	10	2.0	ug/l	100		80	50-120			
2-Chloronaphthalene	81.7	10	2.0	ug/l	100		82	55-120			
4-Chloro-3-methylphenol	79.8	20	2.0	ug/l	100		80	55-120			
2-Chlorophenol	67.5	10	2.0	ug/l	100		68	45-120			
4-Chlorophenyl phenyl ether	82.3	10	2.0	ug/l	100		82	60-120			
Chrysene	90.2	10	2.0	ug/l	100		90	60-120			
Dibenz(a,h)anthracene	122	20	3.0	ug/l	100		122	50-135			
Dibenzofuran	84.0	10	2.0	ug/l	100		84	60-120			
Di-n-butyl phthalate	84.1	20	2.0	ug/l	100		84	55-125			
1,3-Dichlorobenzene	50.4	10	3.0	ug/l	100		50	35-120			
1,4-Dichlorobenzene	51.4	10	2.5	ug/l	100		51	35-120			

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2-Dichlorobenzene	54.4	10	3.0	ug/l	100	54	40-120				MNR1
3,3-Dichlorobenzidine	74.5	20	3.0	ug/l	100	74	50-135				
2,4-Dichlorophenol	79.7	10	2.0	ug/l	100	80	50-120				
Diethyl phthalate	79.1	10	2.0	ug/l	100	79	50-120				
2,4-Dimethylphenol	70.9	20	3.5	ug/l	100	71	35-120				
Dimethyl phthalate	79.5	10	2.0	ug/l	100	80	25-120				
4,6-Dinitro-2-methylphenol	91.6	20	4.0	ug/l	100	92	40-120				
2,4-Dinitrophenol	102	20	4.5	ug/l	100	102	35-120				
2,4-Dinitrotoluene	83.6	10	2.0	ug/l	100	84	60-120				
2,6-Dinitrotoluene	80.2	10	2.0	ug/l	100	80	60-120				
Di-n-octyl phthalate	81.9	20	2.0	ug/l	100	82	60-130				
Fluoranthene	88.6	10	2.0	ug/l	100	89	55-120				
Fluorene	86.1	10	2.0	ug/l	100	86	60-120				
Hexachlorobenzene	84.2	10	2.5	ug/l	100	84	55-120				
Hexachlorobutadiene	60.9	10	3.5	ug/l	100	61	40-120				
Hexachlorocyclopentadiene	66.6	20	5.0	ug/l	100	67	20-120				
Hexachloroethane	47.0	10	3.0	ug/l	100	47	35-120				
Indeno(1,2,3-cd)pyrene	113	20	3.0	ug/l	100	113	45-135				
Isophorone	67.8	10	2.0	ug/l	100	68	50-120				
2-Methylnaphthalene	72.7	10	2.0	ug/l	100	73	50-120				
2-Methylphenol	69.6	10	2.0	ug/l	100	70	50-120				
4-Methylphenol	72.7	10	2.0	ug/l	100	73	45-120				
Naphthalene	68.9	10	2.5	ug/l	100	69	50-120				
2-Nitroaniline	90.3	20	2.0	ug/l	100	90	60-120				
3-Nitroaniline	85.3	20	2.0	ug/l	100	85	55-120				
4-Nitroaniline	88.8	20	2.5	ug/l	100	89	50-125				
Nitrobenzene	70.0	20	2.5	ug/l	100	70	50-120				
2-Nitrophenol	77.1	10	3.5	ug/l	100	77	45-120				
4-Nitrophenol	88.4	20	5.5	ug/l	100	88	40-120				
N-Nitrosodiphenylamine	79.2	10	2.0	ug/l	100	79	55-120				
N-Nitroso-di-n-propylamine	68.1	10	2.5	ug/l	100	68	45-120				
Pentachlorophenol	104	20	3.5	ug/l	100	104	45-125				
Phenanthrene	87.3	10	2.0	ug/l	100	87	60-120				
Phenol	69.0	10	2.0	ug/l	100	69	45-120				
Pyrene	92.1	10	2.0	ug/l	100	92	50-125				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
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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: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2,4-Trichlorobenzene	63.4	10	2.5	ug/l	100	63	45-120				MNRI
2,4,5-Trichlorophenol	84.8	20	3.0	ug/l	100	85	50-120				
2,4,6-Trichlorophenol	86.2	20	3.0	ug/l	100	86	50-120				
1,2-Diphenylhydrazine/Azobenzene	76.2	20	2.0	ug/l	100	76	55-120				
N-Nitrosodimethylamine	63.3	20	2.5	ug/l	100	63	40-120				
Surrogate: 2-Fluorophenol	123			ug/l	200	62	30-120				
Surrogate: Phenol-d6	134			ug/l	200	67	35-120				
Surrogate: 2,4,6-Tribromophenol	185			ug/l	200	92	40-120				
Surrogate: Nitrobenzene-d5	72.0			ug/l	100	72	40-120				
Surrogate: 2-Fluorobiphenyl	81.3			ug/l	100	81	45-120				
Surrogate: Terphenyl-d14	89.0			ug/l	100	89	45-120				
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Acenaphthene	93.8	10	2.0	ug/l	100	94	55-120	15	20		
Acenaphthylene	104	10	2.0	ug/l	100	104	60-120	18	20		
Aniline	77.9	10	2.5	ug/l	100	78	40-120	6	30		
Anthracene	97.5	10	2.0	ug/l	100	98	60-120	12	20		
Benzidine	178	20	8.5	ug/l	100	178	25-160	15	35		L
Benzoic acid	75.5	20	8.5	ug/l	100	76	25-120	4	30		
Benzo(a)anthracene	95.3	10	2.0	ug/l	100	95	60-120	9	20		
Benzo(b)fluoranthene	119	10	2.0	ug/l	100	119	55-125	8	25		
Benzo(k)fluoranthene	118	10	2.0	ug/l	100	118	50-125	9	20		
Benzo(g,h,i)perylene	133	10	3.0	ug/l	100	133	45-130	11	25		L
Benzo(a)pyrene	125	10	2.0	ug/l	100	125	55-125	9	25		
Benzyl alcohol	84.3	20	2.5	ug/l	100	84	50-120	15	20		
Bis(2-chloroethoxy)methane	98.7	10	2.0	ug/l	100	99	55-120	18	20		
Bis(2-chloroethyl)ether	80.5	10	2.5	ug/l	100	80	50-120	18	20		
Bis(2-chloroisopropyl)ether	80.3	10	2.5	ug/l	100	80	45-120	17	20		
Bis(2-ethylhexyl)phthalate	89.2	50	4.0	ug/l	100	89	60-125	7	20		
4-Bromophenyl phenyl ether	95.3	10	2.5	ug/l	100	95	55-120	14	25		
Butyl benzyl phthalate	89.2	20	4.0	ug/l	100	89	50-125	8	20		
4-Chloroaniline	92.5	10	2.0	ug/l	100	92	50-120	15	25		
2-Chloronaphthalene	97.1	10	2.0	ug/l	100	97	55-120	17	20		
4-Chloro-3-methylphenol	88.8	20	2.0	ug/l	100	89	55-120	11	25		
2-Chlorophenol	80.6	10	2.0	ug/l	100	81	45-120	18	25		
4-Chlorophenyl phenyl ether	92.5	10	2.0	ug/l	100	92	60-120	12	20		

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006
 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Chrysene	98.6	10	2.0	ug/l	100	99	60-120	9	20		
Dibenz(a,h)anthracene	134	20	3.0	ug/l	100	134	50-135	9	25		
Dibenzofuran	96.1	10	2.0	ug/l	100	96	60-120	13	20		
Di-n-butyl phthalate	87.9	20	2.0	ug/l	100	88	55-125	4	20		
1,3-Dichlorobenzene	60.3	10	3.0	ug/l	100	60	35-120	18	25		
1,4-Dichlorobenzene	62.2	10	2.5	ug/l	100	62	35-120	19	25		
1,2-Dichlorobenzene	64.9	10	3.0	ug/l	100	65	40-120	18	25		
3,3-Dichlorobenzidine	97.3	20	3.0	ug/l	100	97	50-135	27	25		R-7
2,4-Dichlorophenol	97.1	10	2.0	ug/l	100	97	50-120	20	20		
Diethyl phthalate	85.8	10	2.0	ug/l	100	86	50-120	8	30		
2,4-Dimethylphenol	78.8	20	3.5	ug/l	100	79	35-120	11	25		
Dimethyl phthalate	87.3	10	2.0	ug/l	100	87	25-120	9	30		
4,6-Dinitro-2-methylphenol	97.4	20	4.0	ug/l	100	97	40-120	6	25		
2,4-Dinitrophenol	106	20	4.5	ug/l	100	106	35-120	4	25		
2,4-Dinitrotoluene	86.5	10	2.0	ug/l	100	86	60-120	3	20		
2,6-Dinitrotoluene	87.5	10	2.0	ug/l	100	88	60-120	9	20		
Di-n-octyl phthalate	90.9	20	2.0	ug/l	100	91	60-130	10	20		
Fluoranthene	98.3	10	2.0	ug/l	100	98	55-120	10	20		
Fluorene	96.0	10	2.0	ug/l	100	96	60-120	11	20		
Hexachlorobenzene	97.3	10	2.5	ug/l	100	97	55-120	14	20		
Hexachlorobutadiene	78.5	10	3.5	ug/l	100	78	40-120	25	25		
Hexachlorocyclopentadiene	85.6	20	5.0	ug/l	100	86	20-120	25	30		
Hexachloroethane	56.8	10	3.0	ug/l	100	57	35-120	19	25		
Indeno(1,2,3-cd)pyrene	123	20	3.0	ug/l	100	123	45-135	8	25		
Isophorone	78.1	10	2.0	ug/l	100	78	50-120	14	20		
2-Methylnaphthalene	86.3	10	2.0	ug/l	100	86	50-120	17	20		
2-Methylphenol	82.6	10	2.0	ug/l	100	83	50-120	17	20		
4-Methylphenol	80.4	10	2.0	ug/l	100	80	45-120	10	20		
Naphthalene	84.6	10	2.5	ug/l	100	85	50-120	20	20		
2-Nitroaniline	103	20	2.0	ug/l	100	103	60-120	13	20		
3-Nitroaniline	93.8	20	2.0	ug/l	100	94	55-120	9	25		
4-Nitroaniline	92.2	20	2.5	ug/l	100	92	50-125	4	20		
Nitrobenzene	85.5	20	2.5	ug/l	100	86	50-120	20	25		
2-Nitrophenol	97.1	10	3.5	ug/l	100	97	45-120	23	25		
4-Nitrophenol	90.3	20	5.5	ug/l	100	90	40-120	2	30		

TestAmerica - Irvine, CA
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 Project Manager

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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: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
N-Nitrosodiphenylamine	91.8	10	2.0	ug/l	100	92	55-120	15	20		
N-Nitroso-di-n-propylamine	75.3	10	2.5	ug/l	100	75	45-120	10	20		
Pentachlorophenol	111	20	3.5	ug/l	100	111	45-125	7	25		
Phenanthrene	98.1	10	2.0	ug/l	100	98	60-120	12	20		
Phenol	79.9	10	2.0	ug/l	100	80	45-120	15	25		
Pyrene	96.9	10	2.0	ug/l	100	97	50-125	5	25		
1,2,4-Trichlorobenzene	80.8	10	2.5	ug/l	100	81	45-120	24	20		R-7
2,4,5-Trichlorophenol	98.3	20	3.0	ug/l	100	98	50-120	15	30		
2,4,6-Trichlorophenol	100	20	3.0	ug/l	100	100	50-120	15	30		
1,2-Diphenylhydrazine/Azobenzene	91.0	20	2.0	ug/l	100	91	55-120	18	25		
N-Nitrosodimethylamine	76.9	20	2.5	ug/l	100	77	40-120	19	20		
Surrogate: 2-Fluorophenol	150			ug/l	200	75	30-120				
Surrogate: Phenol-d6	153			ug/l	200	76	35-120				
Surrogate: 2,4,6-Tribromophenol	205			ug/l	200	102	40-120				
Surrogate: Nitrobenzene-d5	88.3			ug/l	100	88	40-120				
Surrogate: 2-Fluorobiphenyl	95.7			ug/l	100	96	45-120				
Surrogate: Terphenyl-d14	93.3			ug/l	100	93	45-120				

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 Received: 02/19/07

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: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aldrin	ND	0.10	0.030	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	0.389			ug/l	0.500		78	35-115			
Surrogate: Decachlorobiphenyl	0.428			ug/l	0.500		86	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS1)											MNRI
Aldrin	0.361	0.10	0.030	ug/l	0.500		72	35-120			
alpha-BHC	0.403	0.10	0.020	ug/l	0.500		81	45-120			
beta-BHC	0.410	0.10	0.040	ug/l	0.500		82	50-120			
delta-BHC	0.408	0.20	0.020	ug/l	0.500		82	50-120			
gamma-BHC (Lindane)	0.396	0.10	0.030	ug/l	0.500		79	40-120			
4,4'-DDD	0.403	0.10	0.030	ug/l	0.500		81	55-120			
4,4'-DDE	0.384	0.10	0.030	ug/l	0.500		77	50-120			
4,4'-DDT	0.427	0.10	0.030	ug/l	0.500		85	55-120			
Dieldrin	0.376	0.10	0.030	ug/l	0.500		75	50-120			
Endosulfan I	0.402	0.10	0.030	ug/l	0.500		80	50-120			
Endosulfan II	0.422	0.10	0.040	ug/l	0.500		84	55-120			
Endosulfan sulfate	0.420	0.20	0.050	ug/l	0.500		84	60-120			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
LCS Analyzed: 02/23/2007 (7B22132-BS1)											
Endrin	0.392	0.10	0.030	ug/l	0.500		78	55-120			MNR1
Endrin aldehyde	0.421	0.10	0.050	ug/l	0.500		84	55-120			
Endrin ketone	0.407	0.10	0.040	ug/l	0.500		81	55-120			
Heptachlor	0.391	0.10	0.030	ug/l	0.500		78	40-115			
Heptachlor epoxide	0.406	0.10	0.030	ug/l	0.500		81	50-120			
Methoxychlor	0.415	0.10	0.040	ug/l	0.500		83	55-120			
Surrogate: Tetrachloro-m-xylene	0.372			ug/l	0.500		74	35-115			
Surrogate: Decachlorobiphenyl	0.389			ug/l	0.500		78	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD1)											
Aldrin	0.339	0.10	0.030	ug/l	0.500		68	35-120	6	30	
alpha-BHC	0.376	0.10	0.020	ug/l	0.500		75	45-120	7	30	
beta-BHC	0.397	0.10	0.040	ug/l	0.500		79	50-120	3	30	
delta-BHC	0.393	0.20	0.020	ug/l	0.500		79	50-120	4	30	
gamma-BHC (Lindane)	0.377	0.10	0.030	ug/l	0.500		75	40-120	5	30	
4,4'-DDD	0.413	0.10	0.030	ug/l	0.500		83	55-120	2	30	
4,4'-DDE	0.383	0.10	0.030	ug/l	0.500		77	50-120	0	30	
4,4'-DDT	0.419	0.10	0.030	ug/l	0.500		84	55-120	2	30	
Dieldrin	0.369	0.10	0.030	ug/l	0.500		74	50-120	2	30	
Endosulfan I	0.391	0.10	0.030	ug/l	0.500		78	50-120	3	30	
Endosulfan II	0.409	0.10	0.040	ug/l	0.500		82	55-120	3	30	
Endosulfan sulfate	0.411	0.20	0.050	ug/l	0.500		82	60-120	2	30	
Endrin	0.377	0.10	0.030	ug/l	0.500		75	55-120	4	30	
Endrin aldehyde	0.410	0.10	0.050	ug/l	0.500		82	55-120	3	30	
Endrin ketone	0.403	0.10	0.040	ug/l	0.500		81	55-120	1	30	
Heptachlor	0.365	0.10	0.030	ug/l	0.500		73	40-115	7	30	
Heptachlor epoxide	0.384	0.10	0.030	ug/l	0.500		77	50-120	6	30	
Methoxychlor	0.406	0.10	0.040	ug/l	0.500		81	55-120	2	30	
Surrogate: Tetrachloro-m-xylene	0.345			ug/l	0.500		69	35-115			
Surrogate: Decachlorobiphenyl	0.392			ug/l	0.500		78	45-120			

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TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aroclor 1016	ND	1.0	0.35	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	0.531			ug/l	0.500		106	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS2)											
Aroclor 1016	3.53	1.0	0.35	ug/l	4.00		88	45-115			MNRI
Aroclor 1260	3.73	1.0	0.30	ug/l	4.00		93	55-115			
Surrogate: Decachlorobiphenyl	0.494			ug/l	0.500		99	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD2)											
Aroclor 1016	3.11	1.0	0.35	ug/l	4.00		78	45-115	13	30	
Aroclor 1260	3.49	1.0	0.30	ug/l	4.00		87	55-115	7	25	
Surrogate: Decachlorobiphenyl	0.485			ug/l	0.500		97	45-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21063 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21063-BLK1)											
Aluminum	ND	50	40	ug/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0216	0.050	0.020	mg/l							J
Calcium	0.0543	0.10	0.050	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	3.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 02/21/2007 (7B21063-BS1)											
Aluminum	510	50	40	ug/l	500		102	85-115			
Arsenic	506	10	7.0	ug/l	500		101	85-115			
Beryllium	518	2.0	0.90	ug/l	500		104	85-115			
Boron	0.535	0.050	0.020	mg/l	0.500		107	85-115			
Calcium	2.64	0.10	0.050	mg/l	2.50		106	85-115			
Chromium	511	5.0	2.0	ug/l	500		102	85-115			
Iron	0.524	0.040	0.015	mg/l	0.500		105	85-115			
Magnesium	2.60	0.020	0.0080	mg/l	2.50		104	85-115			
Nickel	530	10	2.0	ug/l	500		106	85-115			
Selenium	511	10	8.0	ug/l	500		102	85-115			
Silver	262	10	3.0	ug/l	250		105	85-115			
Vanadium	519	10	3.0	ug/l	500		104	85-115			
Zinc	502	20	15	ug/l	500		100	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21063 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21063-MS1)						Source: IQB2022-01					
Aluminum	1110	50	40	ug/l	500	550	112	70-130			
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Beryllium	524	2.0	0.90	ug/l	500	ND	105	70-130			
Boron	0.593	0.050	0.020	mg/l	0.500	0.065	106	70-130			
Calcium	5.66	0.10	0.050	mg/l	2.50	3.2	98	70-130			
Chromium	524	5.0	2.0	ug/l	500	7.7	103	70-130			
Iron	1.12	0.040	0.015	mg/l	0.500	0.62	100	70-130			
Magnesium	3.07	0.020	0.0080	mg/l	2.50	0.44	105	70-130			
Nickel	535	10	2.0	ug/l	500	ND	107	70-130			
Selenium	526	10	8.0	ug/l	500	ND	105	70-130			
Silver	271	10	3.0	ug/l	250	ND	108	70-130			
Vanadium	574	10	3.0	ug/l	500	44	106	70-130			
Zinc	533	20	15	ug/l	500	ND	107	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21063-MSD1)						Source: IQB2022-01					
Aluminum	1120	50	40	ug/l	500	550	114	70-130	1	20	
Arsenic	525	10	7.0	ug/l	500	ND	105	70-130	3	20	
Beryllium	525	2.0	0.90	ug/l	500	ND	105	70-130	0	20	
Boron	0.588	0.050	0.020	mg/l	0.500	0.065	105	70-130	1	20	
Calcium	5.65	0.10	0.050	mg/l	2.50	3.2	98	70-130	0	20	
Chromium	515	5.0	2.0	ug/l	500	7.7	101	70-130	2	20	
Iron	1.10	0.040	0.015	mg/l	0.500	0.62	96	70-130	2	20	
Magnesium	2.98	0.020	0.0080	mg/l	2.50	0.44	102	70-130	3	20	
Nickel	525	10	2.0	ug/l	500	ND	105	70-130	2	20	
Selenium	526	10	8.0	ug/l	500	ND	105	70-130	0	20	
Silver	263	10	3.0	ug/l	250	ND	105	70-130	3	20	
Vanadium	567	10	3.0	ug/l	500	44	105	70-130	1	20	
Zinc	517	20	15	ug/l	500	ND	103	70-130	3	20	

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21137 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21137-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.135	1.0	0.025	ug/l							J
Copper	0.337	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 02/21/2007 (7B21137-BS1)											
Antimony	78.5	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	79.6	1.0	0.025	ug/l	80.0		100	85-115			
Copper	79.6	2.0	0.25	ug/l	80.0		100	85-115			
Lead	75.3	1.0	0.040	ug/l	80.0		94	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS1) Source: IQB2021-01											
Antimony	80.9	2.0	0.050	ug/l	80.0	0.49	101	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	0.056	100	70-130			
Copper	81.8	2.0	0.25	ug/l	80.0	3.7	98	70-130			
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130			
Thallium	77.2	1.0	0.15	ug/l	80.0	ND	96	70-130			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS2) Source: IQB2054-04											
Antimony	82.8	2.0	0.050	ug/l	80.0	0.15	103	70-130			
Cadmium	77.1	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	75.0	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	72.2	1.0	0.040	ug/l	80.0	0.13	90	70-130			
Thallium	72.9	1.0	0.15	ug/l	80.0	ND	91	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21137-MSD1) Source: IQB2021-01											
Antimony	79.9	2.0	0.050	ug/l	80.0	0.49	99	70-130	1	20	
Cadmium	78.8	1.0	0.025	ug/l	80.0	0.056	98	70-130	1	20	
Copper	81.5	2.0	0.25	ug/l	80.0	3.7	97	70-130	0	20	
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130	0	20	
Thallium	76.6	1.0	0.15	ug/l	80.0	ND	96	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22143 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22143-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Arsenic	ND	0.010	0.0070	mg/l							
Beryllium	ND	0.0020	0.00090	mg/l							
Boron	0.0243	0.050	0.020	mg/l							J
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	0.0050	0.0020	mg/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	ND	0.010	0.0020	mg/l							
Selenium	ND	0.010	0.0080	mg/l							
Silver	ND	0.010	0.0060	mg/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Vanadium	ND	0.010	0.0030	mg/l							
Zinc	ND	0.020	0.0040	mg/l							
LCS Analyzed: 02/23/2007 (7B22143-BS1)											
Aluminum	0.446	0.050	0.040	mg/l	0.500		89	85-115			
Arsenic	0.508	0.010	0.0070	mg/l	0.500		102	85-115			
Beryllium	0.511	0.0020	0.00090	mg/l	0.500		102	85-115			
Boron	0.500	0.050	0.020	mg/l	0.500		100	85-115			
Calcium	2.48	0.10	0.050	mg/l	2.50		99	85-115			
Chromium	0.500	0.0050	0.0020	mg/l	0.500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Magnesium	2.50	0.020	0.0080	mg/l	2.50		100	85-115			
Nickel	0.503	0.010	0.0020	mg/l	0.500		101	85-115			
Selenium	0.494	0.010	0.0080	mg/l	0.500		99	85-115			
Silver	0.252	0.010	0.0060	mg/l	0.250		101	85-115			
Vanadium	0.506	0.010	0.0030	mg/l	0.500		101	85-115			
Zinc	0.485	0.020	0.0040	mg/l	0.500		97	85-115			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 7B22143 Extracted: 02/22/07

Matrix Spike Analyzed: 02/23/2007 (7B22143-MS1)

Source: IQB2022-01

Aluminum	0.483	0.050	0.040	mg/l	0.500	ND	97	70-130			
Arsenic	0.479	0.010	0.0070	mg/l	0.500	ND	96	70-130			
Beryllium	0.482	0.0020	0.00090	mg/l	0.500	ND	96	70-130			
Boron	0.535	0.050	0.020	mg/l	0.500	0.062	95	70-130			
Calcium	4.45	0.10	0.050	mg/l	2.50	2.1	94	70-130			
Chromium	0.470	0.0050	0.0020	mg/l	0.500	0.0046	93	70-130			
Iron	0.498	0.040	0.015	mg/l	0.500	0.027	94	70-130			
Magnesium	2.60	0.020	0.0080	mg/l	2.50	0.26	94	70-130			
Nickel	0.471	0.010	0.0020	mg/l	0.500	ND	94	70-130			
Selenium	0.462	0.010	0.0080	mg/l	0.500	ND	92	70-130			
Silver	0.247	0.010	0.0060	mg/l	0.250	ND	99	70-130			
Vanadium	0.509	0.010	0.0030	mg/l	0.500	0.037	94	70-130			
Zinc	0.473	0.020	0.0040	mg/l	0.500	0.0043	94	70-130			

Matrix Spike Dup Analyzed: 02/23/2007 (7B22143-MSD1)

Source: IQB2022-01

Aluminum	0.480	0.050	0.040	mg/l	0.500	ND	96	70-130	1	20
Arsenic	0.486	0.010	0.0070	mg/l	0.500	ND	97	70-130	1	20
Beryllium	0.490	0.0020	0.00090	mg/l	0.500	ND	98	70-130	2	20
Boron	0.530	0.050	0.020	mg/l	0.500	0.062	94	70-130	1	20
Calcium	4.49	0.10	0.050	mg/l	2.50	2.1	96	70-130	1	20
Chromium	0.475	0.0050	0.0020	mg/l	0.500	0.0046	94	70-130	1	20
Iron	0.505	0.040	0.015	mg/l	0.500	0.027	96	70-130	1	20
Magnesium	2.62	0.020	0.0080	mg/l	2.50	0.26	94	70-130	1	20
Nickel	0.474	0.010	0.0020	mg/l	0.500	ND	95	70-130	1	20
Selenium	0.470	0.010	0.0080	mg/l	0.500	ND	94	70-130	2	20
Silver	0.247	0.010	0.0060	mg/l	0.250	ND	99	70-130	0	20
Vanadium	0.513	0.010	0.0030	mg/l	0.500	0.037	95	70-130	1	20
Zinc	0.474	0.020	0.0040	mg/l	0.500	0.0043	94	70-130	0	20

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B23073 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.050	ug/l							
Copper	ND	2.0	0.40	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 02/23/2007 (7B23073-BS1)											
Antimony	84.3	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	81.9	1.0	0.050	ug/l	80.0		102	85-115			
Copper	80.6	2.0	0.40	ug/l	80.0		101	85-115			
Lead	81.0	1.0	0.10	ug/l	80.0		101	85-115			
Thallium	82.2	1.0	0.15	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 02/23/2007 (7B23073-MS1) Source: IQB2024-01											
Antimony	94.4	2.0	0.050	ug/l	80.0	1.7	116	70-130			
Cadmium	85.0	1.0	0.050	ug/l	80.0	ND	106	70-130			
Copper	82.7	2.0	0.40	ug/l	80.0	0.80	102	70-130			
Lead	73.9	1.0	0.10	ug/l	80.0	ND	92	70-130			
Thallium	77.9	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 02/23/2007 (7B23073-MSD1) Source: IQB2024-01											
Antimony	94.9	2.0	0.050	ug/l	80.0	1.7	116	70-130	1	20	
Cadmium	85.0	1.0	0.050	ug/l	80.0	ND	106	70-130	0	20	
Copper	83.2	2.0	0.40	ug/l	80.0	0.80	103	70-130	1	20	
Lead	75.0	1.0	0.10	ug/l	80.0	ND	94	70-130	1	20	
Thallium	79.0	1.0	0.15	ug/l	80.0	ND	99	70-130	1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B20044 Extracted: 02/20/07											
Blank Analyzed: 02/20/2007 (7B20044-BLK1)											
Chloride	ND	0.50	0.15	mg/l							
Fluoride	ND	0.50	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 02/20/2007 (7B20044-BS1)											
Chloride	4.96	0.50	0.15	mg/l	5.00		99	90-110			
Fluoride	4.90	0.50	0.15	mg/l	5.00		98	90-110			
Sulfate	10.2	0.50	0.45	mg/l	10.0		102	90-110			
Matrix Spike Analyzed: 02/20/2007 (7B20044-MS1) Source: IQB2022-01											
Chloride	5.66	0.50	0.15	mg/l	5.00	0.73	99	80-120			
Fluoride	5.12	0.50	0.15	mg/l	5.00	0.27	97	80-120			
Sulfate	17.2	0.50	0.45	mg/l	10.0	7.2	100	80-120			
Matrix Spike Dup Analyzed: 02/20/2007 (7B20044-MSD1) Source: IQB2022-01											
Chloride	5.58	0.50	0.15	mg/l	5.00	0.73	97	80-120	1	20	
Fluoride	5.15	0.50	0.15	mg/l	5.00	0.27	98	80-120	1	20	
Sulfate	17.0	0.50	0.45	mg/l	10.0	7.2	98	80-120	1	20	

Batch: 7B21063 Extracted: 02/21/07

Blank Analyzed: 02/21/2007 (7B21063-BLK1)

Hardness (as CaCO3) ND 1.0 1.0 mg/l

Batch: 7B21150 Extracted: 02/21/07

Blank Analyzed: 02/22/2007 (7B21150-BLK1)

Total Suspended Solids ND 10 10 mg/l

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 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21150 Extracted: 02/21/07											
LCS Analyzed: 02/22/2007 (7B21150-BS1)											
Total Suspended Solids	955	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 02/22/2007 (7B21150-DUP1)											
						Source: IQB2024-01					
Total Suspended Solids	29.0	10	10	mg/l		28			4	10	
Batch: 7B23078 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23078-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/23/2007 (7B23078-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 02/23/2007 (7B23078-DUP1)											
						Source: IQB2134-01					
Total Dissolved Solids	307	10	10	mg/l		300			2	10	
Batch: 7B23104 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23104-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/23/2007 (7B23104-BS1)											
Total Cyanide	198	5.0	2.2	ug/l	200		99	90-110			
Matrix Spike Analyzed: 02/23/2007 (7B23104-MS1)											
						Source: IQB2444-01					
Total Cyanide	442	10	4.4	ug/l	200	220	111	70-115			

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006
 Report Number: IQB2023

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B23104 Extracted: 02/23/07											
Matrix Spike Dup Analyzed: 02/23/2007 (7B23104-MSD1)						Source: IQB2444-01					
Total Cyanide	431	10	4.4	ug/l	200	220	106	70-115	3	15	
Batch: 7B27143 Extracted: 02/27/07											
Blank Analyzed: 02/28/2007 (7B27143-BLK1)											
Perchlorate	ND	4.0	0.80	ug/l							
LCS Analyzed: 02/28/2007 (7B27143-BS1)											
Perchlorate	45.6	4.0	0.80	ug/l	50.0		91	85-115			
Matrix Spike Analyzed: 02/28/2007 (7B27143-MS1)						Source: IQB2091-01					
Perchlorate	47.8	4.0	0.80	ug/l	50.0	ND	96	80-120			
Matrix Spike Dup Analyzed: 02/28/2007 (7B27143-MSD1)						Source: IQB2091-01					
Perchlorate	45.8	4.0	0.80	ug/l	50.0	ND	92	80-120	4	20	
Batch: 7B28085 Extracted: 02/28/07											
Blank Analyzed: 02/28/2007 (7B28085-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 02/28/2007 (7B28085-BS1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120			MNRI
LCS Dup Analyzed: 02/28/2007 (7B28085-BSD1)											
Oil & Grease	19.3	5.0	0.94	mg/l	20.0		96	65-120	3	20	

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Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

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
IQB2023-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.78	4.9	15
IQB2023-01	Antimony-200.8	Antimony	ug/l	0.65	2.0	6.00
IQB2023-01	Antimony-200.8, Diss	Antimony	ug/l	0.72	2.0	6.00
IQB2023-01	Boron-200.7	Boron	mg/l	0.020	0.050	1.00
IQB2023-01	Boron-200.7, Diss	Boron	mg/l	0.019	0.050	1.00
IQB2023-01	Cadmium-200.8	Cadmium	ug/l	0.100	1.0	4.00
IQB2023-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.028	1.0	4.00
IQB2023-01	Chloride - 300.0	Chloride	mg/l	130	5.0	150
IQB2023-01	Copper-200.8	Copper	ug/l	3.50	2.0	14
IQB2023-01	Copper-200.8, Diss	Copper	ug/l	0.52	2.0	14
IQB2023-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.45	0.15	10.00
IQB2023-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6.00
IQB2023-01	Sulfate-300.0	Sulfate	mg/l	23	0.50	250
IQB2023-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	550	10	850
IQB2023-01	Thallium-200.8	Thallium	ug/l	0.032	1.0	2.00
IQB2023-01	Thallium-200.8, Diss	Thallium	ug/l	0.016	1.0	2.00

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Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C-7** Calibration Verification recovery was below the method control limit due to matrix interference carried over from analytical samples. The matrix interference was confirmed by reanalysis with the same result.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. 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.
- R-7** LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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NPDES - 424

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	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	N/A	X
EPA 335.2	Water	X	X
EPA 413.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

Alta 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: IQB2023-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Acute 96hr

Samples: IQB2023-01

Eberline Services

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gross Alpha

Samples: IQB2023-01

Analysis Performed: Gross Beta

Samples: IQB2023-01

TestAmerica - Irvine, CA

Michele Chamberlin

Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Annual Outfall 006

Report Number: IQB2023

Sampled: 02/19/07

Received: 02/19/07

Weck Laboratories, Inc

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

Analysis Performed: Mercury - 245.1

Samples: IQB2023-01

Analysis Performed: Mercury - 245.1, Diss

Samples: IQB2023-01

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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NPDES - 426

CHAIN OF CUSTODY FORM

Version 04/28/06

Del Mar Analytical

Client Name/Address		Project		ANALYSIS REQUIRED										Field readings:				
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL NPDES Annual Outfall 006 Stormwater at FSDF-2		Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, B, V as Ca Co3	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO4, NO3+NO2-N, F Perchlorate	TDS, TSS	VOCs (624), NPDES + PP	VOCs A+A+2CVE	Pesticides/PCBs - PP	Gross Alpha, Gross Beta, Tritium (906.0*, Sr-90 (905) Total Combined Radium 226 & 228	SVOCs - PP	Acute Toxicity	Cyanide	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, B, V as Ca Co3		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #											Temp = 53.6	Comments
Outfall 006	W	1L Poly	1	2/19/17	HNO3	1A	X										pH = 7.8	
Outfall 006-Dup	W	1L Poly	1		HNO3	1B	X											
Outfall 006	W	1L Amber	2		None	2A, 2B		X										
Outfall 006	W	1L Amber	2		HCl	3A, 3B		X										
Outfall 006	W	Poly-500 ml	2		None	4A, 4B		X										
Outfall 006	W	Poly-500 ml	2		None	5A, 5B		X										
Outfall 006	W	VOAs	3		HCl	6A, 6B, 6C		X										
Outfall 006	W	VOAs	3		None	7A, 7B, 7C		X										
Outfall 006	W	1L Amber	2		None	8A, 8B		X										
Outfall 006	W	2.5 Gal Cube 100 ml Amber VOAs	1 3		None None	9A 15A, 15B, 15C					X						Analyze for Total Combined RA-226 & RA-228 only if Gross Alpha/Beta exceed permit limit. Analyze for Tritium and Sr-90 only if Ra-226&228 exceed permit limit.	
Outfall 006	W	1L Amber	2		None	10A, 10B						X						
Outfall 006	W	1 Gal Poly	1		None	11A							X					
Outfall 006	W	500ml Poly	1		NaOH	12								X				
Outfall 006	W	Poly-1L	1		None	13									X			
Trip Blanks	W	VOAs	3		None	14A, 14B, 14C												
Trip Blank	W	VOAs	3	2/19/17	HCl	16A, 16B, 16C			X									
Relinquished By				Date/Time: 2/19/17	Received By: [Signature]	Date/Time: 2/19/17											Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/>	
Relinquished By				Date/Time: 2/19/17	Received By: [Signature]	Date/Time: 2/19/17											Perchlorate Only 72 Hours _____ Metals Only 72 Hours _____	
Relinquished By				Date/Time: 2/19/17	Received By: [Signature]	Date/Time: 2/19/17											Sample Integrity: (Check) Intact <input checked="" type="checkbox"/> On Ice _____	

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March 02, 2007

Alta Project I.D.: 28725

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

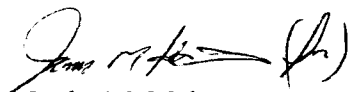
Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on February 21, 2007 under your Project Name "IQB2023". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Alta 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 Alta as part of your analytical support team.

Sincerely,


Martha M. Maier
Director of HRMS Services



Alta Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP, where 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 ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762

(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: **2/21/2007**

Alta Lab. ID

Client Sample ID

28725-001

IQB2023-01

SECTION II

EPA Method 1613

Method Blank

Matrix:		QC Batch No.		8883		Lab Sample:		0-MB001	
Sample Size:		Date Extracted:		23-Feb-07		Date Analyzed DB-5:		26-Feb-07	
Date Analyzed DB-225:		Date Analyzed DB-5:		26-Feb-07		Date Analyzed DB-225:		NA	
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers	
2,3,7,8-TCDD	ND	0.00000105			13C-2,3,7,8-TCDD	91.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.000000997			13C-1,2,3,7,8-PeCDD	92.8	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.00000193			13C-1,2,3,4,7,8-HxCDD	88.5	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.00000213			13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.00000197			13C-1,2,3,4,6,7,8-HpCDD	94.2	23 - 140		
1,2,3,4,6,7,8-HpCDD	0.00000272			J	13C-OCDD	73.0	17 - 157		
OCDD	0.0000173			J	13C-2,3,7,8-TCDF	88.4	24 - 169		
2,3,7,8-TCDF	ND	0.000000896			13C-1,2,3,7,8-PeCDF	105	24 - 185		
1,2,3,7,8-PeCDF	ND	0.000000819			13C-2,3,4,7,8-PeCDF	97.6	21 - 178		
2,3,4,7,8-PeCDF	ND	0.00000133			13C-1,2,3,4,7,8-HxCDF	93.2	26 - 152		
1,2,3,4,7,8-HxCDF	ND	0.000000566			13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123		
1,2,3,6,7,8-HxCDF	ND	0.000000620			13C-2,3,4,6,7,8-HxCDF	86.2	28 - 136		
2,3,4,6,7,8-HxCDF	ND	0.000000687			13C-1,2,3,7,8,9-HxCDF	100	29 - 147		
1,2,3,7,8,9-HxCDF	ND	0.000000895			13C-1,2,3,4,6,7,8-HpCDF	92.1	28 - 143		
1,2,3,4,6,7,8-HpCDF	ND	0.00000194			13C-1,2,3,4,7,8,9-HpCDF	99.5	26 - 138		
1,2,3,4,7,8,9-HpCDF	ND	0.00000198			13C-OCDF	79.9	17 - 157		
OCDF	ND	0.00000732			CRS 37C1-2,3,7,8-TCDD	93.0	35 - 197		
Totals									
Total TCDD	ND	0.00000105							
Total PeCDD	ND	0.00000228							
Total HxCDD	ND	0.00000201							
Total HpCDD	0.00000272								0.00000545
Total TCDF	ND	0.000000896							
Total PeCDF	ND	0.00000129							
Total HxCDF	ND	0.000000685							
Total HpCDF	ND	0.00000342							

Footnotes

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

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:20

OPR Results		EPA Method 1613					
Matrix	Aqueous	QC Batch No.	8883	Lab Sample	0-OPR001		
Sample Size	1.00 L	Date Extracted	23-Feb-07	Date Analyzed DB-5:	26-Feb-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	10.1	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	76.9	25 - 164	
1,2,3,7,8-PeCDD	50.0	53.4	35 - 71	13C-1,2,3,7,8-PeCDD	73.9	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	53.0	35 - 82	13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	54.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	78.5	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	53.2	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	85.5	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	54.6	35 - 70	13C-OCDD	72.3	17 - 157	
OCDD	100	108	78 - 144	13C-2,3,7,8-TCDF	75.0	24 - 169	
2,3,7,8-TCDF	10.0	10.4	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	84.8	24 - 185	
1,2,3,7,8-PeCDF	50.0	53.7	40 - 67	13C-2,3,4,7,8-PeCDF	79.5	21 - 178	
2,3,4,7,8-PeCDF	50.0	55.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	91.7	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	53.3	36 - 67	13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	54.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	80.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	54.3	35 - 78	13C-1,2,3,7,8,9-HxCDF	96.0	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	57.1	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	53.0	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	90.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	55.6	39 - 69	13C-OCDF	83.0	17 - 157	
OCDF	100	106	63 - 170	CRS 37Cl-2,3,7,8-TCDD	78.5	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:20

EPA Method 1613

Sample ID: IQB2023-01

Client Data
 Name: Test America-Irvine
 Project: IQB2023
 Date Collected: 19-Feb-07
 Time Collected: 1115

Sample Data
 Matrix: Aqueous
 Sample Size: 1.04 L

Laboratory Data
 Lab Sample: 28725-001
 QC Batch No.: 8883
 Date Analyzed DB-5: 26-Feb-07
 Date Received: 21-Feb-07
 Date Extracted: 23-Feb-07
 Date Analyzed DB-225: NA

Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers
2,3,7,8-TCDD	ND	0.00000137		
1,2,3,7,8-PeCDD	ND	0.00000129		
1,2,3,4,7,8-HxCDD	ND	0.00000249		
1,2,3,6,7,8-HxCDD	ND	0.00000276		
1,2,3,7,8,9-HxCDD	ND	0.00000255		
1,2,3,4,6,7,8-HpCDD	0.00000422			J,B
OCDD	0.0000430			J,B
2,3,7,8-TCDF	ND	0.00000119		
1,2,3,7,8-PeCDF	ND	0.00000195		
2,3,4,7,8-PeCDF	ND	0.00000184		
1,2,3,4,7,8-HxCDF	ND	0.000000915		
1,2,3,6,7,8-HxCDF	ND	0.000000932		
2,3,4,6,7,8-HxCDF	ND	0.00000105		
1,2,3,7,8,9-HxCDF	ND	0.00000127		
1,2,3,4,6,7,8-HpCDF	ND	0.00000203		
1,2,3,4,7,8,9-HpCDF	ND	0.000000870		
OCDF	ND	0.00000633		

Labeled Standard	%R	LCL-UCL ^d	Qualifiers
IS 13C-2,3,7,8-TCDD	65.1	25 - 164	
13C-1,2,3,7,8-PeCDD	60.4	25 - 181	
13C-1,2,3,4,7,8-HxCDD	59.0	32 - 141	
13C-1,2,3,6,7,8-HxCDD	55.5	28 - 130	
13C-1,2,3,4,6,7,8-HpCDD	56.9	23 - 140	
13C-OCDD	49.2	17 - 157	
13C-2,3,7,8-TCDF	61.1	24 - 169	
13C-1,2,3,7,8-PeCDF	61.4	24 - 185	
13C-2,3,4,7,8-PeCDF	61.7	21 - 178	
13C-1,2,3,4,7,8-HxCDF	58.2	26 - 152	
13C-1,2,3,6,7,8-HxCDF	53.7	26 - 123	
13C-2,3,4,6,7,8-HxCDF	56.2	28 - 136	
13C-1,2,3,7,8,9-HxCDF	61.5	29 - 147	
13C-1,2,3,4,6,7,8-HpCDF	58.6	28 - 143	
13C-1,2,3,4,7,8,9-HpCDF	60.7	26 - 138	
13C-OCDF	53.4	17 - 157	
CRS 37Cl-2,3,7,8-TCDD	85.0	35 - 197	

Footnotes

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

Totals	DL ^a	EMPC ^b	Qualifiers
Total TCDD	ND	0.00000137	
Total PeCDD	ND	0.00000129	
Total HxCDD	ND	0.00000431	
Total HpCDD	0.00000422		0.00000968 B
Total TCDF	ND	0.00000119	
Total PeCDF	ND	0.00000189	
Total HxCDF	ND	0.00000103	
Total HpCDF	ND	0.00000211	

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:20

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
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 corresponds 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

28725
3.0°C

SUBCONTRACT ORDER - PROJECT # IQB2023

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	Alta Analytical 1104 Windfield Way El Dorado Hills, CA 95762 Phone : (916) 933-1640 Fax: (916) 673-0106 Project Location: California

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

Analysis	Expiration	Comments
Sample ID: IQB2023-01 Water	Sampled: 02/19/07 11:15	
1613-Dioxin-HR-Alta	02/26/07 11:15	J flags, 17 congeners, no TEQ, ug/L, sub=Alta
Level 4 + EDD-OUT	03/19/07 11:15	Excel EDD email to pm, Include Std logs for Lvl IV

Containers Supplied:
1 L Amber (IQB2023-01E)

SAMPLE INTEGRITY:					
All containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sample labels/COC agree:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received On Ice::	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Custody Seals Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Preserved Properly:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Samples Received at (temp):	3.0°C

Released By: *Christina Chrey* Date: 2/20/07 Time: _____ Received By: *Bethanna P. Benedict* Date: 2/21/07 Time: 0906

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

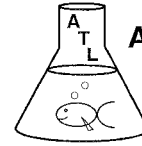
Alta Project #: 28725 TAT Standard

Samples Arrival:	Date/Time <u>2/21/07 0849</u>	Initials: <u>UBB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time <u>2/21/07 1336</u>	Initials: <u>FEB</u>	Location: <u>WR-2</u>
			Shelf/Rack: <u>B-5</u>
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> Cal
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
		<input type="checkbox"/> None	
Temp °C <u>3.0</u>	Time: <u>0905</u>	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 # <u>7990 9062 9384</u>			
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?			<input checked="" type="radio"/> None
Shipping Container	<input type="radio"/> Alta	<input checked="" type="radio"/> Client	<input type="radio"/> Retain
	<input type="radio"/> Return	<input checked="" type="radio"/> Dispose	

Comments:

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: February 25, 2007

Client: Test America – Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-07022005-001

Sample ID.: IQB2023-01

Sample Control: The sample was received by ATL in a chilled state, within the recommended hold time and with the chain of custody record attached.

Date Sampled: 02/19/07
Date Received: 02/20/07
Temp. Received: 2°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/20/07 to 02/24/07

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


Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).

