

## **APPENDIX G**

### **Section 16**

Outfall 014, December 21, 2007

Test America Analytical Laboratory Report

## LABORATORY REPORT

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

Project: Routine Outfall 014  
APTF Test Stand

Sampled: 12/21/07  
Received: 12/21/07  
Revised: 01/16/08 15:35

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, 4 pages, are included and are an integral part of this report.*

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

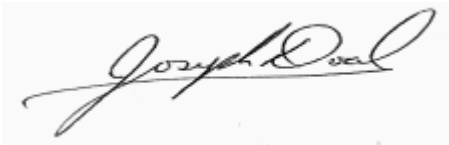
## SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This report was revised to include Dioxin data integrated into the report and to fix a report formatting error that caused Nitrate and Nitrite to be reported twice.

LABORATORY ID	CLIENT ID	MATRIX
IQL2416-01	Outfall 014	Water
IQL2416-02	Trip Blanks	Water

Reviewed By:



TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## EXTRACTABLE FUEL HYDROCARBONS (EPA 8015 CADHS Modified)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water)</b>									
Reporting Units: mg/l									
EFH (C13 - C22)	EPA 8015B MOD.	7L27056	0.095	0.48	ND	0.952	12/27/07	12/28/07	
Surrogate: n-Octacosane (40-125%)					74 %				

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NPDES - 374

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
GRO (C4 - C12)	EPA 8015 Mod.	7L27045	25	100	ND	1	12/27/07	12/27/07	
<i>Surrogate: 4-BFB (FID) (65-140%)</i>					89 %				

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Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
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## VOLATILE ORGANICS by GCMS SIM

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
1,4-Dioxane	EPA 8260B-SIM	7L30017	1.0	2.0	ND	1	12/30/07	12/30/07	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>100 %</i>				

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 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
1,2-Dibromoethane (EDB)	EPA 624	8A03017	0.40	2.0	ND	1	01/03/08	01/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A03017	0.32	5.0	ND	1	01/03/08	01/03/08	
1,2,3-Trichloropropane	EPA 624	8A03017	0.40	10	ND	1	01/03/08	01/03/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A03017	0.25	5.0	ND	1	01/03/08	01/03/08	
tert-Butanol (TBA)	EPA 624	8A03017	4.9	25	ND	1	01/03/08	01/03/08	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					98 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					99 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					96 %				
<b>Sample ID: IQL2416-02 (Trip Blanks - Water)</b>									
<b>Reporting Units: ug/l</b>									
1,2-Dibromoethane (EDB)	EPA 624	8A03017	0.40	2.0	ND	1	01/03/08	01/03/08	
Methyl-tert-butyl Ether (MTBE)	EPA 624	8A03017	0.32	5.0	ND	1	01/03/08	01/03/08	
1,2,3-Trichloropropane	EPA 624	8A03017	0.40	10	ND	1	01/03/08	01/03/08	
Di-isopropyl Ether (DIPE)	EPA 624	8A03017	0.25	5.0	ND	1	01/03/08	01/03/08	
tert-Butanol (TBA)	EPA 624	8A03017	4.9	25	ND	1	01/03/08	01/03/08	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					95 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					101 %				
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					98 %				

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Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
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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
<b>Sample ID: IQL2416-01 (Outfall 014 - Water)</b>									
<b>Reporting Units: ug/l</b>									
Acenaphthene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Acenaphthylene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Aniline	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Anthracene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzidine	EPA 625	7L26079	8.1	19	ND	0.957	12/26/07	12/30/07	
Benzoic acid	EPA 625	7L26079	8.1	19	ND	0.957	12/26/07	12/30/07	
Benzo(a)anthracene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzo(b)fluoranthene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzo(k)fluoranthene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzo(g,h,i)perylene	EPA 625	7L26079	2.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzo(a)pyrene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Benzyl alcohol	EPA 625	7L26079	2.4	19	ND	0.957	12/26/07	12/30/07	
Bis(2-chloroethoxy)methane	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Bis(2-chloroethyl)ether	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Bis(2-chloroisopropyl)ether	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7L26079	3.8	48	ND	0.957	12/26/07	12/30/07	
4-Bromophenyl phenyl ether	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Butyl benzyl phthalate	EPA 625	7L26079	3.8	19	ND	0.957	12/26/07	12/30/07	
4-Chloroaniline	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
2-Chloronaphthalene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
4-Chloro-3-methylphenol	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
2-Chlorophenol	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
4-Chlorophenyl phenyl ether	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Chrysene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Dibenz(a,h)anthracene	EPA 625	7L26079	2.9	19	ND	0.957	12/26/07	12/30/07	
Dibenzofuran	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Di-n-butyl phthalate	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
1,3-Dichlorobenzene	EPA 625	7L26079	2.9	9.6	ND	0.957	12/26/07	12/30/07	
1,4-Dichlorobenzene	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
1,2-Dichlorobenzene	EPA 625	7L26079	2.9	9.6	ND	0.957	12/26/07	12/30/07	
3,3-Dichlorobenzidine	EPA 625	7L26079	2.9	19	ND	0.957	12/26/07	12/30/07	
2,4-Dichlorophenol	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Diethyl phthalate	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
2,4-Dimethylphenol	EPA 625	7L26079	3.3	19	ND	0.957	12/26/07	12/30/07	
Dimethyl phthalate	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
4,6-Dinitro-2-methylphenol	EPA 625	7L26079	3.8	19	ND	0.957	12/26/07	12/30/07	
2,4-Dinitrophenol	EPA 625	7L26079	4.3	19	ND	0.957	12/26/07	12/30/07	
2,4-Dinitrotoluene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
2,6-Dinitrotoluene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Di-n-octyl phthalate	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
Fluoranthene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	

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APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Fluorene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Hexachlorobenzene	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Hexachlorobutadiene	EPA 625	7L26079	3.3	9.6	ND	0.957	12/26/07	12/30/07	
Hexachlorocyclopentadiene	EPA 625	7L26079	4.8	19	ND	0.957	12/26/07	12/30/07	
Hexachloroethane	EPA 625	7L26079	2.9	9.6	ND	0.957	12/26/07	12/30/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7L26079	2.9	19	ND	0.957	12/26/07	12/30/07	
Isophorone	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
2-Methylnaphthalene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
2-Methylphenol	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
4-Methylphenol	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Naphthalene	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
2-Nitroaniline	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
3-Nitroaniline	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
4-Nitroaniline	EPA 625	7L26079	2.4	19	ND	0.957	12/26/07	12/30/07	
Nitrobenzene	EPA 625	7L26079	2.4	19	ND	0.957	12/26/07	12/30/07	
2-Nitrophenol	EPA 625	7L26079	3.3	9.6	ND	0.957	12/26/07	12/30/07	
4-Nitrophenol	EPA 625	7L26079	5.3	19	ND	0.957	12/26/07	12/30/07	
N-Nitrosodiphenylamine	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
N-Nitroso-di-n-propylamine	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
Pentachlorophenol	EPA 625	7L26079	3.3	19	ND	0.957	12/26/07	12/30/07	
Phenanthrene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Phenol	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
Pyrene	EPA 625	7L26079	1.9	9.6	ND	0.957	12/26/07	12/30/07	
1,2,4-Trichlorobenzene	EPA 625	7L26079	2.4	9.6	ND	0.957	12/26/07	12/30/07	
2,4,5-Trichlorophenol	EPA 625	7L26079	2.9	19	ND	0.957	12/26/07	12/30/07	
2,4,6-Trichlorophenol	EPA 625	7L26079	2.9	19	ND	0.957	12/26/07	12/30/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	7L26079	1.9	19	ND	0.957	12/26/07	12/30/07	
N-Nitrosodimethylamine	EPA 625	7L26079	2.4	19	ND	0.957	12/26/07	12/30/07	
Surrogate: 2-Fluorophenol (30-120%)					62 %				
Surrogate: Phenol-d6 (35-120%)					70 %				
Surrogate: 2,4,6-Tribromophenol (40-120%)					76 %				
Surrogate: Nitrobenzene-d5 (45-120%)					72 %				
Surrogate: 2-Fluorobiphenyl (50-120%)					74 %				
Surrogate: Terphenyl-d14 (50-125%)					85 %				

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
Reporting Units: mg/l									
Boron	EPA 200.7	7L27139	0.020	0.050	ND	1	12/27/07	12/29/07	
Cadmium	EPA 200.7	7L27139	0.0020	0.0050	ND	1	12/27/07	12/29/07	
<b>Copper</b>	EPA 200.7	7L27139	0.0030	0.010	<b>0.0044</b>	1	12/27/07	12/29/07	J
Lead	EPA 200.7	7L27139	0.0030	0.0050	ND	1	12/27/07	12/29/07	
<b>Selenium</b>	EPA 200.7	7L27139	0.0080	0.010	<b>0.017</b>	1	12/27/07	01/01/08	
<b>Zinc</b>	EPA 200.7	7L27139	0.0060	0.020	<b>0.0086</b>	1	12/27/07	12/29/07	J

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Sampled: 12/21/07  
 Received: 12/21/07

## DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: mg/l</b>									
Boron	EPA 200.7-Diss	7L21138	0.020	0.050	ND	1	12/21/07	12/28/07	
Cadmium	EPA 200.7-Diss	7L21138	0.0020	0.0050	ND	1	12/21/07	12/28/07	
Copper	EPA 200.7-Diss	7L21138	0.0030	0.010	ND	1	12/21/07	12/28/07	
Lead	EPA 200.7-Diss	7L21138	0.0030	0.0050	ND	1	12/21/07	12/28/07	
<b>Selenium</b>	EPA 200.7-Diss	7L21138	0.0080	0.010	<b>0.018</b>	1	12/21/07	12/28/07	
Zinc	EPA 200.7-Diss	7L21138	0.0060	0.020	ND	1	12/21/07	12/28/07	

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 APTF Test Stand  
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Sampled: 12/21/07  
 Received: 12/21/07

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: mg/l</b>									
Hexane Extractable Material (Oil & Grease)	EPA 1664	7L28075	1.3	4.8	ND	1	12/28/07	12/28/07	
Ammonia-N (Distilled)	EPA 350.2	7L27114	0.30	0.50	ND	1	12/27/07	12/27/07	
<b>Biochemical Oxygen Demand</b>	EPA 405.1	7L21126	0.59	2.0	<b>11</b>	1	12/21/07	12/26/07	
<b>Chloride</b>	EPA 300.0	7L21048	10	20	<b>810</b>	40	12/21/07	12/22/07	
<b>Fluoride</b>	EPA 340.2	7L28085	0.014	0.10	<b>1.2</b>	1	12/28/07	12/28/07	
<b>Nitrate-N</b>	EPA 300.0	7L21048	0.060	0.11	<b>0.098</b>	1	12/21/07	12/22/07	J
Nitrite-N	EPA 300.0	7L21048	0.090	0.15	ND	1	12/21/07	12/22/07	
Nitrate/Nitrite-N	EPA 300.0	7L21048	0.15	0.26	ND	1	12/21/07	12/22/07	
<b>Sulfate</b>	EPA 300.0	7L21048	8.0	20	<b>240</b>	40	12/21/07	12/22/07	
<b>Total Dissolved Solids</b>	SM2540C	7L27069	10	10	<b>2000</b>	1	12/26/07	12/26/07	
Total Suspended Solids	EPA 160.2	7L26123	10	10	ND	1	12/26/07	12/26/07	

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Sampled: 12/21/07  
Received: 12/21/07

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ml/l/hr</b>									
Total Settleable Solids	EPA 160.5	7L22047	0.10	0.10	ND	1	12/22/07	12/22/07	

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Project Manager

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**NPDES - 383**

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
Reporting Units: NTU									
Turbidity	EPA 180.1	7L22048	0.040	1.0	5.2	1	12/22/07	12/22/07	

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Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Perchlorate	EPA 314.0	7L27066	1.5	4.0	ND	1	12/27/07	12/27/07	

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NPDES - 385

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Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Mercury, Dissolved	EPA 245.1	W8A0020	0.050	0.20	ND	1	01/02/08	01/03/08	
Mercury, Total	EPA 245.1	W8A0020	0.050	0.20	ND	1	01/02/08	01/03/08	

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 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
<b>Reporting Units: ug/L</b>									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	9823	N/A	5.20	ND	1	12/28/07	12/30/07	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
<b>1,2,3,4,6,7,8-HpCDD</b>	1613-Dioxin-HR Alta	9823	N/A	26.0	<b>0.000108</b>	1	12/28/07	12/30/07	Ja
<b>OCDD</b>	1613-Dioxin-HR Alta	9823	N/A	52.0	<b>0.000107</b>	1	12/28/07	12/30/07	
2,3,7,8-TCDF	1613-Dioxin-HR Alta	9823	N/A	5.20	ND	1	12/28/07	12/30/07	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
OCDF	1613-Dioxin-HR Alta	9823	N/A	52.0	ND	1	12/28/07	12/30/07	
Total TCDD	1613-Dioxin-HR Alta	9823	N/A	5.20	ND	1	12/28/07	12/30/07	
Total PeCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
Total HxCDD	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
<b>Total HpCDD</b>	1613-Dioxin-HR Alta	9823	N/A	26.0	<b>0.0000269</b>	1	12/28/07	12/30/07	
Total TCDF	1613-Dioxin-HR Alta	9823	N/A	5.20	ND	1	12/28/07	12/30/07	
Total PeCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
Total HxCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	
Total HpCDF	1613-Dioxin-HR Alta	9823	N/A	26.0	ND	1	12/28/07	12/30/07	