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

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IQB2023-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:



Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-07022005-001
 Client/ID: TestAmerica IQB2023-01

Start Date: 02/20/2007

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 13 (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-070206.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.9	8.8	7.8	0	0	Rv
	100%	19.6	10.3	8.1	0	0	1400
24 Hr	Control	19.6	7.7	7.1	0	0	Rv
	100%	19.8	8.0	8.1	0	0	1200
48 Hr	Control	19.7	7.0	7.3	0	0	Rv
	100%	19.8	7.6	8.2	0	0	1400
Renewal	Control	20.5	8.8	7.8	0	0	Rv
	100%	20.4	10.6	8.0	0	0	1400
72 Hr	Control	19.2	8.3	7.4	0	0	Rv
	100%	19.3	7.9	8.1	0	0	1200
96 Hr	Control	19.2	8.1	7.4	0	0	Rv
	100%	19.2	8.0	8.1	0	0	1300

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 8.1; Conductivity: 850 umho; Temp: 2°C;
 DO: 10.3 mg/l; Alkalinity: 226 mg/l; Hardness: 198 mg/l; NH₃-N: 0.3 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No
 Control: Alkalinity: 60 mg/l; Hardness: 91 mg/l; Conductivity: 325 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: <u>100</u> % 100% Sample: <u>100</u> %

SUBCONTRACT ORDER - PROJECT # IQB2023

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

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

Analysis	Expiration	Comments
Sample ID: IQB2023-01 Water Bioassay-Acute 96hr	Sampled: 02/19/07 11:15 02/20/07 23:15	FH minnow, EPA/821-R02-012, Sub to AqTox Labs

Containers Supplied:

1 gal Poly (IQB2023-01A)

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): 2°

<i>Stanford</i>	02/20/07	07:30	<i>Quinn Ann</i>	02/20/07	07:30
Released By	Date	Time	Received By	Date	Time
<i>Quinn Ann</i>	02/20/07	12:40	<i>ATC</i>	2-20-07	12:40
Released By	Date	Time	Received By	Date	Time

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS



QA/QC Batch No.: RT-070206

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 11 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>2-6-07 1400</u>			<u>2-7-07 1200</u>					<u>2-8-07 1300</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	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.6</u>	<u>0</u>	<u>0</u>	<u>20.1</u>	<u>6.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.5</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.1</u>	<u>19.9</u>	<u>7.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>19.9</u>	<u>6.8</u>	<u>7.2</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.0</u>	<u>7.3</u>	<u>1</u>	<u>1</u>
8.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>20.0</u>	<u>5.7</u>	<u>7.1</u>	<u>10</u>	<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Date/Time:	RENEWAL			72 Hr					96 Hr				
	<u>2-8-07 1300</u>			<u>2-9-07 1200</u>					<u>2-10-07 1300</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	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>7.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>5.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>6.9</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.6</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.7</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.1</u>	<u>6.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.3</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Comments:

Control: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 360 umho.
 SDS: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 350 umho.

Acute Fish Test-96 Hr Survival

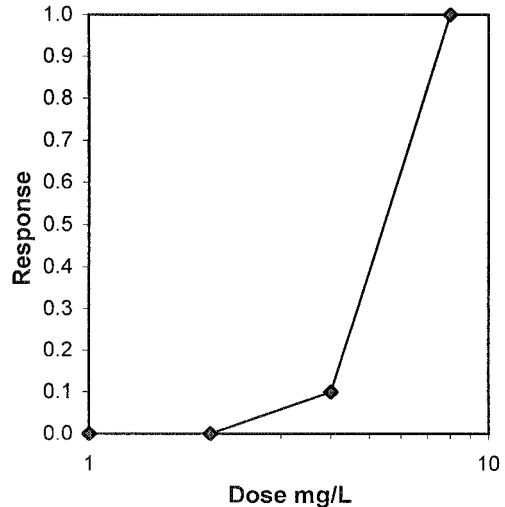
Start Date: 06 Feb-07 14:00 Test ID: RT-070206f Sample ID: REF-Ref Toxicant
 End Date: 10 Feb-07 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 06 Feb-07 00:00 Protocol: ACUTE-EPA-821-R-02-012 Test Species: PP-Pimephales promelas
 Comments:

Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	0.9000	0.9000
8	0.0000	0.0000

Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
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	0.9000	0.9000	1.2490	1.2490	1.2490	0.000	2	2	20	
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20	

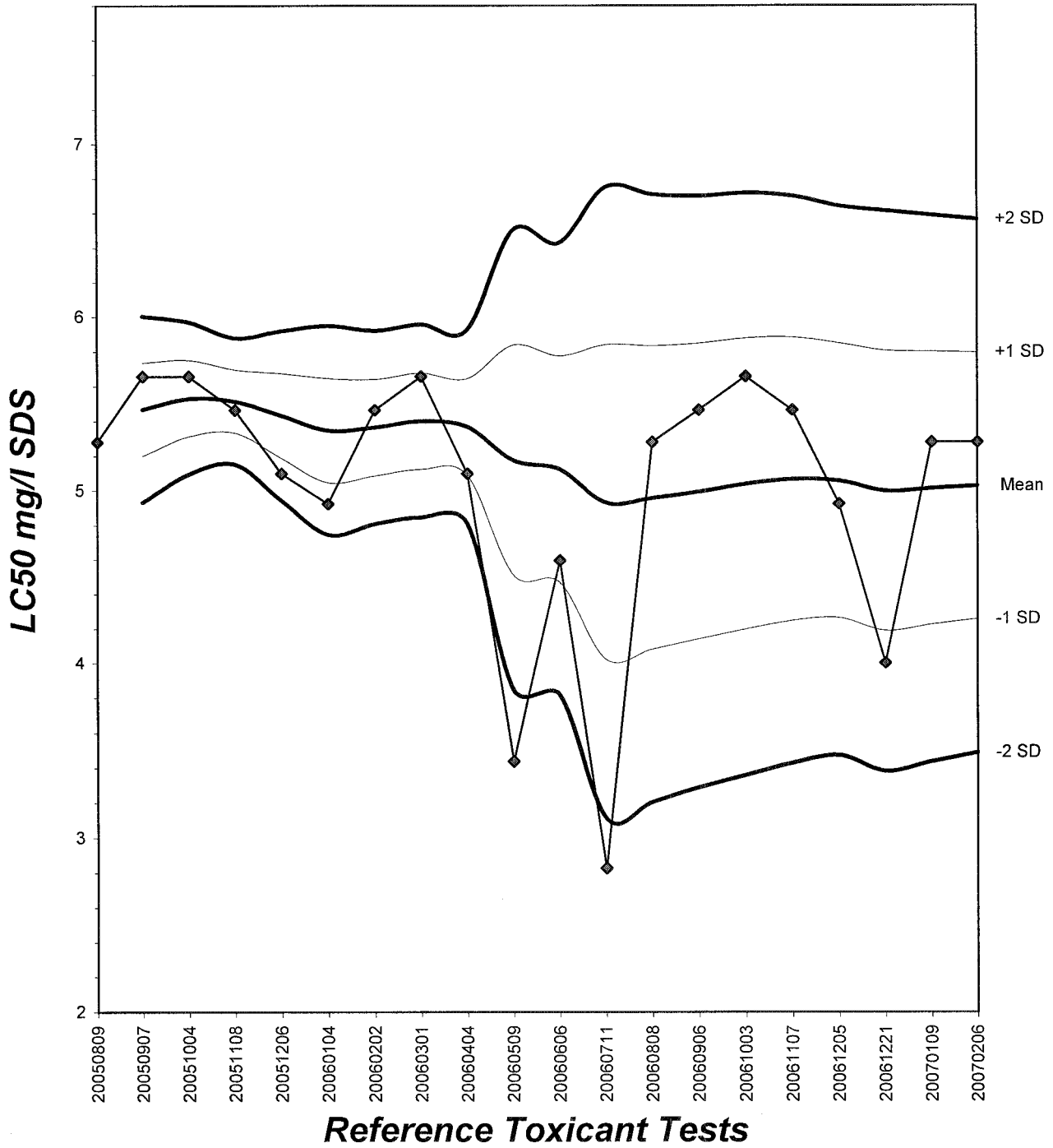
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Trimmed Spearman-Kärber			
Trim Level	EC50	95% CL	
0.0%	5.2780	4.8093	5.7924
5.0%	5.3968	4.8053	6.0611
10.0%	5.4432	5.1395	5.7648
20.0%	5.4432	5.1395	5.7648
Auto-0.0%	5.2780	4.8093	5.7924



Fathead Minnow Acute Laboratory Control Chart

CV% = 15.3



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-070206

SOURCE: In-Lab Culture

DATE HATCHED: 1-26-07

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 2/6/7

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.: 20.6 °C

pH: 8.0

Ammonia: <0.1 mg/l NH₃-N

DO: 7.8 mg/l

Alkalinity: 61 mg/l

Hardness: 91 mg/l

READINGS RECORDED BY: _____



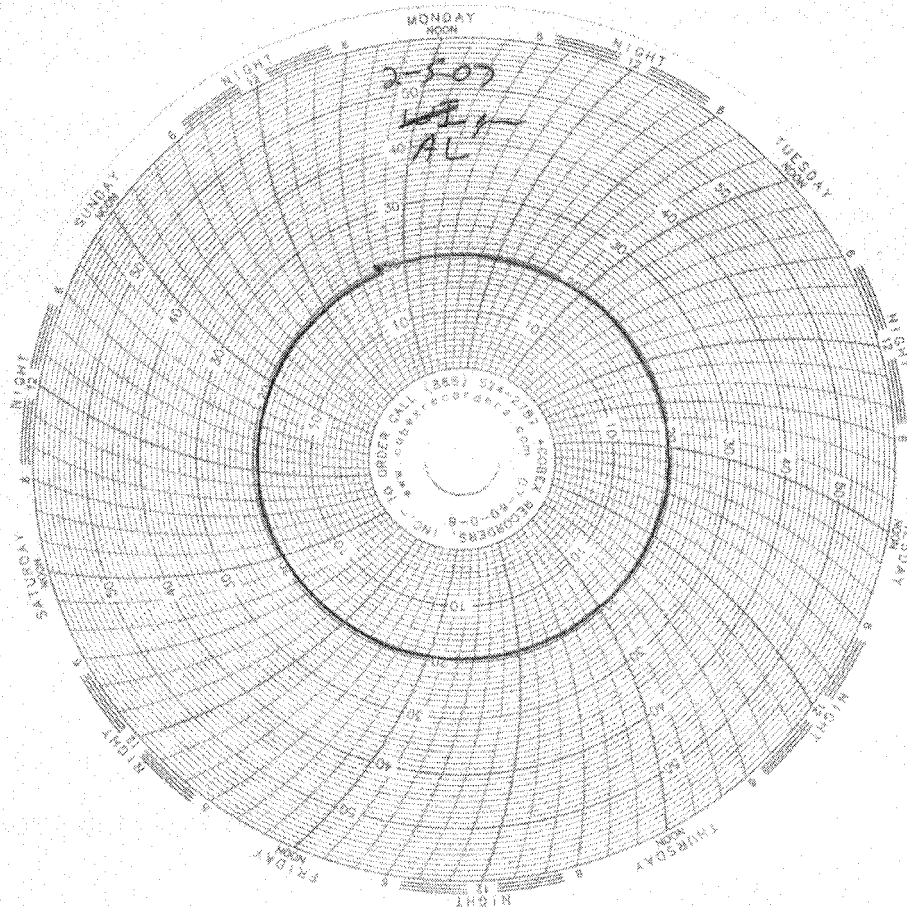
DATE: 2-7-7

Laboratory Temperature Chart

QA/QC Batch No: RT-070206

Date Tested: 02/06/07 to 02/10/07

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





EBERLINE

SERVICES

March 23, 2007

Ms. Michele Chamberlin
Test America, Inc.
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Reference: Test America Project No. IQB2023
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R702123-8658

Dear Ms. Chamberlin:

Enclosed are results from the analyses of one water sample received at Eberline Services on February 21, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analyses were gross alpha/gross beta (EPA900.0). The sample was not filtered prior to analysis; the sample was prepared for analysis within 5 days of collection. Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual. A level IV data package will follow within one week.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Report
Subcontract Form
Receipt checklist
Invoice

Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com


Eberline Services

ANALYSIS RESULTS

SDG 8658
Work Order R702123-01
Received Date 02/21/07

Client TA IRVINE
Contract PROJECT# IQB2023
Matrix WATER

<u>Client</u>	<u>Lab</u>						
<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>
IQB2023-01	8658-001	02/19/07	03/08/07	GrossAlpha	-0.901 ± 1.5	pCi/L	2.5
			03/08/07	Gross Beta	63.8 ± 2.8	pCi/L	2.2

Certified by 
Report Date 03/23/07
Page 1

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IQB2023

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:

Eberline Services
 2030 Wright Avenue
 Richmond, CA 94804
 Phone : (510) 235-2633
 Fax: (510) 235-0438

8658

Project Location: California

Standard TAT is requested unless specific due date is requested => Due Date: 3 Wk TAT Initials: MC

Analysis	Expiration	Comments
Sample ID: IQB2023-01 Water	Sampled: 02/19/07 11:15	
EDD + Level 4	03/19/07 11:15	
Gross Alpha-O	08/18/07 11:15	* DONT FILTER, 900.0, RESULT > 15 pCi/L, run Rad 226&228
Gross Beta-O	08/18/07 11:15	* DONT FILTER, 900.0, RESULT > 50 pCi/L, run Rad 226&228
Radium, Combined-O	02/19/08 11:15	HOLD for G A&B results; EPA 903.1&904.0, NO FILTER
Strontium 90-O	02/19/08 11:15	HOLD for Ra 226&228 results, EPA 905.0, DONT FILTER
Tritium-O	02/19/08 11:15	HOLD for Ra 226&228 results, EPA 906.0, DONT FILTER

Containers Supplied:

- 2.5 gal Poly (IQB2023-01S)
- 40 ml Amber Voa Vial (IQB2023-01T)
- 40 ml Amber Voa Vial (IQB2023-01U)
- 40 ml Amber Voa Vial (IQB2023-01V)

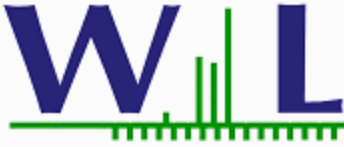
* 5 day HT MC

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

Released By: [Signature] Date: 2/20/07 Time: _____ Received By: [Signature] Date: 02/21/07 Time: 9:00

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



CERTIFICATE OF ANALYSIS

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

Report Date: 03/02/07 19:24
Received Date: 02/22/07 12:30
Turn Around: Normal

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

Work Order #: 7022247
Client Project: IQB2023

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 Michele Chamberlin :

Enclosed are the results of analyses for samples received 02/22/07 12:30 with the Chain of Custody document. The samples were received in good condition, at 5.5 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Taylor Malignat
Project Manager

Page 1 of 7





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: 7022247
Project ID: IQB2023

Date Received: 02/22/07 12:30
Date Reported: 03/02/07 19:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQB2023-01	client		7022247-01	Water	02/19/07 11:15



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

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

Report ID: 7022247
Project ID: IQB2023

Date Received: 02/22/07 12:30
Date Reported: 03/02/07 19:24

IQB2023-01 7022247-01 (Water)

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	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl



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Phone 626.336.2139 Fax 626.336.2634

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

Report ID: 7022247
Project ID: IQB2023

Date Received: 02/22/07 12:30
Date Reported: 03/02/07 19:24

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: 7022247
 Project ID: IQB2023

Date Received: 02/22/07 12:30
 Date Reported: 03/02/07 19:24

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7B1095 - EPA 245.1										
Blank (W7B1095-BLK1)				Analyzed: 03/02/07						
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
Blank (W7B1095-BLK2)				Analyzed: 03/02/07						
Mercury, Total	ND	0.20	ug/l							
Mercury, Dissolved	ND	0.20	ug/l							
LCS (W7B1095-BS1)				Analyzed: 03/02/07						
Mercury, Total	0.870	0.20	ug/l	1.00		87.0	85-115			
Mercury, Dissolved	0.870	0.20	ug/l	1.00		87.0	85-115			
LCS (W7B1095-BS2)				Analyzed: 03/02/07						
Mercury, Total	0.893	0.20	ug/l	1.00		89.3	85-115			
Mercury, Dissolved	0.893	0.20	ug/l	1.00		89.3	85-115			
Matrix Spike (W7B1095-MS1)		Source: 7022133-02		Analyzed: 03/02/07						
Mercury, Total	0.895	0.20	ug/l	1.00	ND	89.5	70-130			
Mercury, Dissolved	0.895	0.20	ug/l	1.00	ND	89.5	70-130			
Matrix Spike (W7B1095-MS2)		Source: 7022201-04		Analyzed: 03/02/07						
Mercury, Total	0.884	0.20	ug/l	1.00	0.030	85.4	70-130			
Mercury, Dissolved	0.884	0.20	ug/l	1.00	0.033	85.1	70-130			
Matrix Spike (W7B1095-MS3)		Source: 7022201-07		Analyzed: 03/02/07						
Mercury, Total	0.884	0.20	ug/l	1.00	0.033	85.1	70-130			
Mercury, Dissolved	0.884	0.20	ug/l	1.00	0.026	85.8	70-130			
Matrix Spike Dup (W7B1095-MSD1)		Source: 7022133-02		Analyzed: 03/02/07						
Mercury, Total	0.861	0.20	ug/l	1.00	ND	86.1	70-130	3.87	20	
Mercury, Dissolved	0.861	0.20	ug/l	1.00	ND	86.1	70-130	3.87	20	



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TestAmerica, Inc. - Irvine
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 Irvine CA, 92614

Report ID: 7022247
 Project ID: IQB2023

Date Received: 02/22/07 12:30
 Date Reported: 03/02/07 19:24

Metals by EPA 200 Series Methods - Quality Control

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

Batch W7B1095 - EPA 245.1

Matrix Spike Dup (W7B1095-MSD2)

Source: 7022201-04

Analyzed: 03/02/07

Mercury, Dissolved	0.890	0.20	ug/l	1.00	0.033	85.7	70-130	0.676	20	
Mercury, Total	0.890	0.20	ug/l	1.00	0.030	86.0	70-130	0.676	20	

Matrix Spike Dup (W7B1095-MSD3)

Source: 7022201-07

Analyzed: 03/02/07

Mercury, Total	0.935	0.20	ug/l	1.00	0.033	90.2	70-130	5.61	20	
Mercury, Dissolved	0.935	0.20	ug/l	1.00	0.026	90.9	70-130	5.61	20	



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

Report ID: 7022247
Project ID: IQB2023

Date Received: 02/22/07 12:30
Date Reported: 03/02/07 19:24

Notes and Definitions

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.

APPENDIX G

Section 13

Outfall 009, February 19, 2007

MEC^X Data Validation Reports



DATA VALIDATION REPORT

NPDES Monitoring Program
Annual Outfall 009

ANALYSIS: DIOXINS/FURANS
SAMPLE DELIVERY GROUP: IQB2021

Prepared by
MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES
Contract Task Order: 1261.100D.00
Sample Delivery Group: IQB2021
Project Manager: P. Costa
Matrix: Water
Analysis: Dioxins/Furans
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: K. Shadowlight
Date of Review: April 9, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0)*, *USEPA Method 1613*, and the *National Functional Guidelines for Chlorinated Dioxin/Furan Data Review (8/02)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (TestAmerica-Irvine)	Laboratory ID (Alta)	Matrix	COC Method
Outfall 009	IQB2021-01	28723-001	Water	1613

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica-Irvine within the temperature limits of 4°C ±2°C. The sample was shipped to Alta for dioxin/furan analysis and was received within the temperature limits. According to the case narrative and laboratory login sheet, the sample was received intact and in good condition at both laboratories. No qualifications were required.

2.1.2 Chain of Custody

The COC and transfer COC were legible and signed by the appropriate field and laboratory personnel, and accounted for the analysis presented in this SDG. As the sample was couriered directly to TestAmerica-Irvine, custody seals were not required. Custody seals were present on the coolers from TestAmerica to Alta; however, no sample custody seals were present. The Client ID was added to the sample result summary by the reviewer. No qualifications were required.

2.1.3 Holding Times

The sample was extracted and analyzed within one year of collection. No qualifications were required.

2.2 INSTRUMENT PERFORMANCE

Following are findings associated with instrument performance:

2.2.1 GC Column Performance

A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards (see section 2.3.2). The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%. No qualifications were required.

2.2.2 Mass Spectrometer Performance

The mass spectrometer performance was acceptable with the static resolving power greater than 10,000. No qualifications were required.

2.3 CALIBRATION

2.3.1 Initial Calibration

The initial calibration was analyzed 10/24/2006 on instrument VG-5. The calibration consisted of six concentration level standards (CS0 through CS5) analyzed to verify instrument linearity. The initial calibrations were acceptable with %RSDs $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the QC limits listed in Method 1613 for all standards. A representative number of %RSDs were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

2.3.2 Continuing Calibration

Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits. A representative number of %Ds were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

WDM and isomer specificity compounds were added to the VER standard instead of being analyzed separately, as noted in section 2.2.1 of this report. No adverse effect was observed with this practice.

2.4 BLANKS

One method blank (0-8883-MB001) was extracted and analyzed with the sample in this SDG. Target compounds 1,2,3,4,6,7,8-HpCDD, OCDD, and total HpCDD were reported in the method blank at concentrations below the laboratory lower calibration level. The target compounds were reported in the site sample; however, the concentrations exceeded five times the concentrations of the method blank and non qualifications were required. A review of the method blank raw data and chromatograms indicated no false negatives or false positives. No qualifications were required.

2.5 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

One blank spike (0-8883-OPR001) was extracted and analyzed with the sample in this SDG. All recoveries were within the acceptance criteria listed in Table 6 of Method 1613. A review of the raw data and chromatograms indicated no transcription or calculation errors. No qualifications were required.

2.6 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD analyses were not performed in this SDG. Evaluation of method accuracy was based on the OPR results. No qualifications were required.

2.7 FIELD QC SAMPLES

Following are findings associated with field QC:

2.7.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no field blank or equipment rinsate identified. No qualifications of the site samples were required.

2.7.2 Field Duplicates

No field duplicates were identified in association with the sample in this SDG.

2.8 INTERNAL STANDARDS

The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613. No qualifications were required.

2.9 COMPOUND IDENTIFICATION

The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. The compound identifications were verified from the raw data and no false negatives or positives were noted. No qualifications were required.

2.10 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantitation was verified from the raw data. The laboratory calculated and reported compound-specific detection limits. Any detects below the laboratory lower calibration level were qualified as estimated, "J," by the laboratory. These "J" values were annotated with the qualification code of "DNQ" to comply with the reporting requirements of the NPDES permit. No further qualifications were required.

Sample ID: **IQB2021-01** *Outfall 009* **EPA Method 1613**

Client Data		Laboratory Data	
Name: Test America-Irvine	Lab Sample: 28723-001	Date Received: 21-Feb-07	
Project: IQB2021	QC Batch No.: 8883	Date Extracted: 23-Feb-07	
Date Collected: 19-Feb-07	Date Analyzed DB-5: 27-Feb-07	Date Analyzed DB-225: NA	
Time Collected: 0930			

Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Aqueous	Sample Size	Matrix	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000172		1.03 L			13C-2,3,7,8-TCDD	79.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000291					13C-1,2,3,7,8-PeCDD	79.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000384					13C-1,2,3,4,7,8-HxCDD	78.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000568					13C-1,2,3,6,7,8-HxCDD	73.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000519					13C-1,2,3,4,6,7,8-HpCDD	84.3	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.0000660						13C-OCDD	65.6	17 - 157	B
OCDD	0.000976						13C-2,3,7,8-TCDF	72.7	24 - 169	B
2,3,7,8-TCDF	ND	0.00000168					13C-1,2,3,7,8-PeCDF	82.8	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000186					13C-2,3,4,7,8-PeCDF	82.9	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000318					13C-1,2,3,4,7,8-HxCDF	79.8	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000202					13C-1,2,3,6,7,8-HxCDF	74.3	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000208					13C-2,3,4,6,7,8-HxCDF	78.0	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000157					13C-1,2,3,7,8,9-HxCDF	84.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000204					13C-1,2,3,4,6,7,8-HpCDF	82.5	28 - 143	
1,2,3,4,6,7,8-HpCDF	0.0000229						13C-1,2,3,4,7,8,9-HpCDF	86.6	26 - 138	J
1,2,3,4,7,8,9-HpCDF	ND	0.00000472					13C-OCDF	73.6	17 - 157	
OCDF	0.0000656						CRS 37C1-2,3,7,8-TCDD	84.7	35 - 197	

Totals	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers
Total TCDD	ND	0.00000172		
Total PeCDD	ND	0.00000291		
Total HxCDD	0.00000435			
Total HpCDD	0.000145			B
Total TCDF	ND	0.00000168		
Total PeCDF	0.00000200			
Total HxCDF	0.00000576		0.00000136	
Total HpCDF	0.0000484			

Footnotes

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

Rev Qual
Qual
Lab

DUQ

Analyst: MAS

Approved By: William J. Luksenburg 01-Mar-2007 13:15

Level IV

Project 28723

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4MT113
 Task Order: 1261.001D.01
 SDG No.: IQB2021

No. of Analyses: 1

Laboratory: Weck
 Reviewer: P. Meeks
 Analysis/Method: Metals

Date: <u>April 4, 2007</u>
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS^a	
1. Case Narrative Deficiencies	_____
2. Out of Scope Analyses	_____
3. Analyses Not Conducted	_____
4. Missing Hardcopy Deliverables	_____
5. Incorrect Hardcopy Deliverables	_____
6. Deviations from Analysis Protocol, e.g.,	_____
Holding Times	_____
GC/MS Tune/Inst. Performance	_____
Calibration	_____
Method blanks	_____
Surrogates	_____
Matrix Spike/Dup LCS	_____
Field QC	_____
Internal Standard Performance	_____
Compound Identification	_____
Quantitation	_____
System Performance	_____
COMMENTS^b	Acceptable as reviewed.
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Outfall 009

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IQB2021

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.001D.01
Sample Delivery Group: IQB2021
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 4, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for ICP and ICP-MS Metals (DVP-5, Rev. 0)*, *EPA Method 245.1*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	TestAmerica Laboratory ID	Weck Laboratory ID	Matrix	COC Method
Outfall 009	IQA2021-01	7022234-01	Water	245.1, total and dissolved

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of 4°C ±2°C, but was received above the temperature limits at the subcontract laboratory, Weck, at 8°C; however, due to the nonvolatile nature of the analyte, no qualifications were required. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The original and transfer COCs were signed and dated by the appropriate field and/or laboratory personnel and accounted for the sample and analyses presented in this SDG. As the sample was transported directly from the field to TestAmerica, custody seals were not necessary. Custody seals were not present upon receipt at Weck. No sample qualifications were required.

2.1.3 Holding Times

The date of collection recorded on the COC and the date of analysis recorded in the raw data documented that the sample analyses were performed within the specified holding time of 28 days for mercury. No qualifications were required.

2.2 ICP-MS TUNING

As ICP-MS was not utilized for the analysis, the ICP-MS tune criteria are not applicable.

2.3 CALIBRATION

The mercury initial calibration r^2 was ≥ 0.995 . The ICV and CCV results showed acceptable recoveries, 85-115% for mercury. No qualifications were required.

2.4 BLANKS

Mercury was not detected in any of the blanks associated with the site sample analysis. No qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

As neither ICP nor ICP-MS were utilized for the analysis, the interference check sample results are not applicable.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The recoveries were within the laboratory-established control limits of 85-115%. No qualifications were required.

2.7 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.8 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Method accuracy was evaluated based on the LCS results. No qualifications were required.

2.9 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.10 INTERNAL STANDARDS PERFORMANCE

As ICP-MS was not utilized for the analysis, the ICP-MS internal standard results are not applicable.

2.11 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified and the sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. No qualifications were required.

2.12 FIELD QC SAMPLES

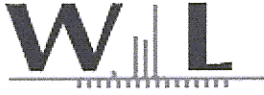
Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.12.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.12.2 Field Duplicates

There were no field duplicate analyses performed in association with the site sample.



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: 7022234 Project ID: IQB2021	Date Received: 02/21/07 10:58 Date Reported: 03/02/07 19:24
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Outfall 009

IQB2021-01 7022234-01 (Water)

Metals by EPA 200 Series Methods

Analyte	Res Qual Code	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved	U	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl
Mercury, Total	U	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl

LEVEL IV

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4MT116
 Task Order: 1261.100100
 SDG No.: IQB2021

No. of Analyses: 1

Laboratory: TestAmerica
 Reviewer: P. Meeks
 Analysis/Method: Metals

Date: <u>April 24, 2007</u>
Reviewer's Signature <u>P. Meeks</u>

ACTION ITEMS^a	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g.,	Qualification applied for method blank contamination.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 009

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IQB2021

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.100D.00
Sample Delivery Group: IQB2021
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 24, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for ICP and ICP-MS Metals (DVP-5, Rev. 0)*, *EPA Method 200.7*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	TestAmerica Laboratory ID	Matrix	COC Method
Outfall 009	IQA2021-01	Water	200.7

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of 4°C ±2°C. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The original COC was signed and dated by the appropriate field and laboratory personnel and accounted for the sample and analyses presented in this SDG. As the sample was transported directly from the field to TestAmerica, custody seals were not necessary. No sample qualifications were required.

2.1.3 Holding Times

The date of collection recorded on the COC and the date of analysis recorded in the raw data documented that the sample analyses were performed within the specified holding time of 6 months for ICP metals. No qualifications were required.

2.2 ICP-MS TUNING

As the ICP-MS analytes were not validated, the ICP-MS tune criteria were not assessed.

2.3 CALIBRATION

The ICV and CCV results showed acceptable recoveries, 90-110% for ICP metals. The laboratory analyzed reporting limit check standards in association with the sample in this SDG. Selenium was recovered above 130% in the 10 ppb reporting limit check standard; however, selenium was not detected in the site sample. All other recoveries were considered to be acceptable. No qualifications were required.

2.4 BLANKS

Although the ICP-MS metals were not validated, the reviewer noted that cadmium was detected in method blank 7B21137-BLK1 at 0.135 µg/L; therefore, cadmium detected in the sample was qualified as an estimated nondetect, "UJ." Silver was detected in a bracketing CCB; however, silver was not detected in the site sample. There were no other detects of sufficient concentration to qualify the site sample. No further qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

ICSA and ICSAB analyses were performed in association with the ICP analyses of the site sample. The ICSA and ICSAB results were acceptable with recoveries within the control limits of 80-120%. Selenium was reported in the ISCA at -11.4 µg/L and silver was detected at 6.7 µg/L; however, no interferents were present in the site sample at concentrations requiring qualification. No qualifications were required.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The recoveries were within the laboratory-established control limits of 85-115%. No qualifications were required.

2.7 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.8 MATRIX SPIKES

No MS/MSD analyses were performed in association with the ICP analytes of the sample in this SDG; therefore, no assessment was made with respect to this criterion. Method accuracy was evaluated based on the LCS results. No qualifications were required.

2.9 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.10 INTERNAL STANDARDS PERFORMANCE

As the ICP-MS analytes were not validated, the ICP-MS internal standard results were not assessed.

2.11 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified and the sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. No qualifications were required.

2.12 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.12.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.12.2 Field Duplicates

There were no field duplicate analyses performed in association with the site sample.

MWH-Pasadena/Boeing 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Attention: Bronwyn Kelly	Project ID: Annual Outfall 009 Report Number: IQB2021	Sampled: 02/19/07 Received: 02/19/07
--	--	---

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	7B21063	0.020	0.050	0.21	1	02/21/07	02/21/07	B
Iron	EPA 200.7	7B21063	0.015	0.040	0.42	1	02/21/07	02/21/07	B

Rev	Qual
Qual	Code

**Analysis not validated*

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

LEVEL IV

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7	7B21063	40	50	410	1	02/21/07	02/21/07	
Antimony	EPA 200.8	7B21137	0.050	2.0	0.49	1	02/21/07	02/21/07	* J
Arsenic	EPA 200.7	7B21063	7.0	10	ND	1	02/21/07	02/21/07	U
Beryllium	EPA 200.7	7B21063	0.90	2.0	ND	1	02/21/07	02/21/07	U
Cadmium	EPA 200.8	7B21137	0.025	1.0	0.056	1	02/21/07	02/21/07	UJ B, J B
Chromium	EPA 200.7	7B21063	2.0	5.0	ND	1	02/21/07	02/21/07	U
Copper	EPA 200.8	7B21137	0.25	2.0	3.7	1	02/21/07	02/21/07	* J
Lead	EPA 200.8	7B21137	0.040	1.0	1.7	1	02/21/07	02/21/07	* J
Nickel	EPA 200.7	7B21063	2.0	10	ND	1	02/21/07	02/21/07	U
Selenium	EPA 200.7	7B21063	8.0	10	ND	1	02/21/07	02/21/07	U
Silver	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	U
Thallium	EPA 200.8	7B21137	0.15	1.0	ND	1	02/21/07	02/21/07	* J
Vanadium	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	U
Zinc	EPA 200.7	7B21063	15	20	51	1	02/21/07	02/21/07	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

* Analysis not validated

LEVEL IV

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

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CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4RA10
 Task Order: 1261.004D-01 100D,00
 SDG No.: IQB2021

No. of Analyses: 1

Laboratory: Eberlin
 Reviewer: P. Meeks
 Analysis/Method: Radionuclides

Date: April 5, 2007
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS^a	
1. Case Narrative	
Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g.,	Qualification applied for detector efficiency.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 009

ANALYSIS: RADIONUCLIDES

SAMPLE DELIVERY GROUP: IQB2021

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.100D.00
Sample Delivery Group: IQB2021
Project Manager: P. Costa
Matrix: Water
Analysis: Radionuclides
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 5, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *EPA Prescribed Procedures for Measurements of Radioactivity in Drinking Water, Method 900.0*, and validation procedures outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form I with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (Del Mar)	Laboratory ID (Eberline)	Matrix	COC Method
Outfall 009	IQB2021-01	8656-001	Water	900.0

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of $4\pm 2^{\circ}\text{C}$. No temperature information was provided by Eberline, the subcontract laboratory; however, as it is not necessary to chill radiological samples, no qualifications were required. The sample was noted to have been received intact, in good condition, with cooler and sample container custody seals intact.

According to the Los Angeles Regional Water Quality Control Board's (LARWQCB) guidance letter dated 01/12/05, samples collected for tritium analysis should be submitted in glass containers to avoid potential loss of tritium by sorption onto the plastic container. The tritium sample for Outfall 009 was received unpreserved in a glass container.

According to the LARWQCB guidance letter dated 01/12/05, unfiltered samples should not be preserved and filtered aliquots should be preserved after filtration. All aliquots were received at Eberline unfiltered and unpreserved and were neither preserved nor filtered after receipt. No qualifications were required.

2.1.2 Chain of Custody

The original COC was signed and dated by field and laboratory personnel. The transfer COC was signed by personnel from both laboratories. Eberline did not list the MWH ID on the sample result summary form; therefore, the reviewer edited the Form I to reflect this ID. No qualifications were required.

2.1.3 Holding Times

Aliquots for gross alpha and gross beta were prepared within the five-day analytical holding time for unpreserved samples. No qualifications were necessary.

2.2 CALIBRATION

The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability. The gross alpha and gross beta initial calibration included with the data was performed in February 2003. The gross alpha detector efficiency

was less than 20%; therefore, the gross alpha result was qualified as an estimated detect, "J." The gross beta detector efficiency was above 20% and no further qualifications were required.

2.3 BLANKS

No measurable activities were detected in the method blanks; therefore, no qualifications were necessary.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

Aqueous blank spikes were analyzed in association with the sample in this SDG. The blank spike results were within the laboratory-established control limits. No qualifications were necessary.

2.5 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed. No qualifications were necessary.

2.6 MATRIX SPIKES

No matrix spike analyses were performed. Method accuracy was evaluated based on the blank spike results. No qualifications were necessary.

2.7 SAMPLE RESULT VERIFICATION

An EPA Level IV review was performed for the sample in this data package. Sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. No qualifications were necessary.

2.8 FIELD QC SAMPLES

Field QC samples were evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample.

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate samples in this SDG.

Eberline Services

ANALYSIS RESULTS

SDG <u>8656</u>	Client <u>TA IRVINE</u>
Work Order <u>R702121-01</u>	Contract <u>PROJECT# IQB2021</u>
Received Date <u>02/21/07</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>	
<u>Outfall 009</u> IQB2021-01	8656-001	02/19/07	03/08/07	GrossAlpha	1.86 ± 0.73	pCi/L	0.87	
			03/08/07	Gross Beta	3.33 ± 0.64	pCi/L	0.89	

Rev Qual
Qual Code
J R

LEVEL IV

Certified by <u>[Signature]</u>
Report Date <u>03/23/07</u>
Page 1

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4WC96
 Task Order: 1261.100D.00
 SDG No.: IQB2021

No. of Analyses: 1

Laboratory: TestAmerica
 Reviewer: P. Meeks
 Analysis/Method: General Minerals

Date: <u>April 25, 2007</u>
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS^a	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g.,	Qualification applied for a detect below the reporting limit.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 009

ANALYSIS: GENERAL MINERALS

SAMPLE DELIVERY GROUP: IQB2021

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.001D.01
Sample Delivery Group: IQB2021
Project Manager: P. Costa
Matrix: Water
Analysis: General Minerals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 25, 2007

The sample listed in Table 1 was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *USEPA Methods 160.2 and 335.2*, and validation guidelines outlined in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form Is as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID	Matrix	COC Method
Outfall 009	IQB2021-01	Water	General Minerals

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at the laboratory within the temperature limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. No preservation problems were noted by the laboratory and no qualifications were required.

2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel and accounted for the sample and the analysis presented in this SDG. As the sample was couriered directly from the field to the laboratory, custody seals were not necessary. No qualifications were required.

2.1.3 Holding Times

The holding times were assessed by comparing the date of collection with the dates of analyses. The TSS analysis was performed within the analytical holding time of seven days from collection and the cyanide analysis was performed within the analytical holding time of 14 days from collection. No qualifications were required.

2.2 CALIBRATION

The cyanide initial calibration r^2 result was ≥ 0.995 and the ICV and CCV results were within the control limits of 90-110%. No qualifications were required.

2.3 BLANKS

There were no detects in the method blanks or CCBs associated with the sample analyses. Raw data was reviewed to verify the blank data. No qualifications were required.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The reported LCS recoveries were within the laboratory-established control limits. No qualifications were required.

2.5 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.6 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Evaluation of method accuracy was based on the LCS results. No qualifications were required.

2.7 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified, and the sample results reported on the Form I were verified against the raw data. Cyanide was detected in the site sample below the reporting limit. The cyanide result was qualified as estimated, "J." and was denoted with "DNQ" in accordance with the NPDES report. No further qualifications were required.

2.8 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample. The following are findings associated with field QC samples:

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate pairs associated with this SDG.

MWH-Pasadena/Boeing 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Attention: Bronwyn Kelly	Project ID: Annual Outfall 009 Report Number: IQB2021	Sampled: 02/19/07 Received: 02/19/07
--	--	---

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	Qual Code
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.										
Reporting Units: ug/l										
Total Cyanide	EPA 335.2	7B23104	2.2	5.0	2.2	1	02/23/07	02/23/07	J J	DNQ
Perchlorate	EPA 314.0	7B27143	0.80	4.0	ND	1	02/27/07	02/28/07	*	

* Analysis not validated

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

LEVEL IV

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IQB2021 <Page 14 of 43>

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
									Rev Qual	Qual Code
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.										
Reporting Units: mg/l										
Chloride	EPA 300.0	7B20044	0.15	0.50	13	1	02/20/07	02/20/07	*	
Fluoride	EPA 300.0	7B20044	0.15	0.50	0.40	1	02/20/07	02/20/07		J
Hardness (as CaCO3)	SM2340B	7B21063	1.0	1.0	98	1	02/21/07	02/21/07		
Nitrate/Nitrite-N	EPA 300.0	7B20044	0.080	0.15	0.55	1	02/20/07	02/20/07		
Oil & Grease	EPA 413.1	7B28085	0.89	4.7	ND	1	02/28/07	02/28/07		
Sulfate	EPA 300.0	7B20044	0.45	0.50	44	1	02/20/07	02/20/07	↓	
Total Dissolved Solids	SM2540C	7B23078	10	10	270	1	02/23/07	02/23/07	*	
Total Suspended Solids	EPA 160.2	7B21150	10	10	12	1	02/21/07	02/22/07		

* Analysis not validated

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

LEVEL IV

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APPENDIX G

Section 14

Outfall 009, February 19, 2007

Test America Analytical Laboratory Report

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Annual Outfall 009

Sampled: 02/19/07
Received: 02/19/07
Issued: 04/03/07 19:12

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 of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

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

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

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

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

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

ADDITIONAL INFORMATION: Enclosed are complete final results. The results for Radiochemistry were added.

LABORATORY ID

IQB2021-01
IQB2021-02

CLIENT ID

Outfall 009
Trip Blank

MATRIX

Water
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

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: IQB2021-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	7B21011	0.28	1.0	ND	1	02/21/07	02/21/07	M1
Bromodichloromethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	M1
Bromoform	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Bromomethane	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	M1
Carbon tetrachloride	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
Chlorobenzene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	M1
Chloroethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Chloroform	EPA 624	7B21011	0.33	2.0	ND	1	02/21/07	02/21/07	
Chloromethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	M1
Dibromochloromethane	EPA 624	7B21011	0.28	2.0	ND	1	02/21/07	02/21/07	M1
1,2-Dichlorobenzene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	M1
1,3-Dichlorobenzene	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	M1
1,4-Dichlorobenzene	EPA 624	7B21011	0.37	2.0	ND	1	02/21/07	02/21/07	M1
1,1-Dichloroethane	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	M1
1,2-Dichloroethane	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
1,1-Dichloroethene	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
trans-1,2-Dichloroethene	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	M1
1,2-Dichloropropane	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	M1
cis-1,3-Dichloropropene	EPA 624	7B21011	0.22	2.0	ND	1	02/21/07	02/21/07	
trans-1,3-Dichloropropene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Ethylbenzene	EPA 624	7B21011	0.25	2.0	ND	1	02/21/07	02/21/07	M1
Methylene chloride	EPA 624	7B21011	0.95	5.0	ND	1	02/21/07	02/21/07	
1,1,2,2-Tetrachloroethane	EPA 624	7B21011	0.24	2.0	ND	1	02/21/07	02/21/07	
Tetrachloroethene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Toluene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	M1
1,1,1-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
1,1,2-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	M1
Trichloroethene	EPA 624	7B21011	0.26	2.0	ND	1	02/21/07	02/21/07	M1
Trichlorofluoromethane	EPA 624	7B21011	0.34	5.0	ND	1	02/21/07	02/21/07	
Vinyl chloride	EPA 624	7B21011	0.30	0.50	ND	1	02/21/07	02/21/07	M1
Xylenes, Total	EPA 624	7B21011	0.90	4.0	ND	1	02/21/07	02/21/07	M1
Trichlorotrifluoroethane (Freon 113)	EPA 624	7B21011	1.5	5.0	ND	1	02/21/07	02/21/07	

Surrogate: Dibromofluoromethane (80-120%)

100 %

Surrogate: Toluene-d8 (80-120%)

101 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

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: IQB2021-02 (Trip Blank - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	7B21011	0.28	1.0	ND	1	02/21/07	02/21/07	
Bromodichloromethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Bromoform	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Bromomethane	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
Carbon tetrachloride	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
Chlorobenzene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
Chloroethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Chloroform	EPA 624	7B21011	0.33	2.0	ND	1	02/21/07	02/21/07	
Chloromethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Dibromochloromethane	EPA 624	7B21011	0.28	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichlorobenzene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
1,3-Dichlorobenzene	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
1,4-Dichlorobenzene	EPA 624	7B21011	0.37	2.0	ND	1	02/21/07	02/21/07	
1,1-Dichloroethane	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloroethane	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
1,1-Dichloroethene	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
trans-1,2-Dichloroethene	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloropropane	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
cis-1,3-Dichloropropene	EPA 624	7B21011	0.22	2.0	ND	1	02/21/07	02/21/07	
trans-1,3-Dichloropropene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Ethylbenzene	EPA 624	7B21011	0.25	2.0	ND	1	02/21/07	02/21/07	
Methylene chloride	EPA 624	7B21011	0.95	5.0	ND	1	02/21/07	02/21/07	
1,1,2,2-Tetrachloroethane	EPA 624	7B21011	0.24	2.0	ND	1	02/21/07	02/21/07	
Tetrachloroethene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Toluene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
1,1,1-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
1,1,2-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Trichloroethene	EPA 624	7B21011	0.26	2.0	ND	1	02/21/07	02/21/07	
Trichlorofluoromethane	EPA 624	7B21011	0.34	5.0	ND	1	02/21/07	02/21/07	
Vinyl chloride	EPA 624	7B21011	0.30	0.50	ND	1	02/21/07	02/21/07	
Xylenes, Total	EPA 624	7B21011	0.90	4.0	ND	1	02/21/07	02/21/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7B21011	1.5	5.0	ND	1	02/21/07	02/21/07	

Surrogate: Dibromofluoromethane (80-120%)

96 %

Surrogate: Toluene-d8 (80-120%)

101 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7B21011	4.6	50	ND	1	02/21/07	02/21/07	
Acrylonitrile	EPA 624	7B21011	0.70	50	ND	1	02/21/07	02/21/07	
2-Chloroethyl vinyl ether	EPA 624	7B21011	1.8	5.0	ND	1	02/21/07	02/21/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					100 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				
Sample ID: IQB2021-02 (Trip Blank - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7B21011	4.6	50	ND	1	02/21/07	02/21/07	
Acrylonitrile	EPA 624	7B21011	0.70	50	ND	1	02/21/07	02/21/07	
2-Chloroethyl vinyl ether	EPA 624	7B21011	1.8	5.0	ND	1	02/21/07	02/21/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					96 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

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: IQB2021-01 (Outfall 009 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Acenaphthylene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Aniline	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Anthracene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Benzidine	EPA 625	7B21110	8.8	21	ND	1.03	02/21/07	02/25/07	L
Benzoic acid	EPA 625	7B21110	8.8	21	ND	1.03	02/21/07	02/25/07	
Benzo(a)anthracene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Benzo(b)fluoranthene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Benzo(k)fluoranthene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Benzo(g,h,i)perylene	EPA 625	7B21110	3.1	10	ND	1.03	02/21/07	02/25/07	L
Benzo(a)pyrene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Benzyl alcohol	EPA 625	7B21110	2.6	21	ND	1.03	02/21/07	02/25/07	
Bis(2-chloroethoxy)methane	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Bis(2-chloroethyl)ether	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Bis(2-chloroisopropyl)ether	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7B21110	4.1	52	ND	1.03	02/21/07	02/25/07	
4-Bromophenyl phenyl ether	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Butyl benzyl phthalate	EPA 625	7B21110	4.1	21	ND	1.03	02/21/07	02/25/07	
4-Chloroaniline	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
2-Chloronaphthalene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
4-Chloro-3-methylphenol	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
2-Chlorophenol	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
4-Chlorophenyl phenyl ether	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Chrysene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Dibenz(a,h)anthracene	EPA 625	7B21110	3.1	21	ND	1.03	02/21/07	02/25/07	
Dibenzofuran	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Di-n-butyl phthalate	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
1,3-Dichlorobenzene	EPA 625	7B21110	3.1	10	ND	1.03	02/21/07	02/25/07	
1,4-Dichlorobenzene	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
1,2-Dichlorobenzene	EPA 625	7B21110	3.1	10	ND	1.03	02/21/07	02/25/07	
3,3-Dichlorobenzidine	EPA 625	7B21110	3.1	21	ND	1.03	02/21/07	02/25/07	
2,4-Dichlorophenol	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Diethyl phthalate	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
2,4-Dimethylphenol	EPA 625	7B21110	3.6	21	ND	1.03	02/21/07	02/25/07	
Dimethyl phthalate	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
4,6-Dinitro-2-methylphenol	EPA 625	7B21110	4.1	21	ND	1.03	02/21/07	02/25/07	
2,4-Dinitrophenol	EPA 625	7B21110	4.6	21	ND	1.03	02/21/07	02/25/07	
2,4-Dinitrotoluene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
2,6-Dinitrotoluene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Di-n-octyl phthalate	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
Fluoranthene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

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: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Hexachlorobenzene	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Hexachlorobutadiene	EPA 625	7B21110	3.6	10	ND	1.03	02/21/07	02/25/07	
Hexachlorocyclopentadiene	EPA 625	7B21110	5.2	21	ND	1.03	02/21/07	02/25/07	
Hexachloroethane	EPA 625	7B21110	3.1	10	ND	1.03	02/21/07	02/25/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7B21110	3.1	21	ND	1.03	02/21/07	02/25/07	
Isophorone	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
2-Methylnaphthalene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
2-Methylphenol	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
4-Methylphenol	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Naphthalene	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
2-Nitroaniline	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
3-Nitroaniline	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
4-Nitroaniline	EPA 625	7B21110	2.6	21	ND	1.03	02/21/07	02/25/07	
Nitrobenzene	EPA 625	7B21110	2.6	21	ND	1.03	02/21/07	02/25/07	
2-Nitrophenol	EPA 625	7B21110	3.6	10	ND	1.03	02/21/07	02/25/07	
4-Nitrophenol	EPA 625	7B21110	5.7	21	ND	1.03	02/21/07	02/25/07	
N-Nitrosodiphenylamine	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
N-Nitroso-di-n-propylamine	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
Pentachlorophenol	EPA 625	7B21110	3.6	21	ND	1.03	02/21/07	02/25/07	
Phenanthrene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Phenol	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
Pyrene	EPA 625	7B21110	2.1	10	ND	1.03	02/21/07	02/25/07	
1,2,4-Trichlorobenzene	EPA 625	7B21110	2.6	10	ND	1.03	02/21/07	02/25/07	
2,4,5-Trichlorophenol	EPA 625	7B21110	3.1	21	ND	1.03	02/21/07	02/25/07	
2,4,6-Trichlorophenol	EPA 625	7B21110	3.1	21	ND	1.03	02/21/07	02/25/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	7B21110	2.1	21	ND	1.03	02/21/07	02/25/07	
N-Nitrosodimethylamine	EPA 625	7B21110	2.6	21	ND	1.03	02/21/07	02/25/07	
Surrogate: 2-Fluorophenol (30-120%)					62 %				
Surrogate: Phenol-d6 (35-120%)					65 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					83 %				
Surrogate: Nitrobenzene-d5 (40-120%)					70 %				
Surrogate: 2-Fluorobiphenyl (45-120%)					77 %				
Surrogate: Terphenyl-d14 (45-120%)					88 %				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	C-7
alpha-BHC	EPA 608	7B22132	0.019	0.095	ND	0.952	02/22/07	02/25/07	
beta-BHC	EPA 608	7B22132	0.038	0.095	ND	0.952	02/22/07	02/25/07	
delta-BHC	EPA 608	7B22132	0.019	0.19	ND	0.952	02/22/07	02/25/07	
gamma-BHC (Lindane)	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Chlordane	EPA 608	7B22132	0.19	0.95	ND	0.952	02/22/07	02/25/07	
4,4'-DDD	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
4,4'-DDE	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
4,4'-DDT	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	C-7
Dieldrin	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Endosulfan I	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Endosulfan II	EPA 608	7B22132	0.038	0.095	ND	0.952	02/22/07	02/25/07	
Endosulfan sulfate	EPA 608	7B22132	0.048	0.19	ND	0.952	02/22/07	02/25/07	
Endrin	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Endrin aldehyde	EPA 608	7B22132	0.048	0.095	ND	0.952	02/22/07	02/25/07	
Endrin ketone	EPA 608	7B22132	0.038	0.095	ND	0.952	02/22/07	02/25/07	
Heptachlor	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Heptachlor epoxide	EPA 608	7B22132	0.029	0.095	ND	0.952	02/22/07	02/25/07	
Methoxychlor	EPA 608	7B22132	0.038	0.095	ND	0.952	02/22/07	02/25/07	C-7
Toxaphene	EPA 608	7B22132	1.4	4.8	ND	0.952	02/22/07	02/25/07	
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>					60 %				
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					76 %				

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7B22132	0.33	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1221	EPA 608	7B22132	0.095	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1232	EPA 608	7B22132	0.24	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1242	EPA 608	7B22132	0.24	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1248	EPA 608	7B22132	0.24	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1254	EPA 608	7B22132	0.24	0.95	ND	0.952	02/22/07	02/23/07	
Aroclor 1260	EPA 608	7B22132	0.29	0.95	ND	0.952	02/22/07	02/23/07	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					95 %				

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Received: 02/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	7B21063	0.020	0.050	0.21	1	02/21/07	02/21/07	B
Iron	EPA 200.7	7B21063	0.015	0.040	0.42	1	02/21/07	02/21/07	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7	7B21063	40	50	410	1	02/21/07	02/21/07	
Antimony	EPA 200.8	7B21137	0.050	2.0	0.49	1	02/21/07	02/21/07	J
Arsenic	EPA 200.7	7B21063	7.0	10	ND	1	02/21/07	02/21/07	
Beryllium	EPA 200.7	7B21063	0.90	2.0	ND	1	02/21/07	02/21/07	
Cadmium	EPA 200.8	7B21137	0.025	1.0	0.056	1	02/21/07	02/21/07	B, J
Chromium	EPA 200.7	7B21063	2.0	5.0	ND	1	02/21/07	02/21/07	
Copper	EPA 200.8	7B21137	0.25	2.0	3.7	1	02/21/07	02/21/07	
Lead	EPA 200.8	7B21137	0.040	1.0	1.7	1	02/21/07	02/21/07	
Nickel	EPA 200.7	7B21063	2.0	10	ND	1	02/21/07	02/21/07	
Selenium	EPA 200.7	7B21063	8.0	10	ND	1	02/21/07	02/21/07	
Silver	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	
Thallium	EPA 200.8	7B21137	0.15	1.0	ND	1	02/21/07	02/21/07	
Vanadium	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	
Zinc	EPA 200.7	7B21063	15	20	51	1	02/21/07	02/21/07	

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Received: 02/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	7B22143	0.040	0.050	ND	1	02/22/07	02/23/07	
Arsenic	EPA 200.7-Diss	7B22143	0.0070	0.010	ND	1	02/22/07	02/23/07	
Beryllium	EPA 200.7-Diss	7B22143	0.00090	0.0020	ND	1	02/22/07	02/23/07	
Boron	EPA 200.7-Diss	7B22143	0.020	0.050	0.21	1	02/22/07	02/23/07	B
Chromium	EPA 200.7-Diss	7B22143	0.0020	0.0050	ND	1	02/22/07	02/23/07	
Iron	EPA 200.7-Diss	7B22143	0.015	0.040	0.026	1	02/22/07	02/23/07	J
Nickel	EPA 200.7-Diss	7B22143	0.0020	0.010	0.0023	1	02/22/07	02/23/07	J
Selenium	EPA 200.7-Diss	7B22143	0.0080	0.010	ND	1	02/22/07	02/23/07	
Hardness (as CaCO3)	SM2340B	7B22143	1.0	1.0	91	1	02/22/07	02/23/07	
Silver	EPA 200.7-Diss	7B22143	0.0060	0.010	ND	1	02/22/07	02/23/07	
Vanadium	EPA 200.7-Diss	7B22143	0.0030	0.010	ND	1	02/22/07	02/23/07	
Zinc	EPA 200.7-Diss	7B22143	0.0040	0.020	ND	1	02/22/07	02/23/07	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7B23073	0.050	2.0	0.48	1	02/23/07	02/23/07	J
Cadmium	EPA 200.8-Diss	7B23073	0.050	1.0	ND	1	02/23/07	02/23/07	
Copper	EPA 200.8-Diss	7B23073	0.40	2.0	2.1	1	02/23/07	02/23/07	
Lead	EPA 200.8-Diss	7B23073	0.10	1.0	0.15	1	02/23/07	02/23/07	J
Thallium	EPA 200.8-Diss	7B23073	0.15	1.0	ND	1	02/23/07	02/23/07	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B20044	0.15	0.50	13	1	02/20/07	02/20/07	
Fluoride	EPA 300.0	7B20044	0.15	0.50	0.40	1	02/20/07	02/20/07	J
Hardness (as CaCO ₃)	SM2340B	7B21063	1.0	1.0	98	1	02/21/07	02/21/07	
Nitrate/Nitrite-N	EPA 300.0	7B20044	0.080	0.15	0.55	1	02/20/07	02/20/07	
Oil & Grease	EPA 413.1	7B28085	0.89	4.7	ND	1	02/28/07	02/28/07	
Sulfate	EPA 300.0	7B20044	0.45	0.50	44	1	02/20/07	02/20/07	
Total Dissolved Solids	SM2540C	7B23078	10	10	270	1	02/23/07	02/23/07	
Total Suspended Solids	EPA 160.2	7B21150	10	10	12	1	02/21/07	02/22/07	

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Received: 02/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2021-01 (Outfall 009 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7B23104	2.2	5.0	2.2	1	02/23/07	02/23/07	J
Perchlorate	EPA 314.0	7B27143	0.80	4.0	ND	1	02/27/07	02/28/07	

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Received: 02/19/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 009 (IQB2021-01) - Water					
EPA 300.0	2	02/19/2007 09:30	02/19/2007 18:55	02/20/2007 15:00	02/20/2007 15:17
EPA 624	3	02/19/2007 09:30	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 11:40
Sample ID: Trip Blank (IQB2021-02) - Water					
EPA 624	3	02/19/2007 09:30	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 09:37

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009
 Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21011-BLK1)											
Benzene	ND	1.0	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							
Carbon tetrachloride	ND	0.50	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	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	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	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	1.5	ug/l							
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89	80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97	80-120			

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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: 7B21011 Extracted: 02/21/07											
LCS Analyzed: 02/21/2007 (7B21011-BS1)											
Benzene	24.4	1.0	0.28	ug/l	25.0		98	70-120			
Bromodichloromethane	24.9	2.0	0.30	ug/l	25.0		100	70-135			
Bromoform	22.8	5.0	0.40	ug/l	25.0		91	55-130			
Bromomethane	25.5	5.0	0.42	ug/l	25.0		102	65-140			
Carbon tetrachloride	23.3	0.50	0.28	ug/l	25.0		93	65-140			
Chlorobenzene	24.8	2.0	0.36	ug/l	25.0		99	75-120			
Chloroethane	21.6	5.0	0.40	ug/l	25.0		86	60-140			
Chloroform	23.5	2.0	0.33	ug/l	25.0		94	70-130			
Chloromethane	30.5	5.0	0.40	ug/l	25.0		122	50-140			
Dibromochloromethane	26.8	2.0	0.28	ug/l	25.0		107	70-140			
1,2-Dichlorobenzene	25.3	2.0	0.32	ug/l	25.0		101	75-120			
1,3-Dichlorobenzene	25.3	2.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	24.8	2.0	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	23.5	2.0	0.27	ug/l	25.0		94	70-125			
1,2-Dichloroethane	25.0	0.50	0.28	ug/l	25.0		100	60-140			
1,1-Dichloroethene	23.3	5.0	0.42	ug/l	25.0		93	70-125			
trans-1,2-Dichloroethene	24.4	2.0	0.27	ug/l	25.0		98	70-125			
1,2-Dichloropropane	25.6	2.0	0.35	ug/l	25.0		102	70-125			
cis-1,3-Dichloropropene	24.1	2.0	0.22	ug/l	25.0		96	75-125			
trans-1,3-Dichloropropene	24.7	2.0	0.32	ug/l	25.0		99	70-125			
Ethylbenzene	25.8	2.0	0.25	ug/l	25.0		103	75-125			
Methylene chloride	21.4	5.0	0.95	ug/l	25.0		86	55-130			
1,1,2,2-Tetrachloroethane	27.4	2.0	0.24	ug/l	25.0		110	55-130			
Tetrachloroethene	22.4	2.0	0.32	ug/l	25.0		90	70-125			
Toluene	25.4	2.0	0.36	ug/l	25.0		102	70-120			
1,1,1-Trichloroethane	23.1	2.0	0.30	ug/l	25.0		92	65-135			
1,1,2-Trichloroethane	26.5	2.0	0.30	ug/l	25.0		106	70-125			
Trichloroethene	24.6	2.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	23.0	5.0	0.34	ug/l	25.0		92	65-145			
Vinyl chloride	26.6	0.50	0.30	ug/l	25.0		106	55-135			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107	80-120			

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Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1)						Source: IQB2021-01					
Benzene	33.0	1.0	0.28	ug/l	25.0	ND	132	65-125			MI
Bromodichloromethane	34.1	2.0	0.30	ug/l	25.0	ND	136	70-135			MI
Bromoform	28.1	5.0	0.40	ug/l	25.0	ND	112	55-135			
Bromomethane	38.2	5.0	0.42	ug/l	25.0	ND	153	55-145			MI
Carbon tetrachloride	34.0	0.50	0.28	ug/l	25.0	ND	136	65-140			
Chlorobenzene	33.2	2.0	0.36	ug/l	25.0	ND	133	75-125			MI
Chloroethane	32.6	5.0	0.40	ug/l	25.0	ND	130	55-140			
Chloroform	33.4	2.0	0.33	ug/l	25.0	ND	134	65-135			
Chloromethane	43.7	5.0	0.40	ug/l	25.0	ND	175	45-145			MI
Dibromochloromethane	35.3	2.0	0.28	ug/l	25.0	ND	141	65-140			MI
1,2-Dichlorobenzene	32.8	2.0	0.32	ug/l	25.0	ND	131	75-125			MI
1,3-Dichlorobenzene	33.2	2.0	0.35	ug/l	25.0	ND	133	75-125			MI
1,4-Dichlorobenzene	32.2	2.0	0.37	ug/l	25.0	ND	129	75-125			MI
1,1-Dichloroethane	33.3	2.0	0.27	ug/l	25.0	ND	133	65-130			MI
1,2-Dichloroethane	32.9	0.50	0.28	ug/l	25.0	ND	132	60-140			
1,1-Dichloroethene	31.0	5.0	0.42	ug/l	25.0	ND	124	60-130			
trans-1,2-Dichloroethene	33.8	2.0	0.27	ug/l	25.0	ND	135	65-130			MI
1,2-Dichloropropane	34.0	2.0	0.35	ug/l	25.0	ND	136	65-130			MI
cis-1,3-Dichloropropene	31.4	2.0	0.22	ug/l	25.0	ND	126	70-130			
trans-1,3-Dichloropropene	31.2	2.0	0.32	ug/l	25.0	ND	125	65-135			
Ethylbenzene	34.9	2.0	0.25	ug/l	25.0	ND	140	65-130			MI
Methylene chloride	30.2	5.0	0.95	ug/l	25.0	ND	121	50-135			
1,1,2,2-Tetrachloroethane	31.6	2.0	0.24	ug/l	25.0	ND	126	55-135			
Tetrachloroethene	30.2	2.0	0.32	ug/l	25.0	ND	121	65-130			
Toluene	34.1	2.0	0.36	ug/l	25.0	ND	136	70-125			MI
1,1,1-Trichloroethane	33.9	2.0	0.30	ug/l	25.0	ND	136	65-140			
1,1,2-Trichloroethane	32.8	2.0	0.30	ug/l	25.0	ND	131	65-130			MI
Trichloroethene	33.6	2.0	0.26	ug/l	25.0	ND	134	65-125			MI
Trichlorofluoromethane	34.6	5.0	0.34	ug/l	25.0	ND	138	60-145			
Vinyl chloride	40.4	0.50	0.30	ug/l	25.0	ND	162	45-140			MI
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Annual Outfall 009
Report Number: IQB2021

Sampled: 02/19/07
Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1)						Source: IQB2021-01					
Benzene	28.9	1.0	0.28	ug/l	25.0	ND	116	65-125	13	20	
Bromodichloromethane	29.9	2.0	0.30	ug/l	25.0	ND	120	70-135	13	20	
Bromoform	25.6	5.0	0.40	ug/l	25.0	ND	102	55-135	9	25	
Bromomethane	33.5	5.0	0.42	ug/l	25.0	ND	134	55-145	13	25	
Carbon tetrachloride	29.7	0.50	0.28	ug/l	25.0	ND	119	65-140	14	25	
Chlorobenzene	29.5	2.0	0.36	ug/l	25.0	ND	118	75-125	12	20	
Chloroethane	28.8	5.0	0.40	ug/l	25.0	ND	115	55-140	12	25	
Chloroform	29.4	2.0	0.33	ug/l	25.0	ND	118	65-135	13	20	
Chloromethane	39.2	5.0	0.40	ug/l	25.0	ND	157	45-145	11	25	MI
Dibromochloromethane	31.8	2.0	0.28	ug/l	25.0	ND	127	65-140	10	25	
1,2-Dichlorobenzene	30.5	2.0	0.32	ug/l	25.0	ND	122	75-125	7	20	
1,3-Dichlorobenzene	30.1	2.0	0.35	ug/l	25.0	ND	120	75-125	10	20	
1,4-Dichlorobenzene	29.4	2.0	0.37	ug/l	25.0	ND	118	75-125	9	20	
1,1-Dichloroethane	29.5	2.0	0.27	ug/l	25.0	ND	118	65-130	12	20	
1,2-Dichloroethane	29.3	0.50	0.28	ug/l	25.0	ND	117	60-140	12	20	
1,1-Dichloroethene	28.0	5.0	0.42	ug/l	25.0	ND	112	60-130	10	20	
trans-1,2-Dichloroethene	29.8	2.0	0.27	ug/l	25.0	ND	119	65-130	13	20	
1,2-Dichloropropane	30.2	2.0	0.35	ug/l	25.0	ND	121	65-130	12	20	
cis-1,3-Dichloropropene	27.7	2.0	0.22	ug/l	25.0	ND	111	70-130	13	20	
trans-1,3-Dichloropropene	27.8	2.0	0.32	ug/l	25.0	ND	111	65-135	12	25	
Ethylbenzene	30.7	2.0	0.25	ug/l	25.0	ND	123	65-130	13	20	
Methylene chloride	26.6	5.0	0.95	ug/l	25.0	ND	106	50-135	13	20	
1,1,2,2-Tetrachloroethane	30.7	2.0	0.24	ug/l	25.0	ND	123	55-135	3	30	
Tetrachloroethene	26.6	2.0	0.32	ug/l	25.0	ND	106	65-130	13	20	
Toluene	29.8	2.0	0.36	ug/l	25.0	ND	119	70-125	13	20	
1,1,1-Trichloroethane	30.0	2.0	0.30	ug/l	25.0	ND	120	65-140	12	20	
1,1,2-Trichloroethane	29.4	2.0	0.30	ug/l	25.0	ND	118	65-130	11	25	
Trichloroethene	29.1	2.0	0.26	ug/l	25.0	ND	116	65-125	14	20	
Trichlorofluoromethane	30.4	5.0	0.34	ug/l	25.0	ND	122	60-145	13	25	
Vinyl chloride	35.3	0.50	0.30	ug/l	25.0	ND	141	45-140	13	30	MI
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.1			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009

Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21011 Extracted: 02/21/07										
Blank Analyzed: 02/21/2007 (7B21011-BLK1)										
Acrolein	ND	50	4.6	ug/l						
Acrylonitrile	ND	50	0.70	ug/l						
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l						
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89		80-120	
Surrogate: Toluene-d8	25.0			ug/l	25.0		100		80-120	
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97		80-120	
LCS Analyzed: 02/21/2007 (7B21011-BS1)										
2-Chloroethyl vinyl ether	24.0	5.0	1.8	ug/l	25.0		96		25-170	
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100		80-120	
Surrogate: Toluene-d8	25.5			ug/l	25.0		102		80-120	
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107		80-120	
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1) Source: IQB2021-01										
2-Chloroethyl vinyl ether	27.2	5.0	1.8	ug/l	25.0	ND	109		25-170	
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106		80-120	
Surrogate: Toluene-d8	25.5			ug/l	25.0		102		80-120	
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108		80-120	
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1) Source: IQB2021-01										
2-Chloroethyl vinyl ether	24.8	5.0	1.8	ug/l	25.0	ND	99	9	25-170	25
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106		80-120	
Surrogate: Toluene-d8	25.1			ug/l	25.0		100		80-120	
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105		80-120	

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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	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Acenaphthene	ND	10	2.0	ug/l							
Acenaphthylene	ND	10	2.0	ug/l							
Aniline	ND	10	2.5	ug/l							
Anthracene	ND	10	2.0	ug/l							
Benzidine	ND	20	8.5	ug/l							
Benzoic acid	ND	20	8.5	ug/l							
Benzo(a)anthracene	ND	10	2.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.0	ug/l							
Benzo(g,h,i)perylene	ND	10	3.0	ug/l							
Benzo(a)pyrene	ND	10	2.0	ug/l							
Benzyl alcohol	ND	20	2.5	ug/l							
Bis(2-chloroethoxy)methane	ND	10	2.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	2.5	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
4-Bromophenyl phenyl ether	ND	10	2.5	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
2-Chloronaphthalene	ND	10	2.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.0	ug/l							
2-Chlorophenol	ND	10	2.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.0	ug/l							
Chrysene	ND	10	2.0	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	2.0	ug/l							
Di-n-butyl phthalate	ND	20	2.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
3,3-Dichlorobenzidine	ND	20	3.0	ug/l							
2,4-Dichlorophenol	ND	10	2.0	ug/l							
Diethyl phthalate	ND	10	2.0	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.0	ug/l							

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009
 Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

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	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l							
2,4-Dinitrophenol	ND	20	4.5	ug/l							
2,4-Dinitrotoluene	ND	10	2.0	ug/l							
2,6-Dinitrotoluene	ND	10	2.0	ug/l							
Di-n-octyl phthalate	ND	20	2.0	ug/l							
Fluoranthene	ND	10	2.0	ug/l							
Fluorene	ND	10	2.0	ug/l							
Hexachlorobenzene	ND	10	2.5	ug/l							
Hexachlorobutadiene	ND	10	3.5	ug/l							
Hexachlorocyclopentadiene	ND	20	5.0	ug/l							
Hexachloroethane	ND	10	3.0	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	3.0	ug/l							
Isophorone	ND	10	2.0	ug/l							
2-Methylnaphthalene	ND	10	2.0	ug/l							
2-Methylphenol	ND	10	2.0	ug/l							
4-Methylphenol	ND	10	2.0	ug/l							
Naphthalene	ND	10	2.5	ug/l							
2-Nitroaniline	ND	20	2.0	ug/l							
3-Nitroaniline	ND	20	2.0	ug/l							
4-Nitroaniline	ND	20	2.5	ug/l							
Nitrobenzene	ND	20	2.5	ug/l							
2-Nitrophenol	ND	10	3.5	ug/l							
4-Nitrophenol	ND	20	5.5	ug/l							
N-Nitrosodiphenylamine	ND	10	2.0	ug/l							
N-Nitroso-di-n-propylamine	ND	10	2.5	ug/l							
Pentachlorophenol	ND	20	3.5	ug/l							
Phenanthrene	ND	10	2.0	ug/l							
Phenol	ND	10	2.0	ug/l							
Pyrene	ND	10	2.0	ug/l							
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l							
2,4,5-Trichlorophenol	ND	20	3.0	ug/l							
2,4,6-Trichlorophenol	ND	20	3.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.0	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2-Fluorophenol	148			ug/l	200		74			30-120	

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 Michele Chamberlin
 Project Manager

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300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

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Report Number: IQB2021

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Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Surrogate: Phenol-d6	156			ug/l	200		78	35-120			
Surrogate: 2,4,6-Tribromophenol	202			ug/l	200		101	40-120			
Surrogate: Nitrobenzene-d5	83.6			ug/l	100		84	40-120			
Surrogate: 2-Fluorobiphenyl	85.9			ug/l	100		86	45-120			
Surrogate: Terphenyl-d14	97.3			ug/l	100		97	45-120			
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
Acenaphthene	80.7	10	2.0	ug/l	100		81	55-120			MNRI
Acenaphthylene	87.1	10	2.0	ug/l	100		87	60-120			
Aniline	73.3	10	2.5	ug/l	100		73	40-120			
Anthracene	86.7	10	2.0	ug/l	100		87	60-120			
Benzidine	153	20	8.5	ug/l	100		153	25-160			
Benzoic acid	72.2	20	8.5	ug/l	100		72	25-120			
Benzo(a)anthracene	87.0	10	2.0	ug/l	100		87	60-120			
Benzo(b)fluoranthene	110	10	2.0	ug/l	100		110	55-125			
Benzo(k)fluoranthene	108	10	2.0	ug/l	100		108	50-125			
Benzo(g,h,i)perylene	119	10	3.0	ug/l	100		119	45-130			
Benzo(a)pyrene	114	10	2.0	ug/l	100		114	55-125			
Benzyl alcohol	72.7	20	2.5	ug/l	100		73	50-120			
Bis(2-chloroethoxy)methane	82.7	10	2.0	ug/l	100		83	55-120			
Bis(2-chloroethyl)ether	67.1	10	2.5	ug/l	100		67	50-120			
Bis(2-chloroisopropyl)ether	68.0	10	2.5	ug/l	100		68	45-120			
Bis(2-ethylhexyl)phthalate	83.3	50	4.0	ug/l	100		83	60-125			
4-Bromophenyl phenyl ether	83.0	10	2.5	ug/l	100		83	55-120			
Butyl benzyl phthalate	82.3	20	4.0	ug/l	100		82	50-125			
4-Chloroaniline	79.5	10	2.0	ug/l	100		80	50-120			
2-Chloronaphthalene	81.7	10	2.0	ug/l	100		82	55-120			
4-Chloro-3-methylphenol	79.8	20	2.0	ug/l	100		80	55-120			
2-Chlorophenol	67.5	10	2.0	ug/l	100		68	45-120			
4-Chlorophenyl phenyl ether	82.3	10	2.0	ug/l	100		82	60-120			
Chrysene	90.2	10	2.0	ug/l	100		90	60-120			
Dibenz(a,h)anthracene	122	20	3.0	ug/l	100		122	50-135			
Dibenzofuran	84.0	10	2.0	ug/l	100		84	60-120			
Di-n-butyl phthalate	84.1	20	2.0	ug/l	100		84	55-125			
1,3-Dichlorobenzene	50.4	10	3.0	ug/l	100		50	35-120			
1,4-Dichlorobenzene	51.4	10	2.5	ug/l	100		51	35-120			

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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	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2-Dichlorobenzene	54.4	10	3.0	ug/l	100	54	40-120				MNRI
3,3-Dichlorobenzidine	74.5	20	3.0	ug/l	100	74	50-135				
2,4-Dichlorophenol	79.7	10	2.0	ug/l	100	80	50-120				
Diethyl phthalate	79.1	10	2.0	ug/l	100	79	50-120				
2,4-Dimethylphenol	70.9	20	3.5	ug/l	100	71	35-120				
Dimethyl phthalate	79.5	10	2.0	ug/l	100	80	25-120				
4,6-Dinitro-2-methylphenol	91.6	20	4.0	ug/l	100	92	40-120				
2,4-Dinitrophenol	102	20	4.5	ug/l	100	102	35-120				
2,4-Dinitrotoluene	83.6	10	2.0	ug/l	100	84	60-120				
2,6-Dinitrotoluene	80.2	10	2.0	ug/l	100	80	60-120				
Di-n-octyl phthalate	81.9	20	2.0	ug/l	100	82	60-130				
Fluoranthene	88.6	10	2.0	ug/l	100	89	55-120				
Fluorene	86.1	10	2.0	ug/l	100	86	60-120				
Hexachlorobenzene	84.2	10	2.5	ug/l	100	84	55-120				
Hexachlorobutadiene	60.9	10	3.5	ug/l	100	61	40-120				
Hexachlorocyclopentadiene	66.6	20	5.0	ug/l	100	67	20-120				
Hexachloroethane	47.0	10	3.0	ug/l	100	47	35-120				
Indeno(1,2,3-cd)pyrene	113	20	3.0	ug/l	100	113	45-135				
Isophorone	67.8	10	2.0	ug/l	100	68	50-120				
2-Methylnaphthalene	72.7	10	2.0	ug/l	100	73	50-120				
2-Methylphenol	69.6	10	2.0	ug/l	100	70	50-120				
4-Methylphenol	72.7	10	2.0	ug/l	100	73	45-120				
Naphthalene	68.9	10	2.5	ug/l	100	69	50-120				
2-Nitroaniline	90.3	20	2.0	ug/l	100	90	60-120				
3-Nitroaniline	85.3	20	2.0	ug/l	100	85	55-120				
4-Nitroaniline	88.8	20	2.5	ug/l	100	89	50-125				
Nitrobenzene	70.0	20	2.5	ug/l	100	70	50-120				
2-Nitrophenol	77.1	10	3.5	ug/l	100	77	45-120				
4-Nitrophenol	88.4	20	5.5	ug/l	100	88	40-120				
N-Nitrosodiphenylamine	79.2	10	2.0	ug/l	100	79	55-120				
N-Nitroso-di-n-propylamine	68.1	10	2.5	ug/l	100	68	45-120				
Pentachlorophenol	104	20	3.5	ug/l	100	104	45-125				
Phenanthrene	87.3	10	2.0	ug/l	100	87	60-120				
Phenol	69.0	10	2.0	ug/l	100	69	45-120				
Pyrene	92.1	10	2.0	ug/l	100	92	50-125				

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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	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2,4-Trichlorobenzene	63.4	10	2.5	ug/l	100	63	45-120				MNRI
2,4,5-Trichlorophenol	84.8	20	3.0	ug/l	100	85	50-120				
2,4,6-Trichlorophenol	86.2	20	3.0	ug/l	100	86	50-120				
1,2-Diphenylhydrazine/Azobenzene	76.2	20	2.0	ug/l	100	76	55-120				
N-Nitrosodimethylamine	63.3	20	2.5	ug/l	100	63	40-120				
Surrogate: 2-Fluorophenol	123			ug/l	200	62	30-120				
Surrogate: Phenol-d6	134			ug/l	200	67	35-120				
Surrogate: 2,4,6-Tribromophenol	185			ug/l	200	92	40-120				
Surrogate: Nitrobenzene-d5	72.0			ug/l	100	72	40-120				
Surrogate: 2-Fluorobiphenyl	81.3			ug/l	100	81	45-120				
Surrogate: Terphenyl-d14	89.0			ug/l	100	89	45-120				
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Acenaphthene	93.8	10	2.0	ug/l	100	94	55-120	15	20		
Acenaphthylene	104	10	2.0	ug/l	100	104	60-120	18	20		
Aniline	77.9	10	2.5	ug/l	100	78	40-120	6	30		
Anthracene	97.5	10	2.0	ug/l	100	98	60-120	12	20		
Benzidine	178	20	8.5	ug/l	100	178	25-160	15	35		L
Benzoic acid	75.5	20	8.5	ug/l	100	76	25-120	4	30		
Benzo(a)anthracene	95.3	10	2.0	ug/l	100	95	60-120	9	20		
Benzo(b)fluoranthene	119	10	2.0	ug/l	100	119	55-125	8	25		
Benzo(k)fluoranthene	118	10	2.0	ug/l	100	118	50-125	9	20		
Benzo(g,h,i)perylene	133	10	3.0	ug/l	100	133	45-130	11	25		L
Benzo(a)pyrene	125	10	2.0	ug/l	100	125	55-125	9	25		
Benzyl alcohol	84.3	20	2.5	ug/l	100	84	50-120	15	20		
Bis(2-chloroethoxy)methane	98.7	10	2.0	ug/l	100	99	55-120	18	20		
Bis(2-chloroethyl)ether	80.5	10	2.5	ug/l	100	80	50-120	18	20		
Bis(2-chloroisopropyl)ether	80.3	10	2.5	ug/l	100	80	45-120	17	20		
Bis(2-ethylhexyl)phthalate	89.2	50	4.0	ug/l	100	89	60-125	7	20		
4-Bromophenyl phenyl ether	95.3	10	2.5	ug/l	100	95	55-120	14	25		
Butyl benzyl phthalate	89.2	20	4.0	ug/l	100	89	50-125	8	20		
4-Chloroaniline	92.5	10	2.0	ug/l	100	92	50-120	15	25		
2-Chloronaphthalene	97.1	10	2.0	ug/l	100	97	55-120	17	20		
4-Chloro-3-methylphenol	88.8	20	2.0	ug/l	100	89	55-120	11	25		
2-Chlorophenol	80.6	10	2.0	ug/l	100	81	45-120	18	25		
4-Chlorophenyl phenyl ether	92.5	10	2.0	ug/l	100	92	60-120	12	20		

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Attention: Bronwyn Kelly

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Report Number: IQB2021

Sampled: 02/19/07

Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Chrysene	98.6	10	2.0	ug/l	100	99	60-120	9	20		
Dibenz(a,h)anthracene	134	20	3.0	ug/l	100	134	50-135	9	25		
Dibenzofuran	96.1	10	2.0	ug/l	100	96	60-120	13	20		
Di-n-butyl phthalate	87.9	20	2.0	ug/l	100	88	55-125	4	20		
1,3-Dichlorobenzene	60.3	10	3.0	ug/l	100	60	35-120	18	25		
1,4-Dichlorobenzene	62.2	10	2.5	ug/l	100	62	35-120	19	25		
1,2-Dichlorobenzene	64.9	10	3.0	ug/l	100	65	40-120	18	25		
3,3-Dichlorobenzidine	97.3	20	3.0	ug/l	100	97	50-135	27	25		R-7
2,4-Dichlorophenol	97.1	10	2.0	ug/l	100	97	50-120	20	20		
Diethyl phthalate	85.8	10	2.0	ug/l	100	86	50-120	8	30		
2,4-Dimethylphenol	78.8	20	3.5	ug/l	100	79	35-120	11	25		
Dimethyl phthalate	87.3	10	2.0	ug/l	100	87	25-120	9	30		
4,6-Dinitro-2-methylphenol	97.4	20	4.0	ug/l	100	97	40-120	6	25		
2,4-Dinitrophenol	106	20	4.5	ug/l	100	106	35-120	4	25		
2,4-Dinitrotoluene	86.5	10	2.0	ug/l	100	86	60-120	3	20		
2,6-Dinitrotoluene	87.5	10	2.0	ug/l	100	88	60-120	9	20		
Di-n-octyl phthalate	90.9	20	2.0	ug/l	100	91	60-130	10	20		
Fluoranthene	98.3	10	2.0	ug/l	100	98	55-120	10	20		
Fluorene	96.0	10	2.0	ug/l	100	96	60-120	11	20		
Hexachlorobenzene	97.3	10	2.5	ug/l	100	97	55-120	14	20		
Hexachlorobutadiene	78.5	10	3.5	ug/l	100	78	40-120	25	25		
Hexachlorocyclopentadiene	85.6	20	5.0	ug/l	100	86	20-120	25	30		
Hexachloroethane	56.8	10	3.0	ug/l	100	57	35-120	19	25		
Indeno(1,2,3-cd)pyrene	123	20	3.0	ug/l	100	123	45-135	8	25		
Isophorone	78.1	10	2.0	ug/l	100	78	50-120	14	20		
2-Methylnaphthalene	86.3	10	2.0	ug/l	100	86	50-120	17	20		
2-Methylphenol	82.6	10	2.0	ug/l	100	83	50-120	17	20		
4-Methylphenol	80.4	10	2.0	ug/l	100	80	45-120	10	20		
Naphthalene	84.6	10	2.5	ug/l	100	85	50-120	20	20		
2-Nitroaniline	103	20	2.0	ug/l	100	103	60-120	13	20		
3-Nitroaniline	93.8	20	2.0	ug/l	100	94	55-120	9	25		
4-Nitroaniline	92.2	20	2.5	ug/l	100	92	50-125	4	20		
Nitrobenzene	85.5	20	2.5	ug/l	100	86	50-120	20	25		
2-Nitrophenol	97.1	10	3.5	ug/l	100	97	45-120	23	25		
4-Nitrophenol	90.3	20	5.5	ug/l	100	90	40-120	2	30		

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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
Batch: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
N-Nitrosodiphenylamine	91.8	10	2.0	ug/l	100	92	55-120	15	20		
N-Nitroso-di-n-propylamine	75.3	10	2.5	ug/l	100	75	45-120	10	20		
Pentachlorophenol	111	20	3.5	ug/l	100	111	45-125	7	25		
Phenanthrene	98.1	10	2.0	ug/l	100	98	60-120	12	20		
Phenol	79.9	10	2.0	ug/l	100	80	45-120	15	25		
Pyrene	96.9	10	2.0	ug/l	100	97	50-125	5	25		
1,2,4-Trichlorobenzene	80.8	10	2.5	ug/l	100	81	45-120	24	20		R-7
2,4,5-Trichlorophenol	98.3	20	3.0	ug/l	100	98	50-120	15	30		
2,4,6-Trichlorophenol	100	20	3.0	ug/l	100	100	50-120	15	30		
1,2-Diphenylhydrazine/Azobenzene	91.0	20	2.0	ug/l	100	91	55-120	18	25		
N-Nitrosodimethylamine	76.9	20	2.5	ug/l	100	77	40-120	19	20		
Surrogate: 2-Fluorophenol	150			ug/l	200	75	30-120				
Surrogate: Phenol-d6	153			ug/l	200	76	35-120				
Surrogate: 2,4,6-Tribromophenol	205			ug/l	200	102	40-120				
Surrogate: Nitrobenzene-d5	88.3			ug/l	100	88	40-120				
Surrogate: 2-Fluorobiphenyl	95.7			ug/l	100	96	45-120				
Surrogate: Terphenyl-d14	93.3			ug/l	100	93	45-120				

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aldrin	ND	0.10	0.030	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	0.389			ug/l	0.500		78	35-115			
Surrogate: Decachlorobiphenyl	0.428			ug/l	0.500		86	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS1)											MNRI
Aldrin	0.361	0.10	0.030	ug/l	0.500		72	35-120			
alpha-BHC	0.403	0.10	0.020	ug/l	0.500		81	45-120			
beta-BHC	0.410	0.10	0.040	ug/l	0.500		82	50-120			
delta-BHC	0.408	0.20	0.020	ug/l	0.500		82	50-120			
gamma-BHC (Lindane)	0.396	0.10	0.030	ug/l	0.500		79	40-120			
4,4'-DDD	0.403	0.10	0.030	ug/l	0.500		81	55-120			
4,4'-DDE	0.384	0.10	0.030	ug/l	0.500		77	50-120			
4,4'-DDT	0.427	0.10	0.030	ug/l	0.500		85	55-120			
Dieldrin	0.376	0.10	0.030	ug/l	0.500		75	50-120			
Endosulfan I	0.402	0.10	0.030	ug/l	0.500		80	50-120			
Endosulfan II	0.422	0.10	0.040	ug/l	0.500		84	55-120			
Endosulfan sulfate	0.420	0.20	0.050	ug/l	0.500		84	60-120			

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
LCS Analyzed: 02/23/2007 (7B22132-BS1)											
Endrin	0.392	0.10	0.030	ug/l	0.500		78	55-120			MNR1
Endrin aldehyde	0.421	0.10	0.050	ug/l	0.500		84	55-120			
Endrin ketone	0.407	0.10	0.040	ug/l	0.500		81	55-120			
Heptachlor	0.391	0.10	0.030	ug/l	0.500		78	40-115			
Heptachlor epoxide	0.406	0.10	0.030	ug/l	0.500		81	50-120			
Methoxychlor	0.415	0.10	0.040	ug/l	0.500		83	55-120			
Surrogate: Tetrachloro-m-xylene	0.372			ug/l	0.500		74	35-115			
Surrogate: Decachlorobiphenyl	0.389			ug/l	0.500		78	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD1)											
Aldrin	0.339	0.10	0.030	ug/l	0.500		68	35-120	6	30	
alpha-BHC	0.376	0.10	0.020	ug/l	0.500		75	45-120	7	30	
beta-BHC	0.397	0.10	0.040	ug/l	0.500		79	50-120	3	30	
delta-BHC	0.393	0.20	0.020	ug/l	0.500		79	50-120	4	30	
gamma-BHC (Lindane)	0.377	0.10	0.030	ug/l	0.500		75	40-120	5	30	
4,4'-DDD	0.413	0.10	0.030	ug/l	0.500		83	55-120	2	30	
4,4'-DDE	0.383	0.10	0.030	ug/l	0.500		77	50-120	0	30	
4,4'-DDT	0.419	0.10	0.030	ug/l	0.500		84	55-120	2	30	
Dieldrin	0.369	0.10	0.030	ug/l	0.500		74	50-120	2	30	
Endosulfan I	0.391	0.10	0.030	ug/l	0.500		78	50-120	3	30	
Endosulfan II	0.409	0.10	0.040	ug/l	0.500		82	55-120	3	30	
Endosulfan sulfate	0.411	0.20	0.050	ug/l	0.500		82	60-120	2	30	
Endrin	0.377	0.10	0.030	ug/l	0.500		75	55-120	4	30	
Endrin aldehyde	0.410	0.10	0.050	ug/l	0.500		82	55-120	3	30	
Endrin ketone	0.403	0.10	0.040	ug/l	0.500		81	55-120	1	30	
Heptachlor	0.365	0.10	0.030	ug/l	0.500		73	40-115	7	30	
Heptachlor epoxide	0.384	0.10	0.030	ug/l	0.500		77	50-120	6	30	
Methoxychlor	0.406	0.10	0.040	ug/l	0.500		81	55-120	2	30	
Surrogate: Tetrachloro-m-xylene	0.345			ug/l	0.500		69	35-115			
Surrogate: Decachlorobiphenyl	0.392			ug/l	0.500		78	45-120			

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TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aroclor 1016	ND	1.0	0.35	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	0.531			ug/l	0.500		106	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS2)											
Aroclor 1016	3.53	1.0	0.35	ug/l	4.00		88	45-115			MNRI
Aroclor 1260	3.73	1.0	0.30	ug/l	4.00		93	55-115			
Surrogate: Decachlorobiphenyl	0.494			ug/l	0.500		99	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD2)											
Aroclor 1016	3.11	1.0	0.35	ug/l	4.00		78	45-115	13	30	
Aroclor 1260	3.49	1.0	0.30	ug/l	4.00		87	55-115	7	25	
Surrogate: Decachlorobiphenyl	0.485			ug/l	0.500		97	45-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21063 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21063-BLK1)											
Aluminum	ND	50	40	ug/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0216	0.050	0.020	mg/l							J
Calcium	0.0543	0.10	0.050	mg/l							J
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	3.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 02/21/2007 (7B21063-BS1)											
Aluminum	510	50	40	ug/l	500		102	85-115			
Arsenic	506	10	7.0	ug/l	500		101	85-115			
Beryllium	518	2.0	0.90	ug/l	500		104	85-115			
Boron	0.535	0.050	0.020	mg/l	0.500		107	85-115			
Calcium	2.64	0.10	0.050	mg/l	2.50		106	85-115			
Chromium	511	5.0	2.0	ug/l	500		102	85-115			
Iron	0.524	0.040	0.015	mg/l	0.500		105	85-115			
Magnesium	2.60	0.020	0.0080	mg/l	2.50		104	85-115			
Nickel	530	10	2.0	ug/l	500		106	85-115			
Selenium	511	10	8.0	ug/l	500		102	85-115			
Silver	262	10	3.0	ug/l	250		105	85-115			
Vanadium	519	10	3.0	ug/l	500		104	85-115			
Zinc	502	20	15	ug/l	500		100	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: 7B21063 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21063-MS1)						Source: IQB2022-01					
Aluminum	1110	50	40	ug/l	500	550	112	70-130			
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Beryllium	524	2.0	0.90	ug/l	500	ND	105	70-130			
Boron	0.593	0.050	0.020	mg/l	0.500	0.065	106	70-130			
Calcium	5.66	0.10	0.050	mg/l	2.50	3.2	98	70-130			
Chromium	524	5.0	2.0	ug/l	500	7.7	103	70-130			
Iron	1.12	0.040	0.015	mg/l	0.500	0.62	100	70-130			
Magnesium	3.07	0.020	0.0080	mg/l	2.50	0.44	105	70-130			
Nickel	535	10	2.0	ug/l	500	ND	107	70-130			
Selenium	526	10	8.0	ug/l	500	ND	105	70-130			
Silver	271	10	3.0	ug/l	250	ND	108	70-130			
Vanadium	574	10	3.0	ug/l	500	44	106	70-130			
Zinc	533	20	15	ug/l	500	ND	107	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21063-MSD1)						Source: IQB2022-01					
Aluminum	1120	50	40	ug/l	500	550	114	70-130	1	20	
Arsenic	525	10	7.0	ug/l	500	ND	105	70-130	3	20	
Beryllium	525	2.0	0.90	ug/l	500	ND	105	70-130	0	20	
Boron	0.588	0.050	0.020	mg/l	0.500	0.065	105	70-130	1	20	
Calcium	5.65	0.10	0.050	mg/l	2.50	3.2	98	70-130	0	20	
Chromium	515	5.0	2.0	ug/l	500	7.7	101	70-130	2	20	
Iron	1.10	0.040	0.015	mg/l	0.500	0.62	96	70-130	2	20	
Magnesium	2.98	0.020	0.0080	mg/l	2.50	0.44	102	70-130	3	20	
Nickel	525	10	2.0	ug/l	500	ND	105	70-130	2	20	
Selenium	526	10	8.0	ug/l	500	ND	105	70-130	0	20	
Silver	263	10	3.0	ug/l	250	ND	105	70-130	3	20	
Vanadium	567	10	3.0	ug/l	500	44	105	70-130	1	20	
Zinc	517	20	15	ug/l	500	ND	103	70-130	3	20	