Surrogate: 13C-2,3,7,8-TCDD (25-164%) 85.2 %  
 Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%) 82.5 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%) 74.3 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%) 65.9 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%) 61.8 %  
 Surrogate: 13C-OCDD (17-157%) 58.6 %  
 Surrogate: 13C-2,3,7,8-TCDF (24-169%) 89.2 %  
 Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%) 91.1 %  
 Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%) 93.4 %  
 Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%) 72.6 %  
 Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%) 61.1 %  
 Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%) 66.9 %  
 Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%) 63.5 %  
 Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%) 54.5 %  
 Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%) 53.4 %  
 Surrogate: 13C-OCDF (17-157%) 48.5 %

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2416-01 (Outfall 014 - Water) - cont.</b>									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					106 %				

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Sampled: 12/21/07  
Received: 12/21/07

## SHORT HOLD TIME DETAIL REPORT

Sample ID: Outfall 014 (IQL2416-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
EPA 160.5	2	12/21/2007 08:30	12/21/2007 18:35	12/22/2007 11:45	12/22/2007 11:45
EPA 180.1	2	12/21/2007 08:30	12/21/2007 18:35	12/22/2007 13:30	12/22/2007 13:30
EPA 300.0	2	12/21/2007 08:30	12/21/2007 18:35	12/21/2007 22:00	12/22/2007 03:37
EPA 405.1	2	12/21/2007 08:30	12/21/2007 18:35	12/21/2007 21:02	12/26/2007 19:00

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Sampled: 12/21/07  
 Received: 12/21/07

## METHOD BLANK/QC DATA

### EXTRACTABLE FUEL HYDROCARBONS (EPA 8015 CADHS Modified)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L27056 Extracted: 12/27/07</b>											
<b>Blank Analyzed: 12/28/2007 (7L27056-BLK1)</b>											
EFH (C13 - C28)	ND	0.50	0.10	mg/l							
EFH (C13 - C40)	ND	0.50	0.10	mg/l							
Surrogate: n-Octacosane	0.135			mg/l	0.200		67	40-125			
<b>LCS Analyzed: 12/28/2007 (7L27056-BS1)</b>											
EFH (C13 - C28)	0.569	0.50	0.10	mg/l	0.750		76	40-115			MNRI
Surrogate: n-Octacosane	0.138			mg/l	0.200		69	40-125			
<b>LCS Dup Analyzed: 12/28/2007 (7L27056-BSD1)</b>											
EFH (C13 - C28)	0.515	0.50	0.10	mg/l	0.750		69	40-115	10	25	
Surrogate: n-Octacosane	0.141			mg/l	0.200		70	40-125			

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## METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L27045 Extracted: 12/27/07</b>											
<b>Blank Analyzed: 12/27/2007 (7L27045-BLK1)</b>											
GRO (C4 - C12)	ND	100	25	ug/l							
Surrogate: 4-BFB (FID)	8.32			ug/l	10.0		83	65-140			
<b>LCS Analyzed: 12/27/2007 (7L27045-BS1)</b>											
GRO (C4 - C12)	760	100	25	ug/l	800		95	80-120			
Surrogate: 4-BFB (FID)	13.7			ug/l	10.0		137	65-140			
<b>Matrix Spike Analyzed: 12/27/2007 (7L27045-MS1) Source: IQL2163-03</b>											
GRO (C4 - C12)	220	100	25	ug/l	220	ND	100	65-140			
Surrogate: 4-BFB (FID)	10.3			ug/l	10.0		103	65-140			
<b>Matrix Spike Dup Analyzed: 12/27/2007 (7L27045-MSD1) Source: IQL2163-03</b>											
GRO (C4 - C12)	214	100	25	ug/l	220	ND	97	65-140	3	20	
Surrogate: 4-BFB (FID)	11.1			ug/l	10.0		111	65-140			

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## METHOD BLANK/QC DATA

### VOLATILE ORGANICS by GCMS SIM

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L30017 Extracted: 12/30/07</b>											
<b>Blank Analyzed: 12/30/2007 (7L30017-BLK1)</b>											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	0.950			ug/l	1.00		95	80-120			
<b>LCS Analyzed: 12/30/2007 (7L30017-BS1)</b>											
1,4-Dioxane	7.47	2.0	1.0	ug/l	10.0		75	70-125			
Surrogate: Dibromofluoromethane	0.960			ug/l	1.00		96	80-120			
<b>Matrix Spike Analyzed: 12/30/2007 (7L30017-MS1)</b>											
						<b>Source: IQL2126-02</b>					
1,4-Dioxane	12.4	2.0	1.0	ug/l	10.0	4.38	80	70-130			
Surrogate: Dibromofluoromethane	1.01			ug/l	1.00		101	80-120			
<b>Matrix Spike Dup Analyzed: 12/30/2007 (7L30017-MSD1)</b>											
						<b>Source: IQL2126-02</b>					
1,4-Dioxane	12.1	2.0	1.0	ug/l	10.0	4.38	77	70-130	2	30	
Surrogate: Dibromofluoromethane	1.01			ug/l	1.00		101	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
<b>Batch: 8A03017 Extracted: 01/03/08</b>											
<b>Blank Analyzed: 01/03/2008 (8A03017-BLK1)</b>											
1,2-Dibromoethane (EDB)	ND	2.0	0.40	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	5.0	0.32	ug/l							
1,2,3-Trichloropropane	ND	10	0.40	ug/l							
Di-isopropyl Ether (DIPE)	ND	5.0	0.25	ug/l							
tert-Butanol (TBA)	ND	25	4.9	ug/l							
Surrogate: Dibromofluoromethane	22.7			ug/l	25.0		91	80-120			
Surrogate: Toluene-d8	25.0			ug/l	25.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	24.6			ug/l	25.0		98	80-120			
<b>LCS Analyzed: 01/03/2008 (8A03017-BS1)</b>											
1,2-Dibromoethane (EDB)	26.3	2.0	0.40	ug/l	25.0		105	75-125			
Methyl-tert-butyl Ether (MTBE)	25.8	5.0	0.32	ug/l	25.0		103	60-135			
1,2,3-Trichloropropane	22.2	10	0.40	ug/l	25.0		89	60-130			
Di-isopropyl Ether (DIPE)	22.9	5.0	0.25	ug/l	25.0		91	60-135			
tert-Butanol (TBA)	136	25	4.9	ug/l	125		109	70-135			
Surrogate: Dibromofluoromethane	24.6			ug/l	25.0		99	80-120			
Surrogate: Toluene-d8	25.8			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	25.3			ug/l	25.0		101	80-120			
<b>Matrix Spike Analyzed: 01/03/2008 (8A03017-MS1)</b>											
						<b>Source: IQL2392-03</b>					
1,2-Dibromoethane (EDB)	25.7	2.0	0.40	ug/l	25.0	ND	103	70-130			
Methyl-tert-butyl Ether (MTBE)	27.2	5.0	0.32	ug/l	25.0	ND	109	55-145			
1,2,3-Trichloropropane	23.0	10	0.40	ug/l	25.0	ND	92	55-135			
Di-isopropyl Ether (DIPE)	23.9	5.0	0.25	ug/l	25.0	ND	96	60-140			
tert-Butanol (TBA)	129	25	4.9	ug/l	125	ND	103	65-140			
Surrogate: Dibromofluoromethane	26.9			ug/l	25.0		107	80-120			
Surrogate: Toluene-d8	25.7			ug/l	25.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	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
<b>Batch: 8A03017 Extracted: 01/03/08</b>											
<b>Matrix Spike Dup Analyzed: 01/03/2008 (8A03017-MSD1)</b>						<b>Source: IQL2392-03</b>					
1,2-Dibromoethane (EDB)	23.2	2.0	0.40	ug/l	25.0	ND	93	70-130	10	25	
Methyl-tert-butyl Ether (MTBE)	22.8	5.0	0.32	ug/l	25.0	ND	91	55-145	18	25	
1,2,3-Trichloropropane	20.9	10	0.40	ug/l	25.0	ND	84	55-135	10	30	
Di-isopropyl Ether (DIPE)	20.5	5.0	0.25	ug/l	25.0	ND	82	60-140	15	25	
tert-Butanol (TBA)	133	25	4.9	ug/l	125	ND	106	65-140	2	25	
Surrogate: Dibromofluoromethane	24.1			ug/l	25.0		96	80-120			
Surrogate: Toluene-d8	25.6			ug/l	25.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	24.6			ug/l	25.0		98	80-120			

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Sampled: 12/21/07  
 Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>Blank Analyzed: 12/29/2007 (7L26079-BLK1)</b>											
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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Joseph Doak  
 Project Manager

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>Blank Analyzed: 12/29/2007 (7L26079-BLK1)</b>											
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	150			ug/l	200		75			30-120	

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Project Manager

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Attention: Bronwyn Kelly

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>Blank Analyzed: 12/29/2007 (7L26079-BLK1)</b>											
Surrogate: Phenol-d6	166			ug/l	200		83	35-120			
Surrogate: 2,4,6-Tribromophenol	161			ug/l	200		80	40-120			
Surrogate: Nitrobenzene-d5	76.9			ug/l	100		77	45-120			
Surrogate: 2-Fluorobiphenyl	79.1			ug/l	100		79	50-120			
Surrogate: Terphenyl-d14	92.3			ug/l	100		92	50-125			
<b>LCS Analyzed: 12/29/2007 (7L26079-BS1)</b>											
Acenaphthene	85.3	10	2.0	ug/l	100		85	60-120			MNRI
Acenaphthylene	95.3	10	2.0	ug/l	100		95	60-120			
Aniline	88.3	10	2.5	ug/l	100		88	35-120			
Anthracene	89.8	10	2.0	ug/l	100		90	65-120			
Benzidine	113	20	8.5	ug/l	100		113	30-160			
Benzoic acid	65.8	20	8.5	ug/l	100		66	25-120			
Benzo(a)anthracene	94.3	10	2.0	ug/l	100		94	65-120			
Benzo(b)fluoranthene	92.1	10	2.0	ug/l	100		92	55-125			
Benzo(k)fluoranthene	98.2	10	2.0	ug/l	100		98	50-125			
Benzo(g,h,i)perylene	106	10	3.0	ug/l	100		106	45-135			
Benzo(a)pyrene	101	10	2.0	ug/l	100		101	55-130			
Benzyl alcohol	88.6	20	2.5	ug/l	100		89	50-120			
Bis(2-chloroethoxy)methane	81.3	10	2.0	ug/l	100		81	55-120			
Bis(2-chloroethyl)ether	75.1	10	2.5	ug/l	100		75	50-120			
Bis(2-chloroisopropyl)ether	81.8	10	2.5	ug/l	100		82	45-120			
Bis(2-ethylhexyl)phthalate	97.3	50	4.0	ug/l	100		97	65-130			
4-Bromophenyl phenyl ether	89.4	10	2.5	ug/l	100		89	60-120			
Butyl benzyl phthalate	94.3	20	4.0	ug/l	100		94	55-130			
4-Chloroaniline	86.4	10	2.0	ug/l	100		86	55-120			
2-Chloronaphthalene	82.7	10	2.0	ug/l	100		83	60-120			
4-Chloro-3-methylphenol	85.9	20	2.0	ug/l	100		86	60-120			
2-Chlorophenol	72.0	10	2.0	ug/l	100		72	45-120			
4-Chlorophenyl phenyl ether	87.8	10	2.0	ug/l	100		88	65-120			
Chrysene	91.2	10	2.0	ug/l	100		91	65-120			
Dibenz(a,h)anthracene	104	20	3.0	ug/l	100		104	50-135			
Dibenzofuran	87.6	10	2.0	ug/l	100		88	65-120			
Di-n-butyl phthalate	92.0	20	2.0	ug/l	100		92	60-125			
1,3-Dichlorobenzene	64.5	10	3.0	ug/l	100		65	35-120			
1,4-Dichlorobenzene	68.0	10	2.5	ug/l	100		68	35-120			