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 009
 Report Number: IQB2021

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21137 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21137-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.135	1.0	0.025	ug/l							J
Copper	0.337	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 02/21/2007 (7B21137-BS1)											
Antimony	78.5	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	79.6	1.0	0.025	ug/l	80.0		100	85-115			
Copper	79.6	2.0	0.25	ug/l	80.0		100	85-115			
Lead	75.3	1.0	0.040	ug/l	80.0		94	85-115			
Thallium	76.0	1.0	0.15	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS1) Source: IQB2021-01											
Antimony	80.9	2.0	0.050	ug/l	80.0	0.49	101	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	0.056	100	70-130			
Copper	81.8	2.0	0.25	ug/l	80.0	3.7	98	70-130			
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130			
Thallium	77.2	1.0	0.15	ug/l	80.0	ND	96	70-130			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS2) Source: IQB2054-04											
Antimony	82.8	2.0	0.050	ug/l	80.0	0.15	103	70-130			
Cadmium	77.1	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	75.0	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	72.2	1.0	0.040	ug/l	80.0	0.13	90	70-130			
Thallium	72.9	1.0	0.15	ug/l	80.0	ND	91	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21137-MSD1) Source: IQB2021-01											
Antimony	79.9	2.0	0.050	ug/l	80.0	0.49	99	70-130	1	20	
Cadmium	78.8	1.0	0.025	ug/l	80.0	0.056	98	70-130	1	20	
Copper	81.5	2.0	0.25	ug/l	80.0	3.7	97	70-130	0	20	
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130	0	20	
Thallium	76.6	1.0	0.15	ug/l	80.0	ND	96	70-130	1	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22143 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22143-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Arsenic	ND	0.010	0.0070	mg/l							
Beryllium	ND	0.0020	0.00090	mg/l							
Boron	0.0243	0.050	0.020	mg/l							J
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	0.0050	0.0020	mg/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	ND	0.010	0.0020	mg/l							
Selenium	ND	0.010	0.0080	mg/l							
Silver	ND	0.010	0.0060	mg/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Vanadium	ND	0.010	0.0030	mg/l							
Zinc	ND	0.020	0.0040	mg/l							
LCS Analyzed: 02/23/2007 (7B22143-BS1)											
Aluminum	0.446	0.050	0.040	mg/l	0.500		89	85-115			
Arsenic	0.508	0.010	0.0070	mg/l	0.500		102	85-115			
Beryllium	0.511	0.0020	0.00090	mg/l	0.500		102	85-115			
Boron	0.500	0.050	0.020	mg/l	0.500		100	85-115			
Calcium	2.48	0.10	0.050	mg/l	2.50		99	85-115			
Chromium	0.500	0.0050	0.0020	mg/l	0.500		100	85-115			
Iron	0.507	0.040	0.015	mg/l	0.500		101	85-115			
Magnesium	2.50	0.020	0.0080	mg/l	2.50		100	85-115			
Nickel	0.503	0.010	0.0020	mg/l	0.500		101	85-115			
Selenium	0.494	0.010	0.0080	mg/l	0.500		99	85-115			
Silver	0.252	0.010	0.0060	mg/l	0.250		101	85-115			
Vanadium	0.506	0.010	0.0030	mg/l	0.500		101	85-115			
Zinc	0.485	0.020	0.0040	mg/l	0.500		97	85-115			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 7B22143 Extracted: 02/22/07

Matrix Spike Analyzed: 02/23/2007 (7B22143-MS1)

Source: IQB2022-01

Aluminum	0.483	0.050	0.040	mg/l	0.500	ND	97	70-130			
Arsenic	0.479	0.010	0.0070	mg/l	0.500	ND	96	70-130			
Beryllium	0.482	0.0020	0.00090	mg/l	0.500	ND	96	70-130			
Boron	0.535	0.050	0.020	mg/l	0.500	0.062	95	70-130			
Calcium	4.45	0.10	0.050	mg/l	2.50	2.1	94	70-130			
Chromium	0.470	0.0050	0.0020	mg/l	0.500	0.0046	93	70-130			
Iron	0.498	0.040	0.015	mg/l	0.500	0.027	94	70-130			
Magnesium	2.60	0.020	0.0080	mg/l	2.50	0.26	94	70-130			
Nickel	0.471	0.010	0.0020	mg/l	0.500	ND	94	70-130			
Selenium	0.462	0.010	0.0080	mg/l	0.500	ND	92	70-130			
Silver	0.247	0.010	0.0060	mg/l	0.250	ND	99	70-130			
Vanadium	0.509	0.010	0.0030	mg/l	0.500	0.037	94	70-130			
Zinc	0.473	0.020	0.0040	mg/l	0.500	0.0043	94	70-130			

Matrix Spike Dup Analyzed: 02/23/2007 (7B22143-MSD1)

Source: IQB2022-01

Aluminum	0.480	0.050	0.040	mg/l	0.500	ND	96	70-130	1	20
Arsenic	0.486	0.010	0.0070	mg/l	0.500	ND	97	70-130	1	20
Beryllium	0.490	0.0020	0.00090	mg/l	0.500	ND	98	70-130	2	20
Boron	0.530	0.050	0.020	mg/l	0.500	0.062	94	70-130	1	20
Calcium	4.49	0.10	0.050	mg/l	2.50	2.1	96	70-130	1	20
Chromium	0.475	0.0050	0.0020	mg/l	0.500	0.0046	94	70-130	1	20
Iron	0.505	0.040	0.015	mg/l	0.500	0.027	96	70-130	1	20
Magnesium	2.62	0.020	0.0080	mg/l	2.50	0.26	94	70-130	1	20
Nickel	0.474	0.010	0.0020	mg/l	0.500	ND	95	70-130	1	20
Selenium	0.470	0.010	0.0080	mg/l	0.500	ND	94	70-130	2	20
Silver	0.247	0.010	0.0060	mg/l	0.250	ND	99	70-130	0	20
Vanadium	0.513	0.010	0.0030	mg/l	0.500	0.037	95	70-130	1	20
Zinc	0.474	0.020	0.0040	mg/l	0.500	0.0043	94	70-130	0	20

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B23073 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23073-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.050	ug/l							
Copper	ND	2.0	0.40	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 02/23/2007 (7B23073-BS1)											
Antimony	84.3	2.0	0.050	ug/l	80.0		105	85-115			
Cadmium	81.9	1.0	0.050	ug/l	80.0		102	85-115			
Copper	80.6	2.0	0.40	ug/l	80.0		101	85-115			
Lead	81.0	1.0	0.10	ug/l	80.0		101	85-115			
Thallium	82.2	1.0	0.15	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 02/23/2007 (7B23073-MS1) Source: IQB2024-01											
Antimony	94.4	2.0	0.050	ug/l	80.0	1.7	116	70-130			
Cadmium	85.0	1.0	0.050	ug/l	80.0	ND	106	70-130			
Copper	82.7	2.0	0.40	ug/l	80.0	0.80	102	70-130			
Lead	73.9	1.0	0.10	ug/l	80.0	ND	92	70-130			
Thallium	77.9	1.0	0.15	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 02/23/2007 (7B23073-MSD1) Source: IQB2024-01											
Antimony	94.9	2.0	0.050	ug/l	80.0	1.7	116	70-130	1	20	
Cadmium	85.0	1.0	0.050	ug/l	80.0	ND	106	70-130	0	20	
Copper	83.2	2.0	0.40	ug/l	80.0	0.80	103	70-130	1	20	
Lead	75.0	1.0	0.10	ug/l	80.0	ND	94	70-130	1	20	
Thallium	79.0	1.0	0.15	ug/l	80.0	ND	99	70-130	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B20044 Extracted: 02/20/07											
Blank Analyzed: 02/20/2007 (7B20044-BLK1)											
Chloride	ND	0.50	0.15	mg/l							
Fluoride	ND	0.50	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 02/20/2007 (7B20044-BS1)											
Chloride	4.96	0.50	0.15	mg/l	5.00		99	90-110			
Fluoride	4.90	0.50	0.15	mg/l	5.00		98	90-110			
Sulfate	10.2	0.50	0.45	mg/l	10.0		102	90-110			
Matrix Spike Analyzed: 02/20/2007 (7B20044-MS1) Source: IQB2022-01											
Chloride	5.66	0.50	0.15	mg/l	5.00	0.73	99	80-120			
Fluoride	5.12	0.50	0.15	mg/l	5.00	0.27	97	80-120			
Sulfate	17.2	0.50	0.45	mg/l	10.0	7.2	100	80-120			
Matrix Spike Dup Analyzed: 02/20/2007 (7B20044-MSD1) Source: IQB2022-01											
Chloride	5.58	0.50	0.15	mg/l	5.00	0.73	97	80-120	1	20	
Fluoride	5.15	0.50	0.15	mg/l	5.00	0.27	98	80-120	1	20	
Sulfate	17.0	0.50	0.45	mg/l	10.0	7.2	98	80-120	1	20	
Batch: 7B21063 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21063-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 7B21150 Extracted: 02/21/07											
Blank Analyzed: 02/22/2007 (7B21150-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21150 Extracted: 02/21/07											
LCS Analyzed: 02/22/2007 (7B21150-BS1)											
Total Suspended Solids	955	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 02/22/2007 (7B21150-DUP1) Source: IQB2024-01											
Total Suspended Solids	29.0	10	10	mg/l		28			4	10	
Batch: 7B23078 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23078-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/23/2007 (7B23078-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 02/23/2007 (7B23078-DUP1) Source: IQB2134-01											
Total Dissolved Solids	307	10	10	mg/l		300			2	10	
Batch: 7B23104 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23104-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/23/2007 (7B23104-BS1)											
Total Cyanide	198	5.0	2.2	ug/l	200		99	90-110			
Matrix Spike Analyzed: 02/23/2007 (7B23104-MS1) Source: IQB2444-01											
Total Cyanide	442	10	4.4	ug/l	200	220	111	70-115			

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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: 7B23104 Extracted: 02/23/07											
Matrix Spike Dup Analyzed: 02/23/2007 (7B23104-MSD1)						Source: IQB2444-01					
Total Cyanide	431	10	4.4	ug/l	200	220	106	70-115	3	15	
Batch: 7B27143 Extracted: 02/27/07											
Blank Analyzed: 02/28/2007 (7B27143-BLK1)											
Perchlorate	ND	4.0	0.80	ug/l							
LCS Analyzed: 02/28/2007 (7B27143-BS1)											
Perchlorate	45.6	4.0	0.80	ug/l	50.0		91	85-115			
Matrix Spike Analyzed: 02/28/2007 (7B27143-MS1)						Source: IQB2091-01					
Perchlorate	47.8	4.0	0.80	ug/l	50.0	ND	96	80-120			
Matrix Spike Dup Analyzed: 02/28/2007 (7B27143-MSD1)						Source: IQB2091-01					
Perchlorate	45.8	4.0	0.80	ug/l	50.0	ND	92	80-120	4	20	
Batch: 7B28085 Extracted: 02/28/07											
Blank Analyzed: 02/28/2007 (7B28085-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 02/28/2007 (7B28085-BS1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120			MNRI
LCS Dup Analyzed: 02/28/2007 (7B28085-BSD1)											
Oil & Grease	19.3	5.0	0.94	mg/l	20.0		96	65-120	3	20	

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IQB2021-01	413.1 Oil and Grease	Oil & Grease	mg/l	0	4.7	15
IQB2021-01	Boron-200.7	Boron	mg/l	0.21	0.050	1.00
IQB2021-01	Boron-200.7, Diss	Boron	mg/l	0.21	0.050	1.00
IQB2021-01	Chloride - 300.0	Chloride	mg/l	13	0.50	150
IQB2021-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.55	0.15	10.00
IQB2021-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6.00
IQB2021-01	Sulfate-300.0	Sulfate	mg/l	44	0.50	250
IQB2021-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	270	10	850

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DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C-7** Calibration Verification recovery was below the method control limit due to matrix interference carried over from analytical samples. The matrix interference was confirmed by reanalysis with the same result.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. 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.
- R-7** LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	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	N/A	X
EPA 335.2	Water	X	X
EPA 413.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

Alta 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: IQB2021-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Acute 96hr
 Samples: IQB2021-01

Eberline Services

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gross Alpha
 Samples: IQB2021-01

Analysis Performed: Gross Beta
 Samples: IQB2021-01

TestAmerica - Irvine, CA

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Sampled: 02/19/07

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Weck Laboratories, Inc

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

Analysis Performed: Mercury - 245.1

Samples: IQB2021-01

Analysis Performed: Mercury - 245.1, Diss

Samples: IQB2021-01

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

IQB2021 <Page 43 of 43>

NPDES - 544



March 01, 2007

Alta Project I.D.: 28723

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on February 21, 2007 under your Project Name "IQB2021". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Alta 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 Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta 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 ALTA.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762
(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 2/21/2007

Alta Lab. ID

Client Sample ID

28723-001

IQB2021-01

SECTION II

Method Blank				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.	8883	Lab Sample:	0-MB001	Date Analyzed DB-5:	26-Feb-07
Sample Size:	1.00 L	Date Extracted:	23-Feb-07	Date Analyzed DB-225:	NA		
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.00000105			13C-2,3,7,8-TCDD	91.5	25 - 164
1,2,3,7,8-PeCDD	ND	0.000000997			13C-1,2,3,7,8-PeCDD	92.8	25 - 181
1,2,3,4,7,8-HxCDD	ND	0.00000193			13C-1,2,3,4,7,8-HxCDD	88.5	32 - 141
1,2,3,6,7,8-HxCDD	ND	0.00000213			13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130
1,2,3,7,8,9-HxCDD	ND	0.00000197			13C-1,2,3,4,6,7,8-HpCDD	94.2	23 - 140
1,2,3,4,6,7,8-HpCDD	0.00000272			J	13C-OCDD	73.0	17 - 157
OCDD	0.0000173			J	13C-2,3,7,8-TCDF	88.4	24 - 169
2,3,7,8-TCDF	ND	0.000000896			13C-1,2,3,7,8-PeCDF	105	24 - 185
1,2,3,7,8-PeCDF	ND	0.000000819			13C-2,3,4,7,8-PeCDF	97.6	21 - 178
2,3,4,7,8-PeCDF	ND	0.00000133			13C-1,2,3,4,7,8-HxCDF	93.2	26 - 152
1,2,3,4,7,8-HxCDF	ND	0.00000566			13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123
1,2,3,6,7,8-HxCDF	ND	0.000000620			13C-2,3,4,6,7,8-HxCDF	86.2	28 - 136
2,3,4,6,7,8-HxCDF	ND	0.000000687			13C-1,2,3,7,8,9-HxCDF	100	29 - 147
1,2,3,7,8,9-HxCDF	ND	0.000000895			13C-1,2,3,4,6,7,8-HpCDF	92.1	28 - 143
1,2,3,4,6,7,8-HpCDF	ND	0.00000194			13C-1,2,3,4,7,8,9-HpCDF	99.5	26 - 138
1,2,3,4,7,8,9-HpCDF	ND	0.00000198			13C-OCDF	79.9	17 - 157
OCDF	ND	0.00000732			CRS 37Cl-2,3,7,8-TCDD	93.0	35 - 197
Totals							
Total TCDD	ND	0.00000105					
Total PeCDD	ND	0.00000228					
Total HxCDD	ND	0.00000201					
Total HpCDD	0.00000272		0.00000545				
Total TCDF	ND	0.000000896					
Total PeCDF	ND	0.00000129					
Total HxCDF	ND	0.000000685					
Total HpCDF	ND	0.00000342					

Footnotes

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

Analyst: MAS

Approved By:

William J. Luksemburg 01-Mar-2007 13:15

OPR Results		EPA Method 1613					
Matrix	Aqueous	QC Batch No.	8883	Lab Sample	0-OPR001		
Sample Size	1.00 L	Date Extracted	23-Feb-07	Date Analyzed DB-5	26-Feb-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	10.1	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	76.9	25 - 164	
1,2,3,7,8-PeCDD	50.0	53.4	35 - 71	13C-1,2,3,7,8-PeCDD	73.9	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	53.0	35 - 82	13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	54.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	78.5	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	53.2	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	85.5	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	54.6	35 - 70	13C-OCDD	72.3	17 - 157	
OCDD	100	108	78 - 144	13C-2,3,7,8-TCDF	75.0	24 - 169	
2,3,7,8-TCDF	10.0	10.4	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	84.8	24 - 185	
1,2,3,7,8-PeCDF	50.0	53.7	40 - 67	13C-2,3,4,7,8-PeCDF	79.5	21 - 178	
2,3,4,7,8-PeCDF	50.0	55.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	91.7	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	53.3	36 - 67	13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	54.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	80.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	54.3	35 - 78	13C-1,2,3,7,8,9-HxCDF	96.0	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	57.1	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	53.0	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	90.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	55.6	39 - 69	13C-OCDF	83.0	17 - 157	
OCDF	100	106	63 - 170	CRS 37Cl-2,3,7,8-TCDD	78.5	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:15

Sample ID: IQB2021-01		EPA Method 1613					
Client Data		Sample Data		Laboratory Data			
Name	Test America-Irvine	Matrix	Aqueous	Lab Sample:	28723-001		
Project	IQB2021	Sample Size	1.03 L	QC Batch No	8883		
Date Collected:	19-Feb-07			Date Analyzed DB-5	27-Feb-07		
Time Collected:	0930			Date Analyzed DB-225	NA		
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000172		13C-2,3,7,8-TCDD	79.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000291		13C-1,2,3,7,8-PeCDD	79.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000384		13C-1,2,3,4,7,8-HxCDD	78.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000568		13C-1,2,3,6,7,8-HxCDD	73.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000519		13C-1,2,3,4,6,7,8-HpCDD	84.3	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.0000650			13C-OCDD	65.6	17 - 157	
OCDD	0.000976			13C-2,3,7,8-TCDF	72.7	24 - 169	
2,3,7,8-TCDF	ND	0.00000168		13C-1,2,3,7,8-PeCDF	82.8	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000186		13C-2,3,4,7,8-PeCDF	82.9	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000318		13C-1,2,3,4,7,8-HxCDF	79.8	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000202		13C-1,2,3,6,7,8-HxCDF	74.3	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000208		13C-2,3,4,6,7,8-HxCDF	78.0	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000157		13C-1,2,3,7,8,9-HxCDF	84.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000204		13C-1,2,3,4,6,7,8-HpCDF	82.5	28 - 143	
1,2,3,4,6,7,8-HpCDF	0.0000229			13C-1,2,3,4,7,8,9-HpCDF	86.6	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000472		13C-OCDF	73.6	17 - 157	
OCDF	0.0000656			CRS 37Cl-2,3,7,8-TCDD	84.7	35 - 197	
Totals							
Total TCDD	ND	0.00000172					
Total PeCDD	ND	0.00000291					
Total HxCDD	0.00000435						
Total HpCDD	0.000145						
Total TCDF	ND	0.00000168					
Total PeCDF	0.00000200						
Total HxCDF	0.00000576		0.0000136				
Total HpCDF	0.0000484						

Analytst: MAS

Approved By:

William J. Luksemburg 01-Mar-2007 13:15

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
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 corresponds 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

28723
2.4°C

SUBCONTRACT ORDER - PROJECT # IQB2021

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:
 Alta Analytical
 1104 Windfield Way
 El Dorado Hills, CA 95762
 Phone : (916) 933-1640
 Fax: (916) 673-0106
 Project Location: California

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

Analysis	Expiration	Comments
Sample ID: IQB2021-01 Water	Sampled: 02/19/07 09:30	
1613-Dioxin-HR-Alta	02/26/07 09:30	J flags, 17 congeners, no TEQ, ug/L, sub=Alta
Level 4 + EDD-OUT	03/19/07 09:30	Excel EDD email to pm, Include Std logs for Lvl IV
Containers Supplied:		
1 L Amber (IQB2021-01E)		

SAMPLE INTEGRITY:

All containers intact: Yes No
 Custody Seals Present: Yes No
 Sample labels/COC agree: Yes No
 Samples Preserved Properly: Yes No
 Samples Received On Ice: Yes No
 Samples Received at (temp): 2.4°C

Released By: [Signature] Date: 2/20/07 Time: _____ Received By: Bettina J. Benedict Date: 2/21/07 Time: 0859

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

SAMPLE LOG-IN CHECKLIST

Alta Project #: 28723 TAT Standard

Samples Arrival:	Date/Time 2/21/07 0849	Initials: UBB	Location: WR-2 Shelf/Rack: N/A
Logged In:	Date/Time 2/21/07 1316	Initials: UBB	Location: WR-2 Shelf/Rack: B-5
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> Cal
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
	<input checked="" type="checkbox"/> Other		
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
			<input type="checkbox"/> None
Temp °C	2.4°C	Time: 0858	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 #	7929 3681 2799		
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
Shipping Container	Alta	<input checked="" type="checkbox"/> Client	Return
		Retain	<input checked="" type="checkbox"/> Dispose

Comments:

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: February 25, 2007
Client: Test America - Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-07022003-001
Sample ID.: IQB2021-01

Sample Control: The sample was received by ATL in a chilled state, within the recommended hold time and with the chain of custody record attached.

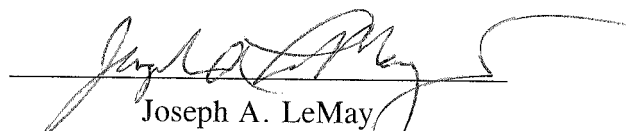
Date Sampled: 02/19/07
Date Received: 02/20/07
Temp. Received: 2°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/20/07 to 02/24/07

Sample Analysis: The following analyses were performed on your sample:
Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).
Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IQB2021-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-07022003-001

Client/ID: TestAmerica IQB2021-01

Start Date: 02/20/2007

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 13 (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-070206.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.9	8.8	7.8	0	0	Rv 1400
	100%	19.8	10.3	7.2	0	0	
24 Hr	Control	19.6	7.7	7.1	0	0	Rv 1200
	100%	19.6	7.8	7.4	0	0	
48 Hr	Control	19.7	7.0	7.3	0	0	Rv 1400
	100%	19.7	7.4	7.5	0	0	
Renewal	Control	20.5	8.8	7.8	0	0	Rv 1400
	100%	20.2	10.6	7.1	0	0	
72 Hr	Control	19.2	8.3	7.4	0	0	Rv 1200
	100%	19.2	8.0	7.4	0	0	
96 Hr	Control	19.2	8.1	7.4	0	0	Rv 1300
	100%	19.2	7.9	7.4	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 7.2; Conductivity: 290 umho; Temp: 2°C;

DO: 10.3 mg/l; Alkalinity: 86 mg/l; Hardness: 109 mg/l; NH₃-N: 0.3 mg/l.

Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No

Control: Alkalinity: 60 mg/l; Hardness: 91 mg/l; Conductivity: 325 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 %

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IQB2021

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

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

Analysis	Expiration	Comments
Sample ID: IQB2021-01 Water Bioassay-Acute 96hr	Sampled: 02/19/07 09:30 02/20/07 21:30	FH minnow, EPA/821-R02-012, Sub to AqTox Labs

Containers Supplied:

1 gal Poly (IQB2021-01A)

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): 20

Released By: *[Signature]* Date: 02/20/07 Time: 0730
Received By: *[Signature]* Date: 02/20/07 Time: 0730
Released By: *[Signature]* Date: 02/20/07 Time: 1240
Received By: *[Signature]* Date: 2-20-07 Time: 12:40

**FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS**



QA/QC Batch No.: RT-070206

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 11 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: Analyst:	INITIAL			24 Hr					48 Hr				
	<u>2-6-07 1400</u>			<u>2-7-07 1200</u>					<u>2-8-07 1300</u>				
	<u>[Signature]</u>			<u>[Signature]</u>					<u>[Signature]</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.6</u>	<u>0</u>	<u>0</u>	<u>20.1</u>	<u>6.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.5</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.1</u>	<u>19.9</u>	<u>7.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>19.9</u>	<u>6.8</u>	<u>7.2</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.0</u>	<u>7.3</u>	<u>1</u>	<u>1</u>
8.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>20.0</u>	<u>5.7</u>	<u>7.1</u>	<u>10</u>	<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Date/Time: Analyst:	RENEWAL			72 Hr					96 Hr				
	<u>2-8-07 1300</u>			<u>2-9-07 1200</u>					<u>2-10-07 1300</u>				
	<u>[Signature]</u>			<u>[Signature]</u>					<u>[Signature]</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>7.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>5.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>6.9</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.6</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.7</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.1</u>	<u>6.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.3</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Comments:

Control: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 360 umho.

SDS: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 350 umho.

Acute Fish Test-96 Hr Survival

Start Date: 06 Feb-07 14:00 Test ID: RT-070206f Sample ID: REF-Ref Toxicant
 End Date: 10 Feb-07 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 06 Feb-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	0.9000	0.9000
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	0.9000	0.9000	1.2490	1.2490	1.2490	0.000	2	2	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

Auxiliary Tests

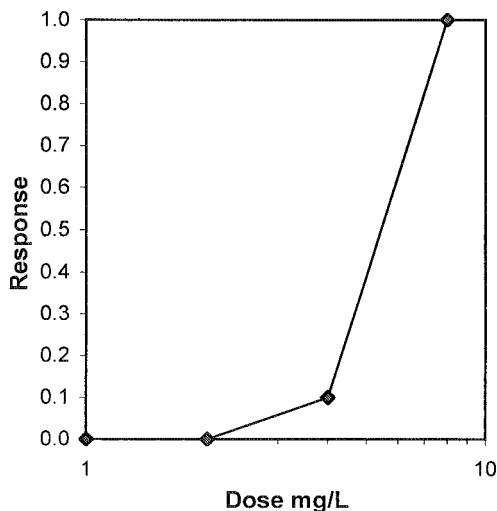
Normality of the data set cannot be confirmed

Equality of variance cannot be confirmed

Statistic Critical Skew Kurt

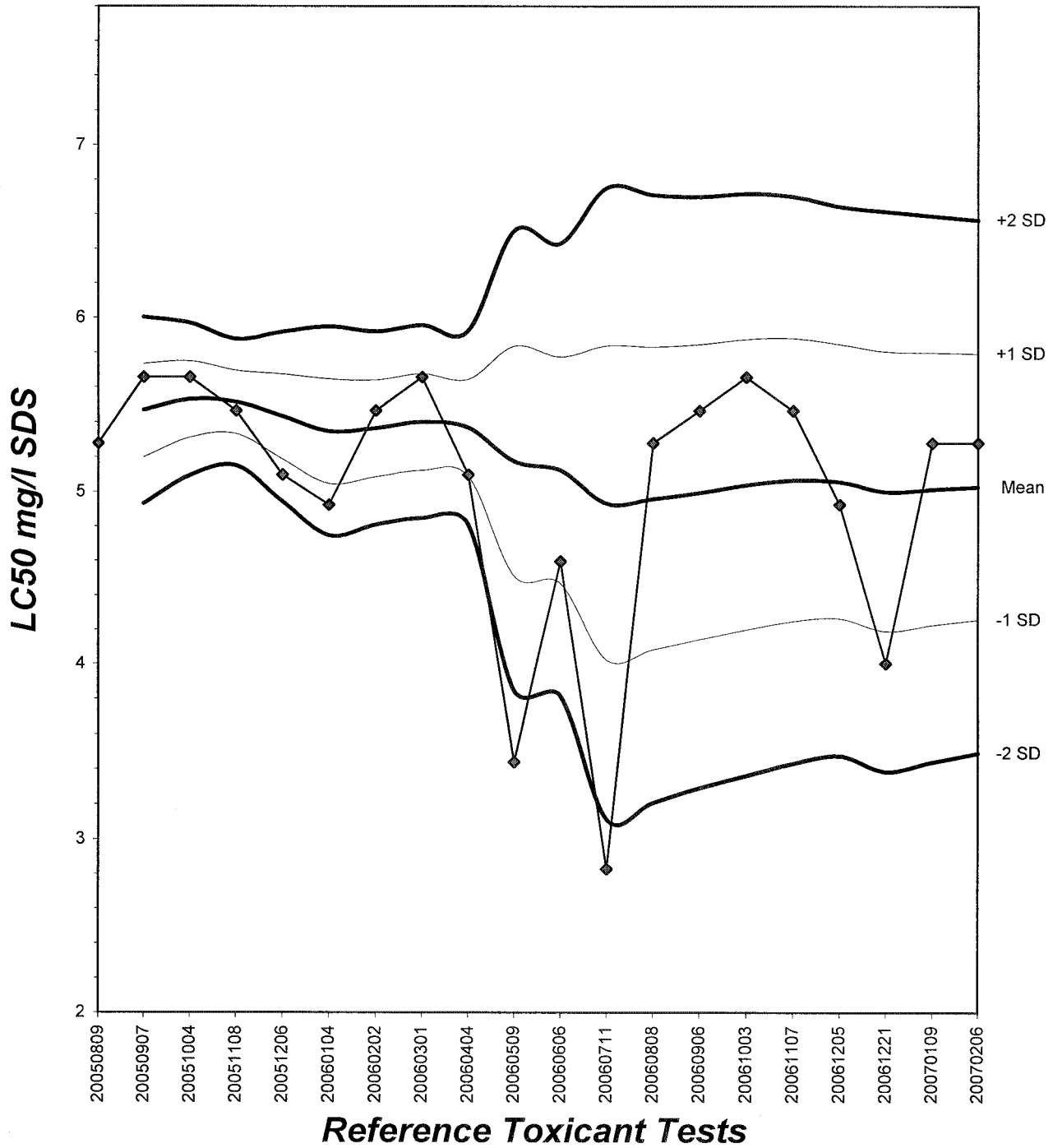
Trimmed Spearman-Kärber

Trim Level	EC50	95% CL	
0.0%	5.2780	4.8093	5.7924
5.0%	5.3968	4.8053	6.0611
10.0%	5.4432	5.1395	5.7648
20.0%	5.4432	5.1395	5.7648
Auto-0.0%	5.2780	4.8093	5.7924



Fathead Minnow Acute Laboratory Control Chart

CV% = 15.3



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-070206

SOURCE: In-Lab Culture

DATE HATCHED: 1-26-07

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 2/6/7

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.: 20.6 °C

pH: 8.0

Ammonia: <0.1 mg/l NH₃-N

DO: 7.8 mg/l

Alkalinity: 61 mg/l

Hardness: 91 mg/l

READINGS RECORDED BY: _____

DATE: _____

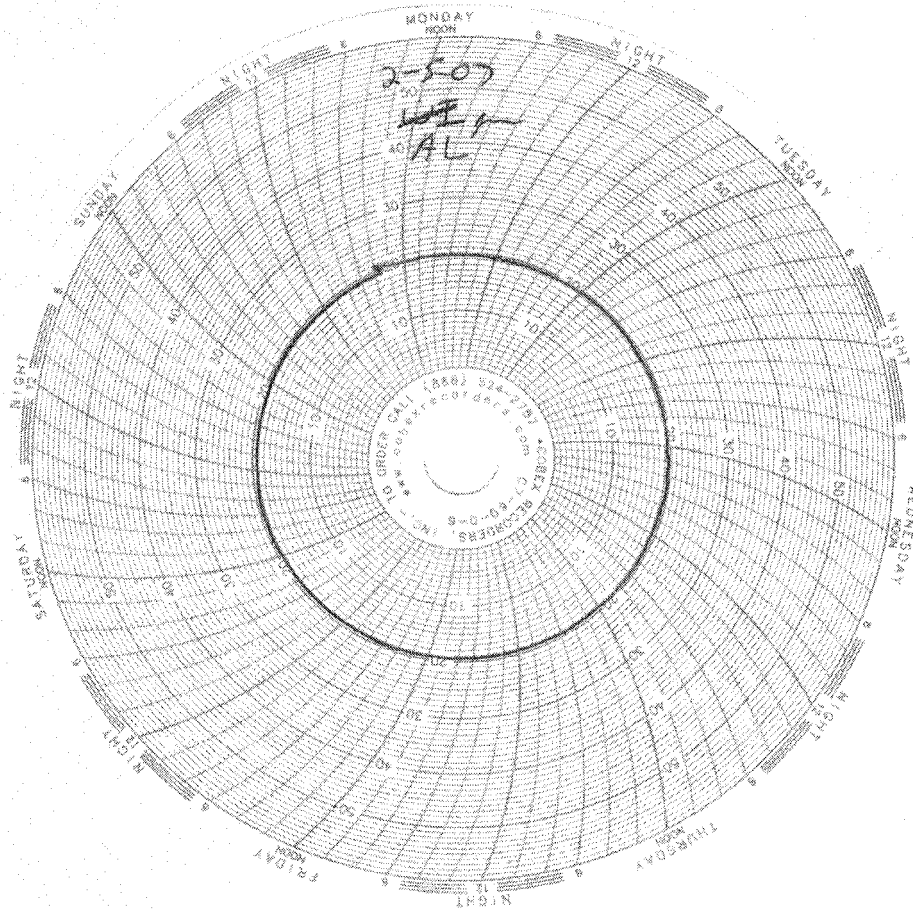
2-7-7

Laboratory Temperature Chart

QA/QC Batch No: RT-070206

Date Tested: 02/06/07 to 02/10/07

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





EBERLINE SERVICES

March 23, 2007

Ms. Michele Chamberlin
Test America, Inc.
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Reference: Test America Project No. IQB2021
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R702121-8656

Dear Ms. Chamberlin:

Enclosed are results from the analyses of one water sample received at Eberline Services on February 21, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analyses were gross alpha/gross beta (EPA900.0). The sample was not filtered prior to analysis; the sample was prepared for analysis within 5 days of collection. Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual. A level IV data package will follow within one week.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Report
Subcontract Form
Receipt checklist
Invoice


Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com
NPDES - 565

Eberline Services

ANALYSIS RESULTS

SDG <u>8656</u>	Client <u>TA IRVINE</u>
Work Order <u>R702121-01</u>	Contract <u>PROJECT# IQB2021</u>
Received Date <u>02/21/07</u>	Matrix <u>WATER</u>

<u>Client</u>	<u>Lab</u>	<u>Collected</u>	<u>Analyzed</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>Units</u>	<u>MDA</u>
<u>Sample ID</u>	<u>Sample ID</u>						
IQB2021-01	8656-001	02/19/07	03/08/07	GrossAlpha	1.86 ± 0.73	pCi/L	0.87
			03/08/07	Gross Beta	3.33 ± 0.64	pCi/L	0.89

Certified by 
Report Date <u>03/23/07</u>
Page 1

Eberline Services

QC RESULTS

SDG <u>8656</u>	Client <u>TA IRVINE</u>
Work Order <u>R702121-01</u>	Contract <u>PROJECT# IQB2021</u>
Received Date <u>02/21/07</u>	Matrix <u>WATER</u>

Lab	<u>Sample ID</u>	<u>Nuclide</u>	<u>Results</u>	<u>Units</u>	<u>Amount Added</u>	<u>MDA</u>	<u>Evaluation</u>
<u>LCS</u>							
	8657-002	GrossAlpha	8.17 ± 0.65	pCi/Smpl	10.1	0.318	81% recovery
		Gross Beta	9.76 ± 0.37	pCi/Smpl	9.60	0.277	102% recovery
<u>BLANK</u>							
	8657-003	GrossAlpha	-0.364 ± 0.15	pCi/Smpl	NA	0.348	<MDA
		Gross Beta	-0.091 ± 0.15	pCi/Smpl	NA	0.269	<MDA

<u>DUPLICATES</u>				<u>ORIGINALS</u>			
<u>Sample ID</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>MDA</u>	<u>Sample ID</u>	<u>Results ± 2σ</u>	<u>MDA</u>	<u>RPD (Tot) Eval</u>
8657-004	GrossAlpha	-0.302 ± 0.53	0.882	8657-001	-0.192 ± 0.44	0.698	- 0 satis.
	Gross Beta	27.3 ± 1.3	1.47		24.3 ± 1.1	1.04	12 44 satis.

<u>SPIKED SAMPLE</u>				<u>ORIGINAL SAMPLE</u>					
<u>Sample ID</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>MDA</u>	<u>Sample ID</u>	<u>Results ± 2σ</u>	<u>MDA</u>	<u>Added</u>	<u>%Recv</u>	
8657-005	GrossAlpha	77.4 ± 6.8	1.9	8657-001	-0.192 ± 0.44	0.698	70.8	110	
	Gross Beta	95.0 ± 4.0	2.0		24.3 ± 1.1	1.04	70.4	100	

Certified by
Report Date <u>03/23/07</u>
Page 2

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IQB2021

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:

Eberline Services
 2030 Wright Avenue
 Richmond, CA 94804
 Phone: (510) 235-2633
 Fax: (510) 235-0438

8056

Project Location: California

Standard TAT is requested unless specific due date is requested => Due Date: 3wk TAT Initials: MC

Analysis	Expiration	Comments
Sample ID: IQB2021-01 Water	Sampled: 02/19/07 09:30	
EDD + Level 4	03/19/07 09:30	
Gross Alpha-O	08/18/07 09:30	* DONT FILTER, 900.0, RESULT > 15 pCi/L, run Rad 226&228
Gross Beta-O	08/18/07 09:30	* DONT FILTER, 900.0, RESULT > 50 pCi/L, run Rad 226&228
Radium, Combined-O	02/19/08 09:30	HOLD for G A&B results; EPA 903.1 & 904.0, NO FILTER
Strontium 90-O	02/19/08 09:30	HOLD HOLD for Ra 226&228 results, EPA 905.0, DONT FILTER
Tritium-O	02/19/08 09:30	HOLD for Ra 226&228 results, EPA 906.0, DONT FILTER

Containers Supplied:

- 2.5 gal Poly (IQB2021-01S)
- 40 ml Amber Voa Vial (IQB2021-01T)
- 40 ml Amber Voa Vial (IQB2021-01U)
- 40 ml Amber Voa Vial (IQB2021-01V)

* 5 day hold time
 MC

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

Released By: Hande El Date: 2/20/07 Time: _____ Received By: MF Date: 02/21/07 Time: 9:00

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

AK
2/21/07

Client: TEST AMERICA City IRVINE State CA

Date/Time received 02/21/07 9:00 CoC No. 1232021

Container I.D. No. 1 LE TEST Requested TAT (Days) 21 P.O. Received Yes [] No []

INSPECTION

- 1. Custody seals on shipping container intact? Yes [] No [] N/A []
- 2. Custody seals on shipping container dated & signed? Yes [] No [] N/A []
- 3. Custody seals on sample containers intact? Yes [] No [] N/A []
- 4. Custody seals on sample containers dated & signed? Yes [] No [] N/A []
- 5. Packing material is: Wet [] Dry []
- 6. Number of samples in shipping container: 1 Sample Matrix W
- 7. Number of containers per sample: 4 (Or see CoC _____)
- 8. Samples are in correct container Yes [] No []
- 9. Paperwork agrees with samples? Yes [] No []
- 10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels []
- 11. Samples are: In good condition [] Leaking [] Broken Container [] Missing []
- 12. Samples are: Preserved [] Not preserved [] pH _____ Preservative _____
- 13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date _____

15. Inspected by AK Date: 02/21/07 Time: 10:15

Customer Sample No.	cpm	mR/hr	Wipe	Customer Sample No.	cpm	mR/hr	wipe

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. _____ Calibration date _____



CERTIFICATE OF ANALYSIS

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

Report Date: 03/02/07 19:24
Received Date: 02/21/07 10:58
Turn Around: Normal

Phone: (949) 261-1022

Fax: (949) 260-3297

Work Order #: 7022234

Client Project: IQB2021

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 Michele Chamberlin :

Enclosed are the results of analyses for samples received 02/21/07 10:58 with the Chain of Custody document. The samples were received in good condition, at 7.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Taylor Malignat

Project Manager

Page 1 of 7





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: 7022234
Project ID: IQB2021

Date Received: 02/21/07 10:58
Date Reported: 03/02/07 19:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQB2021-01	client		7022234-01	Water	02/19/07 09:30



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: 7022234
Project ID: IQB2021

Date Received: 02/21/07 10:58
Date Reported: 03/02/07 19:24

IQB2021-01 7022234-01 (Water)

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	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1095	02/27/07	03/02/07	jl



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Irvine CA, 92614

Report ID: 7022234
Project ID: IQB2021

Date Received: 02/21/07 10:58
Date Reported: 03/02/07 19:24

QUALITY CONTROL SECTION



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

Report ID: 7022234
 Project ID: IQB2021

Date Received: 02/21/07 10:58
 Date Reported: 03/02/07 19:24

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7B1095 - EPA 245.1										
Blank (W7B1095-BLK1) Analyzed: 03/02/07										
Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							
Blank (W7B1095-BLK2) Analyzed: 03/02/07										
Mercury, Total	ND	0.20	ug/l							
Mercury, Dissolved	ND	0.20	ug/l							
LCS (W7B1095-BS1) Analyzed: 03/02/07										
Mercury, Total	0.870	0.20	ug/l	1.00		87.0	85-115			
Mercury, Dissolved	0.870	0.20	ug/l	1.00		87.0	85-115			
LCS (W7B1095-BS2) Analyzed: 03/02/07										
Mercury, Total	0.893	0.20	ug/l	1.00		89.3	85-115			
Mercury, Dissolved	0.893	0.20	ug/l	1.00		89.3	85-115			
Matrix Spike (W7B1095-MS1) Source: 7022133-02 Analyzed: 03/02/07										
Mercury, Total	0.895	0.20	ug/l	1.00	ND	89.5	70-130			
Mercury, Dissolved	0.895	0.20	ug/l	1.00	ND	89.5	70-130			
Matrix Spike (W7B1095-MS2) Source: 7022201-04 Analyzed: 03/02/07										
Mercury, Total	0.884	0.20	ug/l	1.00	0.030	85.4	70-130			
Mercury, Dissolved	0.884	0.20	ug/l	1.00	0.033	85.1	70-130			
Matrix Spike (W7B1095-MS3) Source: 7022201-07 Analyzed: 03/02/07										
Mercury, Total	0.884	0.20	ug/l	1.00	0.033	85.1	70-130			
Mercury, Dissolved	0.884	0.20	ug/l	1.00	0.026	85.8	70-130			
Matrix Spike Dup (W7B1095-MSD1) Source: 7022133-02 Analyzed: 03/02/07										
Mercury, Total	0.861	0.20	ug/l	1.00	ND	86.1	70-130	3.87	20	
Mercury, Dissolved	0.861	0.20	ug/l	1.00	ND	86.1	70-130	3.87	20	



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: 7022234
 Project ID: IQB2021

Date Received: 02/21/07 10:58
 Date Reported: 03/02/07 19:24

Metals by EPA 200 Series Methods - Quality Control

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

Batch W7B1095 - EPA 245.1

Matrix Spike Dup (W7B1095-MSD2)

Source: 7022201-04

Analyzed: 03/02/07

Mercury, Dissolved	0.890	0.20	ug/l	1.00	0.033	85.7	70-130	0.676	20	
Mercury, Total	0.890	0.20	ug/l	1.00	0.030	86.0	70-130	0.676	20	

Matrix Spike Dup (W7B1095-MSD3)

Source: 7022201-07

Analyzed: 03/02/07

Mercury, Total	0.935	0.20	ug/l	1.00	0.033	90.2	70-130	5.61	20	
Mercury, Dissolved	0.935	0.20	ug/l	1.00	0.026	90.9	70-130	5.61	20	



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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: 7022234
Project ID: IQB2021

Date Received: 02/21/07 10:58
Date Reported: 03/02/07 19:24

Notes and Definitions

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.

APPENDIX G

Section 15

Outfall 010, February 19, 2007

MEC^X Data Validation Reports

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^X
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID B4DF124
 Task Order 1261.004D.0 1000.00
 SDG No. IQB2024

No. of Analyses 1

Laboratory Alta
 Reviewer K. Shadowlight
 Analysis/Method Dioxin/Furan by 1613

Date: April 9, 2007
 Reviewer's Signature
K. Shadowlight

ACTION ITEMS^a	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g., Holding Times GC/MS Tune/Inst. Performance Calibration Method blanks Surrogates Matrix Spike/Dup LCS Field QC Internal Standard Performance Compound Identification Quantitation System Performance	Qualifications were assigned for the following: * Method blank contamination - Detect below the RL
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Monitoring Program Annual Outfall 010

ANALYSIS: DIOXINS/FURANS

SAMPLE DELIVERY GROUP: IQB2024

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES
Contract Task Order: 1261.100D.00
Sample Delivery Group: IQB2024
Project Manager: P. Costa
Matrix: Water
Analysis: Dioxins/Furans
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: K. Shadowlight
Date of Review: April 9, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0)*, *USEPA Method 1613*, and the *National Functional Guidelines for Chlorinated Dioxin/Furan Data Review (8/02)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (TestAmerica-Irvine)	Laboratory ID (Alta)	Matrix	COC Method
Outfall 010	IQB2024-01	28724-001	Water	1613

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica-Irvine within the temperature limits of 4°C ±2°C. The sample was shipped to Alta for dioxin/furan analysis and was received within the temperature limits. According to the case narrative and laboratory login sheet, the sample was received intact and in good condition at both laboratories. No qualifications were required.

2.1.2 Chain of Custody

The COC and transfer COC were legible and signed by the appropriate field and laboratory personnel, and accounted for the analysis presented in this SDG. As the sample was couriered directly to TestAmerica-Irvine, custody seals were not required. Custody seals were present on the coolers from TestAmerica to Alta; however, no sample container custody seals were present. The Client ID was added to the sample result summary by the reviewer. No qualifications were required.

2.1.3 Holding Times

The sample was extracted and analyzed within one year of collection. No qualifications were required.

2.2 INSTRUMENT PERFORMANCE

Following are findings associated with instrument performance:

2.2.1 GC Column Performance

A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards (see section 2.3.2). The GC column performance in the calibrations was acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%. No qualifications were required.

2.2.2 Mass Spectrometer Performance

The mass spectrometer performance was acceptable with the static resolving power greater than 10,000. No qualifications were required.

2.3 CALIBRATION

2.3.1 Initial Calibration

The initial calibration was analyzed 10/24/2006 on instrument VG-5. The calibration consisted of six concentration level standards (CS0 through CS5) analyzed to verify instrument linearity. The initial calibrations were acceptable with %RSDs $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the QC limits listed in Method 1613 for all standards. A representative number of %RSDs were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

2.3.2 Continuing Calibration

Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits. A representative number of %Ds were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

WDM and isomer specificity compounds were added to the VER standard instead of being analyzed separately, as noted in section 2.2.1 of this report. No adverse effect was observed with this practice.

2.4 BLANKS

One method blank (0-8883-MB001) was extracted and analyzed with the sample in this SDG. Target compounds 1,2,3,4,6,7,8-HpCDD, OCDD, and total HpCDD were reported in the method blank at concentrations below the laboratory lower calibration level. 1,2,3,4,6,7,8-HpCDD and OCDD were reported in the site sample at concentrations less than five times the concentration of the method blank; therefore, the detects for HpCDD and OCDD were qualified as estimated nondetects, "UJ," at the levels of contamination in the site sample. As a portion of total HpCDD included isomer 1,2,3,4,6,7,8-HpCDD, the result for total HpCDD was qualified as estimated, "J," due to the method blank contamination. A review of the method blank raw data and chromatograms indicated no false negatives or false positives. No further qualifications were required.

2.5 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

One blank spike (0-8883-OPR001) was extracted and analyzed with the sample in this SDG. All recoveries were within the acceptance criteria listed in Table 6 of Method 1613. A review of the raw data and chromatograms indicated no transcription or calculation errors. No qualifications were required.

2.6 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD analyses were not performed in this SDG. Evaluation of method accuracy was based on the OPR results. No qualifications were required.

2.7 FIELD QC SAMPLES

Following are findings associated with field QC:

2.7.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no field blank or equipment rinsate identified. No qualifications of the site samples were required.

2.7.2 Field Duplicates

No field duplicates were identified in association with the sample in this SDG.

2.8 INTERNAL STANDARDS

The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613. No qualifications were required.

2.9 COMPOUND IDENTIFICATION

The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. The compound identifications were verified from the raw data and no false negatives or positives were noted. No qualifications were required.

2.10 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantitation was verified from the raw data. The laboratory calculated and reported compound-specific detection limits. Any detects below the laboratory lower calibration level were qualified as estimated, "J," by the laboratory. These "J" values were annotated with the qualification code of "DNQ" to comply with the reporting requirements of the NPDES permit. No further qualifications were required.

Sample ID: IQB2024-01 Out for OIO EPA Method 1613

Client Data
 Name: Test America-Irvine
 Project: IQB2024
 Date Collected: 19-Feb-07
 Time Collected: 1015

Sample Data
 Matrix: Aqueous
 Sample Size: 1.03 L

Laboratory Data
 Lab Sample: 28724-001 Date Received: 21-Feb-07
 QC Batch No.: 8883 Date Extracted: 23-Feb-07
 Date Analyzed DB-5: 26-Feb-07 Date Analyzed DB-225: NA

Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000104			13C-2,3,7,8-TCDD	74.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000888			13C-1,2,3,7,8-PeCDD	77.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000246			13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000243			13C-1,2,3,6,7,8-HxCDD	75.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000237			13C-1,2,3,4,6,7,8-HpCDD	83.8	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.00000427			J,B	13C-OCDD	73.5	17 - 157	
OCDD	0.0000451			J,B	13C-2,3,7,8-TCDF	66.5	24 - 169	
2,3,7,8-TCDF	ND	0.00000849			13C-1,2,3,7,8-PeCDF	79.0	24 - 185	
1,2,3,7,8-PeCDF	ND	0.0000103			13C-2,3,4,7,8-PeCDF	80.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000952			13C-1,2,3,4,7,8-HxCDF	77.4	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000718			13C-1,2,3,6,7,8-HxCDF	72.5	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000743			13C-2,3,4,6,7,8-HxCDF	78.4	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000850			13C-1,2,3,7,8,9-HxCDF	85.2	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.0000111			13C-1,2,3,4,6,7,8-HpCDF	83.4	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000204			13C-1,2,3,4,7,8,9-HpCDF	90.2	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000960			13C-OCDF	76.7	17 - 157	
OCDF	0.00000461			J	CRS 37Cl-2,3,7,8-TCDD	82.5	35 - 197	

Totals

Total TCDD	ND	0.00000104						
Total PeCDD	ND	0.00000222						
Total HxCDD	ND	0.00000242						
Total HpCDD	0.0000116			B				
Total TCDF	ND	0.00000849						
Total PeCDF	ND	0.00000992						
Total HxCDF	ND	0.00000847						
Total HpCDF	ND	0.00000377						

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

Analyst: MAS
 Approved By: William J. Luksemburg 01-Mar-2007 13:19
 Project 28724
 Level IV

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4MT112
 Task Order: 1261.001D.01
 SDG No.: IQB2024
 No. of Analyses: 1

Laboratory: Weck
 Reviewer: P. Meeks
 Analysis/Method: Metals

Date: <u>April 4, 2007</u>
Reviewer's Signature

ACTION ITEMS^a	
1. Case Narrative	
Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g.,	
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS^b	Acceptable as reviewed.
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Outfall 010

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IQB2024

Prepared by

MEC^X, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.001D.01
Sample Delivery Group: IQB2024
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 4, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the MEC^X *Data Validation Procedure for ICP and ICP-MS Metals (DVP-5, Rev. 0)*, EPA Method 245.1, and validation guidelines outlined in the USEPA CLP *National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	TestAmerica Laboratory ID	Weck Laboratory ID	Matrix	COC Method
Outfall 010	IQA2024-01	7022248-01	Water	245.1, total and dissolved

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of 4°C ±2°C, but was received above the temperature limits at the subcontract laboratory, Weck, at 8°C; however, due to the nonvolatile nature of the analyte, no qualifications were required. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The original and transfer COCs were signed and dated by the appropriate field and/or laboratory personnel and accounted for the sample and analyses presented in this SDG. As the sample was transported directly from the field to TestAmerica, custody seals were not necessary. Custody seals were not present upon receipt at Weck. No sample qualifications were required.

2.1.3 Holding Times

The date of collection recorded on the COC and the date of analysis recorded in the raw data documented that the sample analyses were performed within the specified holding time of 28 days for mercury. No qualifications were required.

2.2 ICP-MS TUNING

As ICP-MS was not utilized for the analysis, the ICP-MS tune criteria are not applicable.

2.3 CALIBRATION

The mercury initial calibration r^2 was ≥ 0.995 . The ICV and CCV results showed acceptable recoveries, 85-115% for mercury. No qualifications were required.

2.4 BLANKS

Mercury was not detected in any of the blanks associated with the site sample analysis. No qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

As neither ICP nor ICP-MS were utilized for the analysis, the interference check sample results are not applicable.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The recoveries were within the laboratory-established control limits of 85-115%. No qualifications were required.

2.7 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.8 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Method accuracy was evaluated based on the LCS results. No qualifications were required.

2.9 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.10 INTERNAL STANDARDS PERFORMANCE

As ICP-MS was not utilized for the analysis, the ICP-MS internal standard results are not applicable.

2.11 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified and the sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. No qualifications were required.

2.12 FIELD QC SAMPLES

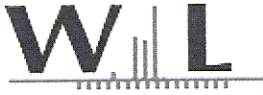
Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.12.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.12.2 Field Duplicates

There were no field duplicate analyses performed in association with the site sample.



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: 7022248
 Project ID: IQB2024

Date Received: 02/22/07 10:58
 Date Reported: 03/20/07 14:41

Outfall 610
 IQB2024-01 7022248-01 (Water)

Metals by EPA 200 Series Methods

Analyte	Rev Qual	Qual Code	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved	U		ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1096	02/28/07	03/01/07	jl
Mercury, Total	U		ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1096	02/28/07	03/01/07	jl

LEVEL IV

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4MT119
 Task Order: 1261.1001.00
 SDG No.: IQB2024

No. of Analyses: 1

Laboratory: TestAmerica
 Reviewer: P. Meeks
 Analysis/Method: Metals

Date: <u>April 24, 2007</u>
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS^a	
1. Case Narrative Deficiencies	
2. Out of Scope Analyses	
3. Analyses Not Conducted	
4. Missing Hardcopy Deliverables	
5. Incorrect Hardcopy Deliverables	
6. Deviations from Analysis Protocol, e.g.,	Qualifications applied for method blank contamination and to detects below the reporting limit.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 010

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IQB2024

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.100D.00
Sample Delivery Group: IQB2024
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 24, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for ICP and ICP-MS Metals (DVP-5, Rev. 0)*, *EPA Method 200.7*, and validation guidelines outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	TestAmerica Laboratory ID	Matrix	COC Method
Outfall 010	IQA2024-01	Water	200.7

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of 4°C ±2°C. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The original COC was signed and dated by the appropriate field and laboratory personnel and accounted for the sample and analyses presented in this SDG. As the sample was transported directly from the field to TestAmerica, custody seals were not necessary. No sample qualifications were required.

2.1.3 Holding Times

The date of collection recorded on the COC and the date of analysis recorded in the raw data documented that the sample analyses were performed within the specified holding time of 6 months for ICP metals. No qualifications were required.

2.2 ICP-MS TUNING

As the ICP-MS analytes were not validated, the ICP-MS tune criteria were not assessed.

2.3 CALIBRATION

The ICV and CCV results showed acceptable recoveries, 90-110% for ICP metals. The laboratory analyzed reporting limit check standards in association with the sample in this SDG. Selenium was recovered above 130% in the 10 ppb reporting limit check standard; however, selenium was not detected in the site sample. All other recoveries were considered to be acceptable. No qualifications were required.

2.4 BLANKS

Boron was detected in method blank 7B21063-BLK1 at 0.0216 mg/L; therefore, boron detected in the sample was qualified as an estimated nondetect, "UJ." Although the ICP-MS metals were not validated, the reviewer noted that cadmium was detected in method blank 7B21137-BLK1 at 0.135 µg/L; therefore, cadmium detected in the sample was qualified as an estimated nondetect, "UJ." Silver was detected in a bracketing CCB; however, silver was not detected in the site sample. There were no other detects of sufficient concentration to qualify the site sample. No further qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

ICSA and ICSAB analyses were performed in association with the ICP analyses of the site sample. The ICSA and ICSAB results were acceptable with recoveries within the control limits of 80-120%. Selenium was reported in the ISCA at -11.4 µg/L and silver was detected at 6.7 µg/L; however, no interferents were present in the site sample at concentrations requiring qualification. No qualifications were required.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The recoveries were within the laboratory-established control limits of 85-115%. No qualifications were required.

2.7 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.8 MATRIX SPIKES

No MS/MSD analyses were performed in association with the ICP analytes of the sample in this SDG; therefore, no assessment was made with respect to this criterion. Method accuracy was evaluated based on the LCS results. No qualifications were required.

2.9 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.10 INTERNAL STANDARDS PERFORMANCE

As the ICP-MS analytes were not validated, the ICP-MS internal standard results were not assessed.

2.11 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified and the sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. Chromium and vanadium were detected between the MDL and the reporting limit; therefore, chromium and vanadium were qualified as estimated and denoted with “DNQ” in accordance with the NPDES permit. No further qualifications were required.

2.12 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.12.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.12.2 Field Duplicates

There were no field duplicate analyses performed in association with the site sample.

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers	
									Rev Qual	Qual Code
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.										
Reporting Units: ug/l										
Aluminum	EPA 200.7	7B21063	40	50	1600	1	02/21/07	02/21/07		
Antimony	EPA 200.8	7B21137	0.050	2.0	1.6	1	02/21/07	02/21/07	*	J
Arsenic	EPA 200.7	7B21063	7.0	10	ND	1	02/21/07	02/21/07	U	
Beryllium	EPA 200.7	7B21063	0.90	2.0	ND	1	02/21/07	02/21/07	U	
Cadmium	EPA 200.8	7B21137	0.025	1.0	0.090	1	02/21/07	02/21/07	U	J, B
Chromium	EPA 200.7	7B21063	2.0	5.0	3.3	1	02/21/07	02/21/07	J	J
Copper	EPA 200.8	7B21137	0.25	2.0	2.4	1	02/21/07	02/21/07	*	B
Lead	EPA 200.8	7B21137	0.040	1.0	0.84	1	02/21/07	02/21/07	*	J
Nickel	EPA 200.7	7B21063	2.0	10	ND	1	02/21/07	02/21/07	U	
Selenium	EPA 200.7	7B21063	8.0	10	ND	1	02/21/07	02/21/07	U	
Silver	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	↓	
Thallium	EPA 200.8	7B21137	N/A	1.0	ND	1	02/21/07	02/21/07	*	
Vanadium	EPA 200.7	7B21063	3.0	10	8.3	1	02/21/07	02/21/07	J	J
Zinc	EPA 200.7	7B21063	15	20	ND	1	02/21/07	02/21/07	*	U

* Analysis not validated

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

LEVEL IV

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IQB2024 <Page 10 of 43>

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	7B21063	0.020	0.050	0.021	1	02/21/07	02/21/07	05 J, B
Iron	EPA 200.7	7B21063	0.015	0.040	1.5	1	02/21/07	02/21/07	

Per Qual	Qual Code
	B

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

LEVEL IV

IQB2024 <Page 9 of 43>



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 010

ANALYSIS: RADIONUCLIDES

SAMPLE DELIVERY GROUP: IQB2024

Prepared by

MECX, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.100D.00
Sample Delivery Group: IQB2024
Project Manager: P. Costa
Matrix: Water
Analysis: Radionuclides
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 6, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *EPA Prescribed Procedures for Measurements of Radioactivity in Drinking Water, Method 900.0*, and validation procedures outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form I with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (Del Mar)	Laboratory ID (Eberline)	Matrix	COC Method
Outfall 010	IQB2024-01	8659-001	Water	900.0

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of $4\pm 2^{\circ}\text{C}$. No temperature information was provided by Eberline, the subcontract laboratory; however, as it is not necessary to chill radiological samples, no qualifications were required. The sample was noted to have been received intact, in good condition, with cooler and sample container custody seals intact.

According to the Los Angeles Regional Water Quality Control Board's (LARWQCB) guidance letter dated 01/12/05, samples collected for tritium analysis should be submitted in glass containers to avoid potential loss of tritium by sorption onto the plastic container. The tritium sample for Outfall 010 was received unpreserved in a glass container.

According to the LARWQCB guidance letter dated 01/12/05, unfiltered samples should not be preserved and filtered aliquots should be preserved after filtration. All aliquots were received at Eberline unfiltered and unpreserved and were neither preserved nor filtered after receipt. No qualifications were required.

2.1.2 Chain of Custody

The original COC was signed and dated by field and laboratory personnel. The transfer COC was signed by personnel from both laboratories. Eberline did not list the MWH ID on the sample result summary form; therefore, the reviewer edited the Form I to reflect this ID. No qualifications were required.

2.1.3 Holding Times

Aliquots for gross alpha and gross beta were prepared within the five-day analytical holding time for unpreserved samples. No qualifications were necessary.

2.2 CALIBRATION

The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability. The gross alpha and gross beta initial calibration included with the data was performed in February 2003. The gross alpha detector efficiency was less than 20%; therefore, the gross alpha result was qualified as an estimated nondetect,

“UJ.” The gross beta detector efficiency was above 20% and no further qualifications were required.

2.3 BLANKS

No measurable activities were detected in the method blanks; therefore, no qualifications were necessary.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

Aqueous blank spikes were analyzed in association with the sample in this SDG. The blank spike results were within the laboratory-established control limits. No qualifications were necessary.

2.5 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed. No qualifications were necessary.

2.6 MATRIX SPIKES

No matrix spike analyses were performed. Method accuracy was evaluated based on the blank spike results. No qualifications were necessary.

2.7 SAMPLE RESULT VERIFICATION

An EPA Level IV review was performed for the sample in this data package. Sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. No qualifications were necessary.

2.8 FIELD QC SAMPLES

Field QC samples were evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample.

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate samples in this SDG.

Eberline Services

ANALYSIS RESULTS

SDG <u>8659</u>	Client <u>TA IRVINE</u>
Work Order <u>R702124-01</u>	Contract <u>PROJECT# IOB2024</u>
Received Date <u>02/21/07</u>	Matrix <u>WATER</u>

Client	Lab	Sample ID	Collected	Analyzed	Nuclide	Results + 2σ	Units	MDA	Rev Qual	Qual Code
<u>Outfall 010</u> IOB2024-01		8659-001	02/19/07	03/10/07	GrossAlpha	0.236 ± 1.0	pCi/L	1.6	<u>UT</u>	<u>R</u>
				03/10/07	Gross Beta	26.8 ± 1.6	pCi/L	1.5		

LEVEL IV

Certified by <u>[Signature]</u>
Report Date <u>03/23/07</u>
Page 1

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^X
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4WC99
 Task Order: 1261.100D.00
 SDG No.: IQB2024

No. of Analyses: 1

Laboratory: TestAmerica
 Reviewer: P. Meeks
 Analysis/Method: General Minerals

Date: <u>April 25, 2007</u>
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS^a	
1. Case Narrative Deficiencies	_____
2. Out of Scope Analyses	_____
3. Analyses Not Conducted	_____
4. Missing Hardcopy Deliverables	_____
5. Incorrect Hardcopy Deliverables	_____
6. Deviations from Analysis Protocol, e.g.,	_____
Holding Times	_____
GC/MS Tune/Inst. Performance	_____
Calibration	_____
Method blanks	_____
Surrogates	_____
Matrix Spike/Dup LCS	_____
Field QC	_____
Internal Standard Performance	_____
Compound Identification	_____
Quantitation	_____
System Performance	_____
COMMENTS^b	Acceptable as reviewed.
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 010

ANALYSIS: GENERAL MINERALS

SAMPLE DELIVERY GROUP: IQB2024

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.001D.01
Sample Delivery Group: IQB2024
Project Manager: P. Costa
Matrix: Water
Analysis: General Minerals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 25, 2007

The sample listed in Table 1 was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *USEPA Methods 160.2 and 335.2*, and validation guidelines outlined in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form Is as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID	Matrix	COC Method
Outfall 010	IQB2024-01	Water	General Minerals

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at the laboratory within the temperature limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. No preservation problems were noted by the laboratory and no qualifications were required.

2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel and accounted for the sample and the analysis presented in this SDG. As the sample was couriered directly from the field to the laboratory, custody seals were not necessary. No qualifications were required.

2.1.3 Holding Times

The holding times were assessed by comparing the date of collection with the dates of analyses. The TSS analysis was performed within the analytical holding time of seven days from collection and the cyanide analysis was performed within the analytical holding time of 14 days from collection. No qualifications were required.

2.2 CALIBRATION

The cyanide initial calibration r^2 result was ≥ 0.995 and the ICV and CCV results were within the control limits of 90-110%. No qualifications were required.

2.3 BLANKS

There were no detects in the method blanks or CCBs associated with the sample analyses. Raw data was reviewed to verify the blank data. No qualifications were required.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The reported LCS recoveries were within the laboratory-established control limits. No qualifications were required.

2.5 LABORATORY DUPLICATES

Laboratory duplicate analyses were performed for TSS on the sample in this SDG. The RPD was within the laboratory-established control limit of $\leq 10\%$. No qualifications were required.

2.6 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Evaluation of method accuracy was based on the LCS results. No qualifications were required.

2.7 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified, and the sample results reported on the Form I were verified against the raw data. No qualifications were required.

2.8 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample. The following are findings associated with field QC samples:

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate pairs associated with this SDG.

MWH-Pasadena/Boeing 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101 Attention: Bronwyn Kelly	Project ID: Annual Outfall 010 Report Number: IQB2024	Sampled: 02/19/07 Received: 02/19/07
--	--	---

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B20044	1.5	5.0	61	10	02/20/07	02/20/07	* ↓ *
Fluoride	EPA 300.0	7B20044	0.15	0.50	0.39	1	02/20/07	02/20/07	J
Hardness (as CaCO3)	SM2340B	7B21063	1.0	1.0	160	1	02/21/07	02/21/07	
Nitrate/Nitrite-N	EPA 300.0	7B20044	0.080	0.15	0.42	1	02/20/07	02/20/07	
Oil & Grease	EPA 413.1	7B28085	0.92	4.9	ND	1	02/28/07	02/28/07	
Sulfate	EPA 300.0	7B20044	0.45	0.50	12	1	02/20/07	02/20/07	
Total Dissolved Solids	SM2540C	7B23078	10	10	300	1	02/23/07	02/23/07	
Total Suspended Solids	EPA 160.2	7B21150	10	10	28	1	02/21/07	02/22/07	

* Analysis not validated

LEVEL IV

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

IQB2024 <Page 13 of 43>

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7B23104	2.2	5.0	ND	1	02/23/07	02/23/07	U
Perchlorate	EPA 314.0	7B27119	0.80	4.0	ND	1	02/27/07	02/27/07	*

For Qual	Qual Code
U	
*	

* Analysis not validated

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

LEVEL IV

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

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APPENDIX G

Section 16

Outfall 010, February 19, 2007

Test America Analytical Laboratory Report

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Annual Outfall 010

Sampled: 02/19/07
Received: 02/19/07
Issued: 04/03/07 19:32

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 of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

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

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

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

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

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

ADDITIONAL INFORMATION: Enclosed are complete final results. The results for Mercury and Radiochemistry were added.

LABORATORY ID

IQB2024-01
IQB2024-02

CLIENT ID

Outfall 010
Trip Blank

MATRIX

Water
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: IQB2024-01 (Outfall 010 - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	7B21011	0.28	1.0	ND	1	02/21/07	02/21/07	
Bromodichloromethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Bromoform	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Bromomethane	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
Carbon tetrachloride	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
Chlorobenzene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
Chloroethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Chloroform	EPA 624	7B21011	0.33	2.0	ND	1	02/21/07	02/21/07	
Chloromethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Dibromochloromethane	EPA 624	7B21011	0.28	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichlorobenzene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
1,3-Dichlorobenzene	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
1,4-Dichlorobenzene	EPA 624	7B21011	0.37	2.0	ND	1	02/21/07	02/21/07	
1,1-Dichloroethane	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloroethane	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
1,1-Dichloroethene	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
trans-1,2-Dichloroethene	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloropropane	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
cis-1,3-Dichloropropene	EPA 624	7B21011	0.22	2.0	ND	1	02/21/07	02/21/07	
trans-1,3-Dichloropropene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Ethylbenzene	EPA 624	7B21011	0.25	2.0	ND	1	02/21/07	02/21/07	
Methylene chloride	EPA 624	7B21011	0.95	5.0	ND	1	02/21/07	02/21/07	
1,1,2,2-Tetrachloroethane	EPA 624	7B21011	0.24	2.0	ND	1	02/21/07	02/21/07	
Tetrachloroethene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Toluene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
1,1,1-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
1,1,2-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Trichloroethene	EPA 624	7B21011	0.26	2.0	ND	1	02/21/07	02/21/07	
Trichlorofluoromethane	EPA 624	7B21011	0.34	5.0	ND	1	02/21/07	02/21/07	
Vinyl chloride	EPA 624	7B21011	0.30	0.50	ND	1	02/21/07	02/21/07	
Xylenes, Total	EPA 624	7B21011	0.90	4.0	ND	1	02/21/07	02/21/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7B21011	1.5	5.0	ND	1	02/21/07	02/21/07	

Surrogate: Dibromofluoromethane (80-120%)

104 %

Surrogate: Toluene-d8 (80-120%)

101 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: IQB2024-02 (Trip Blank - Water)									
Reporting Units: ug/l									
Benzene	EPA 624	7B21011	0.28	1.0	ND	1	02/21/07	02/21/07	
Bromodichloromethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Bromoform	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Bromomethane	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
Carbon tetrachloride	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
Chlorobenzene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
Chloroethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Chloroform	EPA 624	7B21011	0.33	2.0	ND	1	02/21/07	02/21/07	
Chloromethane	EPA 624	7B21011	0.40	5.0	ND	1	02/21/07	02/21/07	
Dibromochloromethane	EPA 624	7B21011	0.28	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichlorobenzene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
1,3-Dichlorobenzene	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
1,4-Dichlorobenzene	EPA 624	7B21011	0.37	2.0	ND	1	02/21/07	02/21/07	
1,1-Dichloroethane	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloroethane	EPA 624	7B21011	0.28	0.50	ND	1	02/21/07	02/21/07	
1,1-Dichloroethene	EPA 624	7B21011	0.42	5.0	ND	1	02/21/07	02/21/07	
trans-1,2-Dichloroethene	EPA 624	7B21011	0.27	2.0	ND	1	02/21/07	02/21/07	
1,2-Dichloropropane	EPA 624	7B21011	0.35	2.0	ND	1	02/21/07	02/21/07	
cis-1,3-Dichloropropene	EPA 624	7B21011	0.22	2.0	ND	1	02/21/07	02/21/07	
trans-1,3-Dichloropropene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Ethylbenzene	EPA 624	7B21011	0.25	2.0	ND	1	02/21/07	02/21/07	
Methylene chloride	EPA 624	7B21011	0.95	5.0	ND	1	02/21/07	02/21/07	
1,1,2,2-Tetrachloroethane	EPA 624	7B21011	0.24	2.0	ND	1	02/21/07	02/21/07	
Tetrachloroethene	EPA 624	7B21011	0.32	2.0	ND	1	02/21/07	02/21/07	
Toluene	EPA 624	7B21011	0.36	2.0	ND	1	02/21/07	02/21/07	
1,1,1-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
1,1,2-Trichloroethane	EPA 624	7B21011	0.30	2.0	ND	1	02/21/07	02/21/07	
Trichloroethene	EPA 624	7B21011	0.26	2.0	ND	1	02/21/07	02/21/07	
Trichlorofluoromethane	EPA 624	7B21011	0.34	5.0	ND	1	02/21/07	02/21/07	
Vinyl chloride	EPA 624	7B21011	0.30	0.50	ND	1	02/21/07	02/21/07	
Xylenes, Total	EPA 624	7B21011	0.90	4.0	ND	1	02/21/07	02/21/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7B21011	1.5	5.0	ND	1	02/21/07	02/21/07	
Surrogate: Dibromofluoromethane (80-120%)					98 %				
Surrogate: Toluene-d8 (80-120%)					101 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					98 %				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7B21011	4.6	50	ND	1	02/21/07	02/21/07	
Acrylonitrile	EPA 624	7B21011	0.70	50	ND	1	02/21/07	02/21/07	
2-Chloroethyl vinyl ether	EPA 624	7B21011	1.8	5.0	ND	1	02/21/07	02/21/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					104 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				
Sample ID: IQB2024-02 (Trip Blank - Water)									
Reporting Units: ug/l									
Acrolein	EPA 624	7B21011	4.6	50	ND	1	02/21/07	02/21/07	
Acrylonitrile	EPA 624	7B21011	0.70	50	ND	1	02/21/07	02/21/07	
2-Chloroethyl vinyl ether	EPA 624	7B21011	1.8	5.0	ND	1	02/21/07	02/21/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					98 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: IQB2024-01 (Outfall 010 - Water)									
Reporting Units: ug/l									
Acenaphthene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Acenaphthylene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Aniline	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Anthracene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Benzidine	EPA 625	7B21110	8.3	20	ND	0.98	02/21/07	02/25/07	L
Benzoic acid	EPA 625	7B21110	8.3	20	ND	0.98	02/21/07	02/25/07	
Benzo(a)anthracene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Benzo(b)fluoranthene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Benzo(k)fluoranthene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Benzo(g,h,i)perylene	EPA 625	7B21110	2.9	9.8	ND	0.98	02/21/07	02/25/07	L
Benzo(a)pyrene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Benzyl alcohol	EPA 625	7B21110	2.5	20	ND	0.98	02/21/07	02/25/07	
Bis(2-chloroethoxy)methane	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Bis(2-chloroethyl)ether	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Bis(2-chloroisopropyl)ether	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7B21110	3.9	49	ND	0.98	02/21/07	02/25/07	
4-Bromophenyl phenyl ether	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Butyl benzyl phthalate	EPA 625	7B21110	3.9	20	ND	0.98	02/21/07	02/25/07	
4-Chloroaniline	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
2-Chloronaphthalene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
4-Chloro-3-methylphenol	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
2-Chlorophenol	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
4-Chlorophenyl phenyl ether	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Chrysene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Dibenz(a,h)anthracene	EPA 625	7B21110	2.9	20	ND	0.98	02/21/07	02/25/07	
Dibenzofuran	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Di-n-butyl phthalate	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
1,3-Dichlorobenzene	EPA 625	7B21110	2.9	9.8	ND	0.98	02/21/07	02/25/07	
1,4-Dichlorobenzene	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
1,2-Dichlorobenzene	EPA 625	7B21110	2.9	9.8	ND	0.98	02/21/07	02/25/07	
3,3-Dichlorobenzidine	EPA 625	7B21110	2.9	20	ND	0.98	02/21/07	02/25/07	
2,4-Dichlorophenol	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Diethyl phthalate	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
2,4-Dimethylphenol	EPA 625	7B21110	3.4	20	ND	0.98	02/21/07	02/25/07	
Dimethyl phthalate	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
4,6-Dinitro-2-methylphenol	EPA 625	7B21110	3.9	20	ND	0.98	02/21/07	02/25/07	
2,4-Dinitrophenol	EPA 625	7B21110	4.4	20	ND	0.98	02/21/07	02/25/07	
2,4-Dinitrotoluene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
2,6-Dinitrotoluene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Di-n-octyl phthalate	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
Fluoranthene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Fluorene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Hexachlorobenzene	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Hexachlorobutadiene	EPA 625	7B21110	3.4	9.8	ND	0.98	02/21/07	02/25/07	
Hexachlorocyclopentadiene	EPA 625	7B21110	4.9	20	ND	0.98	02/21/07	02/25/07	
Hexachloroethane	EPA 625	7B21110	2.9	9.8	ND	0.98	02/21/07	02/25/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7B21110	2.9	20	ND	0.98	02/21/07	02/25/07	
Isophorone	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
2-Methylnaphthalene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
2-Methylphenol	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
4-Methylphenol	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Naphthalene	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
2-Nitroaniline	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
3-Nitroaniline	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
4-Nitroaniline	EPA 625	7B21110	2.5	20	ND	0.98	02/21/07	02/25/07	
Nitrobenzene	EPA 625	7B21110	2.5	20	ND	0.98	02/21/07	02/25/07	
2-Nitrophenol	EPA 625	7B21110	3.4	9.8	ND	0.98	02/21/07	02/25/07	
4-Nitrophenol	EPA 625	7B21110	5.4	20	ND	0.98	02/21/07	02/25/07	
N-Nitrosodiphenylamine	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
N-Nitroso-di-n-propylamine	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
Pentachlorophenol	EPA 625	7B21110	3.4	20	ND	0.98	02/21/07	02/25/07	
Phenanthrene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Phenol	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
Pyrene	EPA 625	7B21110	2.0	9.8	ND	0.98	02/21/07	02/25/07	
1,2,4-Trichlorobenzene	EPA 625	7B21110	2.5	9.8	ND	0.98	02/21/07	02/25/07	
2,4,5-Trichlorophenol	EPA 625	7B21110	2.9	20	ND	0.98	02/21/07	02/25/07	
2,4,6-Trichlorophenol	EPA 625	7B21110	2.9	20	ND	0.98	02/21/07	02/25/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	7B21110	2.0	20	ND	0.98	02/21/07	02/25/07	
N-Nitrosodimethylamine	EPA 625	7B21110	2.5	20	ND	0.98	02/21/07	02/25/07	
Surrogate: 2-Fluorophenol (30-120%)					74 %				
Surrogate: Phenol-d6 (35-120%)					78 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					93 %				
Surrogate: Nitrobenzene-d5 (40-120%)					81 %				
Surrogate: 2-Fluorobiphenyl (45-120%)					88 %				
Surrogate: Terphenyl-d14 (45-120%)					90 %				

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 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Aldrin	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	C-7
alpha-BHC	EPA 608	7B22132	0.019	0.094	ND	0.943	02/22/07	02/26/07	
beta-BHC	EPA 608	7B22132	0.038	0.094	ND	0.943	02/22/07	02/26/07	
delta-BHC	EPA 608	7B22132	0.019	0.19	ND	0.943	02/22/07	02/26/07	
gamma-BHC (Lindane)	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Chlordane	EPA 608	7B22132	0.19	0.94	ND	0.943	02/22/07	02/26/07	
4,4'-DDD	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
4,4'-DDE	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
4,4'-DDT	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	C-7
Dieldrin	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Endosulfan I	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Endosulfan II	EPA 608	7B22132	0.038	0.094	ND	0.943	02/22/07	02/26/07	
Endosulfan sulfate	EPA 608	7B22132	0.047	0.19	ND	0.943	02/22/07	02/26/07	
Endrin	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Endrin aldehyde	EPA 608	7B22132	0.047	0.094	ND	0.943	02/22/07	02/26/07	
Endrin ketone	EPA 608	7B22132	0.038	0.094	ND	0.943	02/22/07	02/26/07	
Heptachlor	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Heptachlor epoxide	EPA 608	7B22132	0.028	0.094	ND	0.943	02/22/07	02/26/07	
Methoxychlor	EPA 608	7B22132	0.038	0.094	ND	0.943	02/22/07	02/26/07	C-7
Toxaphene	EPA 608	7B22132	1.4	4.7	ND	0.943	02/22/07	02/26/07	
Surrogate: Tetrachloro- <i>m</i> -xylene (35-115%)					77 %				
Surrogate: Decachlorobiphenyl (45-120%)					82 %				

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7B22132	0.33	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1221	EPA 608	7B22132	0.094	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1232	EPA 608	7B22132	0.24	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1242	EPA 608	7B22132	0.24	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1248	EPA 608	7B22132	0.24	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1254	EPA 608	7B22132	0.24	0.94	ND	0.943	02/22/07	02/23/07	
Aroclor 1260	EPA 608	7B22132	0.28	0.94	ND	0.943	02/22/07	02/23/07	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					<i>102 %</i>				

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Boron	EPA 200.7	7B21063	0.020	0.050	0.021	1	02/21/07	02/21/07	J, B
Iron	EPA 200.7	7B21063	0.015	0.040	1.5	1	02/21/07	02/21/07	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Aluminum	EPA 200.7	7B21063	40	50	1600	1	02/21/07	02/21/07	
Antimony	EPA 200.8	7B21137	0.050	2.0	1.6	1	02/21/07	02/21/07	J
Arsenic	EPA 200.7	7B21063	7.0	10	ND	1	02/21/07	02/21/07	
Beryllium	EPA 200.7	7B21063	0.90	2.0	ND	1	02/21/07	02/21/07	
Cadmium	EPA 200.8	7B21137	0.025	1.0	0.090	1	02/21/07	02/21/07	J, B
Chromium	EPA 200.7	7B21063	2.0	5.0	3.3	1	02/21/07	02/21/07	J
Copper	EPA 200.8	7B21137	0.25	2.0	2.4	1	02/21/07	02/21/07	B
Lead	EPA 200.8	7B21137	0.040	1.0	0.84	1	02/21/07	02/21/07	J
Nickel	EPA 200.7	7B21063	2.0	10	ND	1	02/21/07	02/21/07	
Selenium	EPA 200.7	7B21063	8.0	10	ND	1	02/21/07	02/21/07	
Silver	EPA 200.7	7B21063	3.0	10	ND	1	02/21/07	02/21/07	
Thallium	EPA 200.8	7B21137	N/A	1.0	ND	1	02/21/07	02/21/07	
Vanadium	EPA 200.7	7B21063	3.0	10	8.3	1	02/21/07	02/21/07	J
Zinc	EPA 200.7	7B21063	15	20	ND	1	02/21/07	02/21/07	

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 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	7B22143	N/A	0.050	ND	1	02/22/07	02/23/07	
Arsenic	EPA 200.7-Diss	7B22143	N/A	0.010	ND	1	02/22/07	02/23/07	
Beryllium	EPA 200.7-Diss	7B22143	N/A	0.0020	ND	1	02/22/07	02/23/07	
Boron	EPA 200.7-Diss	7B22143	N/A	0.050	ND	1	02/22/07	02/23/07	B
Chromium	EPA 200.7-Diss	7B22143	N/A	0.0050	ND	1	02/22/07	02/23/07	
Iron	EPA 200.7-Diss	7B22143	N/A	0.040	ND	1	02/22/07	02/23/07	
Nickel	EPA 200.7-Diss	7B22143	N/A	0.010	ND	1	02/22/07	02/23/07	
Selenium	EPA 200.7-Diss	7B22143	N/A	0.010	ND	1	02/22/07	02/23/07	
Hardness (as CaCO3)	SM2340B	7B22143	N/A	1.0	140	1	02/22/07	02/23/07	
Silver	EPA 200.7-Diss	7B22143	N/A	0.010	ND	1	02/22/07	02/23/07	
Vanadium	EPA 200.7-Diss	7B22143	N/A	0.010	ND	1	02/22/07	02/23/07	
Zinc	EPA 200.7-Diss	7B22143	N/A	0.020	ND	1	02/22/07	02/23/07	

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7B23073	N/A	2.0	ND	1	02/23/07	02/23/07	
Cadmium	EPA 200.8-Diss	7B23073	N/A	1.0	ND	1	02/23/07	02/23/07	
Copper	EPA 200.8-Diss	7B23073	N/A	2.0	ND	1	02/23/07	02/23/07	
Lead	EPA 200.8-Diss	7B23073	N/A	1.0	ND	1	02/23/07	02/23/07	
Thallium	EPA 200.8-Diss	7B23073	N/A	1.0	ND	1	02/23/07	02/23/07	

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B20044	1.5	5.0	61	10	02/20/07	02/20/07	
Fluoride	EPA 300.0	7B20044	0.15	0.50	0.39	1	02/20/07	02/20/07	J
Hardness (as CaCO ₃)	SM2340B	7B21063	1.0	1.0	160	1	02/21/07	02/21/07	
Nitrate/Nitrite-N	EPA 300.0	7B20044	0.080	0.15	0.42	1	02/20/07	02/20/07	
Oil & Grease	EPA 413.1	7B28085	0.92	4.9	ND	1	02/28/07	02/28/07	
Sulfate	EPA 300.0	7B20044	0.45	0.50	12	1	02/20/07	02/20/07	
Total Dissolved Solids	SM2540C	7B23078	10	10	300	1	02/23/07	02/23/07	
Total Suspended Solids	EPA 160.2	7B21150	10	10	28	1	02/21/07	02/22/07	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2024-01 (Outfall 010 - Water) - cont.									
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7B23104	2.2	5.0	ND	1	02/23/07	02/23/07	
Perchlorate	EPA 314.0	7B27119	0.80	4.0	ND	1	02/27/07	02/27/07	

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 010 (IQB2024-01) - Water					
EPA 300.0	2	02/19/2007 10:15	02/19/2007 18:55	02/20/2007 15:00	02/20/2007 15:59
EPA 624	3	02/19/2007 10:15	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 14:12
Sample ID: Trip Blank (IQB2024-02) - Water					
EPA 624	3	02/19/2007 10:15	02/19/2007 18:55	02/21/2007 00:00	02/21/2007 11:09

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21011-BLK1)											
Benzene	ND	1.0	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							
Carbon tetrachloride	ND	0.50	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	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	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	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	1.5	ug/l							
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89	80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97	80-120			

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 Michele Chamberlin
 Project Manager

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
LCS Analyzed: 02/21/2007 (7B21011-BS1)											
Benzene	24.4	1.0	0.28	ug/l	25.0		98	70-120			
Bromodichloromethane	24.9	2.0	0.30	ug/l	25.0		100	70-135			
Bromoform	22.8	5.0	0.40	ug/l	25.0		91	55-130			
Bromomethane	25.5	5.0	0.42	ug/l	25.0		102	65-140			
Carbon tetrachloride	23.3	0.50	0.28	ug/l	25.0		93	65-140			
Chlorobenzene	24.8	2.0	0.36	ug/l	25.0		99	75-120			
Chloroethane	21.6	5.0	0.40	ug/l	25.0		86	60-140			
Chloroform	23.5	2.0	0.33	ug/l	25.0		94	70-130			
Chloromethane	30.5	5.0	0.40	ug/l	25.0		122	50-140			
Dibromochloromethane	26.8	2.0	0.28	ug/l	25.0		107	70-140			
1,2-Dichlorobenzene	25.3	2.0	0.32	ug/l	25.0		101	75-120			
1,3-Dichlorobenzene	25.3	2.0	0.35	ug/l	25.0		101	75-120			
1,4-Dichlorobenzene	24.8	2.0	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	23.5	2.0	0.27	ug/l	25.0		94	70-125			
1,2-Dichloroethane	25.0	0.50	0.28	ug/l	25.0		100	60-140			
1,1-Dichloroethene	23.3	5.0	0.42	ug/l	25.0		93	70-125			
trans-1,2-Dichloroethene	24.4	2.0	0.27	ug/l	25.0		98	70-125			
1,2-Dichloropropane	25.6	2.0	0.35	ug/l	25.0		102	70-125			
cis-1,3-Dichloropropene	24.1	2.0	0.22	ug/l	25.0		96	75-125			
trans-1,3-Dichloropropene	24.7	2.0	0.32	ug/l	25.0		99	70-125			
Ethylbenzene	25.8	2.0	0.25	ug/l	25.0		103	75-125			
Methylene chloride	21.4	5.0	0.95	ug/l	25.0		86	55-130			
1,1,2,2-Tetrachloroethane	27.4	2.0	0.24	ug/l	25.0		110	55-130			
Tetrachloroethene	22.4	2.0	0.32	ug/l	25.0		90	70-125			
Toluene	25.4	2.0	0.36	ug/l	25.0		102	70-120			
1,1,1-Trichloroethane	23.1	2.0	0.30	ug/l	25.0		92	65-135			
1,1,2-Trichloroethane	26.5	2.0	0.30	ug/l	25.0		106	70-125			
Trichloroethene	24.6	2.0	0.26	ug/l	25.0		98	70-125			
Trichlorofluoromethane	23.0	5.0	0.34	ug/l	25.0		92	65-145			
Vinyl chloride	26.6	0.50	0.30	ug/l	25.0		106	55-135			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107	80-120			

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1)						Source: IQB2021-01					
Benzene	33.0	1.0	0.28	ug/l	25.0	ND	132	65-125			MI
Bromodichloromethane	34.1	2.0	0.30	ug/l	25.0	ND	136	70-135			MI
Bromoform	28.1	5.0	0.40	ug/l	25.0	ND	112	55-135			
Bromomethane	38.2	5.0	0.42	ug/l	25.0	ND	153	55-145			MI
Carbon tetrachloride	34.0	0.50	0.28	ug/l	25.0	ND	136	65-140			
Chlorobenzene	33.2	2.0	0.36	ug/l	25.0	ND	133	75-125			MI
Chloroethane	32.6	5.0	0.40	ug/l	25.0	ND	130	55-140			
Chloroform	33.4	2.0	0.33	ug/l	25.0	ND	134	65-135			
Chloromethane	43.7	5.0	0.40	ug/l	25.0	ND	175	45-145			MI
Dibromochloromethane	35.3	2.0	0.28	ug/l	25.0	ND	141	65-140			MI
1,2-Dichlorobenzene	32.8	2.0	0.32	ug/l	25.0	ND	131	75-125			MI
1,3-Dichlorobenzene	33.2	2.0	0.35	ug/l	25.0	ND	133	75-125			MI
1,4-Dichlorobenzene	32.2	2.0	0.37	ug/l	25.0	ND	129	75-125			MI
1,1-Dichloroethane	33.3	2.0	0.27	ug/l	25.0	ND	133	65-130			MI
1,2-Dichloroethane	32.9	0.50	0.28	ug/l	25.0	ND	132	60-140			
1,1-Dichloroethene	31.0	5.0	0.42	ug/l	25.0	ND	124	60-130			
trans-1,2-Dichloroethene	33.8	2.0	0.27	ug/l	25.0	ND	135	65-130			MI
1,2-Dichloropropane	34.0	2.0	0.35	ug/l	25.0	ND	136	65-130			MI
cis-1,3-Dichloropropene	31.4	2.0	0.22	ug/l	25.0	ND	126	70-130			
trans-1,3-Dichloropropene	31.2	2.0	0.32	ug/l	25.0	ND	125	65-135			
Ethylbenzene	34.9	2.0	0.25	ug/l	25.0	ND	140	65-130			MI
Methylene chloride	30.2	5.0	0.95	ug/l	25.0	ND	121	50-135			
1,1,2,2-Tetrachloroethane	31.6	2.0	0.24	ug/l	25.0	ND	126	55-135			
Tetrachloroethene	30.2	2.0	0.32	ug/l	25.0	ND	121	65-130			
Toluene	34.1	2.0	0.36	ug/l	25.0	ND	136	70-125			MI
1,1,1-Trichloroethane	33.9	2.0	0.30	ug/l	25.0	ND	136	65-140			
1,1,2-Trichloroethane	32.8	2.0	0.30	ug/l	25.0	ND	131	65-130			MI
Trichloroethene	33.6	2.0	0.26	ug/l	25.0	ND	134	65-125			MI
Trichlorofluoromethane	34.6	5.0	0.34	ug/l	25.0	ND	138	60-145			
Vinyl chloride	40.4	0.50	0.30	ug/l	25.0	ND	162	45-140			MI
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: 7B21011 Extracted: 02/21/07											
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1)						Source: IQB2021-01					
Benzene	28.9	1.0	0.28	ug/l	25.0	ND	116	65-125	13	20	
Bromodichloromethane	29.9	2.0	0.30	ug/l	25.0	ND	120	70-135	13	20	
Bromoform	25.6	5.0	0.40	ug/l	25.0	ND	102	55-135	9	25	
Bromomethane	33.5	5.0	0.42	ug/l	25.0	ND	134	55-145	13	25	
Carbon tetrachloride	29.7	0.50	0.28	ug/l	25.0	ND	119	65-140	14	25	
Chlorobenzene	29.5	2.0	0.36	ug/l	25.0	ND	118	75-125	12	20	
Chloroethane	28.8	5.0	0.40	ug/l	25.0	ND	115	55-140	12	25	
Chloroform	29.4	2.0	0.33	ug/l	25.0	ND	118	65-135	13	20	
Chloromethane	39.2	5.0	0.40	ug/l	25.0	ND	157	45-145	11	25	MI
Dibromochloromethane	31.8	2.0	0.28	ug/l	25.0	ND	127	65-140	10	25	
1,2-Dichlorobenzene	30.5	2.0	0.32	ug/l	25.0	ND	122	75-125	7	20	
1,3-Dichlorobenzene	30.1	2.0	0.35	ug/l	25.0	ND	120	75-125	10	20	
1,4-Dichlorobenzene	29.4	2.0	0.37	ug/l	25.0	ND	118	75-125	9	20	
1,1-Dichloroethane	29.5	2.0	0.27	ug/l	25.0	ND	118	65-130	12	20	
1,2-Dichloroethane	29.3	0.50	0.28	ug/l	25.0	ND	117	60-140	12	20	
1,1-Dichloroethene	28.0	5.0	0.42	ug/l	25.0	ND	112	60-130	10	20	
trans-1,2-Dichloroethene	29.8	2.0	0.27	ug/l	25.0	ND	119	65-130	13	20	
1,2-Dichloropropane	30.2	2.0	0.35	ug/l	25.0	ND	121	65-130	12	20	
cis-1,3-Dichloropropene	27.7	2.0	0.22	ug/l	25.0	ND	111	70-130	13	20	
trans-1,3-Dichloropropene	27.8	2.0	0.32	ug/l	25.0	ND	111	65-135	12	25	
Ethylbenzene	30.7	2.0	0.25	ug/l	25.0	ND	123	65-130	13	20	
Methylene chloride	26.6	5.0	0.95	ug/l	25.0	ND	106	50-135	13	20	
1,1,2,2-Tetrachloroethane	30.7	2.0	0.24	ug/l	25.0	ND	123	55-135	3	30	
Tetrachloroethene	26.6	2.0	0.32	ug/l	25.0	ND	106	65-130	13	20	
Toluene	29.8	2.0	0.36	ug/l	25.0	ND	119	70-125	13	20	
1,1,1-Trichloroethane	30.0	2.0	0.30	ug/l	25.0	ND	120	65-140	12	20	
1,1,2-Trichloroethane	29.4	2.0	0.30	ug/l	25.0	ND	118	65-130	11	25	
Trichloroethene	29.1	2.0	0.26	ug/l	25.0	ND	116	65-125	14	20	
Trichlorofluoromethane	30.4	5.0	0.34	ug/l	25.0	ND	122	60-145	13	25	
Vinyl chloride	35.3	0.50	0.30	ug/l	25.0	ND	141	45-140	13	30	MI
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	80-120			
Surrogate: Toluene-d8	25.1			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105	80-120			