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>LCS Analyzed: 12/29/2007 (7L26079-BS1)</b>											
1,2-Dichlorobenzene	72.5	10	3.0	ug/l	100		73	40-120			MNRI
3,3-Dichlorobenzidine	64.4	20	3.0	ug/l	100		64	45-135			
2,4-Dichlorophenol	81.1	10	2.0	ug/l	100		81	55-120			
Diethyl phthalate	88.3	10	2.0	ug/l	100		88	55-120			
2,4-Dimethylphenol	73.6	20	3.5	ug/l	100		74	40-120			
Dimethyl phthalate	87.3	10	2.0	ug/l	100		87	30-120			
4,6-Dinitro-2-methylphenol	86.6	20	4.0	ug/l	100		87	45-120			
2,4-Dinitrophenol	81.9	20	4.5	ug/l	100		82	40-120			
2,4-Dinitrotoluene	95.0	10	2.0	ug/l	100		95	65-120			
2,6-Dinitrotoluene	89.9	10	2.0	ug/l	100		90	65-120			
Di-n-octyl phthalate	92.8	20	2.0	ug/l	100		93	65-135			
Fluoranthene	90.2	10	2.0	ug/l	100		90	60-120			
Fluorene	87.2	10	2.0	ug/l	100		87	65-120			
Hexachlorobenzene	87.3	10	2.5	ug/l	100		87	60-120			
Hexachlorobutadiene	63.7	10	3.5	ug/l	100		64	40-120			
Hexachlorocyclopentadiene	80.2	20	5.0	ug/l	100		80	25-120			
Hexachloroethane	54.6	10	3.0	ug/l	100		55	35-120			
Indeno(1,2,3-cd)pyrene	106	20	3.0	ug/l	100		106	45-135			
Isophorone	82.9	10	2.0	ug/l	100		83	50-120			
2-Methylnaphthalene	83.8	10	2.0	ug/l	100		84	55-120			
2-Methylphenol	76.3	10	2.0	ug/l	100		76	50-120			
4-Methylphenol	82.8	10	2.0	ug/l	100		83	50-120			
Naphthalene	77.6	10	2.5	ug/l	100		78	55-120			
2-Nitroaniline	92.7	20	2.0	ug/l	100		93	65-120			
3-Nitroaniline	95.4	20	2.0	ug/l	100		95	60-120			
4-Nitroaniline	99.0	20	2.5	ug/l	100		99	55-125			
Nitrobenzene	79.4	20	2.5	ug/l	100		79	55-120			
2-Nitrophenol	80.7	10	3.5	ug/l	100		81	50-120			
4-Nitrophenol	84.1	20	5.5	ug/l	100		84	45-120			
N-Nitrosodiphenylamine	88.9	10	2.0	ug/l	100		89	60-120			
N-Nitroso-di-n-propylamine	82.4	10	2.5	ug/l	100		82	45-120			
Pentachlorophenol	101	20	3.5	ug/l	100		101	50-120			
Phenanthrene	86.7	10	2.0	ug/l	100		87	65-120			
Phenol	67.8	10	2.0	ug/l	100		68	40-120			
Pyrene	92.7	10	2.0	ug/l	100		93	55-125			

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>LCS Analyzed: 12/29/2007 (7L26079-BS1)</b>											
1,2,4-Trichlorobenzene	74.4	10	2.5	ug/l	100	74	45-120				MNRI
2,4,5-Trichlorophenol	86.2	20	3.0	ug/l	100	86	55-120				
2,4,6-Trichlorophenol	84.6	20	3.0	ug/l	100	85	55-120				
1,2-Diphenylhydrazine/Azobenzene	86.5	20	2.0	ug/l	100	86	60-120				
N-Nitrosodimethylamine	76.0	20	2.5	ug/l	100	76	45-120				
Surrogate: 2-Fluorophenol	127			ug/l	200	63	30-120				
Surrogate: Phenol-d6	142			ug/l	200	71	35-120				
Surrogate: 2,4,6-Tribromophenol	172			ug/l	200	86	40-120				
Surrogate: Nitrobenzene-d5	75.5			ug/l	100	76	45-120				
Surrogate: 2-Fluorobiphenyl	78.9			ug/l	100	79	50-120				
Surrogate: Terphenyl-d14	90.3			ug/l	100	90	50-125				
<b>LCS Dup Analyzed: 12/29/2007 (7L26079-BSD1)</b>											
Acenaphthene	83.8	10	2.0	ug/l	100	84	60-120	2	20		
Acenaphthylene	94.4	10	2.0	ug/l	100	94	60-120	1	20		
Aniline	77.2	10	2.5	ug/l	100	77	35-120	13	30		
Anthracene	88.8	10	2.0	ug/l	100	89	65-120	1	20		
Benzidine	115	20	8.5	ug/l	100	115	30-160	1	35		
Benzoic acid	62.0	20	8.5	ug/l	100	62	25-120	6	30		
Benzo(a)anthracene	92.9	10	2.0	ug/l	100	93	65-120	2	20		
Benzo(b)fluoranthene	92.0	10	2.0	ug/l	100	92	55-125	0	25		
Benzo(k)fluoranthene	96.4	10	2.0	ug/l	100	96	50-125	2	20		
Benzo(g,h,i)perylene	99.4	10	3.0	ug/l	100	99	45-135	6	25		
Benzo(a)pyrene	97.8	10	2.0	ug/l	100	98	55-130	3	25		
Benzyl alcohol	87.0	20	2.5	ug/l	100	87	50-120	2	20		
Bis(2-chloroethoxy)methane	79.8	10	2.0	ug/l	100	80	55-120	2	20		
Bis(2-chloroethyl)ether	73.1	10	2.5	ug/l	100	73	50-120	3	20		
Bis(2-chloroisopropyl)ether	78.7	10	2.5	ug/l	100	79	45-120	4	20		
Bis(2-ethylhexyl)phthalate	94.3	50	4.0	ug/l	100	94	65-130	3	20		
4-Bromophenyl phenyl ether	87.8	10	2.5	ug/l	100	88	60-120	2	25		
Butyl benzyl phthalate	95.3	20	4.0	ug/l	100	95	55-130	1	20		
4-Chloroaniline	80.4	10	2.0	ug/l	100	80	55-120	7	25		
2-Chloronaphthalene	79.9	10	2.0	ug/l	100	80	60-120	3	20		
4-Chloro-3-methylphenol	84.6	20	2.0	ug/l	100	85	60-120	2	25		
2-Chlorophenol	69.2	10	2.0	ug/l	100	69	45-120	4	25		
4-Chlorophenyl phenyl ether	85.9	10	2.0	ug/l	100	86	65-120	2	20		

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Project Manager

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MWH-Pasadena/Boeing  
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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>LCS Dup Analyzed: 12/29/2007 (7L26079-BSD1)</b>											
Chrysene	90.5	10	2.0	ug/l	100	91	65-120	1	20		
Dibenz(a,h)anthracene	98.3	20	3.0	ug/l	100	98	50-135	6	25		
Dibenzofuran	84.7	10	2.0	ug/l	100	85	65-120	3	20		
Di-n-butyl phthalate	91.4	20	2.0	ug/l	100	91	60-125	1	20		
1,3-Dichlorobenzene	65.0	10	3.0	ug/l	100	65	35-120	1	25		
1,4-Dichlorobenzene	67.8	10	2.5	ug/l	100	68	35-120	0	25		
1,2-Dichlorobenzene	72.0	10	3.0	ug/l	100	72	40-120	1	25		
3,3-Dichlorobenzidine	79.5	20	3.0	ug/l	100	80	45-135	21	25		
2,4-Dichlorophenol	78.5	10	2.0	ug/l	100	78	55-120	3	20		
Diethyl phthalate	87.4	10	2.0	ug/l	100	87	55-120	1	30		
2,4-Dimethylphenol	65.4	20	3.5	ug/l	100	65	40-120	12	25		
Dimethyl phthalate	86.2	10	2.0	ug/l	100	86	30-120	1	30		
4,6-Dinitro-2-methylphenol	84.3	20	4.0	ug/l	100	84	45-120	3	25		
2,4-Dinitrophenol	80.3	20	4.5	ug/l	100	80	40-120	2	25		
2,4-Dinitrotoluene	91.8	10	2.0	ug/l	100	92	65-120	3	20		
2,6-Dinitrotoluene	88.1	10	2.0	ug/l	100	88	65-120	2	20		
Di-n-octyl phthalate	90.1	20	2.0	ug/l	100	90	65-135	3	20		
Fluoranthene	89.7	10	2.0	ug/l	100	90	60-120	1	20		
Fluorene	84.7	10	2.0	ug/l	100	85	65-120	3	20		
Hexachlorobenzene	84.0	10	2.5	ug/l	100	84	60-120	4	20		
Hexachlorobutadiene	65.1	10	3.5	ug/l	100	65	40-120	2	25		
Hexachlorocyclopentadiene	82.5	20	5.0	ug/l	100	83	25-120	3	30		
Hexachloroethane	60.0	10	3.0	ug/l	100	60	35-120	9	25		
Indeno(1,2,3-cd)pyrene	98.9	20	3.0	ug/l	100	99	45-135	7	25		
Isophorone	81.7	10	2.0	ug/l	100	82	50-120	1	20		
2-Methylnaphthalene	81.1	10	2.0	ug/l	100	81	55-120	3	20		
2-Methylphenol	75.3	10	2.0	ug/l	100	75	50-120	1	20		
4-Methylphenol	81.0	10	2.0	ug/l	100	81	50-120	2	20		
Naphthalene	75.8	10	2.5	ug/l	100	76	55-120	2	20		
2-Nitroaniline	90.9	20	2.0	ug/l	100	91	65-120	2	20		
3-Nitroaniline	95.4	20	2.0	ug/l	100	95	60-120	0	25		
4-Nitroaniline	95.4	20	2.5	ug/l	100	95	55-125	4	20		
Nitrobenzene	76.0	20	2.5	ug/l	100	76	55-120	4	25		
2-Nitrophenol	78.7	10	3.5	ug/l	100	79	50-120	3	25		
4-Nitrophenol	84.3	20	5.5	ug/l	100	84	45-120	0	30		

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 Project Manager

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NPDES - 400

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

Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## 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
<b>Batch: 7L26079 Extracted: 12/26/07</b>											
<b>LCS Dup Analyzed: 12/29/2007 (7L26079-BSD1)</b>											
N-Nitrosodiphenylamine	87.9	10	2.0	ug/l	100	88	60-120	1	20		
N-Nitroso-di-n-propylamine	82.2	10	2.5	ug/l	100	82	45-120	0	20		
Pentachlorophenol	96.4	20	3.5	ug/l	100	96	50-120	5	25		
Phenanthrene	85.6	10	2.0	ug/l	100	86	65-120	1	20		
Phenol	71.8	10	2.0	ug/l	100	72	40-120	6	25		
Pyrene	94.0	10	2.0	ug/l	100	94	55-125	1	25		
1,2,4-Trichlorobenzene	73.2	10	2.5	ug/l	100	73	45-120	2	20		
2,4,5-Trichlorophenol	83.1	20	3.0	ug/l	100	83	55-120	4	30		
2,4,6-Trichlorophenol	84.6	20	3.0	ug/l	100	85	55-120	0	30		
1,2-Diphenylhydrazine/Azobenzene	84.5	20	2.0	ug/l	100	85	60-120	2	25		
N-Nitrosodimethylamine	71.7	20	2.5	ug/l	100	72	45-120	6	20		
Surrogate: 2-Fluorophenol	123			ug/l	200	61	30-120				
Surrogate: Phenol-d6	139			ug/l	200	69	35-120				
Surrogate: 2,4,6-Tribromophenol	170			ug/l	200	85	40-120				
Surrogate: Nitrobenzene-d5	73.6			ug/l	100	74	45-120				
Surrogate: 2-Fluorobiphenyl	79.5			ug/l	100	80	50-120				
Surrogate: Terphenyl-d14	89.6			ug/l	100	90	50-125				

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 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L27139 Extracted: 12/27/07</b>										
<b>Blank Analyzed: 12/28/2007 (7L27139-BLK1)</b>										
Boron	ND	0.050	0.020	mg/l						
Cadmium	ND	0.0050	0.0020	mg/l						
Copper	ND	0.010	0.0030	mg/l						
Lead	ND	0.0050	0.0030	mg/l						
Selenium	ND	0.010	0.0080	mg/l						
Zinc	ND	0.020	0.0060	mg/l						
<b>LCS Analyzed: 12/28/2007 (7L27139-BS1)</b>										
Boron	0.535	0.050	0.020	mg/l	0.500		107		85-115	
Cadmium	0.508	0.0050	0.0020	mg/l	0.500		102		85-115	
Copper	0.517	0.010	0.0030	mg/l	0.500		103		85-115	
Lead	0.522	0.0050	0.0030	mg/l	0.500		104		85-115	
Selenium	0.491	0.010	0.0080	mg/l	0.500		98		85-115	
Zinc	0.501	0.020	0.0060	mg/l	0.500		100		85-115	
<b>Matrix Spike Analyzed: 12/28/2007 (7L27139-MS1) Source: IQL2054-01</b>										
Boron	0.549	0.050	0.020	mg/l	0.500	0.0220	105		70-130	
Cadmium	0.516	0.0050	0.0020	mg/l	0.500	ND	103		70-130	
Copper	0.546	0.010	0.0030	mg/l	0.500	0.0178	106		70-130	
Lead	0.546	0.0050	0.0030	mg/l	0.500	0.0130	107		70-130	
Selenium	0.500	0.010	0.0080	mg/l	0.500	ND	100		70-130	
Zinc	0.776	0.020	0.0060	mg/l	0.500	0.265	102		70-130	
<b>Matrix Spike Analyzed: 12/28/2007 (7L27139-MS2) Source: IQL2647-03</b>										
Boron	1.47	0.050	0.020	mg/l	0.500	0.912	112		70-130	
Cadmium	0.504	0.0050	0.0020	mg/l	0.500	ND	101		70-130	
Copper	0.910	0.010	0.0030	mg/l	0.500	0.351	112		70-130	
Lead	0.521	0.0050	0.0030	mg/l	0.500	0.00529	103		70-130	
Selenium	0.694	0.010	0.0080	mg/l	0.500	0.205	98		70-130	
Zinc	0.541	0.020	0.0060	mg/l	0.500	0.0404	100		70-130	

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L27139 Extracted: 12/27/07</b>											
<b>Matrix Spike Analyzed: 12/28/2007 (7L27139-MS3)</b>						<b>Source: IQL2054-01RE1</b>					
Boron	0.549	0.050	0.020	mg/l	0.500	0.0220	105	70-130			
Cadmium	0.516	0.0050	0.0020	mg/l	0.500	ND	103	70-130			
Copper	0.546	0.010	0.0030	mg/l	0.500	0.0178	106	70-130			
Lead	0.546	0.0050	0.0030	mg/l	0.500	0.0130	107	70-130			
Selenium	0.500	0.010	0.0080	mg/l	0.500	ND	100	70-130			
Zinc	0.776	0.020	0.0060	mg/l	0.500	0.265	102	70-130			
<b>Matrix Spike Dup Analyzed: 12/28/2007 (7L27139-MSD1)</b>						<b>Source: IQL2054-01</b>					
Boron	0.549	0.050	0.020	mg/l	0.500	0.0220	105	70-130	0	20	
Cadmium	0.511	0.0050	0.0020	mg/l	0.500	ND	102	70-130	1	20	
Copper	0.540	0.010	0.0030	mg/l	0.500	0.0178	104	70-130	1	20	
Lead	0.538	0.0050	0.0030	mg/l	0.500	0.0130	105	70-130	1	20	
Selenium	0.491	0.010	0.0080	mg/l	0.500	ND	98	70-130	2	20	
Zinc	0.772	0.020	0.0060	mg/l	0.500	0.265	102	70-130	0	20	
<b>Matrix Spike Dup Analyzed: 12/28/2007 (7L27139-MSD3)</b>						<b>Source: IQL2054-01RE1</b>					
Boron	0.549	0.050	0.020	mg/l	0.500	0.0220	105	70-130	0	20	
Cadmium	0.511	0.0050	0.0020	mg/l	0.500	ND	102	70-130	1	20	
Copper	0.540	0.010	0.0030	mg/l	0.500	0.0178	104	70-130	1	20	
Lead	0.538	0.0050	0.0030	mg/l	0.500	0.0130	105	70-130	1	20	
Selenium	0.491	0.010	0.0080	mg/l	0.500	ND	98	70-130	2	20	
Zinc	0.772	0.020	0.0060	mg/l	0.500	0.265	102	70-130	0	20	

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Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## METHOD BLANK/QC DATA

### DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L21138 Extracted: 12/21/07</b>											
<b>Blank Analyzed: 12/28/2007 (7L21138-BLK1)</b>											
Boron	ND	0.050	0.020	mg/l							
Cadmium	ND	0.0050	0.0020	mg/l							
Copper	ND	0.010	0.0030	mg/l							
Lead	ND	0.0050	0.0030	mg/l							
Selenium	ND	0.010	0.0080	mg/l							
Zinc	0.00666	0.020	0.0060	mg/l							J
<b>LCS Analyzed: 12/28/2007 (7L21138-BS1)</b>											
Boron	0.971	0.050	0.020	mg/l	1.00		97	85-115			
Cadmium	0.986	0.0050	0.0020	mg/l	1.00		99	85-115			
Copper	0.981	0.010	0.0030	mg/l	1.00		98	85-115			
Lead	0.978	0.0050	0.0030	mg/l	1.00		98	85-115			
Selenium	1.01	0.010	0.0080	mg/l	1.00		101	85-115			
Zinc	0.999	0.020	0.0060	mg/l	1.00		100	85-115			
<b>Matrix Spike Analyzed: 12/28/2007 (7L21138-MS1) Source: IQL2416-01</b>											
Boron	1.03	0.050	0.020	mg/l	1.00	ND	103	70-130			
Cadmium	0.994	0.0050	0.0020	mg/l	1.00	ND	99	70-130			
Copper	1.06	0.010	0.0030	mg/l	1.00	ND	106	70-130			
Lead	0.992	0.0050	0.0030	mg/l	1.00	ND	99	70-130			
Selenium	1.03	0.010	0.0080	mg/l	1.00	0.0177	101	70-130			
Zinc	1.03	0.020	0.0060	mg/l	1.00	ND	103	70-130			
<b>Matrix Spike Dup Analyzed: 12/28/2007 (7L21138-MSD1) Source: IQL2416-01</b>											
Boron	1.05	0.050	0.020	mg/l	1.00	ND	105	70-130	3	20	
Cadmium	1.02	0.0050	0.0020	mg/l	1.00	ND	102	70-130	2	20	
Copper	1.08	0.010	0.0030	mg/l	1.00	ND	108	70-130	2	20	
Lead	1.01	0.0050	0.0030	mg/l	1.00	ND	101	70-130	2	20	
Selenium	1.04	0.010	0.0080	mg/l	1.00	0.0177	102	70-130	1	20	
Zinc	1.04	0.020	0.0060	mg/l	1.00	ND	104	70-130	1	20	

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Sampled: 12/21/07  
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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L21048 Extracted: 12/21/07</b>											
<b>Blank Analyzed: 12/21/2007 (7L21048-BLK1)</b>											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
<b>LCS Analyzed: 12/21/2007 (7L21048-BS1)</b>											
Chloride	4.97	0.50	0.25	mg/l	5.00		99	90-110			
Nitrate-N	1.15	0.11	0.060	mg/l	1.13		102	90-110			
Nitrite-N	1.55	0.15	0.090	mg/l	1.52		102	90-110			
Sulfate	9.52	0.50	0.20	mg/l	10.0		95	90-110			
<b>Matrix Spike Analyzed: 12/22/2007 (7L21048-MS1) Source: IQL2392-03</b>											
Chloride	5.10	0.50	0.25	mg/l	5.00	ND	102	80-120			
Nitrate-N	1.23	0.11	0.060	mg/l	1.13	ND	109	80-120			
Nitrite-N	1.59	0.15	0.090	mg/l	1.52	ND	105	80-120			
Sulfate	9.75	0.50	0.20	mg/l	10.0	ND	98	80-120			
<b>Matrix Spike Dup Analyzed: 12/22/2007 (7L21048-MSD1) Source: IQL2392-03</b>											
Chloride	5.04	0.50	0.25	mg/l	5.00	ND	101	80-120	1	20	
Nitrate-N	1.16	0.11	0.060	mg/l	1.13	ND	103	80-120	5	20	
Nitrite-N	1.48	0.15	0.090	mg/l	1.52	ND	97	80-120	7	20	
Sulfate	9.73	0.50	0.20	mg/l	10.0	ND	97	80-120	0	20	

### **Batch: 7L21126 Extracted: 12/21/07**

#### **Blank Analyzed: 12/26/2007 (7L21126-BLK1)**

Biochemical Oxygen Demand	ND	2.0	0.59	mg/l
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APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
<b><u>Batch: 7L21126 Extracted: 12/21/07</u></b>											
<b>LCS Analyzed: 12/26/2007 (7L21126-BS1)</b>											
Biochemical Oxygen Demand	215	100	30	mg/l	198		109	85-115			
<b>LCS Dup Analyzed: 12/26/2007 (7L21126-BSD1)</b>											
Biochemical Oxygen Demand	220	100	30	mg/l	198		111	85-115	3	20	
<b><u>Batch: 7L22048 Extracted: 12/22/07</u></b>											
<b>Blank Analyzed: 12/22/2007 (7L22048-BLK1)</b>											
Turbidity	ND	1.0	0.040	NTU							
<b>Duplicate Analyzed: 12/22/2007 (7L22048-DUP1)</b>											
Turbidity	5.16	1.0	0.040	NTU		Source: IQL2416-01	5.19		1	20	
<b><u>Batch: 7L26123 Extracted: 12/26/07</u></b>											
<b>Blank Analyzed: 12/26/2007 (7L26123-BLK1)</b>											
Total Suspended Solids	ND	10	10	mg/l							
<b>LCS Analyzed: 12/26/2007 (7L26123-BS1)</b>											
Total Suspended Solids	925	10	10	mg/l	1000		92	85-115			
<b>Duplicate Analyzed: 12/26/2007 (7L26123-DUP1)</b>											
Total Suspended Solids	ND	10	10	mg/l		Source: IQL2401-02	ND			10	
<b><u>Batch: 7L27066 Extracted: 12/27/07</u></b>											
<b>Blank Analyzed: 12/27/2007 (7L27066-BLK1)</b>											
Perchlorate	ND	4.0	1.5	ug/l							

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 Report Number: IQL2416

Sampled: 12/21/07  
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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L27066 Extracted: 12/27/07</b>											
<b>LCS Analyzed: 12/27/2007 (7L27066-BS1)</b>											
Perchlorate	49.3	4.0	1.5	ug/l	50.0		99	85-115			
<b>Matrix Spike Analyzed: 12/27/2007 (7L27066-MS1)</b>											
						<b>Source: IQL2115-04</b>					
Perchlorate	52.1	4.0	1.5	ug/l	50.0	3.67	97	80-120			
<b>Matrix Spike Dup Analyzed: 12/27/2007 (7L27066-MSD1)</b>											
						<b>Source: IQL2115-04</b>					
Perchlorate	53.4	4.0	1.5	ug/l	50.0	3.67	99	80-120	2	20	
<b>Batch: 7L27069 Extracted: 12/26/07</b>											
<b>Blank Analyzed: 12/26/2007 (7L27069-BLK1)</b>											
Total Dissolved Solids	ND	10	10	mg/l							
<b>LCS Analyzed: 12/26/2007 (7L27069-BS1)</b>											
Total Dissolved Solids	994	10	10	mg/l	1000		99	90-110			
<b>Duplicate Analyzed: 12/26/2007 (7L27069-DUP1)</b>											
						<b>Source: IQL2200-01</b>					
Total Dissolved Solids	1580	10	10	mg/l		1580			0	10	
<b>Batch: 7L27114 Extracted: 12/27/07</b>											
<b>Blank Analyzed: 12/27/2007 (7L27114-BLK1)</b>											
Ammonia-N (Distilled)	ND	0.50	0.30	mg/l							
<b>LCS Analyzed: 12/27/2007 (7L27114-BS1)</b>											
Ammonia-N (Distilled)	10.6	0.50	0.30	mg/l	10.0		106	80-115			

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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
<b><u>Batch: 7L27114 Extracted: 12/27/07</u></b>											
<b>Matrix Spike Analyzed: 12/27/2007 (7L27114-MS1)</b>						<b>Source: IQL2416-01</b>					
Ammonia-N (Distilled)	10.4	0.50	0.30	mg/l	10.0	ND	104	70-120			
<b>Matrix Spike Dup Analyzed: 12/27/2007 (7L27114-MSD1)</b>						<b>Source: IQL2416-01</b>					
Ammonia-N (Distilled)	10.1	0.50	0.30	mg/l	10.0	ND	101	70-120	3	15	
<b><u>Batch: 7L28075 Extracted: 12/28/07</u></b>											
<b>Blank Analyzed: 12/28/2007 (7L28075-BLK1)</b>											
Hexane Extractable Material (Oil & Grease)	1.90	5.0	1.4	mg/l							J
<b>LCS Analyzed: 12/28/2007 (7L28075-BS1)</b>											
Hexane Extractable Material (Oil & Grease)	19.3	5.0	1.4	mg/l	20.2		96	78-114			MNRI
<b>LCS Dup Analyzed: 12/28/2007 (7L28075-BSD1)</b>											
Hexane Extractable Material (Oil & Grease)	18.9	5.0	1.4	mg/l	20.2		94	78-114	2	11	
<b><u>Batch: 7L28085 Extracted: 12/28/07</u></b>											
<b>Blank Analyzed: 12/28/2007 (7L28085-BLK1)</b>											
Fluoride	0.0259	0.10	0.014	mg/l							J
<b>LCS Analyzed: 12/28/2007 (7L28085-BS1)</b>											
Fluoride	0.992	0.10	0.014	mg/l	1.00		99	90-110			
<b>Matrix Spike Analyzed: 12/28/2007 (7L28085-MS1)</b>						<b>Source: IQL2359-01</b>					
Fluoride	2.01	0.10	0.014	mg/l	2.00	0.166	92	80-120			