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21011 Extracted: 02/21/07										
Blank Analyzed: 02/21/2007 (7B21011-BLK1)										
Acrolein	ND	50	4.6	ug/l						
Acrylonitrile	ND	50	0.70	ug/l						
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l						
Surrogate: Dibromofluoromethane	22.2			ug/l	25.0		89 80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100 80-120			
Surrogate: 4-Bromofluorobenzene	24.3			ug/l	25.0		97 80-120			
LCS Analyzed: 02/21/2007 (7B21011-BS1)										
2-Chloroethyl vinyl ether	24.0	5.0	1.8	ug/l	25.0		96 25-170			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100 80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102 80-120			
Surrogate: 4-Bromofluorobenzene	26.7			ug/l	25.0		107 80-120			
Matrix Spike Analyzed: 02/21/2007 (7B21011-MS1) Source: IQB2021-01										
2-Chloroethyl vinyl ether	27.2	5.0	1.8	ug/l	25.0	ND	109 25-170			
Surrogate: Dibromofluoromethane	26.6			ug/l	25.0		106 80-120			
Surrogate: Toluene-d8	25.5			ug/l	25.0		102 80-120			
Surrogate: 4-Bromofluorobenzene	27.1			ug/l	25.0		108 80-120			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21011-MSD1) Source: IQB2021-01										
2-Chloroethyl vinyl ether	24.8	5.0	1.8	ug/l	25.0	ND	99 25-170	9	25	
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106 80-120			
Surrogate: Toluene-d8	25.1			ug/l	25.0		100 80-120			
Surrogate: 4-Bromofluorobenzene	26.2			ug/l	25.0		105 80-120			

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Sampled: 02/19/07
 Received: 02/19/07

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	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Acenaphthene	ND	10	2.0	ug/l							
Acenaphthylene	ND	10	2.0	ug/l							
Aniline	ND	10	2.5	ug/l							
Anthracene	ND	10	2.0	ug/l							
Benzidine	ND	20	8.5	ug/l							
Benzoic acid	ND	20	8.5	ug/l							
Benzo(a)anthracene	ND	10	2.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.0	ug/l							
Benzo(g,h,i)perylene	ND	10	3.0	ug/l							
Benzo(a)pyrene	ND	10	2.0	ug/l							
Benzyl alcohol	ND	20	2.5	ug/l							
Bis(2-chloroethoxy)methane	ND	10	2.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	2.5	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
4-Bromophenyl phenyl ether	ND	10	2.5	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
2-Chloronaphthalene	ND	10	2.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.0	ug/l							
2-Chlorophenol	ND	10	2.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.0	ug/l							
Chrysene	ND	10	2.0	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	2.0	ug/l							
Di-n-butyl phthalate	ND	20	2.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
3,3-Dichlorobenzidine	ND	20	3.0	ug/l							
2,4-Dichlorophenol	ND	10	2.0	ug/l							
Diethyl phthalate	ND	10	2.0	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.0	ug/l							

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 Project Manager

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 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010
 Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07										
Blank Analyzed: 02/23/2007 (7B21110-BLK1)										
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l						
2,4-Dinitrophenol	ND	20	4.5	ug/l						
2,4-Dinitrotoluene	ND	10	2.0	ug/l						
2,6-Dinitrotoluene	ND	10	2.0	ug/l						
Di-n-octyl phthalate	ND	20	2.0	ug/l						
Fluoranthene	ND	10	2.0	ug/l						
Fluorene	ND	10	2.0	ug/l						
Hexachlorobenzene	ND	10	2.5	ug/l						
Hexachlorobutadiene	ND	10	3.5	ug/l						
Hexachlorocyclopentadiene	ND	20	5.0	ug/l						
Hexachloroethane	ND	10	3.0	ug/l						
Indeno(1,2,3-cd)pyrene	ND	20	3.0	ug/l						
Isophorone	ND	10	2.0	ug/l						
2-Methylnaphthalene	ND	10	2.0	ug/l						
2-Methylphenol	ND	10	2.0	ug/l						
4-Methylphenol	ND	10	2.0	ug/l						
Naphthalene	ND	10	2.5	ug/l						
2-Nitroaniline	ND	20	2.0	ug/l						
3-Nitroaniline	ND	20	2.0	ug/l						
4-Nitroaniline	ND	20	2.5	ug/l						
Nitrobenzene	ND	20	2.5	ug/l						
2-Nitrophenol	ND	10	3.5	ug/l						
4-Nitrophenol	ND	20	5.5	ug/l						
N-Nitrosodiphenylamine	ND	10	2.0	ug/l						
N-Nitroso-di-n-propylamine	ND	10	2.5	ug/l						
Pentachlorophenol	ND	20	3.5	ug/l						
Phenanthrene	ND	10	2.0	ug/l						
Phenol	ND	10	2.0	ug/l						
Pyrene	ND	10	2.0	ug/l						
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l						
2,4,5-Trichlorophenol	ND	20	3.0	ug/l						
2,4,6-Trichlorophenol	ND	20	3.0	ug/l						
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.0	ug/l						
N-Nitrosodimethylamine	ND	20	2.5	ug/l						
Surrogate: 2-Fluorophenol	148			ug/l	200		74		30-120	

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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: 7B21110 Extracted: 02/21/07											
Blank Analyzed: 02/23/2007 (7B21110-BLK1)											
Surrogate: Phenol-d6	156			ug/l	200		78	35-120			
Surrogate: 2,4,6-Tribromophenol	202			ug/l	200		101	40-120			
Surrogate: Nitrobenzene-d5	83.6			ug/l	100		84	40-120			
Surrogate: 2-Fluorobiphenyl	85.9			ug/l	100		86	45-120			
Surrogate: Terphenyl-d14	97.3			ug/l	100		97	45-120			
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
Acenaphthene	80.7	10	2.0	ug/l	100		81	55-120			MNRI
Acenaphthylene	87.1	10	2.0	ug/l	100		87	60-120			
Aniline	73.3	10	2.5	ug/l	100		73	40-120			
Anthracene	86.7	10	2.0	ug/l	100		87	60-120			
Benzidine	153	20	8.5	ug/l	100		153	25-160			
Benzoic acid	72.2	20	8.5	ug/l	100		72	25-120			
Benzo(a)anthracene	87.0	10	2.0	ug/l	100		87	60-120			
Benzo(b)fluoranthene	110	10	2.0	ug/l	100		110	55-125			
Benzo(k)fluoranthene	108	10	2.0	ug/l	100		108	50-125			
Benzo(g,h,i)perylene	119	10	3.0	ug/l	100		119	45-130			
Benzo(a)pyrene	114	10	2.0	ug/l	100		114	55-125			
Benzyl alcohol	72.7	20	2.5	ug/l	100		73	50-120			
Bis(2-chloroethoxy)methane	82.7	10	2.0	ug/l	100		83	55-120			
Bis(2-chloroethyl)ether	67.1	10	2.5	ug/l	100		67	50-120			
Bis(2-chloroisopropyl)ether	68.0	10	2.5	ug/l	100		68	45-120			
Bis(2-ethylhexyl)phthalate	83.3	50	4.0	ug/l	100		83	60-125			
4-Bromophenyl phenyl ether	83.0	10	2.5	ug/l	100		83	55-120			
Butyl benzyl phthalate	82.3	20	4.0	ug/l	100		82	50-125			
4-Chloroaniline	79.5	10	2.0	ug/l	100		80	50-120			
2-Chloronaphthalene	81.7	10	2.0	ug/l	100		82	55-120			
4-Chloro-3-methylphenol	79.8	20	2.0	ug/l	100		80	55-120			
2-Chlorophenol	67.5	10	2.0	ug/l	100		68	45-120			
4-Chlorophenyl phenyl ether	82.3	10	2.0	ug/l	100		82	60-120			
Chrysene	90.2	10	2.0	ug/l	100		90	60-120			
Dibenz(a,h)anthracene	122	20	3.0	ug/l	100		122	50-135			
Dibenzofuran	84.0	10	2.0	ug/l	100		84	60-120			
Di-n-butyl phthalate	84.1	20	2.0	ug/l	100		84	55-125			
1,3-Dichlorobenzene	50.4	10	3.0	ug/l	100		50	35-120			
1,4-Dichlorobenzene	51.4	10	2.5	ug/l	100		51	35-120			

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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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	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2-Dichlorobenzene	54.4	10	3.0	ug/l	100	54	40-120				MNR1
3,3-Dichlorobenzidine	74.5	20	3.0	ug/l	100	74	50-135				
2,4-Dichlorophenol	79.7	10	2.0	ug/l	100	80	50-120				
Diethyl phthalate	79.1	10	2.0	ug/l	100	79	50-120				
2,4-Dimethylphenol	70.9	20	3.5	ug/l	100	71	35-120				
Dimethyl phthalate	79.5	10	2.0	ug/l	100	80	25-120				
4,6-Dinitro-2-methylphenol	91.6	20	4.0	ug/l	100	92	40-120				
2,4-Dinitrophenol	102	20	4.5	ug/l	100	102	35-120				
2,4-Dinitrotoluene	83.6	10	2.0	ug/l	100	84	60-120				
2,6-Dinitrotoluene	80.2	10	2.0	ug/l	100	80	60-120				
Di-n-octyl phthalate	81.9	20	2.0	ug/l	100	82	60-130				
Fluoranthene	88.6	10	2.0	ug/l	100	89	55-120				
Fluorene	86.1	10	2.0	ug/l	100	86	60-120				
Hexachlorobenzene	84.2	10	2.5	ug/l	100	84	55-120				
Hexachlorobutadiene	60.9	10	3.5	ug/l	100	61	40-120				
Hexachlorocyclopentadiene	66.6	20	5.0	ug/l	100	67	20-120				
Hexachloroethane	47.0	10	3.0	ug/l	100	47	35-120				
Indeno(1,2,3-cd)pyrene	113	20	3.0	ug/l	100	113	45-135				
Isophorone	67.8	10	2.0	ug/l	100	68	50-120				
2-Methylnaphthalene	72.7	10	2.0	ug/l	100	73	50-120				
2-Methylphenol	69.6	10	2.0	ug/l	100	70	50-120				
4-Methylphenol	72.7	10	2.0	ug/l	100	73	45-120				
Naphthalene	68.9	10	2.5	ug/l	100	69	50-120				
2-Nitroaniline	90.3	20	2.0	ug/l	100	90	60-120				
3-Nitroaniline	85.3	20	2.0	ug/l	100	85	55-120				
4-Nitroaniline	88.8	20	2.5	ug/l	100	89	50-125				
Nitrobenzene	70.0	20	2.5	ug/l	100	70	50-120				
2-Nitrophenol	77.1	10	3.5	ug/l	100	77	45-120				
4-Nitrophenol	88.4	20	5.5	ug/l	100	88	40-120				
N-Nitrosodiphenylamine	79.2	10	2.0	ug/l	100	79	55-120				
N-Nitroso-di-n-propylamine	68.1	10	2.5	ug/l	100	68	45-120				
Pentachlorophenol	104	20	3.5	ug/l	100	104	45-125				
Phenanthrene	87.3	10	2.0	ug/l	100	87	60-120				
Phenol	69.0	10	2.0	ug/l	100	69	45-120				
Pyrene	92.1	10	2.0	ug/l	100	92	50-125				

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 Project Manager

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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: 7B21110 Extracted: 02/21/07											
LCS Analyzed: 02/23/2007 (7B21110-BS1)											
1,2,4-Trichlorobenzene	63.4	10	2.5	ug/l	100	63	45-120				MNRI
2,4,5-Trichlorophenol	84.8	20	3.0	ug/l	100	85	50-120				
2,4,6-Trichlorophenol	86.2	20	3.0	ug/l	100	86	50-120				
1,2-Diphenylhydrazine/Azobenzene	76.2	20	2.0	ug/l	100	76	55-120				
N-Nitrosodimethylamine	63.3	20	2.5	ug/l	100	63	40-120				
Surrogate: 2-Fluorophenol	123			ug/l	200	62	30-120				
Surrogate: Phenol-d6	134			ug/l	200	67	35-120				
Surrogate: 2,4,6-Tribromophenol	185			ug/l	200	92	40-120				
Surrogate: Nitrobenzene-d5	72.0			ug/l	100	72	40-120				
Surrogate: 2-Fluorobiphenyl	81.3			ug/l	100	81	45-120				
Surrogate: Terphenyl-d14	89.0			ug/l	100	89	45-120				
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Acenaphthene	93.8	10	2.0	ug/l	100	94	55-120	15	20		
Acenaphthylene	104	10	2.0	ug/l	100	104	60-120	18	20		
Aniline	77.9	10	2.5	ug/l	100	78	40-120	6	30		
Anthracene	97.5	10	2.0	ug/l	100	98	60-120	12	20		
Benzidine	178	20	8.5	ug/l	100	178	25-160	15	35		L
Benzoic acid	75.5	20	8.5	ug/l	100	76	25-120	4	30		
Benzo(a)anthracene	95.3	10	2.0	ug/l	100	95	60-120	9	20		
Benzo(b)fluoranthene	119	10	2.0	ug/l	100	119	55-125	8	25		
Benzo(k)fluoranthene	118	10	2.0	ug/l	100	118	50-125	9	20		
Benzo(g,h,i)perylene	133	10	3.0	ug/l	100	133	45-130	11	25		L
Benzo(a)pyrene	125	10	2.0	ug/l	100	125	55-125	9	25		
Benzyl alcohol	84.3	20	2.5	ug/l	100	84	50-120	15	20		
Bis(2-chloroethoxy)methane	98.7	10	2.0	ug/l	100	99	55-120	18	20		
Bis(2-chloroethyl)ether	80.5	10	2.5	ug/l	100	80	50-120	18	20		
Bis(2-chloroisopropyl)ether	80.3	10	2.5	ug/l	100	80	45-120	17	20		
Bis(2-ethylhexyl)phthalate	89.2	50	4.0	ug/l	100	89	60-125	7	20		
4-Bromophenyl phenyl ether	95.3	10	2.5	ug/l	100	95	55-120	14	25		
Butyl benzyl phthalate	89.2	20	4.0	ug/l	100	89	50-125	8	20		
4-Chloroaniline	92.5	10	2.0	ug/l	100	92	50-120	15	25		
2-Chloronaphthalene	97.1	10	2.0	ug/l	100	97	55-120	17	20		
4-Chloro-3-methylphenol	88.8	20	2.0	ug/l	100	89	55-120	11	25		
2-Chlorophenol	80.6	10	2.0	ug/l	100	81	45-120	18	25		
4-Chlorophenyl phenyl ether	92.5	10	2.0	ug/l	100	92	60-120	12	20		

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Michele Chamberlin
Project Manager

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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: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
Chrysene	98.6	10	2.0	ug/l	100	99	60-120	9	20		
Dibenz(a,h)anthracene	134	20	3.0	ug/l	100	134	50-135	9	25		
Dibenzofuran	96.1	10	2.0	ug/l	100	96	60-120	13	20		
Di-n-butyl phthalate	87.9	20	2.0	ug/l	100	88	55-125	4	20		
1,3-Dichlorobenzene	60.3	10	3.0	ug/l	100	60	35-120	18	25		
1,4-Dichlorobenzene	62.2	10	2.5	ug/l	100	62	35-120	19	25		
1,2-Dichlorobenzene	64.9	10	3.0	ug/l	100	65	40-120	18	25		
3,3-Dichlorobenzidine	97.3	20	3.0	ug/l	100	97	50-135	27	25		R-7
2,4-Dichlorophenol	97.1	10	2.0	ug/l	100	97	50-120	20	20		
Diethyl phthalate	85.8	10	2.0	ug/l	100	86	50-120	8	30		
2,4-Dimethylphenol	78.8	20	3.5	ug/l	100	79	35-120	11	25		
Dimethyl phthalate	87.3	10	2.0	ug/l	100	87	25-120	9	30		
4,6-Dinitro-2-methylphenol	97.4	20	4.0	ug/l	100	97	40-120	6	25		
2,4-Dinitrophenol	106	20	4.5	ug/l	100	106	35-120	4	25		
2,4-Dinitrotoluene	86.5	10	2.0	ug/l	100	86	60-120	3	20		
2,6-Dinitrotoluene	87.5	10	2.0	ug/l	100	88	60-120	9	20		
Di-n-octyl phthalate	90.9	20	2.0	ug/l	100	91	60-130	10	20		
Fluoranthene	98.3	10	2.0	ug/l	100	98	55-120	10	20		
Fluorene	96.0	10	2.0	ug/l	100	96	60-120	11	20		
Hexachlorobenzene	97.3	10	2.5	ug/l	100	97	55-120	14	20		
Hexachlorobutadiene	78.5	10	3.5	ug/l	100	78	40-120	25	25		
Hexachlorocyclopentadiene	85.6	20	5.0	ug/l	100	86	20-120	25	30		
Hexachloroethane	56.8	10	3.0	ug/l	100	57	35-120	19	25		
Indeno(1,2,3-cd)pyrene	123	20	3.0	ug/l	100	123	45-135	8	25		
Isophorone	78.1	10	2.0	ug/l	100	78	50-120	14	20		
2-Methylnaphthalene	86.3	10	2.0	ug/l	100	86	50-120	17	20		
2-Methylphenol	82.6	10	2.0	ug/l	100	83	50-120	17	20		
4-Methylphenol	80.4	10	2.0	ug/l	100	80	45-120	10	20		
Naphthalene	84.6	10	2.5	ug/l	100	85	50-120	20	20		
2-Nitroaniline	103	20	2.0	ug/l	100	103	60-120	13	20		
3-Nitroaniline	93.8	20	2.0	ug/l	100	94	55-120	9	25		
4-Nitroaniline	92.2	20	2.5	ug/l	100	92	50-125	4	20		
Nitrobenzene	85.5	20	2.5	ug/l	100	86	50-120	20	25		
2-Nitrophenol	97.1	10	3.5	ug/l	100	97	45-120	23	25		
4-Nitrophenol	90.3	20	5.5	ug/l	100	90	40-120	2	30		

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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: 7B21110 Extracted: 02/21/07											
LCS Dup Analyzed: 02/23/2007 (7B21110-BSD1)											
N-Nitrosodiphenylamine	91.8	10	2.0	ug/l	100	92	55-120	15	20		
N-Nitroso-di-n-propylamine	75.3	10	2.5	ug/l	100	75	45-120	10	20		
Pentachlorophenol	111	20	3.5	ug/l	100	111	45-125	7	25		
Phenanthrene	98.1	10	2.0	ug/l	100	98	60-120	12	20		
Phenol	79.9	10	2.0	ug/l	100	80	45-120	15	25		
Pyrene	96.9	10	2.0	ug/l	100	97	50-125	5	25		
1,2,4-Trichlorobenzene	80.8	10	2.5	ug/l	100	81	45-120	24	20		R-7
2,4,5-Trichlorophenol	98.3	20	3.0	ug/l	100	98	50-120	15	30		
2,4,6-Trichlorophenol	100	20	3.0	ug/l	100	100	50-120	15	30		
1,2-Diphenylhydrazine/Azobenzene	91.0	20	2.0	ug/l	100	91	55-120	18	25		
N-Nitrosodimethylamine	76.9	20	2.5	ug/l	100	77	40-120	19	20		
Surrogate: 2-Fluorophenol	150			ug/l	200	75	30-120				
Surrogate: Phenol-d6	153			ug/l	200	76	35-120				
Surrogate: 2,4,6-Tribromophenol	205			ug/l	200	102	40-120				
Surrogate: Nitrobenzene-d5	88.3			ug/l	100	88	40-120				
Surrogate: 2-Fluorobiphenyl	95.7			ug/l	100	96	45-120				
Surrogate: Terphenyl-d14	93.3			ug/l	100	93	45-120				

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aldrin	ND	0.10	0.030	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	0.389			ug/l	0.500		78	35-115			
Surrogate: Decachlorobiphenyl	0.428			ug/l	0.500		86	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS1)											MNRI
Aldrin	0.361	0.10	0.030	ug/l	0.500		72	35-120			
alpha-BHC	0.403	0.10	0.020	ug/l	0.500		81	45-120			
beta-BHC	0.410	0.10	0.040	ug/l	0.500		82	50-120			
delta-BHC	0.408	0.20	0.020	ug/l	0.500		82	50-120			
gamma-BHC (Lindane)	0.396	0.10	0.030	ug/l	0.500		79	40-120			
4,4'-DDD	0.403	0.10	0.030	ug/l	0.500		81	55-120			
4,4'-DDE	0.384	0.10	0.030	ug/l	0.500		77	50-120			
4,4'-DDT	0.427	0.10	0.030	ug/l	0.500		85	55-120			
Dieldrin	0.376	0.10	0.030	ug/l	0.500		75	50-120			
Endosulfan I	0.402	0.10	0.030	ug/l	0.500		80	50-120			
Endosulfan II	0.422	0.10	0.040	ug/l	0.500		84	55-120			
Endosulfan sulfate	0.420	0.20	0.050	ug/l	0.500		84	60-120			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
LCS Analyzed: 02/23/2007 (7B22132-BS1)											
Endrin	0.392	0.10	0.030	ug/l	0.500		78	55-120			MNR1
Endrin aldehyde	0.421	0.10	0.050	ug/l	0.500		84	55-120			
Endrin ketone	0.407	0.10	0.040	ug/l	0.500		81	55-120			
Heptachlor	0.391	0.10	0.030	ug/l	0.500		78	40-115			
Heptachlor epoxide	0.406	0.10	0.030	ug/l	0.500		81	50-120			
Methoxychlor	0.415	0.10	0.040	ug/l	0.500		83	55-120			
Surrogate: Tetrachloro-m-xylene	0.372			ug/l	0.500		74	35-115			
Surrogate: Decachlorobiphenyl	0.389			ug/l	0.500		78	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD1)											
Aldrin	0.339	0.10	0.030	ug/l	0.500		68	35-120	6	30	
alpha-BHC	0.376	0.10	0.020	ug/l	0.500		75	45-120	7	30	
beta-BHC	0.397	0.10	0.040	ug/l	0.500		79	50-120	3	30	
delta-BHC	0.393	0.20	0.020	ug/l	0.500		79	50-120	4	30	
gamma-BHC (Lindane)	0.377	0.10	0.030	ug/l	0.500		75	40-120	5	30	
4,4'-DDD	0.413	0.10	0.030	ug/l	0.500		83	55-120	2	30	
4,4'-DDE	0.383	0.10	0.030	ug/l	0.500		77	50-120	0	30	
4,4'-DDT	0.419	0.10	0.030	ug/l	0.500		84	55-120	2	30	
Dieldrin	0.369	0.10	0.030	ug/l	0.500		74	50-120	2	30	
Endosulfan I	0.391	0.10	0.030	ug/l	0.500		78	50-120	3	30	
Endosulfan II	0.409	0.10	0.040	ug/l	0.500		82	55-120	3	30	
Endosulfan sulfate	0.411	0.20	0.050	ug/l	0.500		82	60-120	2	30	
Endrin	0.377	0.10	0.030	ug/l	0.500		75	55-120	4	30	
Endrin aldehyde	0.410	0.10	0.050	ug/l	0.500		82	55-120	3	30	
Endrin ketone	0.403	0.10	0.040	ug/l	0.500		81	55-120	1	30	
Heptachlor	0.365	0.10	0.030	ug/l	0.500		73	40-115	7	30	
Heptachlor epoxide	0.384	0.10	0.030	ug/l	0.500		77	50-120	6	30	
Methoxychlor	0.406	0.10	0.040	ug/l	0.500		81	55-120	2	30	
Surrogate: Tetrachloro-m-xylene	0.345			ug/l	0.500		69	35-115			
Surrogate: Decachlorobiphenyl	0.392			ug/l	0.500		78	45-120			

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TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22132 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22132-BLK1)											
Aroclor 1016	ND	1.0	0.35	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	0.531			ug/l	0.500		106	45-120			
LCS Analyzed: 02/23/2007 (7B22132-BS2)											
Aroclor 1016	3.53	1.0	0.35	ug/l	4.00		88	45-115			MNRI
Aroclor 1260	3.73	1.0	0.30	ug/l	4.00		93	55-115			
Surrogate: Decachlorobiphenyl	0.494			ug/l	0.500		99	45-120			
LCS Dup Analyzed: 02/23/2007 (7B22132-BSD2)											
Aroclor 1016	3.11	1.0	0.35	ug/l	4.00		78	45-115	13	30	
Aroclor 1260	3.49	1.0	0.30	ug/l	4.00		87	55-115	7	25	
Surrogate: Decachlorobiphenyl	0.485			ug/l	0.500		97	45-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21063 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21063-BLK1)											
Aluminum	ND	50	40	ug/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0216	0.050	0.020	mg/l							J
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	3.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	15	ug/l							
LCS Analyzed: 02/21/2007 (7B21063-BS1)											
Aluminum	510	50	40	ug/l	500		102	85-115			
Arsenic	506	10	7.0	ug/l	500		101	85-115			
Beryllium	518	2.0	0.90	ug/l	500		104	85-115			
Boron	0.535	0.050	0.020	mg/l	0.500		107	85-115			
Calcium	2.64	0.10	N/A	mg/l	2.50		106	85-115			
Chromium	511	5.0	2.0	ug/l	500		102	85-115			
Iron	0.524	0.040	0.015	mg/l	0.500		105	85-115			
Magnesium	2.60	0.020	N/A	mg/l	2.50		104	85-115			
Nickel	530	10	2.0	ug/l	500		106	85-115			
Selenium	511	10	8.0	ug/l	500		102	85-115			
Silver	262	10	3.0	ug/l	250		105	85-115			
Vanadium	519	10	3.0	ug/l	500		104	85-115			
Zinc	502	20	15	ug/l	500		100	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: 7B21063 Extracted: 02/21/07											
Matrix Spike Analyzed: 02/21/2007 (7B21063-MS1)						Source: IQB2022-01					
Aluminum	1110	50	40	ug/l	500	550	112	70-130			
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Beryllium	524	2.0	0.90	ug/l	500	ND	105	70-130			
Boron	0.593	0.050	0.020	mg/l	0.500	0.065	106	70-130			
Calcium	5.66	0.10	N/A	mg/l	2.50	3.2	98	70-130			
Chromium	524	5.0	2.0	ug/l	500	7.7	103	70-130			
Iron	1.12	0.040	0.015	mg/l	0.500	0.62	100	70-130			
Magnesium	3.07	0.020	N/A	mg/l	2.50	0.44	105	70-130			
Nickel	535	10	2.0	ug/l	500	ND	107	70-130			
Selenium	526	10	8.0	ug/l	500	ND	105	70-130			
Silver	271	10	3.0	ug/l	250	ND	108	70-130			
Vanadium	574	10	3.0	ug/l	500	44	106	70-130			
Zinc	533	20	15	ug/l	500	ND	107	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21063-MSD1)						Source: IQB2022-01					
Aluminum	1120	50	40	ug/l	500	550	114	70-130	1	20	
Arsenic	525	10	7.0	ug/l	500	ND	105	70-130	3	20	
Beryllium	525	2.0	0.90	ug/l	500	ND	105	70-130	0	20	
Boron	0.588	0.050	0.020	mg/l	0.500	0.065	105	70-130	1	20	
Calcium	5.65	0.10	N/A	mg/l	2.50	3.2	98	70-130	0	20	
Chromium	515	5.0	2.0	ug/l	500	7.7	101	70-130	2	20	
Iron	1.10	0.040	0.015	mg/l	0.500	0.62	96	70-130	2	20	
Magnesium	2.98	0.020	N/A	mg/l	2.50	0.44	102	70-130	3	20	
Nickel	525	10	2.0	ug/l	500	ND	105	70-130	2	20	
Selenium	526	10	8.0	ug/l	500	ND	105	70-130	0	20	
Silver	263	10	3.0	ug/l	250	ND	105	70-130	3	20	
Vanadium	567	10	3.0	ug/l	500	44	105	70-130	1	20	
Zinc	517	20	15	ug/l	500	ND	103	70-130	3	20	

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B21137 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21137-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	0.135	1.0	0.025	ug/l							J
Copper	0.337	2.0	0.25	ug/l							J
Lead	ND	1.0	0.040	ug/l							
Thallium	ND	1.0	N/A	ug/l							
LCS Analyzed: 02/21/2007 (7B21137-BS1)											
Antimony	78.5	2.0	0.050	ug/l	80.0		98	85-115			
Cadmium	79.6	1.0	0.025	ug/l	80.0		100	85-115			
Copper	79.6	2.0	0.25	ug/l	80.0		100	85-115			
Lead	75.3	1.0	0.040	ug/l	80.0		94	85-115			
Thallium	76.0	1.0	N/A	ug/l	80.0		95	85-115			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS1) Source: IQB2021-01											
Antimony	80.9	2.0	0.050	ug/l	80.0	0.49	101	70-130			
Cadmium	79.8	1.0	0.025	ug/l	80.0	0.056	100	70-130			
Copper	81.8	2.0	0.25	ug/l	80.0	3.7	98	70-130			
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130			
Thallium	77.2	1.0	N/A	ug/l	80.0	ND	96	70-130			
Matrix Spike Analyzed: 02/21/2007 (7B21137-MS2) Source: IQB2054-04											
Antimony	82.8	2.0	0.050	ug/l	80.0	0.15	103	70-130			
Cadmium	77.1	1.0	0.025	ug/l	80.0	ND	96	70-130			
Copper	75.0	2.0	0.25	ug/l	80.0	2.8	90	70-130			
Lead	72.2	1.0	0.040	ug/l	80.0	0.13	90	70-130			
Thallium	72.9	1.0	N/A	ug/l	80.0	ND	91	70-130			
Matrix Spike Dup Analyzed: 02/21/2007 (7B21137-MSD1) Source: IQB2021-01											
Antimony	79.9	2.0	0.050	ug/l	80.0	0.49	99	70-130	1	20	
Cadmium	78.8	1.0	0.025	ug/l	80.0	0.056	98	70-130	1	20	
Copper	81.5	2.0	0.25	ug/l	80.0	3.7	97	70-130	0	20	
Lead	76.5	1.0	0.040	ug/l	80.0	1.7	94	70-130	0	20	
Thallium	76.6	1.0	N/A	ug/l	80.0	ND	96	70-130	1	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B22143 Extracted: 02/22/07											
Blank Analyzed: 02/23/2007 (7B22143-BLK1)											
Aluminum	ND	0.050	N/A	mg/l							
Arsenic	ND	0.010	N/A	mg/l							
Beryllium	ND	0.0020	N/A	mg/l							
Boron	ND	0.050	N/A	mg/l							
Calcium	ND	0.10	N/A	mg/l							
Chromium	ND	0.0050	N/A	mg/l							
Iron	ND	0.040	N/A	mg/l							
Magnesium	ND	0.020	N/A	mg/l							
Nickel	ND	0.010	N/A	mg/l							
Selenium	ND	0.010	N/A	mg/l							
Silver	ND	0.010	N/A	mg/l							
Hardness (as CaCO3)	ND	1.0	N/A	mg/l							
Vanadium	ND	0.010	N/A	mg/l							
Zinc	ND	0.020	N/A	mg/l							
LCS Analyzed: 02/23/2007 (7B22143-BS1)											
Aluminum	0.446	0.050	N/A	mg/l	0.500		89	85-115			
Arsenic	0.508	0.010	N/A	mg/l	0.500		102	85-115			
Beryllium	0.511	0.0020	N/A	mg/l	0.500		102	85-115			
Boron	0.500	0.050	N/A	mg/l	0.500		100	85-115			
Calcium	2.48	0.10	N/A	mg/l	2.50		99	85-115			
Chromium	0.500	0.0050	N/A	mg/l	0.500		100	85-115			
Iron	0.507	0.040	N/A	mg/l	0.500		101	85-115			
Magnesium	2.50	0.020	N/A	mg/l	2.50		100	85-115			
Nickel	0.503	0.010	N/A	mg/l	0.500		101	85-115			
Selenium	0.494	0.010	N/A	mg/l	0.500		99	85-115			
Silver	0.252	0.010	N/A	mg/l	0.250		101	85-115			
Vanadium	0.506	0.010	N/A	mg/l	0.500		101	85-115			
Zinc	0.485	0.020	N/A	mg/l	0.500		97	85-115			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
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Batch: 7B22143 Extracted: 02/22/07

Matrix Spike Analyzed: 02/23/2007 (7B22143-MS1)

Source: IQB2022-01

Aluminum	0.483	0.050	N/A	mg/l	0.500	ND	97	70-130			
Arsenic	0.479	0.010	N/A	mg/l	0.500	ND	96	70-130			
Beryllium	0.482	0.0020	N/A	mg/l	0.500	ND	96	70-130			
Boron	0.535	0.050	N/A	mg/l	0.500	0.062	95	70-130			
Calcium	4.45	0.10	N/A	mg/l	2.50	2.1	94	70-130			
Chromium	0.470	0.0050	N/A	mg/l	0.500	0.0046	93	70-130			
Iron	0.498	0.040	N/A	mg/l	0.500	0.027	94	70-130			
Magnesium	2.60	0.020	N/A	mg/l	2.50	0.26	94	70-130			
Nickel	0.471	0.010	N/A	mg/l	0.500	ND	94	70-130			
Selenium	0.462	0.010	N/A	mg/l	0.500	ND	92	70-130			
Silver	0.247	0.010	N/A	mg/l	0.250	ND	99	70-130			
Vanadium	0.509	0.010	N/A	mg/l	0.500	0.037	94	70-130			
Zinc	0.473	0.020	N/A	mg/l	0.500	0.0043	94	70-130			

Matrix Spike Dup Analyzed: 02/23/2007 (7B22143-MSD1)

Source: IQB2022-01

Aluminum	0.480	0.050	N/A	mg/l	0.500	ND	96	70-130	1	20	
Arsenic	0.486	0.010	N/A	mg/l	0.500	ND	97	70-130	1	20	
Beryllium	0.490	0.0020	N/A	mg/l	0.500	ND	98	70-130	2	20	
Boron	0.530	0.050	N/A	mg/l	0.500	0.062	94	70-130	1	20	
Calcium	4.49	0.10	N/A	mg/l	2.50	2.1	96	70-130	1	20	
Chromium	0.475	0.0050	N/A	mg/l	0.500	0.0046	94	70-130	1	20	
Iron	0.505	0.040	N/A	mg/l	0.500	0.027	96	70-130	1	20	
Magnesium	2.62	0.020	N/A	mg/l	2.50	0.26	94	70-130	1	20	
Nickel	0.474	0.010	N/A	mg/l	0.500	ND	95	70-130	1	20	
Selenium	0.470	0.010	N/A	mg/l	0.500	ND	94	70-130	2	20	
Silver	0.247	0.010	N/A	mg/l	0.250	ND	99	70-130	0	20	
Vanadium	0.513	0.010	N/A	mg/l	0.500	0.037	95	70-130	1	20	
Zinc	0.474	0.020	N/A	mg/l	0.500	0.0043	94	70-130	0	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B23073 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23073-BLK1)											
Antimony	ND	2.0	N/A	ug/l							
Cadmium	ND	1.0	N/A	ug/l							
Copper	ND	2.0	N/A	ug/l							
Lead	ND	1.0	N/A	ug/l							
Thallium	ND	1.0	N/A	ug/l							
LCS Analyzed: 02/23/2007 (7B23073-BS1)											
Antimony	84.3	2.0	N/A	ug/l	80.0		105	85-115			
Cadmium	81.9	1.0	N/A	ug/l	80.0		102	85-115			
Copper	80.6	2.0	N/A	ug/l	80.0		101	85-115			
Lead	81.0	1.0	N/A	ug/l	80.0		101	85-115			
Thallium	82.2	1.0	N/A	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 02/23/2007 (7B23073-MS1) Source: IQB2024-01											
Antimony	94.4	2.0	N/A	ug/l	80.0	1.7	116	70-130			
Cadmium	85.0	1.0	N/A	ug/l	80.0	ND	106	70-130			
Copper	82.7	2.0	N/A	ug/l	80.0	0.80	102	70-130			
Lead	73.9	1.0	N/A	ug/l	80.0	ND	92	70-130			
Thallium	77.9	1.0	N/A	ug/l	80.0	ND	97	70-130			
Matrix Spike Dup Analyzed: 02/23/2007 (7B23073-MSD1) Source: IQB2024-01											
Antimony	94.9	2.0	N/A	ug/l	80.0	1.7	116	70-130	1	20	
Cadmium	85.0	1.0	N/A	ug/l	80.0	ND	106	70-130	0	20	
Copper	83.2	2.0	N/A	ug/l	80.0	0.80	103	70-130	1	20	
Lead	75.0	1.0	N/A	ug/l	80.0	ND	94	70-130	1	20	
Thallium	79.0	1.0	N/A	ug/l	80.0	ND	99	70-130	1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010
 Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B20044 Extracted: 02/20/07											
Blank Analyzed: 02/20/2007 (7B20044-BLK1)											
Chloride	ND	0.50	0.15	mg/l							
Fluoride	ND	0.50	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 02/20/2007 (7B20044-BS1)											
Chloride	4.96	0.50	0.15	mg/l	5.00		99	90-110			
Fluoride	4.90	0.50	0.15	mg/l	5.00		98	90-110			
Sulfate	10.2	0.50	0.45	mg/l	10.0		102	90-110			
Matrix Spike Analyzed: 02/20/2007 (7B20044-MS1) Source: IQB2022-01											
Chloride	5.66	0.50	0.15	mg/l	5.00	0.73	99	80-120			
Fluoride	5.12	0.50	0.15	mg/l	5.00	0.27	97	80-120			
Sulfate	17.2	0.50	0.45	mg/l	10.0	7.2	100	80-120			
Matrix Spike Dup Analyzed: 02/20/2007 (7B20044-MSD1) Source: IQB2022-01											
Chloride	5.58	0.50	0.15	mg/l	5.00	0.73	97	80-120	1	20	
Fluoride	5.15	0.50	0.15	mg/l	5.00	0.27	98	80-120	1	20	
Sulfate	17.0	0.50	0.45	mg/l	10.0	7.2	98	80-120	1	20	
Batch: 7B21063 Extracted: 02/21/07											
Blank Analyzed: 02/21/2007 (7B21063-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 7B21150 Extracted: 02/21/07											
Blank Analyzed: 02/22/2007 (7B21150-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

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 Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B21150 Extracted: 02/21/07											
LCS Analyzed: 02/22/2007 (7B21150-BS1)											
Total Suspended Solids	955	10	10	mg/l	1000		96	85-115			
Duplicate Analyzed: 02/22/2007 (7B21150-DUP1)											
Total Suspended Solids	29.0	10	10	mg/l		28			4	10	
Source: IQB2024-01											
Batch: 7B23078 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23078-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 02/23/2007 (7B23078-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 02/23/2007 (7B23078-DUP1)											
Total Dissolved Solids	307	10	10	mg/l		300			2	10	
Source: IQB2134-01											
Batch: 7B23104 Extracted: 02/23/07											
Blank Analyzed: 02/23/2007 (7B23104-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/23/2007 (7B23104-BS1)											
Total Cyanide	198	5.0	2.2	ug/l	200		99	90-110			
Matrix Spike Analyzed: 02/23/2007 (7B23104-MS1)											
Total Cyanide	442	10	4.4	ug/l	200	220	111	70-115			
Source: IQB2444-01											

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 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010
 Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B23104 Extracted: 02/23/07											
Matrix Spike Dup Analyzed: 02/23/2007 (7B23104-MSD1)						Source: IQB2444-01					
Total Cyanide	431	10	4.4	ug/l	200	220	106	70-115	3	15	
Batch: 7B27119 Extracted: 02/27/07											
Blank Analyzed: 02/27/2007 (7B27119-BLK1)											
Perchlorate	ND	4.0	0.80	ug/l							
LCS Analyzed: 02/27/2007 (7B27119-BS1)											
Perchlorate	46.8	4.0	0.80	ug/l	50.0		94	85-115			
Matrix Spike Analyzed: 02/27/2007 (7B27119-MS1)						Source: IQB2024-01					
Perchlorate	47.7	4.0	0.80	ug/l	50.0	ND	95	80-120			
Matrix Spike Dup Analyzed: 02/27/2007 (7B27119-MSD1)						Source: IQB2024-01					
Perchlorate	47.7	4.0	0.80	ug/l	50.0	ND	95	80-120	0	20	
Batch: 7B28085 Extracted: 02/28/07											
Blank Analyzed: 02/28/2007 (7B28085-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 02/28/2007 (7B28085-BS1)											
Oil & Grease	18.8	5.0	0.94	mg/l	20.0		94	65-120			MNRI
LCS Dup Analyzed: 02/28/2007 (7B28085-BSD1)											
Oil & Grease	19.3	5.0	0.94	mg/l	20.0		96	65-120	3	20	

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 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

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
IQB2024-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.20	4.9	15
IQB2024-01	Boron-200.7	Boron	mg/l	0.021	0.050	1.00
IQB2024-01	Boron-200.7, Diss	Boron	mg/l	0.028	0.050	1.00
IQB2024-01	Chloride - 300.0	Chloride	mg/l	61	5.0	150
IQB2024-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.42	0.15	10.00
IQB2024-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6.00
IQB2024-01	Sulfate-300.0	Sulfate	mg/l	12	0.50	250
IQB2024-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	300	10	850

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- C-7** Calibration Verification recovery was below the method control limit due to matrix interference carried over from analytical samples. The matrix interference was confirmed by reanalysis with the same result.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- L** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- M1** The MS and/or MSD were above the acceptance limits due to sample matrix interference. 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.
- R-7** LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

The result for 1,2-Diphenylhydrazine is based upon the reading of its breakdown product, Azobenzene.