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## METHOD BLANK/QC DATA

### INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L28085 Extracted: 12/28/07</b>											
<b>Matrix Spike Dup Analyzed: 12/28/2007 (7L28085-MSD1)</b>						<b>Source: IQL2359-01</b>					
Fluoride	2.13	0.10	0.014	mg/l	2.00	0.166	98	80-120	6	20	

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NPDES - 409

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## METHOD BLANK/QC DATA

### Metals by EPA 200 Series Methods

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: W8A0020 Extracted: 01/02/08</b>											
<b>Blank Analyzed: 01/03/2008 (W8A0020-BLK1)</b>											
Mercury, Dissolved	ND	0.20	0.050	ug/l							
Mercury, Total	ND	0.20	0.050	ug/l							
<b>LCS Analyzed: 01/03/2008 (W8A0020-BS1)</b>											
Mercury, Dissolved	0.858	0.20	0.050	ug/l	1.00		86	85-115			
Mercury, Total	0.858	0.20	0.050	ug/l	1.00		86	85-115			
<b>Matrix Spike Analyzed: 01/03/2008 (W8A0020-MS1)</b>											
						<b>Source: 7123132-01</b>					<b>QM-01</b>
Mercury, Dissolved	1.34	0.40	0.10	ug/l	2.00	0.168	59	70-130			
Mercury, Total	1.34	0.40	0.10	ug/l	2.00	0.168	59	70-130			
<b>Matrix Spike Dup Analyzed: 01/03/2008 (W8A0020-MSD1)</b>											
						<b>Source: 7123132-01</b>					<b>QM-01</b>
Mercury, Dissolved	1.36	0.40	0.10	ug/l	2.00	0.168	60	70-130	1	20	
Mercury, Total	1.36	0.40	0.10	ug/l	2.00	0.168	60	70-130	1	20	

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## METHOD BLANK/QC DATA

### DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9823 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 12/29/2007 (MB001)</b>											
						<b>Source:</b>					
2,3,7,8-TCDD	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	25.0	N/A	ug/L				50-150		25	
OCDD	ND	50.0	N/A	ug/L				50-150		25	
2,3,7,8-TCDF	ND	5.00	N/A	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	25.0	N/A	ug/L				50-150		25	
OCDF	ND	50.0	N/A	ug/L				50-150		25	
Total TCDD	ND	5.00	N/A	ug/L				50-150		25	
Total PeCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDD	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDD	ND	25.0	N/A	ug/L				50-150		25	
Total TCDF	ND	5.00	N/A	ug/L				50-150		25	
Total PeCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HxCDF	ND	25.0	N/A	ug/L				50-150		25	
Total HpCDF	ND	25.0	N/A	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	0.00177			ug/L	2000		88	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00181			ug/L	2000		91	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00161			ug/L	2000		81	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00139			ug/L	2000		70	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00113			ug/L	2000		56	50-150			
Surrogate: 13C-OCDD	0.00199			ug/L	4000		50	50-150			
Surrogate: 13C-2,3,7,8-TCDF	0.00188			ug/L	2000		94	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00194			ug/L	2000		97	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00201			ug/L	2000		101	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00151			ug/L	2000		75	50-150			

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## METHOD BLANK/QC DATA

### DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9823 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 12/29/2007 (MB001)</b>											
					<b>Source:</b>						
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00128			ug/L	2000		64	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00140			ug/L	2000		70	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00136			ug/L	2000		68	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00107			ug/L	2000		53	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.000877			ug/L	2000		44	50-150			
Surrogate: 13C-OCDF	0.00159			ug/L	4000		40	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	0.000816			ug/L	800		102	50-150			
<b>LCS Analyzed: 12/29/2007 (OPR001)</b>											
					<b>Source:</b>						
2,3,7,8-TCDD	9.73	5.00	N/A	ug/L	10		97	50-150		25	
1,2,3,7,8-PeCDD	47.7	25.0	N/A	ug/L	50		95	50-150		25	
1,2,3,4,7,8-HxCDD	47.0	25.0	N/A	ug/L	50		94	50-150		25	
1,2,3,6,7,8-HxCDD	47.3	25.0	N/A	ug/L	50		95	50-150		25	
1,2,3,7,8,9-HxCDD	50.2	25.0	N/A	ug/L	50		100	50-150		25	
1,2,3,4,6,7,8-HpCDD	48.0	25.0	N/A	ug/L	50		96	50-150		25	
OCDD	94.9	50.0	N/A	ug/L	100		95	50-150		25	
2,3,7,8-TCDF	9.75	5.00	N/A	ug/L	10		98	50-150		25	
1,2,3,7,8-PeCDF	48.6	25.0	N/A	ug/L	50		97	50-150		25	
2,3,4,7,8-PeCDF	50.2	25.0	N/A	ug/L	50		100	50-150		25	
1,2,3,4,7,8-HxCDF	47.5	25.0	N/A	ug/L	50		95	50-150		25	
1,2,3,6,7,8-HxCDF	50.2	25.0	N/A	ug/L	50		100	50-150		25	
2,3,4,6,7,8-HxCDF	50.2	25.0	N/A	ug/L	50		100	50-150		25	
1,2,3,7,8,9-HxCDF	49.2	25.0	N/A	ug/L	50		98	50-150		25	
1,2,3,4,6,7,8-HpCDF	47.5	25.0	N/A	ug/L	50		95	50-150		25	
1,2,3,4,7,8,9-HpCDF	47.5	25.0	N/A	ug/L	50		95	50-150		25	
OCDF	98.2	50.0	N/A	ug/L	100		98	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	95.6			ug/L	100		96	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	99.1			ug/L	100		99	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	91.3			ug/L	100		91	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	79.3			ug/L	100		79	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	67.9			ug/L	100		68	50-150			
Surrogate: 13C-OCDD	125			ug/L	200		63	50-150			
Surrogate: 13C-2,3,7,8-TCDF	103			ug/L	100		103	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	111			ug/L	100		111	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	111			ug/L	100		111	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	88.5			ug/L	100		89	50-150			

#### TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Routine Outfall 014  
 APTF Test Stand  
 Report Number: IQL2416

Sampled: 12/21/07  
 Received: 12/21/07

## METHOD BLANK/QC DATA

### DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 9823 Extracted: 12/28/07</b>											
<b>LCS Analyzed: 12/29/2007 (OPR001)</b>											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	72.2			ug/L	100		72	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	80.0			ug/L	100		80	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	80.1			ug/L	100		80	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	60.8			ug/L	100		61	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	51.4			ug/L	100		51	50-150			
Surrogate: 13C-OCDF	98.1			ug/L	200		49	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	41.4			ug/L	40		103	50-150			

TestAmerica Irvine

Joseph Doak  
 Project Manager

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## 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.
- Ja** The amount detected is below the Lower Calibration Limit of the instrument
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- QM-01** The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
- 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.

**For GRO (C4-C12):**

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

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

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

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**IQL2416 <Page 42 of 44>**

**NPDES - 414**

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 160.5	Water	X	X
EPA 1664	Water		
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 340.2	Water	X	X
EPA 350.2	Water		X
EPA 405.1	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B MOD.	Water	X	X
EPA 8260B-SIM	Water		
SM2540C	Water	X	

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at [www.testamericainc.com](http://www.testamericainc.com)*

### Subcontracted Laboratories

#### Alta Analytical Perspectives

2714 Exchange Drive - Wilmington, NC 28405

Method Performed: 1613-Dioxin-HR Alta  
Samples: IQL2416-01

#### Truesdail Laboratories-SUB *California Cert #1237*

14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine  
Samples: IQL2416-01

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta  
Samples: IQL2416-01

### TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Routine Outfall 014  
APTF Test Stand  
Report Number: IQL2416

Sampled: 12/21/07  
Received: 12/21/07

**Weck Laboratories, Inc**

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

Method Performed: EPA 245.1

Samples: IQL2416-01

**TestAmerica Irvine**

Joseph Doak  
Project Manager

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**IQL2416 <Page 44 of 44>**

**NPDES - 416**

EQ 2416 rev.

**CHAIN OF CUSTODY FORM**

Test America Version 12/20/07

Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Routine Outfall 014 APTF Test Stand	
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: <b>R. BANAGA</b>		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	

Field readings:  
Temp = 5.5°C = 41.9  
pH = 8.26  
Time of readings = 08:30

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Oil & Grease (1664-HDM)	8015 - gas	8015 - diesel/jet fuel	TRPH = Total Rec. Petroleum Hydrocarbons (8015)	1,4-Dioxane (8260B)	BOD <sub>5</sub> (20 degrees C)	625 (Naphthalene + NDMA analysis)	Ammonia-N (350.2)	Cl <sup>-</sup> , SO <sub>4</sub> <sup>-</sup> , F <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> +NO <sub>2</sub> <sup>-</sup> Perchlorate	Nitrate-N, Nitrite-N	Comments
Outfall 014	W	1L Amber	1	12-27-07 08:30	HCl	1A	X										
Outfall 014 Dup	W	1L Amber	1		HCl	1B	X										
Outfall 014	W	VOAs	1		HCl	2A		X									
Outfall 014 Dup	W	VOAs	2		HCl	2B, 2C		X									
Outfall 014	W	1L Amber	1		None	3A			X								
Outfall 014 Dup	W	1L Amber	1		None	3B		X									
Outfall 014	W	1L Amber	1		HCl	4A			X								
Outfall 014 Dup	W	1L Amber	1		HCl	4B			X								
Outfall 014	W	VOAs	1		HCl	5A					X						
Outfall 014 Dup	W	VOAs	2		HCl	5B, 5C					X						
Outfall 014	W	1L Poly	1		None	6						X					
Outfall 014	W	1L Amber	1		None	7A							X				
Outfall 014 Dup	W	1L Amber	1		None	7B							X				
Outfall 014	W	500 ml Poly	1		H <sub>2</sub> SO <sub>4</sub>	8							X				
Outfall 014	W	500 ml Poly	2		None	9A, 9B								X			
Outfall 014	W	500 ml Poly	1		None	10									X		

Relinquished By <i>[Signature]</i>	Date/Time: 12/27/07 08:30	Received By <i>[Signature]</i>	Date/Time: 12/27/07 12:25
Relinquished By	Date/Time:	Received By	Date/Time:
Relinquished By	Date/Time:	Received By	Date/Time:

Turn around Time: (check)  
 24 Hours \_\_\_\_\_ 5 Days   
 48 Hours \_\_\_\_\_ 10 Days \_\_\_\_\_  
 72 Hours \_\_\_\_\_ Normal \_\_\_\_\_  
 Sample integrity: (check)  
 Intact \_\_\_\_\_ On Ice: \_\_\_\_\_

IOL 2416 - Rev  
Do Not Report

### CHAIN OF CUSTODY FORM

Test America Version 12/20/07

Client Name/Address		Project:		ANALYSIS REQUIRED		Comments	
MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Boeing-SSFL NPDES Routine Outfall 014 APTF Test Stand		Turbidity, TDS, TSS Settleable Solids 624 (EDB, 1,2,3-TCF, MTBE) DIPE, TBA VOCs 624, xylenes +A+A+2CVF			
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: [Signature]		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		Total Recoverable Metals, Cd, Se, Zn, B, Cu, Pb, Hg	Total Dissolved Metals, Cd, Se, Zn, B, Cu, Pb, Hg	TCDD (and all congeners)	Monomethyl hydrazine
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	
Outfall 014	W	500 ml Poly	2	12/21/07 08:30	None	11A, 11B	
Outfall 014	W	1L Poly	1		None	12	
Outfall 014	W	VOAs	1		HCl	13A	
Outfall 014 Dup	W	VOAs	2		HCl	13B, 13C	
Outfall 014	W	VOAs	3		None	14A, 14B, 14C	
Outfall 014	W	1L Poly	2		HNO <sub>3</sub>	15A, 15B	
Outfall 014	W	1L Poly	1		None	16	
Outfall 014	W	1L Amber	2		None	17A, 17B	
Outfall 014	W	1L Amber	2	12/21/07 08:30	None	18A, 18B	
Trip Blanks	W	VOAs	3		HCl	19A, 19B, 19C	
Trip Blanks	W	VOAs	3		None	20A, 20B, 20C	
Relinquished By				Date/Time: 12-21-07	Received By		Date/Time: 12/21/07
Relinquished By				Date/Time: 12/25	Received By		Date/Time: 12/25
Relinquished By				Date/Time:	Received By		Date/Time:

Turn around Time: (check)  
 24 Hours \_\_\_\_\_ 5 Days   
 48 Hours \_\_\_\_\_ 10 Days \_\_\_\_\_  
 72 Hours \_\_\_\_\_ Normal \_\_\_\_\_  
 Sample Integrity: (check)  
 Intact \_\_\_\_\_ On Ice: \_\_\_\_\_