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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NPDES - 660

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07
 Received: 02/19/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	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	N/A	X
EPA 335.2	Water	X	X
EPA 413.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

Alta 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: IQB2024-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-Acute 96hr
 Samples: IQB2024-01

Eberline Services

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gross Alpha
 Samples: IQB2024-01

Analysis Performed: Gross Beta
 Samples: IQB2024-01

TestAmerica - Irvine, CA

Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Annual Outfall 010

Report Number: IQB2024

Sampled: 02/19/07

Received: 02/19/07

Weck Laboratories, Inc

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

Analysis Performed: Mercury - 245.1

Samples: IQB2024-01

Analysis Performed: Mercury - 245.1, Diss

Samples: IQB2024-01

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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NPDES - 662

Del Mar Analytical CHAIN OF CUSTODY FORM

Client Name/Address:		Project:		ANALYSIS REQUIRED													Field readings		
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL NPDES Annual Outfall 010 Stormwater at Building 203		Total Recoverable Metals Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, + PP, Hardness as Ca Co3	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO4, NO3+NO2-N, F, Perchlorate	TDS, TSS	VOCS (624), NPDES + PP	VOCS A+A+2CVE	Pesticides/PCBS - PP	Gross Alpha, Gross Beta, Tritium (906.0*, Sr-90 (905), Total Combined Radium 226 & 228	SVOCs - PP	Acute Toxicity	Cyanide	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, + PP, Hardness as Ca Co3	Temp = 53.2 pH = 7.2		
Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservative	Bottle * #	Oil & Grease (EPA 413.1)	Cl-, SO4, NO3+NO2-N, F, Perchlorate	TDS, TSS	VOCS (624), NPDES + PP	VOCS A+A+2CVE	Pesticides/PCBS - PP	Gross Alpha, Gross Beta, Tritium (906.0*, Sr-90 (905), Total Combined Radium 226 & 228	SVOCs - PP	Acute Toxicity	Cyanide	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, + PP, Hardness as Ca Co3	Temp = 53.2 pH = 7.2	
Outfall 010	W	1L Poly	1	2/19/17	HNO3	1A													
Outfall 010-Dup	W	1L Poly	1		HNO3	1B													
Outfall 010	W	1L Amber	2		None	2A, 2B	X												
Outfall 010	W	1L Amber	2		HCl	3A, 3B	X												
Outfall 010	W	Poly-500 ml	2		None	4A, 4B	X												
Outfall 010	W	Poly-500 ml	2		None	5A, 5B		X											
Outfall 010	W	VOAs	3		HCl	6A, 6B, 6C			X										
Outfall 010	W	VOAs	3		None	7A, 7B, 7C				X									
Outfall 010	W	1L Amber	2		None	8A, 8B						X							
Outfall 010	W	2.5 Gal Cube 100 ml Amber VOAs	1 3		None None	9A 15A, 15B, 15C							X						
Outfall 010	W	1L Amber	2		None	10A, 10B								X					
Outfall 010	W	1 Gal Poly	1		None	11A									X				
Outfall 010	W	500ml Poly	1		NaOH	12										X			
Outfall 010	W	Poly-1L	1		None	13													
Trip Blanks	W	VOAs	3		None	14A, 14B, 14C					X								
Trip Blank	W	VOAs	3	2/19/17	HCl	16A, 16B, 16C				X									
Relinquished By				Date/Time:	Received By				Date/Time:										
Relinquished By	J. M. [Signature]			2/19/17 16:45	Received By	B. J. [Signature]			2/19/17 16:45										
Relinquished By	B. J. [Signature]			2/19/17 8:55	Received By	[Signature]			2/19/17 18:55										
Relinquished By				Date/Time:	Received By				Date/Time:										

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March 02, 2007

Alta Project I.D.: 28724

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Alta Analytical Laboratory on February 21, 2007 under your Project Name "IQB2024". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Alta 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 Alta as part of your analytical support team.

Sincerely,

Martha M. Maier
Director of HRMS Services



Alta 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 NELAP.



Alta Analytical Laboratory, Inc.

1104 Windfield Way
El Dorado Hills, CA 95762
(916) 933-1640
FAX (916) 673-0106

Section I: Sample Inventory Report

Date Received: 2/21/2007

Alta Lab. ID

Client Sample ID

28724-001

IQB2024-01

SECTION II

Method Blank		EPA Method 1613				
Matrix:	Aqueous	QC Batch No.:	8883	Lab Sample:	0-MB001	
Sample Size:	1.00 L	Date Extracted:	23-Feb-07	Date Analyzed DB-5:	26-Feb-07	
				Date Analyzed DB-225:	NA	
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Labeled Standard	%R	LCL-UCL ^d Qualifiers
2,3,7,8-TCDD	ND	0.00000105		13C-2,3,7,8-TCDD	91.5	25 - 164
1,2,3,7,8-PeCDD	ND	0.000000997		13C-1,2,3,7,8-PeCDD	92.8	25 - 181
1,2,3,4,7,8-HxCDD	ND	0.00000193		13C-1,2,3,4,7,8-HxCDD	88.5	32 - 141
1,2,3,6,7,8-HxCDD	ND	0.00000213		13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130
1,2,3,7,8,9-HxCDD	ND	0.00000197		13C-1,2,3,4,6,7,8-HpCDD	94.2	23 - 140
1,2,3,4,6,7,8-HpCDD	0.00000272		J	13C-OCDD	73.0	17 - 157
OCDD	0.0000173		J	13C-2,3,7,8-TCDF	88.4	24 - 169
2,3,7,8-TCDF	ND	0.000000896		13C-1,2,3,7,8-PeCDF	105	24 - 185
1,2,3,7,8-PeCDF	ND	0.000000819		13C-2,3,4,7,8-PeCDF	97.6	21 - 178
2,3,4,7,8-PeCDF	ND	0.00000133		13C-1,2,3,4,7,8-HxCDF	93.2	26 - 152
1,2,3,4,7,8-HxCDF	ND	0.000000566		13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123
1,2,3,6,7,8-HxCDF	ND	0.000000620		13C-2,3,4,6,7,8-HxCDF	86.2	28 - 136
2,3,4,6,7,8-HxCDF	ND	0.000000687		13C-1,2,3,7,8,9-HxCDF	100	29 - 147
1,2,3,7,8,9-HxCDF	ND	0.000000895		13C-1,2,3,4,6,7,8-HpCDF	92.1	28 - 143
1,2,3,4,6,7,8,9-HpCDF	ND	0.00000194		13C-1,2,3,4,7,8,9-HpCDF	99.5	26 - 138
1,2,3,4,7,8,9-HpCDF	ND	0.00000198		13C-OCDF	79.9	17 - 157
OCDF	ND	0.00000732		CRS 37Cl-2,3,7,8-TCDD	93.0	35 - 197
Totals						
Total TCDD	ND	0.00000105		a. Sample specific estimated detection limit.		
Total PeCDD	ND	0.00000228		b. Estimated maximum possible concentration.		
Total HxCDD	ND	0.00000201		c. Method detection limit		
Total HpCDD	0.00000272		0.00000545	d. Lower control limit - upper control limit		
Total TCDF	ND	0.000000896				
Total PeCDF	ND	0.00000129				
Total HxCDF	ND	0.000000685				
Total HpCDF	ND	0.00000342				

Analyst: MAS

Approved By:

William J. Luksemburg 01-Mar-2007 13:19

OPR Results		EPA Method 1613					
Matrix	Aqueous	QC Batch No.	8883	Lab Sample	0-COPR001		
Sample Size	1.00 L	Date Extracted	23-Feb-07	Date Analyzed DB-5	26-Feb-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	10.1	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	76.9	25 - 164	
1,2,3,7,8-PeCDD	50.0	53.4	35 - 71	13C-1,2,3,7,8-PeCDD	73.9	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	53.0	35 - 82	13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	54.4	38 - 67	13C-1,2,3,6,7,8-HxCDD	78.5	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	53.2	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	85.5	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	54.6	35 - 70	13C-OCDD	72.3	17 - 157	
OCDD	100	108	78 - 144	13C-2,3,7,8-TCDF	75.0	24 - 169	
2,3,7,8-TCDF	10.0	10.4	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	84.8	24 - 185	
1,2,3,7,8-PeCDF	50.0	53.7	40 - 67	13C-2,3,4,7,8-PeCDF	79.5	21 - 178	
2,3,4,7,8-PeCDF	50.0	55.9	34 - 80	13C-1,2,3,4,7,8-HxCDF	91.7	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	53.3	36 - 67	13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	54.6	42 - 65	13C-2,3,4,6,7,8-HxCDF	80.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	54.3	35 - 78	13C-1,2,3,7,8,9-HxCDF	96.0	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	57.1	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	53.0	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	90.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	55.6	39 - 69	13C-OCDF	83.0	17 - 157	
OCDF	100	106	63 - 170	CRS 37Cl-2,3,7,8-TCDD	78.5	35 - 197	

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:19

Sample ID: IQB2024-01

EPA Method 1613

Client Data

Name	Test America-Irvine
Project	IQB2024
Date Collected:	19-Feb-07
Time Collected:	1015

Sample Data

Matrix	Aqueous
Sample Size	1.03 L

Laboratory Data

Lab Sample	28724-001	Date Received	21-Feb-07
QC Batch No	8883	Date Extracted	23-Feb-07
Date Analyzed DIB-5:	26-Feb-07	Date Analyzed DB-225	NA

Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers
2,3,7,8-TCDD	ND	0.00000104		
1,2,3,7,8-PeCDD	ND	0.000000888		
1,2,3,4,7,8-HxCDD	ND	0.00000246		
1,2,3,6,7,8-HxCDD	ND	0.00000243		
1,2,3,7,8,9-HxCDD	ND	0.00000237		
1,2,3,4,6,7,8-HpCDD	0.00000427			J,B
OCDD	0.0000451			J,B
2,3,7,8-TCDF	ND	0.000000849		
1,2,3,7,8-PeCDF	ND	0.00000103		
2,3,4,7,8-PeCDF	ND	0.000000952		
1,2,3,4,7,8-HxCDF	ND	0.000000718		
1,2,3,6,7,8-HxCDF	ND	0.000000743		
2,3,4,6,7,8-HxCDF	ND	0.000000850		
1,2,3,7,8,9-HxCDF	ND	0.00000111		
1,2,3,4,6,7,8-HpCDF	ND	0.00000204		
1,2,3,4,7,8,9-HpCDF	ND	0.000000960		
OCDF	0.00000461			J

Labeled Standard	%R	LCL-UCL ^d	Qualifiers
IS 13C-2,3,7,8-TCDD	74.8	25 - 164	
13C-1,2,3,7,8-PeCDD	77.5	25 - 181	
13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141	
13C-1,2,3,6,7,8-HxCDD	75.6	28 - 130	
13C-1,2,3,4,6,7,8-HpCDD	83.8	23 - 140	
13C-OCDD	73.5	17 - 157	
13C-2,3,7,8-TCDF	66.5	24 - 169	
13C-1,2,3,7,8-PeCDF	79.0	24 - 185	
13C-2,3,4,7,8-PeCDF	80.0	21 - 178	
13C-1,2,3,4,7,8-HxCDF	77.4	26 - 152	
13C-1,2,3,6,7,8-HxCDF	72.5	26 - 123	
13C-2,3,4,6,7,8-HxCDF	78.4	28 - 136	
13C-1,2,3,7,8,9-HxCDF	85.2	29 - 147	
13C-1,2,3,4,6,7,8-HpCDF	83.4	28 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.2	26 - 138	
13C-OCDF	76.7	17 - 157	
CRS 37Cl-2,3,7,8-TCDD	82.5	35 - 197	

Totals

Total TCDD	ND	0.00000104	
Total PeCDD	ND	0.00000222	
Total HxCDD	ND	0.00000242	
Total HpCDD	0.0000116		B
Total TCDF	ND	0.000000849	
Total PeCDF	ND	0.000000992	
Total HxCDF	ND	0.000000847	
Total HpCDF	ND	0.00000377	

Footnotes

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

Analyst: MAS

Approved By: William J. Luksemburg 01-Mar-2007 13:19

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
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 corresponds 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

28724
3.0°C

SUBCONTRACT ORDER - PROJECT # IQB2024

SENDING LABORATORY:	RECEIVING LABORATORY:
TestAmerica - Irvine, CA 17461 Derian Avenue, Suite 100 Irvine, CA 92614 Phone: (949) 261-1022 Fax: (949) 260-3297 Project Manager: Michele Chamberlin	Alta Analytical 1104 Windfield Way El Dorado Hills, CA 95762 Phone: (916) 933-1640 Fax: (916) 673-0106 Project Location: California

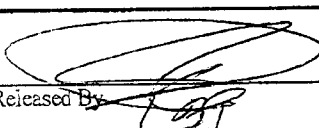
Standard TAT is requested unless specific due date is requested => Due Date: _____ Initials: _____

Analysis	Expiration	Comments
Sample ID: IQB2024-01 Water 1613-Dioxin-HR-Alta Level 4 + EDD-OUT	Sampled: 02/19/07 10:15 02/26/07 10:15 03/19/07 10:15	J flags, 17 congeners, no TEQ, ug/L, sub=Alta Excel EDD email to pm, Include Std logs for Lvl IV

Containers Supplied:
1 L Amber (IQB2024-01D)

SAMPLE INTEGRITY:

All containers intact: Yes No
 Custody Seals Present: Yes No
 Sample labels/COC agree: Yes No
 Samples Preserved Properly: Yes No
 Samples Received On Ice: Yes No
 Samples Received at (temp): 3.0°C

Released By:  Date: 2/20/07 Time: 2:10 PM
 Received By: Bettina L. Benedict Date: 2/21/07 Time: 0906

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

SAMPLE LOG-IN CHECKLIST

Alta Project #: 28724 TAT Standard

Samples Arrival:	Date/Time 2/21/07 0849	Initials: UBB	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 2/21/07 1329	Initials: FER	Location: WR-2
			Shelf/Rack: B-5
Delivered By:	<u>FedEx</u> UPS Cal DHL	Hand Delivered	Other
Preservation:	<u>Ice</u> Blue Ice	Dry Ice	None
Temp °C 3.0	Time: 0905	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 # 799090629384			
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?			None
Shipping Container	Alta	<u>Client</u>	Retain
			Return
			<u>Dispose</u>

Comments:

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: February 25, 2007
Client: Test America – Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Michele Chamberlin

Laboratory No.: A-07022006-001
Sample ID.: IQB2024-01

Sample Control: The sample was received by ATL in a chilled state, within the recommended hold time and with the chain of custody record attached.

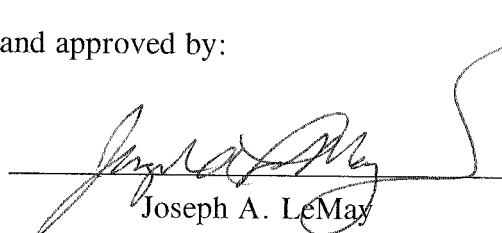
Date Sampled: 02/19/07
Date Received: 02/20/07
Temp. Received: 2°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/20/07 to 02/24/07

Sample Analysis: The following analyses were performed on your sample:
Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).
Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>Sample ID.</u>	<u>Results</u>
IQB2024-01	100% Survival (TU _a = 0.0)

Quality Control: Reviewed and approved by:


Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-07022006-001
 Client/ID: TestAmerica IQB2024-01

Start Date: 02/20/2007

TEST SUMMARY

Species: *Pimephales promelas*.
 Age: 13 (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-070206.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.9	8.8	7.8	0	0	Rv 1400
	100%	20.0	10.3	7.6	0	0	
24 Hr	Control	19.6	7.7	7.1	0	0	Rv 1200
	100%	19.9	7.8	8.0	0	0	
48 Hr	Control	19.7	7.0	7.3	0	0	Rv 1400
	100%	20.0	7.5	8.1	0	0	
Renewal	Control	20.5	8.8	7.8	0	0	Rv 1400
	100%	20.4	10.7	7.6	0	0	
72 Hr	Control	19.2	8.3	7.4	0	0	Rv 1200
	100%	19.3	7.9	8.1	0	0	
96 Hr	Control	19.2	8.1	7.4	0	0	Rv 1300
	100%	19.2	8.0	8.1	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 7.6; Conductivity: 570 umho; Temp: 2°C;
 DO: 10.3 mg/l; Alkalinity: 200 mg/l; Hardness: 151 mg/l; NH₃-N: 0.3 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
 Control: Alkalinity: 60 mg/l; Hardness: 91 mg/l; Conductivity: 325 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 %

TestAmerica

ANALYTICAL TESTING CORPORATION

SUBCONTRACT ORDER - PROJECT # IQB2024

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

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

Analysis	Expiration	Comments
Sample ID: IQB2024-01 Water Bioassay-Acute 96hr	Sampled: 02/19/07 10:15 02/20/07 22:15	FH minnow, EPA/821-R02-012, Sub to AqTox Labs
Containers Supplied: 1 gal Poly (IQB2024-01A)		

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): 2°C

Handwritten: Released By: [Signature] Date: 02/20/07 Time: 0730 Received By: [Signature] Date: 02/20/07 Time: 0730
 Released By: [Signature] Date: 02/20/07 Time: 1240 Received By: [Signature] Date: 2-20-07 Time: 12:40

**FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS**



QA/QC Batch No.: RT-070206

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 11 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: Analyst:	INITIAL			24 Hr					48 Hr				
	<u>2-6-07 1400</u>			<u>2-7-07 1200</u>					<u>2-8-07 1300</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	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.6</u>	<u>0</u>	<u>0</u>	<u>20.1</u>	<u>6.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.6</u>	<u>8.8</u>	<u>8.1</u>	<u>20.0</u>	<u>7.9</u>	<u>7.5</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.1</u>	<u>19.9</u>	<u>7.8</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>19.9</u>	<u>6.8</u>	<u>7.2</u>	<u>0</u>	<u>0</u>	<u>20.0</u>	<u>7.0</u>	<u>7.3</u>	<u>1</u>	<u>1</u>
8.0 mg/l	<u>20.6</u>	<u>8.9</u>	<u>8.0</u>	<u>20.0</u>	<u>5.7</u>	<u>7.1</u>	<u>10</u>	<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Date/Time: Analyst:	RENEWAL			72 Hr					96 Hr				
	<u>2-8-07 1300</u>			<u>2-9-07 1200</u>					<u>2-10-07 1300</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	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>7.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>5.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>20.5</u>	<u>9.0</u>	<u>7.8</u>	<u>20.1</u>	<u>6.9</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.6</u>	<u>7.3</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.0</u>	<u>7.1</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.7</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>20.5</u>	<u>9.1</u>	<u>7.8</u>	<u>20.1</u>	<u>6.7</u>	<u>7.3</u>	<u>0</u>	<u>0</u>	<u>20.4</u>	<u>6.3</u>	<u>7.2</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Comments:

Control: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 360 umho.

SDS: Alkalinity: 61 mg/l; Hardness: 91 mg/l; Conductivity: 350 umho.

Acute Fish Test-96 Hr Survival

Start Date: 06 Feb-07 14:00 Test ID: RT-070206f Sample ID: REF-Ref Toxicant
 End Date: 10 Feb-07 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 06 Feb-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	0.9000	0.9000
8	0.0000	0.0000

Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
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	0.9000	0.9000	1.2490	1.2490	1.2490	0.000	2	2	20	
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20	

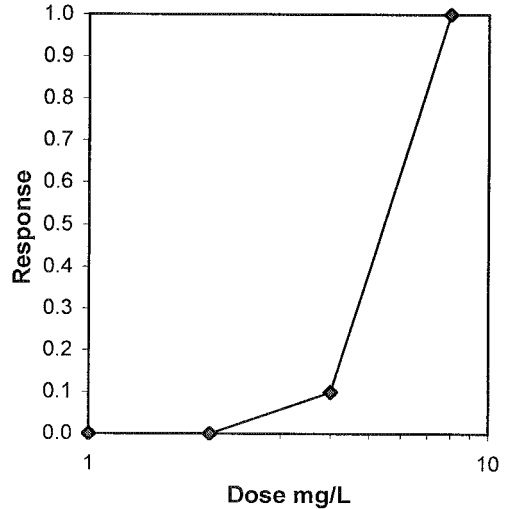
Auxiliary Tests

Normality of the data set cannot be confirmed
 Equality of variance cannot be confirmed

Statistic Critical Skew Kurt

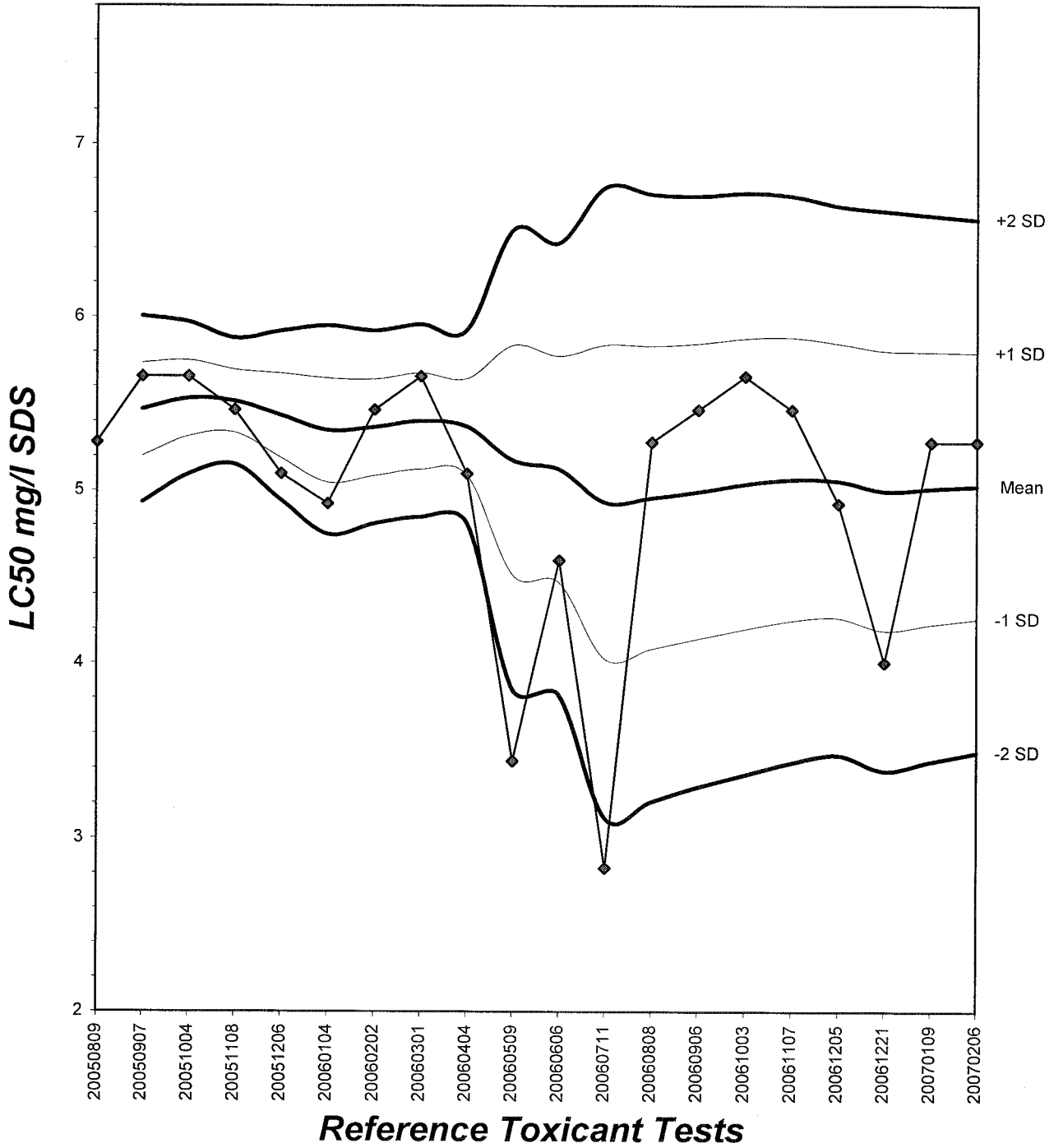
Trimmed Spearman-Kärber

Trim Level	EC50	95% CL	
0.0%	5.2780	4.8093	5.7924
5.0%	5.3968	4.8053	6.0611
10.0%	5.4432	5.1395	5.7648
20.0%	5.4432	5.1395	5.7648
Auto-0.0%	5.2780	4.8093	5.7924



Fathead Minnow Acute Laboratory Control Chart

CV% = 15.3



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-070206

SOURCE: In-Lab Culture

DATE HATCHED: 1-26-07

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 2/6/7

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.: 20.6 °C pH: 8.0 Ammonia: <0.1 mg/l NH₃-N

DO: 7.8 mg/l Alkalinity: 61 mg/l Hardness: 91 mg/l

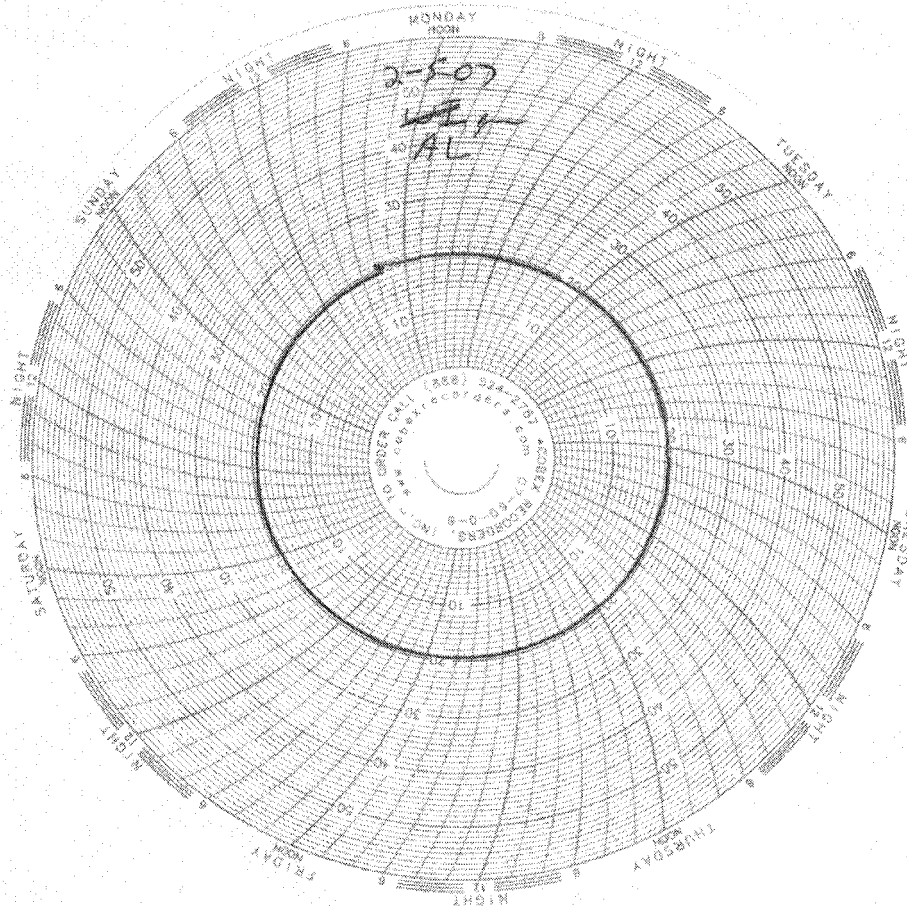
READINGS RECORDED BY: [Signature] DATE: 2-7-7

Laboratory Temperature Chart

QA/QC Batch No: RT-070206

Date Tested: 02/06/07 to 02/10/07

Acceptable Range: 20+/- 1°C





EBERLINE

SERVICES

March 23, 2007

Ms. Michele Chamberlin
Test America, Inc.
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Reference: Test America Project No. IQB2024
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R702124-8659

Dear Ms. Chamberlin:

Enclosed are results from the analyses of one water sample received at Eberline Services on February 21, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analyses were gross alpha/gross beta (EPA900.0). The sample was not filtered prior to analysis; the sample was prepared for analysis within 5 days of collection. Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual. A level IV data package will follow within one week.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Report
Subcontract Form
Receipt checklist
Invoice

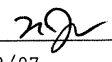
Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com
NPDES - 683

Eberline Services

ANALYSIS RESULTS

SDG <u>8659</u>	Client <u>TA IRVINE</u>
Work Order <u>R702124-01</u>	Contract <u>PROJECT# IQB2024</u>
Received Date <u>02/21/07</u>	Matrix <u>WATER</u>

<u>Client</u>	<u>Lab</u>	<u>Collected</u>	<u>Analyzed</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>Units</u>	<u>MDA</u>
<u>Sample ID</u>	<u>Sample ID</u>						
IQB2024-01	8659-001	02/19/07	03/10/07	GrossAlpha	0.236 ± 1.0	pCi/L	1.6
			03/10/07	Gross Beta	26.8 ± 1.6	pCi/L	1.5

Certified by <u></u>
Report Date <u>03/23/07</u>
Page 1

SUBCONTRACT ORDER - PROJECT # IQB2024

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:

Eberline Services
2030 Wright Avenue
Richmond, CA 94804
Phone: (510) 235-2633
Fax: (510) 235-0438

21059

Project Location: California

Standard TAT is requested unless specific due date is requested => Due Date: 3 Wk TAT Initials: MC

Analysis	Expiration	Comments
Sample ID: IQB2024-01 Water	Sampled: 02/19/07 10:15	
EDD + Level 4	03/19/07 10:15	
Gross Alpha-O	08/18/07 10:15	* DONT FILTER, 900.0, RESULT > 15 pCi/L, run Rad 226&228
Gross Beta-O	08/18/07 10:15	* DONT FILTER, 900.0, RESULT > 50 pCi/L, run Rad 226&228
Radium, Combined-O	02/19/08 10:15	HOLD for G A&B results; EPA 903.1&904.0, NO FILTER
Strontium 90-O	02/19/08 10:15	HOLD HOLD for Ra 226&228 results, EPA 905.0, DONT FILTER
Tritium-O	02/19/08 10:15	HOLD for Ra 226&228 results, EPA 906.0, DONT FILTER

Containers Supplied:

- 2.5 gal Poly (IQB2024-01R)
- 40 ml Amber Voa Vial (IQB2024-01S)
- 40 ml Amber Voa Vial (IQB2024-01T)
- 40 ml Amber Voa Vial (IQB2024-01U)

* 5 day hold time
MC

SAMPLE INTEGRITY:

All containers intact: Yes No
Custody Seals Present: Yes No
Sample labels/COC agree: Yes No
Samples Preserved Properly: Yes No
Samples Received On Ice: Yes No
Samples Received at (temp): _____

Released By: [Signature] Date: 2/20/07 Time: _____ Received By: [Signature] Date: 02/21/07 Time: 9:00

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____



RICHMOND, CA LABORATORY
SAMPLE RECEIPT CHECKLIST

JK 2/21/07

Client: TEST AMERICA City IRVINE State CA

Date/Time received 02/21/07 9:00 CoC No. 1032024

Container I.D. No. 02/21/07 TEST Requested TAT (Days) 21 P.O. Received Yes [] No []

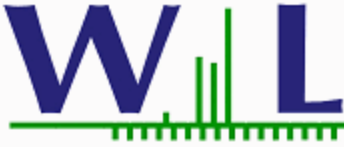
INSPECTION

- 1. Custody seals on shipping container intact? Yes [] No [] N/A []
- 2. Custody seals on shipping container dated & signed? Yes [] No [] N/A []
- 3. Custody seals on sample containers intact? Yes [] No [] N/A []
- 4. Custody seals on sample containers dated & signed? Yes [] No [] N/A []
- 5. Packing material is: Wet [] Dry []
- 6. Number of samples in shipping container: 1 Sample Matrix W
- 7. Number of containers per sample: 4 (Or see CoC _____)
- 8. Samples are in correct container Yes [] No []
- 9. Paperwork agrees with samples? Yes [] No []
- 10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels []
- 11. Samples are: In good condition [] Leaking [] Broken Container [] Missing []
- 12. Samples are: Preserved [] Not preserved [] pH _____ Preservative _____
- 13. Describe any anomalies:

- 14. Was P.M. notified of any anomalies? Yes [] No [] Date _____
- 15. Inspected by *JK* Date: 02/21/07 Time: 10:15

Customer Sample No.	cpm	mR/hr	Wipe	Customer Sample No.	cpm	mR/hr	wipe

Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. _____ Calibration date _____



CERTIFICATE OF ANALYSIS

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

Report Date: 03/20/07 14:41
Received Date: 02/22/07 10:58
Turn Around: Normal

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

Work Order #: 7022248
Client Project: IQB2024

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 Michele Chamberlin :

Enclosed are the results of analyses for samples received 02/22/07 10:58 with the Chain of Custody document. The samples were received in good condition, at 7.7 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Taylor Maligmat
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: 7022248
Project ID: IQB2024

Date Received: 02/22/07 10:58
Date Reported: 03/20/07 14:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQB2024-01	client		7022248-01	Water	02/19/07 10:15



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

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Irvine CA, 92614

Report ID: 7022248
Project ID: IQB2024

Date Received: 02/22/07 10:58
Date Reported: 03/20/07 14:41

IQB2024-01 7022248-01 (Water)

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	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1096	02/28/07	03/01/07	jl
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7B1096	02/28/07	03/01/07	jl



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

Report ID: 7022248
Project ID: IQB2024

Date Received: 02/22/07 10:58
Date Reported: 03/20/07 14:41

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: 7022248
 Project ID: IQB2024

Date Received: 02/22/07 10:58
 Date Reported: 03/20/07 14:41

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7B1096 - EPA 245.1										
Blank (W7B1096-BLK1)				Analyzed: 03/01/07						
Mercury, Total	ND	0.10	ug/l							
Mercury, Dissolved	ND	0.10	ug/l							
LCS (W7B1096-BS1)				Analyzed: 03/01/07						
Mercury, Total	0.913	0.10	ug/l	1.00		91.3	85-115			
Mercury, Dissolved	0.913	0.10	ug/l	1.00		91.3	85-115			
Matrix Spike (W7B1096-MS1)				Source: 7022253-07		Analyzed: 03/01/07				
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 (W7B1096-MS2)				Source: 7022253-10		Analyzed: 03/01/07				
Mercury, Total	0.928	0.10	ug/l	1.00	ND	92.8	70-130			
Mercury, Dissolved	0.928	0.10	ug/l	1.00	ND	92.8	70-130			
Matrix Spike Dup (W7B1096-MSD1)				Source: 7022253-07		Analyzed: 03/01/07				
Mercury, Total	1.10	0.10	ug/l	1.00	ND	110	70-130	5.61	20	
Mercury, Dissolved	1.10	0.10	ug/l	1.00	ND	110	70-130	5.61	20	
Matrix Spike Dup (W7B1096-MSD2)				Source: 7022253-10		Analyzed: 03/01/07				
Mercury, Total	1.09	0.10	ug/l	1.00	ND	109	70-130	16.1	20	
Mercury, Dissolved	1.09	0.10	ug/l	1.00	ND	109	70-130	16.1	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: 7022248
Project ID: IQB2024

Date Received: 02/22/07 10:58
Date Reported: 03/20/07 14:41

Notes and Definitions

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.

APPENDIX G

Section 17

Outfall 006, February 27, 2007

MEC^X Data Validation Reports



DATA VALIDATION REPORT

NPDES Monitoring Program
Annual Outfall 006

ANALYSIS: DIOXINS/FURANS
SAMPLE DELIVERY GROUP: IQB2967

Prepared by
MEC^X, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES
Contract Task Order: 1261.100D.00
Sample Delivery Group: IQB2967
Project Manager: P. Costa
Matrix: Water
Analysis: Dioxins/Furans
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: E. Wessling
Date of Review: April 27, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *MEC^x Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0)*, *USEPA Method 1613*, and the *National Functional Guidelines for Chlorinated Dioxin/Furan Data Review (8/02)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (TestAmerica-Irvine)	Laboratory ID (Alta)	Matrix	COC Method
Outfall 006	IQB2967-01	28755-001	Water	1613

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica-Irvine within the temperature limits of 4°C ±2°C. The sample was shipped to Alta for dioxin/furan analysis and was below the temperature limits at 1.6°C; however, as the sample was in good condition and not frozen, no qualifications were required. According to the case narrative and laboratory login sheet, the sample was received intact and in good condition at both laboratories. No qualifications were required.

2.1.2 Chain of Custody

The COC and transfer COC were legible and signed by the appropriate field and laboratory personnel, and accounted for the analysis presented in this SDG. As the sample was couriered directly to TestAmerica-Irvine, custody seals were not required. Custody seals were present on the coolers from TestAmerica to Alta; however, no sample container custody seals were present. The Client ID was added to the sample result summary by the reviewer. No qualifications were required.

2.1.3 Holding Times

The sample was extracted and analyzed within one year of collection. No qualifications were required.

2.2 INSTRUMENT PERFORMANCE

Following are findings associated with instrument performance:

2.2.1 GC Column Performance

A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards (see section 2.3.2). The GC column performance in the calibrations were acceptable, with the height of the valley between the closely eluting isomers and 2,3,7,8-TCDD reported as less than 25%. No qualifications were required.

2.2.2 Mass Spectrometer Performance

The mass spectrometer performance was acceptable with the static resolving power greater than 10,000. No qualifications were required.

2.3 CALIBRATION

2.3.1 Initial Calibration

The initial calibration was analyzed 10/24/2006 on instrument VG-5. The calibration consisted of six concentration level standards (CS0 through CS5) analyzed to verify instrument linearity. The initial calibrations were acceptable with %RSDs $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the QC limits listed in Method 1613 for all standards. A representative number of %RSDs were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

2.3.2 Continuing Calibration

Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits. A representative number of %Ds were verified from the raw data, and no calculation or transcription errors were noted. No qualifications were required.

WDM and isomer specificity compounds were added to the VER standard instead of being analyzed separately, as noted in section 2.2.1 of this report. No adverse effect was observed with this practice.

2.4 BLANKS

One method blank (8913-MB001) was extracted and analyzed with the sample in this SDG. No target compounds were reported in the method blank at concentrations below the laboratory lower calibration level. A review of the method blank raw data and chromatograms indicated no false negatives. No qualifications were required.

2.5 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

One blank spike (8913-OPR001) was extracted and analyzed with the sample in this SDG. All recoveries were within the acceptance criteria listed in Table 6 of Method 1613 with the exception of a few targets were above the acceptance criteria. As the target compounds were not detected in the associated sample, no qualifications were required. A review of the raw data and chromatograms indicated no transcription or calculation errors. No qualifications were required.

2.6 MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD analyses were not performed in this SDG. Evaluation of method accuracy was based on the OPR results. No qualifications were required.

2.7 FIELD QC SAMPLES

Following are findings associated with field QC:

2.7.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no field blank or equipment rinsate identified. No qualifications of the site samples were required.

2.7.2 Field Duplicates

No field duplicates were identified in association with the sample in this SDG.

2.8 INTERNAL STANDARDS

The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613. No qualifications were required.

2.9 COMPOUND IDENTIFICATION

The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. The compound identifications were verified from the raw data and no false negatives or positives were noted. No qualifications were required.

2.10 COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantitation was verified from the raw data. The laboratory calculated and reported compound-specific detection limits. OCDD detected below the laboratory lower calibration level was qualified as estimated, "J," by the laboratory. This "J" value was annotated with the qualification code of "DNQ" to comply with the reporting requirements of the NPDES permit. No further qualifications were required.

Sample ID: IQB2967-01

EPA Method 1613

Client Data		Sample Data		Laboratory Data				
Name:	Test America-Irvine	Matrix:	Aqueous	Lab Sample:	28755-001			
Project:	IQB2967	Sample Size:	1.01 L	QC Batch No:	8913			
Date Collected:	27-Feb-07			Date Analyzed DB-5:	22-Mar-07			
Time Collected:	1130			Date Analyzed DB-225:	N/A			
Date Analyzed DB-5:				Date Received:	1-Mar-07			
Date Analyzed DB-225:				Date Extracted:	6-Mar-07			
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.000000521			IS 13C-2,3,7,8-TCDD	78.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000124			13C-1,2,3,7,8-PeCDD	72.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.000000300			13C-1,2,3,4,7,8-HxCDD	76.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000138			13C-1,2,3,6,7,8-HxCDD	81.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000131			13C-1,2,3,4,6,7,8-HpCDD	54.6	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000290			13C-OCDD	38.6	17 - 157	
OCDD	0.00000350			J	13C-2,3,7,8-TCDF	76.3	24 - 169	
2,3,7,8-TCDF	ND	0.000000466			13C-1,2,3,7,8-PeCDF	70.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.000000589			13C-2,3,4,7,8-PeCDF	65.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.000000614			13C-1,2,3,4,7,8-HxCDF	83.3	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000543			13C-1,2,3,6,7,8-HxCDF	91.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000548			13C-2,3,4,6,7,8-HxCDF	87.6	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000658			13C-1,2,3,7,8,9-HxCDF	73.5	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000117			13C-1,2,3,4,6,7,8-HpCDF	59.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000112			13C-1,2,3,4,7,8,9-HpCDF	44.6	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000141			13C-OCDF	31.8	17 - 157	
OCDF	ND	0.00000242			CRS 37Cl-2,3,7,8-TCDD	94.3	35 - 197	
Totals								
Total TCDD	ND	0.000000521						
Total PeCDD	ND	0.00000124						
Total HxCDD	ND	0.00000190						
Total HpCDD	0.000000639							
Total TCDF	ND	0.000000466						
Total PeCDF	ND	0.000000602						
Total HxCDF	ND	0.000000730						
Total HpCDF	ND	0.00000126						

Footnotes

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

Analyst: RAS

Approved By: Martha M. Maier 23-Mar-2007 14:09

Local XX



DATA VALIDATION REPORT

NPDES Sampling
Outfall 006

ANALYSIS: RADIONUCLIDES

SAMPLE DELIVERY GROUP: IQB2967

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^x Project Number: 1261.100D.00
Sample Delivery Group: IQB2967
Project Manager: P. Costa
Matrix: Water
Analysis: Radionuclides
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: April 28, 2007

The samples listed in Table 1 were validated based on the guidelines outlined in the *EPA Prescribed Procedures for Measurements of Radioactivity in Drinking Water, Method 900.0*, and validation procedures outlined in the *USEPA CLP National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form I with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID (Del Mar)	Laboratory ID (Eberline)	Matrix	COC Method
Outfall 006	IQA2967-01	8665-001	Water	900.0

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica within the temperature limits of $4\pm 2^{\circ}\text{C}$. No temperature information was provided by Eberline, the subcontract laboratory; however, as it is not necessary to chill radiological samples, no qualifications were required. The samples were noted to have been received intact, in good condition, with cooler and sample container custody seals intact.

According to the LARWQCB guidance letter dated 01/12/05, unfiltered samples should not be preserved and filtered aliquots should be preserved after filtration. All aliquots were received at Eberline unfiltered and unpreserved and were neither preserved nor filtered after receipt. No qualifications were required.

2.1.2 Chain of Custody

The original COC was signed and dated by field and laboratory personnel. The transfer COC was signed by personnel from both laboratories. The gross beta analysis was requested by MWH personnel on 4/1/07. Eberline did not list the MWH ID on the Form I; therefore, the reviewer edited the Form I to reflect this ID. No qualifications were required.

2.1.3 Holding Times

The gross beta aliquot was prepared beyond the five-day analytical holding time for unpreserved samples; therefore, gross beta detected in Outfall 006 was qualified as estimated, "J." No further qualifications were necessary.

2.2 CALIBRATION

The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability. The initial calibration included with the data was performed in February 2003. The gross beta detector efficiency was $\geq 20\%$. No qualifications were required.

2.3 BLANKS

No measurable activity was detected in the method blank; therefore, no qualifications were necessary.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

An aqueous blank spike was analyzed in association with the sample in this SDG. The gross beta recovery was within the laboratory-established control limits. No qualifications were necessary.

2.5 LABORATORY DUPLICATES

The laboratory performed duplicate analyses on Outfall 006 for gross beta. The RPD was within the laboratory-established control limit. No qualifications were necessary.

2.6 MATRIX SPIKES

The laboratory performed a matrix spike analysis on Outfall 006 for gross beta. The recovery was within the laboratory-established control limits. No qualifications were necessary.

2.7 SAMPLE RESULT VERIFICATION

An EPA Level IV review was performed for the sample in this data package. The sample result and MDA reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. No qualifications were necessary.

2.8 FIELD QC SAMPLES

Field QC samples were evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample.

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate samples in this SDG.

Eberline Services

ANALYSIS RESULTS

Outfall 006

SDG <u>8665</u>	Client <u>TA IRVINE</u>
Work Order <u>R704064-01</u>	Contract <u>PROJECT# IQB2967</u>
Received Date <u>04/11/07</u>	Matrix <u>WATER</u>

Rev
Code
S
H

Client	Lab	Sample ID	Collected	Analyzed	Nuclide	Results + 2σ	Units	MDA
IQB2967-01	8665-001	02/27/07	04/17/07	Gross Beta	23.5 ± 2.2	pCi/L	2.0	

Level IV

Certified by <u>[Signature]</u>
Report Date <u>04/18/07</u>
Page 1



DATA VALIDATION REPORT

NPDES Sampling
Annual Outfall 006

ANALYSIS: GENERAL MINERALS

SAMPLE DELIVERY GROUP: IQB2967

Prepared by

MEC^x, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.001D.01
Sample Delivery Group: IQB2967
Project Manager: P. Costa
Matrix: Water
Analysis: General Minerals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: E. Wessling
Date of Review: April 30, 2007

The sample listed in Table 1 was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *USEPA Method 160.2*, and validation guidelines outlined in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form Is as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	Laboratory ID	Matrix	COC Method
Outfall 006	IQB2967-01	Water	160.2

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at the laboratory within the temperature limits of $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. No preservation problems were noted by the laboratory and no qualifications were required.

2.1.2 Chain of Custody

The COC was signed and dated by field and laboratory personnel and accounted for the sample and the analysis presented in this SDG. As the sample was couriered directly from the field to the laboratory, custody seals were not necessary. No qualifications were required.

2.1.3 Holding Times

The holding times were assessed by comparing the date of collection with the dates of analyses. The TSS analysis was performed within the analytical holding time of seven days from collection. No qualifications were required.

2.2 CALIBRATION

The balance calibration was reviewed and deemed acceptable. No qualifications were required.

2.3 BLANKS

There were no detects in the method blank associated with the sample analyses. Raw data was reviewed to verify the blank data. No qualifications were required.

2.4 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The reported LCS recovery was within the laboratory-established control limits. No qualifications were required.

2.5 LABORATORY DUPLICATES

Laboratory duplicate analyses were performed for TSS on a sample in another SDG; therefore, precision could not be evaluated. No qualifications were required.

2.6 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Evaluation of method accuracy was based on the LCS result. No qualifications were required.

2.7 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified, and the sample result reported on the Form I was verified against the raw data. No qualifications were required.

2.8 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated sample. The following are findings associated with field QC samples:

2.8.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.8.2 Field Duplicates

There were no field duplicate pairs associated with this SDG.

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2967-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B27040	3.0	10	58	20	02/27/07	02/27/07	*
Nitrate/Nitrite-N	EPA 300.0	7B27040	0.080	0.15	0.33	1	02/27/07	02/27/07	
Oil & Grease	EPA 413.1	7C08093	0.89	4.7	ND	1	03/08/07	03/08/07	
Sulfate	EPA 300.0	7B27040	0.45	0.50	15	1	02/27/07	02/27/07	
Total Dissolved Solids	SM2540C	7C02071	10	10	290	1	03/02/07	03/02/07	
Total Suspended Solids	EPA 160.2	7C02122	10	10	13	1	03/02/07	03/05/07	

Rev
Qual | *Qual*
code
code

Level IX

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

** analysis not validated*

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IQB2967 <Page 4 of 12>

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC^x
 12269 East Vassar Drive
 Aurora, CO 80014

Package ID: B4MT120
 Task Order: 1261.100D.00
 SDG No.: IQB2967

No. of Analyses: 1

Laboratory: TestAmerica
 Reviewer: P. Meeks
 Analysis/Method: Metals

Date: <u>May 3, 2007</u>
Reviewer's Signature <i>P. Meeks</i>

ACTION ITEMS ^a	
1. Case Narrative Deficiencies	_____
2. Out of Scope Analyses	_____
3. Analyses Not Conducted	_____
4. Missing Hardcopy Deliverables	_____
5. Incorrect Hardcopy Deliverables	_____
6. Deviations from Analysis Protocol, e.g.,	Qualification applied for a detect below the reporting limit.
Holding Times	_____
GC/MS Tune/Inst. Performance	_____
Calibration	_____
Method blanks	_____
Surrogates	_____
Matrix Spike/Dup LCS	_____
Field QC	_____
Internal Standard Performance	_____
Compound Identification	_____
Quantitation	_____
System Performance	_____
COMMENTS^b	
^a Subcontracted analytical laboratory is not meeting contract and/or method requirements. ^b Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.	