12/24/07

ALC

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Routine Outfall 014 APTF Test Stand		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515		ANALYSIS REQUIRED		Field readings: Temp = 5.5 °C = 41.9 pH = 8.26 Time of readings = 08:30													
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: R. BANAĞA		Oil & Grease (1664-HDM)		8015 - gas		8015 - diesel/jet fuel		TRPH = Total Rec. (8015)		1,4-Dioxane (826B)		BOD <sub>5</sub> (20 degrees C)		625 (Naphthalene +NDMA analysis)		Ammonia-N (350.2)		Cl <sup>-</sup> , SO <sub>4</sub> <sup>-</sup> , F <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> +NO <sub>2</sub> <sup>-</sup> , Percholate		Nitrate-N, Nitrite-N	
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	8015 - gas	8015 - diesel/jet fuel	TRPH = Total Rec. (8015)	1,4-Dioxane (826B)	BOD <sub>5</sub> (20 degrees C)	625 (Naphthalene +NDMA analysis)	Ammonia-N (350.2)	Cl <sup>-</sup> , SO <sub>4</sub> <sup>-</sup> , F <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> +NO <sub>2</sub> <sup>-</sup> , Percholate	Nitrate-N, Nitrite-N	Comments					
Outfall 014	W	1L Amber	1	12-21-07 08:30	HCl	1A															
Outfall 014 Dup	W	1L Amber	1		HCl	1B															
Outfall 014	W	VOAs	1		HCl	2A	X														
Outfall 014 Dup	W	VOAs	2		HCl	2B, 2C	X														
Outfall 014	W	1L Amber	1		None	3A		X													
Outfall 014 Dup	W	1L Amber	1		None	3B		X													
Outfall 014	W	1L Amber	1		HCl	4A			X												
Outfall 014 Dup	W	1L Amber	1		HCl	4B			X												
Outfall 014	W	VOAs	1		HCl	5A				X											
Outfall 014 Dup	W	VOAs	2		HCl	5B, 5C				X											
Outfall 014	W	1L Poly	1		None	6					X										
Outfall 014	W	1L Amber	1		None	7A						X									
Outfall 014 Dup	W	1L Amber	1		None	7B						X									
Outfall 014	W	500 ml Poly	1		H <sub>2</sub> SO <sub>4</sub>	8							X								
Outfall 014	W	500 ml Poly	2		None	9A, 9B								X							
Outfall 014	W	500 ml Poly	1	12-21-07 08:30	None	10									X						
Relinquished By		Date/Time		Received By		Date/Time		Turn around Time: (check)		24 Hours		48 Hours		72 Hours		Sample Integrity: (check)		Intact		On Ice: X	
R. King		12/21/07 1225		B. Keen		12/21/07 1225		5 Days		10 Days		Normal		X		X		X		X	
B. Keen		12/21/07 1835		B. Keen		12-21-07 1835															

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**CHAIN OF CUSTODY FORM**

Test America version 12/20/07

Client Name/Address: <b>MWH-Arcadia</b> 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES <b>Routine Outfall 014</b> APTF Test Stand		Phone Number: (626) 568-6691 Fax Number: (626) 568-5515		ANALYSIS REQUIRED Turbidity, TDS, TSS Settleable Solids 624 (EDB, 1,2,3-TCF, MTBE, DIFE, TBA) VOCs 624, xylenes +A+A+2CVE Total Recoverable Metals, Cd, Se, Zn, Pb, Hg Total Dissolved Metals, Cd, Se, Zn, B, Cu, Pb, Hg TCDD (and all congeners) Monomethyl hydrazine		Comments
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: <i>R. B. A. G. A.</i>		Project: Boeing-SSFL NPDES <b>Routine Outfall 014</b> APTF Test Stand		Phone Number: (626) 568-6691 Fax Number: (626) 568-5515		ANALYSIS REQUIRED Turbidity, TDS, TSS Settleable Solids 624 (EDB, 1,2,3-TCF, MTBE, DIFE, TBA) VOCs 624, xylenes +A+A+2CVE Total Recoverable Metals, Cd, Se, Zn, Pb, Hg Total Dissolved Metals, Cd, Se, Zn, B, Cu, Pb, Hg TCDD (and all congeners) Monomethyl hydrazine		
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #		
Outfall 014	W	500 ml Poly	2	12-21-07 08:30	None	11A, 11B	X	
Outfall 014	W	1L Poly	1		None	12		
Outfall 014	W	VOAs	1		HCl	13A		
Outfall 014 Dup	W	VOAs	2		HCl	13B, 13C		
Outfall 014	W	VOAs	3		None	14A, 14B, 14C		
Outfall 014	W	1L Poly	2		HNO <sub>3</sub>	15A, 15B	X	
Outfall 014	W	1L Poly	1		None	16		Filter w/in 24hrs of receipt at lab
Outfall 014	W	1L Amber	2		None	17A, 17B		
Outfall 014	W	1L Amber	2	12-21-07 08:30	None	18A, 18B	X	
Trip Blanks	W	VOAs	3		HCl	19A, 19B, 19C		
Trip Blanks	W	VOAs	3		None	20A, 20B, 20C	X	
Relinquished By				12-21-07				
Relinquished By				12-21-07				
Relinquished By				12-21-07				
Relinquished By				12-21-07				

Turn around Time: (check)  
 24 Hours \_\_\_\_\_ 5 Days   
 48 Hours \_\_\_\_\_ 10 Days \_\_\_\_\_  
 72 Hours \_\_\_\_\_ Normal \_\_\_\_\_  
 Sample Integrity: (check)  
 Intact  On Ice:

Received By: *BD Keen* 12/21/07 12:25  
 Received By: \_\_\_\_\_  
 Received By: *Harvey K* 12-21-07 18:35  
 Received By: \_\_\_\_\_

4.3/3.3



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

**Attention:** Joseph Doak  
**Sample:** Water / 1 Sample  
**Project Name:** IQL2416  
**P.O. Number:** IQL2416  
**Method Number:** 8315 (Modified)  
**Investigation:** Hydrazines

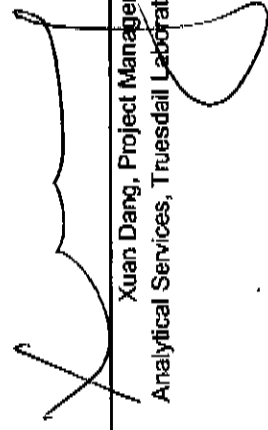
**REPORT**

**Laboratory No:** 972201  
**Report Date:** January 7, 2008  
**Sampling Date:** December 21, 2007  
**Receiving Date:** December 26, 2007  
**Extraction Date:** December 26, 2007  
**Analysis Date:** December 27, 2007  
**Units:** µg/L  
**Reported By:** JS

**Analytical Results**

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl		u-Dimethyl		Hydrazine	Qualifier Codes
				Hydrazine	Hydrazine	Hydrazine	Hydrazine		
707140-MB	Method Blank	100	1	ND	ND	ND	ND	ND	None
972201	IQL2416-01	100	1	ND	ND	0.32	0.15	ND	None
<b>MDL</b>				0.56	5.0	5.0	1.00		
<b>PQL</b>				5.0	5.0	5.0	1.00		
<b>Sample Reporting Limits</b>				5.0	5.0	5.0	1.00		

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

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

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

# TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

14201 FRANKLIN AVENUE - JUSTIN, CALIFORNIA 92780-7208  
(714) 730-6239 • FAX (714) 730-6462 • www.truesdail.com

**Client Contact:** Joseph Doak  
**Sample:** Water / 1 Sample  
**Sample ID:** IQL2416  
**P.O. Number:** IQL2416  
**Method Number:** 8315 (Modified)  
**Investigation:** Hydrazines  
**Run Batch No.:** Extraction: 4227; Analysis: 590

**QC Lab. No.:** 707140  
**Project Lab. No.:** 972201  
**Spiked Sample ID:** 972201  
**Report Date:** January 7, 2008  
**Sampling Date:** December 21, 2007  
**Receiving Date:** December 26, 2007  
**Extraction Date:** December 26, 2007  
**Analysis Date:** December 27, 2007  
**Reported By:** JS

## Quality Control/Quality Assurance Calibration Report

### QCS

Parameter	Theoretical Value (ug/L)		Measured Value (ug/L)		Percent Recovery		Control Limits	Flag
	Value	ug/L	Value	ug/L	Recovery	Percent		
Monomethyl Hydrazine	25.0		24.7		98.9		85-115	PASS
u-Dimethyl Hydrazine	25.0		23.4		93.5		85-115	PASS
Hydrazine	5.0		4.63		92.6		85-115	PASS

Parameter	Theoretical Value (ug/L)		Measured Value (ug/L)		Percent Recovery		Control Limits	Flag
	Value	ug/L	Value	ug/L	Recovery	Percent		
Monomethyl Hydrazine	50.0		50.5		101		85-115	PASS
u-Dimethyl Hydrazine	50.0		52.2		104		85-115	PASS
Hydrazine	10.0		9.83		98.3		85-115	PASS

### ICY

## Quality Control/Quality Assurance Spikes Report

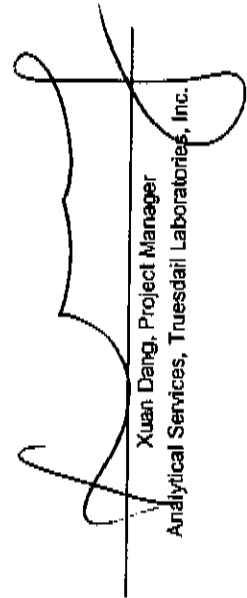
### LCS/LCSD

Parameter	Spiked Conc. ug/L	Recovered Concentration		Percent Recovery (%)		LCS/LCSD RPD		Control Limits	
		LCS	LCSD	LCS	LCSD	LCS	LCSD	%D	% Rec.
Monomethyl Hydrazine	50.0	43.9	45.0	87.8	89.9	2.35%		20	70-130
u-Dimethyl Hydrazine	50.0	43.7	45.0	87.5	90.0	2.85%		20	70-130
Hydrazine	10.0	10.6	11.9	106	119	11.8%		20	70-130

### MS/MSD

Parameter	Recovered Concentration		Percent Recovery (%)		MS/MSD RPD		Control Limits	
	MS	MSD	MS	MSD	MSD	RPD	%D	% Rec.
Monomethyl Hydrazine	44.8	43.4	0.00	89.6	86.9	3.10%	PASS	20 11-134
u-Dimethyl Hydrazine	38.5	43.7	0.00	77.1	87.4	12.5%	PASS	20 42-109
Hydrazine	11.0	9.53	0.00	110	95.3	14.3%	PASS	20 37-128

Note: Results based on detector #1 (UV=366nm) data.

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

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

TestAmerica Irvine  
IQL2416

972201

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Rec'd 12/26/07  
s17a 972201

Ice: Y / N

Analysis	Units	Due	Expires	Comments
Sample ID: IQL2416-01	Water		Sampled: 12/21/07 08:30	
Hydrazine-OUT	%	01/02/08	12/24/07 08:30	Sub to Truesdail for Monomethylhydrazine, J flags Include Std logs
Level 4 Data Package	N/A	01/02/08	01/18/08 08:30	
<u>Containers Supplied:</u>				
1 L Amber (AH)	1 L Amber (AI)			

Talked to Joseph Doak and informed the him and he wanted us to extract and analyze the samples.

**ALERT !!  
Level IV QC**

12-26-07  
10:40 AM  
Mon.

Sample Conditions  
Not Analyzed

[Signature]  
Released By  
[Signature]  
Released By

Date/Time  
12/26/07 1007  
Date/Time

[Signature]  
Received By  
L. Shadumina  
Date/Time  
12/26/07 10:07  
Received By  
Date/Time  
Page 1 of 10

December 31, 2007

**Vista Project I.D.: 30107**

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

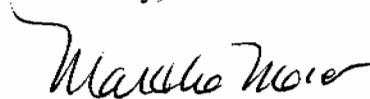
Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on December 27, 2007 under your Project Name "IQL2416". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A rush turnaround time was provided for this work.

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

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mmaier@vista-analytical.com](mailto: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: 12/27/2007**

Vista Lab. ID

Client Sample ID

30107-001

IQL2416-01

## SECTION II

**Method Blank**

**EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9823	Lab Sample:	0-MB001			
Sample Size:	1.00 L	Date Extracted:	28-Dec-07	Date Analyzed DB-5:	29-Dec-07			
				Date Analyzed DB-225:	NA			
Analyte	Conc. (ug/L)	DL <sup>a</sup>	EMPC <sup>b</sup>	Qualifiers	Labeled Standard	%R	LCL-UCL <sup>d</sup>	Qualifiers
2,3,7,8-TCDD	ND	0.00000116			IS 13C-2,3,7,8-TCDD	88.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000984			13C-1,2,3,7,8-PeCDD	90.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000143			13C-1,2,3,4,7,8-HxCDD	80.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000148			13C-1,2,3,6,7,8-HxCDD	69.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000145			13C-1,2,3,4,6,7,8-HpCDD	56.3	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.00000260			13C-OCDD	49.8	17 - 157	
OCDD	ND	0.00000558			13C-2,3,7,8-TCDF	93.8	24 - 169	
2,3,7,8-TCDF	ND	0.00000239			13C-1,2,3,7,8-PeCDF	96.9	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000217			13C-2,3,4,7,8-PeCDF	101	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000212			13C-1,2,3,4,7,8-HxCDF	75.4	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.00000581			13C-1,2,3,6,7,8-HxCDF	64.2	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000638			13C-2,3,4,6,7,8-HxCDF	70.2	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000684			13C-1,2,3,7,8,9-HxCDF	68.0	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000106			13C-1,2,3,4,6,7,8-HpCDF	53.3	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000906			13C-1,2,3,4,7,8,9-HpCDF	43.9	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000151			13C-OCDF	39.8	17 - 157	
OCDF	ND	0.00000296			CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	
<b>Totals</b>								
Total TCDD	ND	0.00000116			a. Sample specific estimated detection limit.			
Total PeCDD	ND	0.00000155			b. Estimated maximum possible concentration.			
Total HxCDD	ND	0.00000146			c. Method detection limit.			
Total HpCDD	ND	0.00000503			d. Lower control limit - upper control limit.			
Total TCDF	ND	0.00000239						
Total PeCDF	ND	0.00000215						
Total HxCDF	ND	0.00000721						
Total HpCDF	ND	0.00000114						

Analyst: MAS

Approved By:

William J. Luksemburg 31-Dec-2007 07:46



**OPR Results**

**EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9823	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	28-Dec-07	Date Analyzed DB-5:	29-Dec-07		
				Date Analyzed DB-225:	NA		
Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits	Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	9.73	6.7 - 15.8	<b>IS</b> 13C-2,3,7,8-TCDD	95.6	25 - 164	
1,2,3,7,8-PeCDD	50.0	47.7	35 - 71	13C-1,2,3,7,8-PeCDD	99.1	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	47.0	35 - 82	13C-1,2,3,4,7,8-HxCDD	91.3	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	47.3	38 - 67	13C-1,2,3,6,7,8-HxCDD	79.3	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	50.2	32 - 81	13C-1,2,3,4,6,7,8-HpCDD	67.9	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	48.0	35 - 70	13C-OCDD	62.7	17 - 157	
OCDD	100	94.9	78 - 144	13C-2,3,7,8-TCDF	103	24 - 169	
2,3,7,8-TCDF	10.0	9.75	7.5 - 15.8	13C-1,2,3,7,8-PeCDF	111	24 - 185	
1,2,3,7,8-PeCDF	50.0	48.6	40 - 67	13C-2,3,4,7,8-PeCDF	111	21 - 178	
2,3,4,7,8-PeCDF	50.0	50.2	34 - 80	13C-1,2,3,4,7,8-HxCDF	88.5	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	47.5	36 - 67	13C-1,2,3,6,7,8-HxCDF	72.2	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	50.2	42 - 65	13C-2,3,4,6,7,8-HxCDF	80.0	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.2	35 - 78	13C-1,2,3,7,8,9-HxCDF	80.1	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	49.2	39 - 65	13C-1,2,3,4,6,7,8-HpCDF	60.8	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	47.5	41 - 61	13C-1,2,3,4,7,8,9-HpCDF	51.4	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	47.5	39 - 69	13C-OCDF	49.0	17 - 157	
OCDF	100	98.2	63 - 170	<b>CRS</b> 37Cl-2,3,7,8-TCDD	103	35 - 197	

Analyst: MAS

Approved By:

William J. Luksemburg

31-Dec-2007 07:46

Sample ID: **IQL2416-01**

EPA Method **1613**

Client Data		Sample Data		Laboratory Data	
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	30107-001
Project:	IQL2416	Sample Size:	0.962 L	QC Batch No.:	9823
Date Collected:	21-Dec-07			Date Analyzed DB-5:	30-Dec-07
Time Collected:	0830			Date Analyzed DB-225:	NA
				Date Received:	27-Dec-07
				Date Extracted:	28-Dec-07

Analyte	Conc. (ug/L)	DL <sup>a</sup>	EMPC <sup>b</sup>	Qualifiers	Labeled Standard	%R	LCL-UCL <sup>d</sup>	Qualifiers
2,3,7,8-TCDD	ND	0.000000877			IS 13C-2,3,7,8-TCDD	85.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000132			13C-1,2,3,7,8-PeCDD	82.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000220			13C-1,2,3,4,7,8-HxCDD	74.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000218			13C-1,2,3,6,7,8-HxCDD	65.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000218			13C-1,2,3,4,6,7,8-HpCDD	61.8	23 - 140	
1,2,3,4,6,7,8-HpCDD	0.0000108			J	13C-OCDD	58.6	17 - 157	
OCDD	0.000107				13C-2,3,7,8-TCDF	89.2	24 - 169	
2,3,7,8-TCDF	ND	0.00000134			13C-1,2,3,7,8-PeCDF	91.1	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000144			13C-2,3,4,7,8-PeCDF	93.4	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000142			13C-1,2,3,4,7,8-HxCDF	72.6	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000615			13C-1,2,3,6,7,8-HxCDF	61.1	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.000000669			13C-2,3,4,6,7,8-HxCDF	66.9	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.000000723			13C-1,2,3,7,8,9-HxCDF	63.5	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000114			13C-1,2,3,4,6,7,8-HpCDF	54.5	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000208			13C-1,2,3,4,7,8,9-HpCDF	53.4	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000107			13C-OCDF	48.5	17 - 157	
OCDF	ND	0.00000492			CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

Totals		Footnotes	
Total TCDD	ND	a. Sample specific estimated detection limit.	
Total PeCDD	ND	b. Estimated maximum possible concentration.	
Total HxCDD	ND	c. Method detection limit.	
Total HpCDD	0.0000269	d. Lower control limit - upper control limit.	
Total TCDF	ND		
Total PeCDF	ND		
Total HxCDF	ND		
Total HpCDF	ND		

Analyst: MAS

Approved By:

William J. Luksemburg

31-Dec-2007 07:46

## APPENDIX

## DATA QUALIFIERS & ABBREVIATIONS

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

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

## CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica Irvine

IQL2416

30/07 1.9°C

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Analysis	Units	Due	Expires	Comments
Sample ID: IQL2416-01	Water		Sampled: 12/21/07 08:30	
1613-Dioxin-HR-Alta	ug/l	01/02/08	12/28/07 08:30	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
Level 4 + EDD-OUT	N/A	01/02/08	01/18/08 08:30	Excel EDD email to pm, include Std logs for Lvl IV
<i>Containers Supplied:</i>				
1 L Amber (AF)	1 L Amber (AG)			

  
Released By

12-26-07/17:00  
Date/Time

  
Received By

12/27/07 0933  
Date/Time

Released By

Date/Time

Received By

Date/Time

SAMPLE LOG-IN CHECKLIST



Vista Project #: 30107 TAT 4

Samples Arrival:	Date/Time 12/27/07 0855	Initials: YBUB	Location: WR-2
			Shelf/Rack: N/A
Logged In:	Date/Time 12/27/07 0950	Initials: YBUB	Location: WR-2
			Shelf/Rack: B-2
Delivered By:	<u>FedEx</u>	UPS	Cal
			DHL
			Hand Delivered
			Other
Preservation:	<u>Ice</u>	Blue Ice	Dry Ice
			None
Temp °C	1.9°C	Time:	0906
			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 #	7997 7494 1743	✓
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 <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented?	COC	Sample Container	<u>None</u>
Shipping Container	Vista	<u>Client</u>	Retain <u>Return</u> Dispose

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine

IQL2416

7122636

**SENDING LABORATORY:**

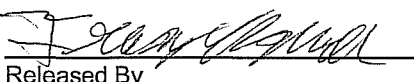
TestAmerica Irvine  
17461 Derian Avenue. Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak

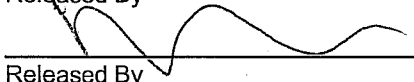
**RECEIVING LABORATORY:**

Weck Laboratories, Inc-SUB  
14859 E. Clark Avenue  
City of Industry, CA 91745  
Phone : (626) 336-2139  
Fax: (626) 336-2634  
Project Location: California  
Receipt Temperature: 4.4 °C

Ice:  Y /  N

Analysis	Units	Due	Expires	Comments
Sample ID: IQL2416-01	Water		Sampled: 12/21/07 08:30	
Level 4 Data Package - Out	N/A	01/02/08	01/18/08 08:30	Boeing
Mercury - 245.1, Diss -OUT	mg/l	01/02/08	01/18/08 08:30	Out to Weck Level 4 Boeing, permit, J flags
Mercury - 245.1-OUT	mg/l	01/02/08	01/18/08 08:30	Out to Weck Level 4 Boeing, permit, J flags
<i>Containers Supplied:</i>				
125 mL Poly (AJ)	125 mL Poly w/HNO3 (AK)			

Released By 

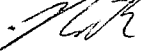
Released By 

Date/Time

12/26/07 13:05

Date/Time

Received By



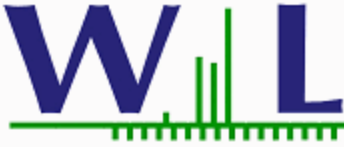
Received By

Date/Time

12/26/07 13:05

Date/Time





### CERTIFICATE OF ANALYSIS

**Client:** TestAmerica, Inc. - Irvine  
17461 Derian Ave, Suite 100  
Irvine, CA 92614  
Attention: Joseph Doak

**Report Date:** 01/04/08 09:38  
**Received Date:** 12/26/07 13:05  
**Turn Around:** Normal

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

**Work Order #:** 7122636  
**Client Project:** IQL2416

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 Joseph Doak :

Enclosed are the results of analyses for samples received 12/26/07 13:05 with the Chain of Custody document. The samples were received in good condition. The samples were received at 4.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager





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: 7122636  
Project ID: IQL2416

Date Received: 12/26/07 13:05  
Date Reported: 01/04/08 09:38

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQL2416-01	Client		7122636-01	Water	12/21/07 08:30



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

Report ID: 7122636  
 Project ID: IQL2416

Date Received: 12/26/07 13:05  
 Date Reported: 01/04/08 09:38

**IQL2416-01 7122636-01 (Water)**

Date Sampled: 12/21/07 08:30

**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	W8A0020	01/02/08	01/03/08	jlp
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W8A0020	01/02/08	01/03/08	jlp



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Report ID: 7122636  
Project ID: IQL2416

Date Received: 12/26/07 13:05  
Date Reported: 01/04/08 09:38

# QUALITY CONTROL SECTION



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  
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Report ID: 7122636  
 Project ID: IQL2416

Date Received: 12/26/07 13:05  
 Date Reported: 01/04/08 09:38

**Metals by EPA 200 Series Methods - Quality Control**

%REC

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

**Batch W8A0020 - EPA 245.1**

**Blank (W8A0020-BLK1)**

Analyzed: 01/03/08

Mercury, Dissolved	ND	0.20	ug/l							
Mercury, Total	ND	0.20	ug/l							

**LCS (W8A0020-BS1)**

Analyzed: 01/03/08

Mercury, Dissolved	0.858	0.20	ug/l	1.00		86	85-115			
Mercury, Total	0.858	0.20	ug/l	1.00		86	85-115			

**Matrix Spike (W8A0020-MS1)**

Source: 7123132-01

Analyzed: 01/03/08

QM-01

Mercury, Dissolved	1.34	0.40	ug/l	2.00	0.168	59	70-130			
Mercury, Total	1.34	0.40	ug/l	2.00	0.168	59	70-130			

**Matrix Spike Dup (W8A0020-MSD1)**

Source: 7123132-01

Analyzed: 01/03/08

QM-01

Mercury, Dissolved	1.36	0.40	ug/l	2.00	0.168	60	70-130	1	20	
Mercury, Total	1.36	0.40	ug/l	2.00	0.168	60	70-130	1	20	



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Irvine CA, 92614

Report ID: 7122636  
Project ID: IQL2416

Date Received: 12/26/07 13:05  
Date Reported: 01/04/08 09:38

### Notes and Definitions

QM-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
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**

Arroyo Simi – Frontier Park, December 27, 2007

MEC<sup>X</sup> Data Validation Reports



# DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IQL2678

Prepared by

MEC<sup>X</sup>, LLC  
12269 East Vassar Drive  
Aurora, CO 80014



## I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES  
Contract Task Order: 1261.100D.001  
Sample Delivery Group: IQL2678  
Project Manager: B. Kelly  
Matrix: Water  
QC Level: IV  
No. of Samples: 1  
No. of Reanalyses/Dilutions: 0  
Laboratory: TestAmerica-Irvine, TestAmerica-Ontario

**Table 1. Sample Identification**

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Arroyo Simi-FP	IQL2678-01	CQL-0902-01	Water	12/27/07 0830	200.7, 525.2, 608

## II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the samples were delivered by courier, custody seals were not required. If necessary, the client ID was added to the sample result summary by the reviewer.