DATA VALIDATION REPORT

NPDES Sampling
Outfall 006

ANALYSIS: METALS

SAMPLE DELIVERY GROUP IQB2967

Prepared by

MECX, LLC
12269 East Vassar Drive
Aurora, CO 80014

1. INTRODUCTION

Task Order Title: NPDES Sampling
MEC^X Project Number: 1261.100D.00
Sample Delivery Group: IQB2967
Project Manager: P. Costa
Matrix: Water
Analysis: Metals
QC Level: Level IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Reviewer: P. Meeks
Date of Review: May 3, 2007

The sample listed in Table 1 was validated based on the guidelines outlined in the MEC^X *Data Validation Procedure for ICP and ICP-MS Metals (DVP-5, Rev. 0)*, EPA Method 245.1, and validation guidelines outlined in the USEPA CLP *National Functional Guidelines for Inorganic Data Review (2/94)*. Any deviations from these procedures and guidelines are documented herein. Qualifiers were applied in cases where the data did not meet the required QC criteria or where special consideration by the data user is required. Data qualifiers were placed on Form Is with the associated qualification codes. Analytes that were rejected for any reason are denoted on the Form I as having only the "R" data qualifier and associated qualification code(s) denoting the reason for rejection. Any additional problems with the data that may have resulted in an estimated value were not denoted by a qualification code since the data had already been rejected.

Table 1. Sample Identification

Client ID	TestAmerica Laboratory ID	Weck Laboratory ID	Matrix	COC Method
Outfall 006	IQA2967-01	7022815-01	Water	245.1, total and dissolved

2. DATA VALIDATION FINDINGS

2.1 SAMPLE MANAGEMENT

Following are findings associated with sample management:

2.1.1 Sample Preservation, Handling, and Transport

The sample in this SDG was received at TestAmerica and the subcontract laboratory, Weck within the temperature limits of 4°C ±2°C. No sample preservation, handling, or transport problems were noted, and no qualifications were necessary.

2.1.2 Chain of Custody

The original and transfer COCs were signed and dated by the appropriate field and/or laboratory personnel and accounted for the sample and analyses presented in this SDG. As the sample was transported directly from the field to TestAmerica, custody seals were not necessary. Custody seals were not present upon receipt at Weck. No sample qualifications were required.

2.1.3 Holding Times

The date of collection recorded on the COC and the date of analysis recorded in the raw data documented that the sample analyses were performed within the specified holding time of 28 days for mercury. No qualifications were required.

2.2 ICP-MS TUNING

As ICP-MS was not utilized for the analysis, the ICP-MS tune criteria are not applicable.

2.3 CALIBRATION

The mercury initial calibration r^2 was ≥ 0.995 . The ICV and CCV results showed acceptable recoveries, 85-115% for mercury. No qualifications were required.

2.4 BLANKS

Mercury was not detected in any of the blanks associated with the site sample analysis. No qualifications were required.

2.5 ICP INTERFERENCE CHECK SAMPLE (ICS A/AB)

As neither ICP nor ICP-MS were utilized for the analysis, the interference check sample results are not applicable.

2.6 BLANK SPIKES AND LABORATORY CONTROL SAMPLES

The recoveries were within the laboratory-established control limits of 85-115%. No qualifications were required.

2.7 LABORATORY DUPLICATES

No laboratory duplicate analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.8 MATRIX SPIKES

No MS/MSD analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion. Method accuracy was evaluated based on the LCS results. No qualifications were required.

2.9 ICP/MS AND ICP SERIAL DILUTION

No serial dilution analyses were performed in association with the sample in this SDG; therefore, no assessment was made with respect to this criterion.

2.10 INTERNAL STANDARDS PERFORMANCE

As ICP-MS was not utilized for the analysis, the ICP-MS internal standard results are not applicable.

2.11 SAMPLE RESULT VERIFICATION

A Level IV review was performed for the sample in this data package. Calculations were verified and the sample results reported on the Form I were verified against the raw data. No transcription errors or calculation errors were noted. Total mercury was detected between the MDL and the reporting limit; therefore, total mercury was qualified as estimated, "J," and denoted with "DNQ" in accordance with the NPDES permit. No further qualifications were required.

2.12 FIELD QC SAMPLES

Field QC samples are evaluated, and if necessary, qualified based only on laboratory blanks. Any remaining detects are used to evaluate the associated samples.

2.12.1 Field Blanks and Equipment Rinsates

The sample in this SDG had no associated field QC samples. No qualifications were required.

2.12.2 Field Duplicates

There were no field duplicate analyses performed in association with the site sample.



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: 7022815 Project ID: IQB2967	Date Received: 02/28/07 10:30 Date Reported: 03/20/07 20:26
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IQB2967-01 7022815-01 (Water)

Outfall 006

Metals by EPA 200 Series Methods

Analyte	Rev Qual	Qual Code	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed	Data Qualifiers
Mercury, Dissolved	U		ND	0.050	ug/l	0.20	1	EPA 245.1	W7C0122	03/04/07	03/13/07	jl
Mercury, Total	J	DNQ	0.057	0.050	ug/l	0.20	1	EPA 245.1	W7C0122	03/04/07	03/13/07	jl J

LEVEL IV

APPENDIX G

Section 18

Outfall 006, February 27, 2007

Test America Analytical Laboratory Report

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project: Routine Outfall 006

Sampled: 02/27/07
Received: 02/27/07
Issued: 04/18/07 16:39

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, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

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

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

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

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

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

ADDITIONAL INFORMATION: Enclosed are complete final results. The results for subcontract analyses were added.

LABORATORY ID
IQB2967-01

CLIENT ID
Outfall 006

MATRIX
Water

Reviewed By:



TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2967-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	7B28065	0.050	2.0	0.45	1	02/28/07	02/28/07	J
Cadmium	EPA 200.8	7B28065	0.025	1.0	0.12	1	02/28/07	02/28/07	J
Copper	EPA 200.8	7B28065	0.25	2.0	1.7	1	02/28/07	02/28/07	J
Lead	EPA 200.8	7B28065	0.040	1.0	1.1	1	02/28/07	02/28/07	
Thallium	EPA 200.8	7B28065	0.15	1.0	ND	1	02/28/07	02/28/07	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2967-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7B28136	0.050	2.0	0.46	1	02/28/07	03/01/07	J
Cadmium	EPA 200.8-Diss	7B28136	0.050	1.0	ND	1	02/28/07	03/01/07	
Copper	EPA 200.8-Diss	7B28136	0.40	2.0	0.50	1	02/28/07	03/01/07	J
Lead	EPA 200.8-Diss	7B28136	0.10	1.0	ND	1	02/28/07	03/01/07	
Thallium	EPA 200.8-Diss	7B28136	0.15	1.0	ND	1	02/28/07	03/01/07	

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 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQB2967-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7B27040	3.0	10	58	20	02/27/07	02/27/07	
Nitrate/Nitrite-N	EPA 300.0	7B27040	0.080	0.15	0.33	1	02/27/07	02/27/07	
Oil & Grease	EPA 413.1	7C08093	0.89	4.7	ND	1	03/08/07	03/08/07	
Sulfate	EPA 300.0	7B27040	0.45	0.50	15	1	02/27/07	02/27/07	
Total Dissolved Solids	SM2540C	7C02071	10	10	290	1	03/02/07	03/02/07	
Total Suspended Solids	EPA 160.2	7C02122	10	10	13	1	03/02/07	03/05/07	

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 Michele Chamberlin
 Project Manager

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IQB2967 <Page 4 of 12>

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

SHORT HOLD TIME DETAIL REPORT

Sample ID: Outfall 006 (IQB2967-01) - Water EPA 300.0	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
	2	02/27/2007 11:30	02/27/2007 19:15	02/27/2007 18:00	02/27/2007 22:43

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 Michele Chamberlin
 Project Manager

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IQB2967 <Page 5 of 12>

NPDES - 727

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7B28065 Extracted: 02/28/07											
Blank Analyzed: 02/28/2007 (7B28065-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.025	ug/l							
Copper	ND	2.0	0.25	ug/l							
Lead	ND	1.0	0.040	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 02/28/2007 (7B28065-BS1)											
Antimony	79.3	2.0	0.050	ug/l	80.0		99	85-115			
Cadmium	78.6	1.0	0.025	ug/l	80.0		98	85-115			
Copper	84.4	2.0	0.25	ug/l	80.0		106	85-115			
Lead	85.9	1.0	0.040	ug/l	80.0		107	85-115			
Thallium	86.3	1.0	0.15	ug/l	80.0		108	85-115			
Matrix Spike Analyzed: 02/28/2007 (7B28065-MS1) Source: IQB0465-04RE2											
Antimony	75.2	2.0	0.050	ug/l	80.0	0.054	94	70-130			
Cadmium	72.8	1.0	0.025	ug/l	80.0	ND	91	70-130			
Copper	80.9	2.0	0.25	ug/l	80.0	ND	101	70-130			
Lead	81.1	1.0	0.040	ug/l	80.0	ND	101	70-130			
Thallium	82.2	1.0	0.15	ug/l	80.0	ND	103	70-130			
Matrix Spike Dup Analyzed: 02/28/2007 (7B28065-MSD1) Source: IQB0465-04RE2											
Antimony	78.0	2.0	0.050	ug/l	80.0	0.054	97	70-130	4	20	
Cadmium	75.2	1.0	0.025	ug/l	80.0	ND	94	70-130	3	20	
Copper	82.6	2.0	0.25	ug/l	80.0	ND	103	70-130	2	20	
Lead	81.8	1.0	0.040	ug/l	80.0	ND	102	70-130	1	20	
Thallium	83.4	1.0	0.15	ug/l	80.0	ND	104	70-130	1	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

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: 7B28136 Extracted: 02/28/07											
Blank Analyzed: 03/01/2007 (7B28136-BLK1)											
Antimony	ND	2.0	0.050	ug/l							
Cadmium	ND	1.0	0.050	ug/l							
Copper	ND	2.0	0.40	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 03/01/2007 (7B28136-BS1)											
Antimony	82.8	2.0	0.050	ug/l	80.0		104	85-115			
Cadmium	86.3	1.0	0.050	ug/l	80.0		108	85-115			
Copper	77.8	2.0	0.40	ug/l	80.0		97	85-115			
Lead	78.7	1.0	0.10	ug/l	80.0		98	85-115			
Thallium	77.9	1.0	0.15	ug/l	80.0		97	85-115			
Matrix Spike Analyzed: 03/01/2007 (7B28136-MS1) Source: IQB2967-01											
Antimony	81.5	2.0	0.050	ug/l	80.0	0.46	101	70-130			
Cadmium	80.2	1.0	0.050	ug/l	80.0	ND	100	70-130			
Copper	76.6	2.0	0.40	ug/l	80.0	0.50	95	70-130			
Lead	75.4	1.0	0.10	ug/l	80.0	ND	94	70-130			
Thallium	73.1	1.0	0.15	ug/l	80.0	ND	91	70-130			
Matrix Spike Dup Analyzed: 03/01/2007 (7B28136-MSD1) Source: IQB2967-01											
Antimony	83.3	2.0	0.050	ug/l	80.0	0.46	104	70-130	2	20	
Cadmium	80.9	1.0	0.050	ug/l	80.0	ND	101	70-130	1	20	
Copper	76.8	2.0	0.40	ug/l	80.0	0.50	95	70-130	0	20	
Lead	75.9	1.0	0.10	ug/l	80.0	ND	95	70-130	1	20	
Thallium	75.7	1.0	0.15	ug/l	80.0	ND	95	70-130	3	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
 Report Number: IQB2967

Sampled: 02/27/07
 Received: 02/27/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 7B27040 Extracted: 02/27/07											
Blank Analyzed: 02/27/2007 (7B27040-BLK1)											
Chloride	0.168	0.50	0.15	mg/l							J
Nitrate/Nitrite-N	ND	0.15	0.080	mg/l							
Sulfate	ND	0.50	0.45	mg/l							
LCS Analyzed: 02/27/2007 (7B27040-BS1)											
Chloride	4.67	0.50	0.15	mg/l	5.00		93	90-110			M-3
Sulfate	9.67	0.50	0.45	mg/l	10.0		97	90-110			
Matrix Spike Analyzed: 02/27/2007 (7B27040-MS1)											
					Source: IQB2795-01						
Sulfate	24.5	0.50	0.45	mg/l	10.0	15	95	80-120			
Matrix Spike Dup Analyzed: 02/27/2007 (7B27040-MSD1)											
					Source: IQB2795-01						
Sulfate	24.6	0.50	0.45	mg/l	10.0	15	96	80-120	0	20	
Batch: 7C02071 Extracted: 03/02/07											
Blank Analyzed: 03/02/2007 (7C02071-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 03/02/2007 (7C02071-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 03/02/2007 (7C02071-DUP1)											
					Source: IQB2959-01						
Total Dissolved Solids	306	10	10	mg/l		310			1	10	
Batch: 7C02122 Extracted: 03/02/07											
Blank Analyzed: 03/05/2007 (7C02122-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006
 Report Number: IQB2967

Sampled: 02/27/07
 Received: 02/27/07

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7C02122 Extracted: 03/02/07											
LCS Analyzed: 03/05/2007 (7C02122-BS1)											
Total Suspended Solids	939	10	10	mg/l	1000		94	85-115			
Duplicate Analyzed: 03/05/2007 (7C02122-DUP1)											
Total Suspended Solids	ND	10	10	mg/l		ND				10	
Batch: 7C08093 Extracted: 03/08/07											
Blank Analyzed: 03/08/2007 (7C08093-BLK1)											
Oil & Grease	ND	5.0	0.94	mg/l							
LCS Analyzed: 03/08/2007 (7C08093-BS1)											
Oil & Grease	20.3	5.0	0.94	mg/l	20.0		102	65-120			MNR1
LCS Dup Analyzed: 03/08/2007 (7C08093-BSD1)											
Oil & Grease	19.7	5.0	0.94	mg/l	20.0		98	65-120	3	20	

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

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
IQB2967-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.57	4.7	15
IQB2967-01	Antimony-200.8	Antimony	ug/l	0.45	2.0	6.00
IQB2967-01	Antimony-200.8, Diss	Antimony	ug/l	0.46	2.0	6.00
IQB2967-01	Cadmium-200.8	Cadmium	ug/l	0.12	1.0	4.00
IQB2967-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.024	1.0	4.00
IQB2967-01	Chloride - 300.0	Chloride	mg/l	58	10	150
IQB2967-01	Copper-200.8	Copper	ug/l	1.70	2.0	14
IQB2967-01	Copper-200.8, Diss	Copper	ug/l	0.50	2.0	14
IQB2967-01	Lead-200.8	Lead	ug/l	1.10	1.0	5.20
IQB2967-01	Lead-200.8, Diss	Lead	ug/l	0.060	1.0	5.20
IQB2967-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.33	0.15	10.00
IQB2967-01	Sulfate-300.0	Sulfate	mg/l	15	0.50	250
IQB2967-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	290	10	850
IQB2967-01	Thallium-200.8	Thallium	ug/l	0.042	1.0	2.00
IQB2967-01	Thallium-200.8, Diss	Thallium	ug/l	0.14	1.0	2.00

TestAmerica - Irvine, CA
 Michele Chamberlin
 Project Manager

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

MWH-Pasadena/Boeing
300 North Lake Avenue, Suite 1200
Pasadena, CA 91101
Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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

IQB2967 <Page 11 of 12>

NPDES - 733

MWH-Pasadena/Boeing
 300 North Lake Avenue, Suite 1200
 Pasadena, CA 91101
 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IQB2967

Sampled: 02/27/07

Received: 02/27/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 413.1	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

Alta 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: IQB2967-01

Eberline Services

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gross Beta
 Samples: IQB2967-01

Weck Laboratories, Inc

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

Analysis Performed: Mercury - 245.1
 Samples: IQB2967-01

Analysis Performed: Mercury - 245.1, Diss
 Samples: IQB2967-01

TestAmerica - Irvine, CA

Michele Chamberlin
 Project Manager



ADDITIONAL ANALYSIS REQUEST FORM

Today's Date: 4/9/07 Del Mar Analytical Project Manager: MC

Request via: telephone chain of custody form fax transmission E-mail other

Client: MWH-Paw/Boring Contact: Bronwyn Kelly

Project: Routine Outfall 006

Date Sampled: 2/27/07 Date Received: 2/27/07

Status: in progress completed received today received yesterday on hold other

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYSIS REQUESTED	SPECIAL REQUIREMENTS
---------------	--------------------	--------------------	----------------------

<u>10B2467-01</u>	<u>outfall006</u>	<u>Gross Beta + Well IV</u>	<u>Radium, Strontium, Tritium (on well)</u>
-------------------	-------------------	-----------------------------	---

- Add-in, same workorder

- TAT = 5day due 4/17/07

- note: "RUSH" on subcsc

TURNAROUND STATUS: Same Day 24hr 48hr 3days
 5days Standard No Rush Charge



300 N. Lake Ave., Suite 1200
 Pasadena, California 91101
 Tel: 626-568-6691
 Fax: 626-568-6515

Date: 04/09/07

To: Michele Chamberlin / TestAmerica, Irvine

Fax No: 949-260-3297

From: Travis Peterson

sign: _____

Subject: Chain-of-Custody Form Analytical Request Change

No. of Pages: 1
 (including cover)

Per Request:

Please make the changes listed below to the chain-of-custody analytical request form. Include this form with the final deliverables for these samples.

TestAmerica Work Order #	Sample ID(s):	Date Collected	Change(s) Requested, Not Completed	Change(s) and Method (s) Now Requested
IQB2023	Outfall 006	02/19/07	None	-- Add reanalysis of gross beta; -- Add Gamma Spectrometry (including K-40, Co-60, Cs-137, and Eu-152) -- Level IV Data package
IQB2967	Outfall 006	02/27/07	None	-- Add gross beta from extra unpreserved poly -- Level IV Data package

The reason for these changes:

Incorrectly marked on COC form _____

Lack of sample volume _____

MWH office personnel require this change _____ X _____

Other: Containers mislabeled _____

This Change Order supersedes all previous change orders submitted.

Thank you

Del Mar Analytical

Version 04/28/06

CHAIN OF CUSTODY FORM

Client Name/Address:		Project:		ANALYSIS REQUIRED		Field readings:	
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101		Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2		Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl TSS, TSS Cd, Cu, Pb, Hg, Tl		Temp = _____ pH = _____	
Project Manager: Bronwyn Kelly Sampler: RICK BRANAUGH JOE MARISCAL		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Oil & Grease (EPA 413) _____ TCDD (and all congeners) _____ Cl ₂ , SO ₄ , NO ₃ +NO ₂ -N _____		Comments	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	
Outfall 006	W	1L Poly	1	2-27-07 11:30	HNO3	1A	X
Outfall 006-Dup	W	1L Poly	1		HNO3	1B	X
Outfall 006	W	1L Amber	2		None	2A, 2B	
Outfall 006	W	1L Amber	2		HCl	3A, 3B	X
Outfall 006	W	Poly-500 ml	2		None	4A, 4B	
Outfall 006	W	Poly-500 ml	2	2-27-07 11:30	None	5A, 5B	X
Outfall 006	W	Poly-1L	1		None	6	X
Relinquished By: <i>[Signature]</i>		Date/Time: 2-27-07 15:00		Received By: <i>[Signature]</i>		Date/Time: 2-27-07 15:00	
Relinquished By: <i>[Signature]</i>		Date/Time: 2-27-07 19:15		Received By: <i>[Signature]</i>		Date/Time: 2-27-07 19:15	
Relinquished By: <i>[Signature]</i>		Date/Time: _____		Received By: _____		Date/Time: _____	
				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)		On Ice: 3/2.5	
				Intact _____			

[Handwritten signatures and initials]

HE 2-27-07
2040



EBERLINE

SERVICES

April 18, 2007

Ms. Michele Chamberlin
Test America, Inc.
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Reference: Test America Project No. IQB2967
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R704064-8665

Dear Ms. Chamberlin:

Enclosed are results from the analyses of one water sample received at Eberline Services on April 11, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analysis was gross beta (EPA900.0). The sample was not filtered prior to analysis. Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual. A level IV data package will follow within one week.

Please call me if you have any questions concerning this report.

Regards,

for Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Report
Subcontract Form
Receipt checklist
Invoice


Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com
NPDES - 738

Eberline Services

ANALYSIS RESULTS

SDG <u>8665</u>	Client <u>TA IRVINE</u>
Work Order <u>R704064-01</u>	Contract <u>PROJECT# IQB2967</u>
Received Date <u>04/11/07</u>	Matrix <u>WATER</u>

<u>Client</u>	<u>Lab</u>	<u>Collected</u>	<u>Analyzed</u>	<u>Nuclide</u>	<u>Results ± 2σ</u>	<u>Units</u>	<u>MDA</u>
<u>Sample ID</u>	<u>Sample ID</u>						
IQB2967-01	8665-001	02/27/07	04/17/07	Gross Beta	23.5 ± 2.2	pCi/L	2.0

Certified by 
Report Date <u>04/18/07</u>
Page 1

Eberline Services

QC RESULTS

SDG <u>8665</u>	Client <u>TA IRVINE</u>
Work Order <u>R704064-01</u>	Contract <u>PROJECT# IQB2967</u>
Received Date <u>04/11/07</u>	Matrix <u>WATER</u>

Lab

<u>Sample ID</u>	<u>Nuclide</u>	<u>Results</u>	<u>Units</u>	<u>Amount Added</u>	<u>MDA</u>	<u>Evaluation</u>
<u>LCS</u>						
8665-002	Gross Beta	9.30 ± 0.71	pCi/Smpl	9.58	0.56	97% recovery
<u>BLANK</u>						
8665-003	Gross Beta	0.160 ± 0.32	pCi/Smpl	NA	0.56	<MDA

DUPLICATES				ORIGINALS			
<u>Sample ID</u>	<u>Nuclide</u>	<u>Results + 2σ</u>	<u>MDA</u>	<u>Sample ID</u>	<u>Results + 2σ</u>	<u>MDA</u>	<u>RPD (Tot) Eval</u>
8665-004	Gross Beta	23.9 ± 2.6	3.2	8665-001	23.5 ± 2.2	2.0	3σ 2 48 satis.

SPIKED SAMPLE				ORIGINAL SAMPLE			
<u>Sample ID</u>	<u>Nuclide</u>	<u>Results + 2σ</u>	<u>MDA</u>	<u>Sample ID</u>	<u>Results + 2σ</u>	<u>MDA</u>	<u>Added %Recv</u>
8665-005	Gross Beta	91.8 ± 4.1	3.0	8665-001	23.5 ± 2.2	2.0	63.9 107

Certified by
Report Date <u>04/18/07</u>
Page 2

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQB2967

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:

Eberline Services
2030 Wright Avenue
Richmond, CA 94804
Phone : (510) 235-2633
Fax: (510) 235-0438
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Due	Expires	Comments
Sample ID: IQB2967-01	Water	Sampled: 02/27/07 11:30	
Gross Beta-O	03/27/07 12:00	08/26/07 11:30	DONT FILTER, 900.0, RESULT > 50 pCi/L, run Rad 226&228
Level 4 Data Package - Out	04/17/07 12:00	03/27/07 11:30	
Radium, Combined-O	04/17/07 12:00	02/27/08 11:30	HOLD for G A&B results; EPA 903.1&904.0, NO FILTER
Strontium 90-O	04/17/07 12:00	02/27/08 11:30	HOLD for Ra 226&228 results, EPA 905.0, DONT FILTER
Tritium-O	04/17/07 12:00	02/27/08 11:30	HOLD for Ra 226&228 results, EPA 906.0, DONT FILTER
<i>Containers Supplied:</i>			
500 ml Poly (G)	500 ml Poly (H)	500 ml Poly (I)	1 Liter Poly (K)

Released By	Date	Received By	Date
Released By	Date	Received By	Date



RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: Test America City IRVINE State CA

Date/Time received 4/11/07 10:20 CoC No. 1QB2967

Container I.D. No. BOX Requested TAT (Days) _____ P.O. Received Yes [] No []

INSPECTION

- 1. Custody seals on shipping container intact? Yes [] No [] N/A []
- 2. Custody seals on shipping container dated & signed? Yes [] No [] N/A []
- 3. Custody seals on sample containers intact? Yes [] No [] N/A []
- 4. Custody seals on sample containers dated & signed? Yes [] No [] N/A []
- 5. Packing material is: Wet [] Dry [] N/A []
- 6. Number of samples in shipping container: 1 Sample Matrix WATER
- 7. Number of containers per sample: 4 (Or see CoC)
- 8. Samples are in correct container Yes [] No []
- 9. Paperwork agrees with samples? Yes [] No []
- 10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels []
- 11. Samples are: In good condition [] Leaking [] Broken Container [] Missing []
- 12. Samples are: Preserved [] Not preserved [] pH 6 Preservative _____
- 13. Describe any anomalies: _____

1.0L bottles has 0.25L, not leak
Called client concerning sample. Michelle Chamberlain

14. Was P.M. notified of any anomalies? Yes [] No [] Date 4/11/07
15. Inspected by AK Date: 4/11/07 Time: 11:30

Customer Sample No.	cpm	mR/hr	Wipe	Customer Sample No.	cpm	mR/hr	wipe

Ion Chamber Ser. No. _____ Calibration date _____
Alpha Meter Ser. No. _____ Calibration date _____
Beta/Gamma Meter Ser. No. _____ Calibration date _____

March 23, 2007

Vista Project I.D.: 28755

Ms. Michele Chamberlin
Test America-Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on March 01, 2007 under your Project Name "IQB2967". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

The recoveries of the native analytes are slightly outside the QC limits in the Ongoing Precision and Recovery sample (OPR). The labeled internal standard recoveries are proportionately low, suggesting that an air bubble was present in the syringe during the spiking of the internal standard solution into the OPR. The re-extraction of the second sample aliquot failed. Because the data quality for this project does not meet our requirements, no invoice will be issued for this analysis.

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

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

Sincerely,



Martha M. Maier
Laboratory Director



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



Section I: Sample Inventory Report

Date Received: 3/1/2007

Vista Lab. ID

Client Sample ID

28755-001

IQB2967-01

SECTION II

Method Blank					EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	8913	Lab Sample:	0-MB001			
Sample Size:	1.00 L	Date Extracted:	6-Mar-07	Date Analyzed DB-5:	14-Mar-07	Date Analyzed DB-225:	NA	
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000131			IS 13C-2,3,7,8-TCDD	83.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000121			13C-1,2,3,7,8-PeCDD	67.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000276			13C-1,2,3,4,7,8-HxCDD	82.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000286			13C-1,2,3,6,7,8-HxCDD	79.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000273			13C-1,2,3,4,6,7,8-HpCDD	71.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000243			13C-OCDD	58.9	17 - 157	
OCDD	ND	0.00000575			13C-2,3,7,8-TCDF	82.1	24 - 169	
2,3,7,8-TCDF	ND	0.00000101			13C-1,2,3,7,8-PeCDF	68.8	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000153			13C-2,3,4,7,8-PeCDF	72.3	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000144			13C-1,2,3,4,7,8-HxCDF	72.6	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000811			13C-1,2,3,6,7,8-HxCDF	73.3	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000797			13C-2,3,4,6,7,8-HxCDF	77.6	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000867			13C-1,2,3,7,8,9-HxCDF	77.7	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000128			13C-1,2,3,4,6,7,8-HpCDF	71.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000123			13C-1,2,3,4,7,8,9-HpCDF	59.3	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000164			13C-OCDF	54.5	17 - 157	
OCDF	ND	0.00000470			CRS 37Cl-2,3,7,8-TCDD	85.3	35 - 197	
Totals					Footnotes			
Total TCDD	ND	0.00000131			a. Sample specific estimated detection limit.			
Total PeCDD	ND	0.00000121			b. Estimated maximum possible concentration.			
Total HxCDD	ND	0.00000278			c. Method detection limit.			
Total HpCDD	ND	0.00000243			d. Lower control limit - upper control limit.			
Total TCDF	ND	0.00000101						
Total PeCDF	ND	0.00000148						
Total HxCDF	ND	0.000000924						
Total HpCDF	ND	0.00000140						

Analyst: MAS

Approved By: Martha M. Maier 23-Mar-2007 14:09

OPR Results				EPA Method 1613			
Matrix:	Aqueous	QC Batch No.:	8913	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	6-Mar-07	Date Analyzed DB-5:	14-Mar-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	12.0	6.7 - 15.8	IS 13C-2,3,7,8-TCDD	62.3	25 - 164	
1,2,3,7,8-PeCDD	50.0	67.5	35 - 71	13C-1,2,3,7,8-PeCDD	61.5	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	63.4	35 - 82	13C-1,2,3,4,7,8-HxCDD	65.4	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	65.0	38 - 67	13C-1,2,3,6,7,8-HxCDD	65.6	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	66.1	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	56.4	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	65.4	35 - 70	13C-OCDD	36.9	17 - 157	
OCDD	100	135	78 - 144	13C-2,3,7,8-TCDF	62.2	24 - 169	
2,3,7,8-TCDF	10.0	13.1	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	67.5	24 - 185	
1,2,3,7,8-PeCDF	50.0	65.5	40 - 67	13C-2,3,4,7,8-PeCDF	68.8	21 - 178	
2,3,4,7,8-PeCDF	50.0	67.6	34 - 80	13C-1,2,3,4,7,8-HxCDF	58.8	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	65.6	36 - 67	13C-1,2,3,6,7,8-HxCDF	58.1	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	67.8	42 - 65	13C-2,3,4,6,7,8-HxCDF	63.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	65.2	35 - 78	13C-1,2,3,7,8,9-HxCDF	62.6	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	66.6	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	55.5	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	68.1	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	37.7	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	65.5	39 - 69	13C-OCDF	31.4	17 - 157	
OCDF	100	125	63 - 170	CRS 37Cl-2,3,7,8-TCDD	74.9	35 - 197	

Analyst: MAS

Approved By: Martha M. Maier 23-Mar-2007 14:09

Sample ID: IQB2967-01					EPA Method 1613			
Client Data			Sample Data		Laboratory Data			
Name:	Test America-Irvine		Matrix:	Aqueous	Lab Sample:	28755-001	Date Received:	1-Mar-07
Project:	IQB2967		Sample Size:	1.01 L	QC Batch No.:	8913	Date Extracted:	6-Mar-07
Date Collected:	27-Feb-07				Date Analyzed DB-5:	22-Mar-07	Date Analyzed DB-225:	NA
Time Collected:	1130							
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Qualifiers	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000521			IS 13C-2,3,7,8-TCDD	78.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000124			13C-1,2,3,7,8-PeCDD	72.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000300			13C-1,2,3,4,7,8-HxCDD	76.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000138			13C-1,2,3,6,7,8-HxCDD	81.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000131			13C-1,2,3,4,6,7,8-HpCDD	54.6	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000290			13C-OCDD	38.6	17 - 157	
OCDD	0.0000350			J	13C-2,3,7,8-TCDF	76.3	24 - 169	
2,3,7,8-TCDF	ND	0.000000466			13C-1,2,3,7,8-PeCDF	70.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.000000589			13C-2,3,4,7,8-PeCDF	65.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.000000614			13C-1,2,3,4,7,8-HxCDF	83.3	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000543			13C-1,2,3,6,7,8-HxCDF	91.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000548			13C-2,3,4,6,7,8-HxCDF	87.6	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000658			13C-1,2,3,7,8,9-HxCDF	73.5	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000117			13C-1,2,3,4,6,7,8-HpCDF	59.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000112			13C-1,2,3,4,7,8,9-HpCDF	44.6	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000141			13C-OCDF	31.8	17 - 157	
OCDF	ND	0.00000242			CRS 37Cl-2,3,7,8-TCDD	94.3	35 - 197	
Totals					Footnotes			
Total TCDD	ND	0.00000521			a. Sample specific estimated detection limit.			
Total PeCDD	ND	0.00000124			b. Estimated maximum possible concentration.			
Total HxCDD	ND	0.00000190			c. Method detection limit.			
Total HpCDD	0.00000639				d. Lower control limit - upper control limit.			
Total TCDF	ND	0.000000466						
Total PeCDF	ND	0.000000602						
Total HxCDF	ND	0.000000730						
Total HpCDF	ND	0.00000126						

Analyst: RAS

Approved By: Martha M. Maier 23-Mar-2007 14:09

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank.
D	The amount reported is the maximum possible concentration due to possible chlorinated diphenylether interference.
E	The reported value exceeds the calibration range of the instrument.
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 corresponds 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

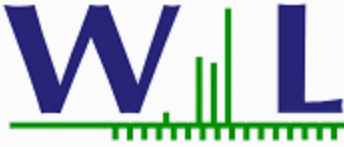
SAMPLE LOG-IN CHECKLIST

Alta Project #: 28755 TAT STD

Samples Arrival:	Date/Time 3.1.07 1058	Initials: FEB	Location: WR-2 Shelf/Rack: <u>N/A</u>
Logged In:	Date/Time 3.1.07 1406	Initials: FEB	Location: WR-2 Shelf/Rack: <u>B-3</u>
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> Cal
		<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
		<input type="radio"/> None	
Temp °C	1.6°C	Time: 1101	Thermometer ID: IR-1

	YES	NO	NA
Adequate Sample Volume Received?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Airbill	Trk # <u>79068279 7565</u>		
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Na ₂ S ₂ O ₃ Preservation Documented?		<input type="checkbox"/> COC	<input checked="" type="checkbox"/> Sample Container
Shipping Container	<input type="checkbox"/> Alta	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
		<input type="checkbox"/> Return	<input checked="" type="checkbox"/> Dispose

Comments:



CERTIFICATE OF ANALYSIS

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

Report Date: 03/20/07 20:26
Received Date: 02/28/07 10:30
Turn Around: Normal

Phone: (949) 261-1022

Fax: (949) 260-3297

Work Order #: 7022815

Client Project: IQB2967

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 Michele Chamberlin :

Enclosed are the results of analyses for samples received 02/28/07 10:30 with the Chain of Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Taylor Malignat

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: 7022815
Project ID: IQB2967

Date Received: 02/28/07 10:30
Date Reported: 03/20/07 20:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQB2967-01	Client		7022815-01	Water	02/27/07 11:30



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: 7022815
Project ID: IQB2967

Date Received: 02/28/07 10:30
Date Reported: 03/20/07 20:26

IQB2967-01 7022815-01 (Water)

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	ND	0.050	ug/l	0.20	1	EPA 245.1	W7C0122	03/04/07	03/13/07	jl
Mercury, Total	0.057	0.050	ug/l	0.20	1	EPA 245.1	W7C0122	03/04/07	03/13/07	jl J



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Irvine CA, 92614

Report ID: 7022815
Project ID: IQB2967

Date Received: 02/28/07 10:30
Date Reported: 03/20/07 20:26

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: 7022815
 Project ID: IQB2967

Date Received: 02/28/07 10:30
 Date Reported: 03/20/07 20:26

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7C0122 - EPA 245.1										
Blank (W7C0122-BLK1) Analyzed: 03/13/07										
Mercury, Total	ND	0.20	ug/l							
Mercury, Dissolved	ND	0.20	ug/l							
LCS (W7C0122-BS1) Analyzed: 03/13/07										
Mercury, Total	1.13	0.20	ug/l	1.00		113	85-115			
Mercury, Dissolved	1.13	0.20	ug/l	1.00		113	85-115			
Matrix Spike (W7C0122-MS1) Source: 7030235-02 Analyzed: 03/13/07										
Mercury, Total	1.25	0.20	ug/l	1.00	0.049	120	70-130			
Mercury, Dissolved	1.25	0.20	ug/l	1.00	0.049	120	70-130			
Matrix Spike (W7C0122-MS2) Source: 7030235-08 Analyzed: 03/13/07										
Mercury, Total	0.878	0.20	ug/l	1.00	0.035	84.3	70-130			
Mercury, Dissolved	0.878	0.20	ug/l	1.00	0.035	84.3	70-130			
Matrix Spike Dup (W7C0122-MSD1) Source: 7030235-02 Analyzed: 03/13/07										
Mercury, Total	1.22	0.20	ug/l	1.00	0.049	117	70-130	2.43	20	
Mercury, Dissolved	1.22	0.20	ug/l	1.00	0.049	117	70-130	2.43	20	
Matrix Spike Dup (W7C0122-MSD2) Source: 7030235-08 Analyzed: 03/13/07										
Mercury, Total	0.999	0.20	ug/l	1.00	0.035	96.4	70-130	12.9	20	
Mercury, Dissolved	0.999	0.20	ug/l	1.00	0.035	96.4	70-130	12.9	20	



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

Report ID: 7022815
Project ID: IQB2967

Date Received: 02/28/07 10:30
Date Reported: 03/20/07 20:26

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.

APPENDIX G

Section 19

EBERLINE SERVICES REPORT

February 26, 2007



February 26, 2007

Ms. Michele Chamberlin
Test America, Inc.
17461 Derian Avenue, Suite 100
Irvine, CA 92614

Reference: Test America Project No. IQA2793
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R701193-8655

Dear Ms. Chamberlin:

Enclosed is a Level IV data report (on CD) for the results of one water sample received at Eberline Services on January 31, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analyses were gross alpha/gross beta (EPA900.0), tritium (H-3, EPA906.0), and strontium-90 (Sr-90, EPA905.0), Ra-226 (EPA903.1), and Ra-228 (EPA904.0). Quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spikes (excluding Sr-90 and Ra-228). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual. Analyses that involve the yielding of an analytical tracer or carrier, such as Sr-90 and Ra-228, do not require matrix spike analyses to be performed. A copy of this report (on CD) was mailed to Ms. Elizabeth Wessling, 12269 E. Vassar Dr., Aurora CO 80014.

Please call me if you have any questions concerning this report.

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: CD Report

cc: Elizabeth Wessling, CD Report

Analytical Services
2030 Wright Avenue
P.O. Box 4040
Richmond, California 94804-0040
(510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com

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Analysis Results
Sample Analysis Raw Data
Aliquot Information

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Preparation Logs & Standards Certification
for Quality Control Samples

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Instrument Calibration Information

Section 1

Chain-of-Custody & Sample Receipt Information

Analysis Results

Sample Analysis Raw Data

Aliquot Information

SUBCONTRACT ORDER - PROJECT # IQA2793

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:

Eberline Services
 2030 Wright Avenue
 Richmond, CA 94804
 Phone : (510) 235-2633
 Fax: (510) 235-0438

8655

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

Analysis	Expiration	Comments
Sample ID: IQA2793-01 Water	Sampled: 01/28/07 10:40	
Gross Alpha-O	07/27/07 10:40	EPA 900.0, DONT FILTER, 5 day HT!, sub to Eberline
Gross Beta-O	07/27/07 10:40	EPA 900.0, DONT FILTER, 5 day HT!, sub to Eberline
Level 4 + EDD-OUT	02/25/07 10:40	**LEVEL IV QC, ACCESS 7 EDD**
Radium, Combined-O	01/28/08 10:40	EPA 903.1 & 904.0, DONT FILTER, sub to Eberline
Strontium 90-O	01/28/08 10:40	EPA 905.0, DONT FILTER, 5 day HT!, sub to Eberline
Tritium-O	01/28/08 10:40	EPA 906.0, DONT FILTER, sub to Eberline

Containers Supplied:

- 1 gal Poly (IQA2793-01L)
- 1 gal Poly (IQA2793-01M)
- 1 gal Poly (IQA2793-01N)
- 40 ml Amber Voa Vial (IQA2793-01O)
- 40 ml Amber Voa Vial (IQA2793-01P)
- 40 ml Amber Voa Vial (IQA2793-01Q)

SAMPLE INTEGRITY:

All containers intact: Yes No
 Sample labels/COC agree: Yes No
 Samples Received On Ice:: Yes No
 Custody Seals Present: Yes No
 Samples Preserved Properly: Yes No
 Samples Received at (temp): _____

Released By: Va Bank Date: 1/30/07 Time: _____ Received By: [Signature] Date: 01/31/07 Time: 9:15

Released By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Client: TEST AMERICA City: IRVINE State: CA
 Date/Time received: 01/31/07 9:15 CoC No.: 10A2793 JFK 1/31/07
 Container I.D. No.: ICE GTEST Requested TAT (Days): 1 P.O. Received Yes [] No []

INSPECTION

- 1. Custody seals on shipping container intact? Yes [X] No [] N/A []
- 2. Custody seals on shipping container dated & signed? Yes [X] No [] N/A []
- 3. Custody seals on sample containers intact? Yes [] No [] N/A [X]
- 4. Custody seals on sample containers dated & signed? Yes [] No [] N/A [X]
- 5. Packing material is: Wet [] Dry [X]
- 6. Number of samples in shipping container: 1 Sample Matrix: W
- 7. Number of containers per sample: 6 (Or see CoC _____)
- 8. Samples are in correct container Yes [X] No []
- 9. Paperwork agrees with samples? Yes [X] No []
- 10. Samples have: Tape [] Hazard labels [] Rad labels [] Appropriate sample labels [X]
- 11. Samples are: In good condition [X] Leaking [] Broken Container [] Missing []
- 12. Samples are: Preserved [] Not preserved [X] pH _____ Preservative _____
- 13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [] No [] Date: _____
 15. Inspected by: JFK Date: 01/31/07 Time: 9:35

Customer Sample No.	cpm	mR/hr	Wide	Customer Sample No.	cpm	mR/hr	Wide

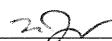
Ion Chamber Ser. No. _____ Calibration date _____
 Alpha Meter Ser. No. _____ Calibration date _____
 Beta/Gamma Meter Ser. No. _____ Calibration date _____

Eberline Services

ANALYSIS RESULTS

SDG <u>8655</u>	Client <u>TA IRVINE</u>
Work Order <u>R701193-01</u>	Contract <u>PROJECT# IQA2793</u>
Received Date <u>01/31/07</u>	Matrix <u>WATER</u>

<u>Client</u>	<u>Lab</u>						
<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>
IQA2793-01	8655-001	01/28/07	02/20/07	GrossAlpha	-1.15 ± 0.75	pCi/L	1.3
			02/20/07	Gross Beta	56.3 ± 1.9	pCi/L	1.3
			02/15/07	Ra-228	0.013 ± 0.092	pCi/L	0.26
			02/12/07	H-3	47.7 ± 93	pCi/L	150
			02/16/07	Ra-226	0.254 ± 0.45	pCi/L	0.79
			02/09/07	Sr-90	0.004 ± 0.24	pCi/L	0.49

Certified by <u></u> Report Date <u>02/23/07</u> Page 1
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Eberline Services

QC RESULTS

SDG <u>8655</u>	Client <u>TA IRVINE</u>
Work Order <u>R701193-01</u>	Contract <u>PROJECT# IQA2793</u>
Received Date <u>01/31/07</u>	Matrix <u>WATER</u>

Lab	Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
<u>LCS</u>							
	8655-002	GrossAlpha	7.14 ± 0.56	pCi/Smpl	11.1	0.24	64% recovery
		Gross Beta	11.7 ± 0.47	pCi/Smpl	11.5	0.46	102% recovery
		Ra-228	12.0 ± 0.70	pCi/Smpl	11.2	0.46	107% recovery
		H-3	224 ± 14	pCi/Smpl	232	16	97% recovery
		Ra-226	5.90 ± 0.27	pCi/Smpl	5.58	0.084	106% recovery
		Sr-90	12.8 ± 0.61	pCi/Smpl	12.0	0.23	107% recovery
<u>BLANK</u>							
	8655-003	GrossAlpha	-0.097 ± 0.12	pCi/Smpl	NA	0.23	<MDA
		Gross Beta	-0.021 ± 0.16	pCi/Smpl	NA	0.26	<MDA
		Ra-228	-0.099 ± 0.16	pCi/Smpl	NA	0.46	<MDA
		H-3	-1.48 ± 9.0	pCi/Smpl	NA	15	<MDA
		Ra-226	0.006 ± 0.040	pCi/Smpl	NA	0.078	<MDA
		Sr-90	0.058 ± 0.13	pCi/Smpl	NA	0.26	<MDA

<u>DUPLICATES</u>			
Sample ID	Nuclide	Results ± 2σ	MDA
8655-004	GrossAlpha	-1.30 ± 0.68	1.2
	Gross Beta	55.8 ± 1.9	1.5
	Ra-228	0.006 ± 0.11	0.25
	H-3	32.9 ± 93	160
	Ra-226	-0.049 ± 0.37	0.74
	Sr-90	0.044 ± 0.44	0.93

<u>ORIGINALS</u>				
Sample ID	Results ± 2σ	MDA	3σ	RPD (Tot) Eval
8655-001	-1.15 ± 0.75	1.3	-	0 satis.
	56.3 ± 1.9	1.3	1	43 satis.
	0.013 ± 0.092	0.26	-	0 satis.
	47.7 ± 93	150	-	0 satis.
	0.254 ± 0.45	0.79	-	0 satis.
	0.004 ± 0.24	0.49	-	0 satis.

<u>SPIKED SAMPLE</u>			
Sample ID	Nuclide	Results ± 2σ	MDA
8655-005	GrossAlpha	137 ± 3.2	0.71
	Gross Beta	158 ± 3.0	1.2
	H-3	19300 ± 420	210
	Ra-226	121 ± 4.4	0.76

<u>ORIGINAL SAMPLE</u>				
Sample ID	Results ± 2σ	MDA	Added	%Recv
8655-001	-1.15 ± 0.75	1.3	103	134
	56.3 ± 1.9	1.3	96.1	106
	47.7 ± 93	150	21200	91
	0.254 ± 0.45	0.79	123	98

Certified by _____

Report Date 02/23/07

Page 2