---

### Data Qualifier Reference Table

---

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

---

### Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

**Qualification Code Reference Table Cont.**

---

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
*II, *III	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

---

### III. Method Analyses

#### A. EPA METHOD 200.7—Metals

Reviewed By: P. Meeks

Date Reviewed: January 28, 2008

The sample listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Method 200.7*, and the *National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: Analytical holding times, six months for ICP, were met.
- Tuning: As the sample was not analyzed by ICP-MS, the tuning criteria were not applicable.
- Calibration: Calibration criteria were met. All initial and continuing calibration recoveries were within 90-110% for the ICP metals.
- Blanks: Method blanks and CCBs had no applicable detects.
- Interference Check Samples: Recoveries were within the method-established control limits.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed for the sample in this SDG. Method accuracy was evaluated based on the LCS results.
- Serial Dilution: No serial dilution analyses were performed.
- Internal Standards Performance: As the sample was not analyzed by ICP-MS, the internal standard criteria are not applicable.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. The laboratory also reported hardness as a result calculated from the calcium and magnesium concentrations. Reported nondetects are valid to the MDL.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC

data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:

- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
- Field Duplicates: There were no field duplicate samples identified for this SDG.

## **B. EPA METHOD 608—PCBs**

Reviewed By: L. Calvin

Date Reviewed: January 28, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 608*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: The initial calibration had average %RSDs of  $\leq 10\%$ . The ICV and CCVs bracketing the sample analysis had %Ds within the QC limit of  $\leq 15\%$ .
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: The recovery was within the laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample from this SDG. Evaluation of method accuracy and precision was based on the blank spike results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

- Compound Identification: Compound identification was verified. The laboratory analyzed for seven Aroclors by Method 608. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Reported nondetects are valid to the reporting limit.

### C. EPA METHOD 608—Pesticides

Reviewed By: L. Calvin

Date Reviewed: January 28, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 0)*, *EPA Method 608*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- Calibration: The initial calibration had average %RSDs of  $\leq 10\%$  or  $r^2$  values  $\geq 0.995$  for the applicable target compounds. The ICV, single point calibrations for chlordane and toxaphene, and the CCVs bracketing the sample analyses had responses within the QC limits of  $\pm 15\%$ . The breakdown totals for endrin and 4,4-DDT were  $\leq 15\%$ .
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample from this SDG. Evaluation of method accuracy and precision was based on the LCS/LCSD results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
  - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
  - Field Duplicates: There were no field duplicate samples identified for this SDG.

- **Compound Identification:** Compound identification was verified. The laboratory analyzed for a subset of pesticide target compounds by Method 608. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- **Compound Quantification and Reported Detection Limits:** Compound quantification was verified from the raw data. The reporting limits were supported by the lower level of the initial calibration. Reported nondetects are valid to the MDL.

#### **D. EPA METHOD 525.2—Semivolatile Organic Compounds (SVOCs)**

Reviewed By: L. Calvin

Date Reviewed: January 28, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC<sup>x</sup> Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 525.2*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- **Holding Times:** Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- **GC/MS Tuning:** The DFTPP tunes met the method abundance criteria. The sample was analyzed within 12 hours of the DFTPP injection time.
- **Calibration:** Calibration criteria were met. For applicable target compounds, initial calibration average RRFs were  $\geq 0.05$  and %RSDs  $\leq 30\%$ . Continuing calibration RRFs were  $\geq 0.05$  and applicable target compound responses were within the method QC limits of 70-130%.
- **Blanks:** The method blank had no applicable target compound detects above the MDL.
- **Blank Spikes and Laboratory Control Samples:** Recoveries and RPDs were within laboratory-established QC limits.
- **Surrogate Recovery:** Recoveries were within laboratory-established QC limits.
- **Matrix Spike/Matrix Spike Duplicate:** MS/MSD analyses were not performed on the site sample in this SDG. Evaluation of method accuracy and precision was based on the LCS/LCSD results.
- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:



- Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
- Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The internal standard area counts and retention times were within the method control limits established by the continuing calibration standards of  $\pm 30\%$ .
- Compound Identification: Compound identification was verified. The laboratory analyzed for chlorpyrifos and diazinon by Method 525.2. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Reported nondetects are valid to the reporting limit.
- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: Review of the raw data indicated no problems with system performance.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: mg/l									
Hardness (as CaCO3)	[CALC]	[CALC]	N/A	0.33	880	1	12/28/07	01/01/08	
Calcium	EPA 200.7	7L28074	0.050	0.10	240	1	12/28/07	01/01/08	
Magnesium	EPA 200.7	7L28074	0.012	0.020	68	1	12/28/07	01/01/08	

LEVEL IV

TestAmerica Irvine

Joseph Doak  
Project Manager

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

IQL2678 <Page 4 of 12>

# TestAmerica

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7L28054	0.45	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1221	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1232	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1242	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1248	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1254	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1260	EPA 608	7L28054	0.30	1.0	ND	1	12/28/07	01/08/08	
Surrogate: Decachlorobiphenyl (45-120%)					92 %				

Level IV

TestAmerica Irvine

Joseph Doak  
Project Manager

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IQL2678 <Page 3 of 12>

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2678-01 (Arroyo Simi-FP - Water)									
Reporting Units: ug/l									
Chlordane	EPA 608	7L28054	0.20	1.0	ND	1	12/28/07	01/03/08	
4,4'-DDD	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
4,4'-DDE	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
4,4'-DDT	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
Dieldrin	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
Toxaphene	EPA 608	7L28054	1.5	5.0	ND	1	12/28/07	01/03/08	
Surrogate: Tetrachloro-m-xylene (35-115%)					76 %				
Surrogate: Decachlorobiphenyl (45-120%)					83 %				

Level IV

TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Chlorpyrifos	EPA 525.2	C7L2808	N/A	1.0	ND	0.98	12/28/07	12/28/07	
Diazinon	EPA 525.2	C7L2808	N/A	0.25	ND	0.98	12/28/07	12/28/07	
Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)					106 %				
Surrogate: Triphenylphosphate (70-130%)					102 %				
Surrogate: Perylene-d12 (70-130%)					102 %				

Level IV

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Joseph Doak  
 Project Manager

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## **APPENDIX G**

### **Section 18**

Arroyo Simi – Frontier Park, December 27, 2007

Test America Analytical Laboratory Report

## LABORATORY REPORT

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

Project: Quarterly Arroyo Simi-Frontier  
Park

Sampled: 12/27/07  
Received: 12/27/07  
Revised: 01/29/08 10:29

NELAP #01108CA California ELAP#1197 CSDLAC #10256

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

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

## SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This is a revised report to include only requested analytes for pesticides.

This report does not include all analysis listed on original COC because sample was not submitted for the following analysis: PP Metals, SVOCs, VOCs and Cyanide.

### LABORATORY ID

IQL2678-01

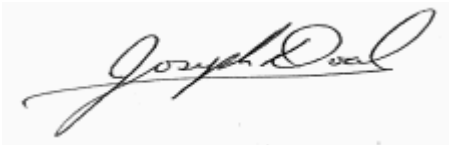
### CLIENT ID

Arroyo Simi-FP

### MATRIX

Water

Reviewed By:



**TestAmerica Irvine**

Joseph Doak  
Project Manager

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2678-01 (Arroyo Simi-FP - Water)</b>									
Reporting Units: ug/l									
Chlordane	EPA 608	7L28054	0.20	1.0	ND	1	12/28/07	01/03/08	
4,4'-DDD	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
4,4'-DDE	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
4,4'-DDT	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
Dieldrin	EPA 608	7L28054	0.030	0.10	ND	1	12/28/07	01/03/08	
Toxaphene	EPA 608	7L28054	1.5	5.0	ND	1	12/28/07	01/03/08	
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>					76 %				
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					83 %				

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 Project Manager

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 Arcadia, CA 91007  
 Attention: Bronwyn Kelly

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7L28054	0.45	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1221	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1232	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1242	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1248	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1254	EPA 608	7L28054	0.25	1.0	ND	1	12/28/07	01/08/08	
Aroclor 1260	EPA 608	7L28054	0.30	1.0	ND	1	12/28/07	01/08/08	
Surrogate: Decachlorobiphenyl (45-120%)					92 %				

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Attention: Bronwyn Kelly

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.</b>									
Reporting Units: mg/l									
Hardness (as CaCO <sub>3</sub> )	[CALC]	[CALC]	N/A	0.33	<b>880</b>	1	12/28/07	01/01/08	
Calcium	EPA 200.7	7L28074	0.050	0.10	<b>240</b>	1	12/28/07	01/01/08	
Magnesium	EPA 200.7	7L28074	0.012	0.020	<b>68</b>	1	12/28/07	01/01/08	

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NPDES - 461

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
<b>Sample ID: IQL2678-01 (Arroyo Simi-FP - Water) - cont.</b>									
<b>Reporting Units: ug/l</b>									
Chlorpyrifos	EPA 525.2	C7L2808	N/A	1.0	ND	0.98	12/28/07	12/28/07	
Diazinon	EPA 525.2	C7L2808	N/A	0.25	ND	0.98	12/28/07	12/28/07	
<i>Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)</i>					106 %				
<i>Surrogate: Triphenylphosphate (70-130%)</i>					102 %				
<i>Surrogate: Perylene-d12 (70-130%)</i>					102 %				

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NPDES - 462

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L28054 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 01/03/2008 (7L28054-BLK1)</b>											
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							
Toxaphene	ND	5.0	1.5	ug/l							
Surrogate: Tetrachloro-m-xylene	0.395			ug/l	0.500		79	35-115			
Surrogate: Decachlorobiphenyl	0.539			ug/l	0.500		108	45-120			
<b>LCS Analyzed: 01/03/2008 (7L28054-BS1)</b>											
4,4'-DDD	0.484	0.10	0.030	ug/l	0.500		97	55-120			MNR1
4,4'-DDE	0.484	0.10	0.030	ug/l	0.500		97	50-120			
4,4'-DDT	0.500	0.10	0.030	ug/l	0.500		100	55-120			
Dieldrin	0.478	0.10	0.030	ug/l	0.500		96	55-115			
Surrogate: Tetrachloro-m-xylene	0.407			ug/l	0.500		81	35-115			
Surrogate: Decachlorobiphenyl	0.474			ug/l	0.500		95	45-120			
<b>LCS Dup Analyzed: 01/03/2008 (7L28054-BSD1)</b>											
4,4'-DDD	0.485	0.10	0.030	ug/l	0.500		97	55-120	0	30	
4,4'-DDE	0.482	0.10	0.030	ug/l	0.500		96	50-120	0	30	
4,4'-DDT	0.494	0.10	0.030	ug/l	0.500		99	55-120	1	30	
Dieldrin	0.479	0.10	0.030	ug/l	0.500		96	55-115	0	30	
Surrogate: Tetrachloro-m-xylene	0.424			ug/l	0.500		85	35-115			
Surrogate: Decachlorobiphenyl	0.462			ug/l	0.500		92	45-120			

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 Project Manager

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## METHOD BLANK/QC DATA

### TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L28054 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 01/08/2008 (7L28054-BLK1)</b>											
Aroclor 1016	ND	1.0	0.45	ug/l							
Aroclor 1221	ND	1.0	0.25	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	0.549			ug/l	0.500		110	45-120			
<b>LCS Analyzed: 01/08/2008 (7L28054-BS2)</b>											
Aroclor 1016	3.95	1.0	0.45	ug/l	4.00		99	50-115			MNR1
Aroclor 1260	4.21	1.0	0.30	ug/l	4.00		105	60-120			
Surrogate: Decachlorobiphenyl	0.486			ug/l	0.500		97	45-120			
<b>LCS Dup Analyzed: 01/08/2008 (7L28054-BSD2)</b>											
Aroclor 1016	4.03	1.0	0.45	ug/l	4.00		101	50-115	2	30	
Aroclor 1260	4.18	1.0	0.30	ug/l	4.00		105	60-120	1	25	
Surrogate: Decachlorobiphenyl	0.493			ug/l	0.500		99	45-120			

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MWH-Pasadena/Boeing  
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 Attention: Bronwyn Kelly

Project ID: Quarterly Arroyo Simi-Frontier Park  
 Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## METHOD BLANK/QC DATA

### METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: 7L28074 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 01/01/2008 (7L28074-BLK1)</b>											
Calcium	ND	0.10	0.050	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
<b>LCS Analyzed: 01/01/2008 (7L28074-BS1)</b>											
Calcium	2.44	0.10	0.050	mg/l	2.50		98	85-115			
Magnesium	2.34	0.020	0.012	mg/l	2.50		93	85-115			
<b>Matrix Spike Analyzed: 01/01/2008 (7L28074-MS1) Source: IQL2708-01</b>											
Calcium	274	0.10	0.050	mg/l	2.50	271	102	70-130			MHA
Magnesium	355	0.020	0.012	mg/l	2.50	348	256	70-130			MHA
<b>Matrix Spike Analyzed: 01/01/2008-01/02/2008 (7L28074-MS2) Source: IQL2708-02</b>											
Calcium	608	1.0	0.50	mg/l	2.50	605	126	70-130			MHA
Magnesium	371	0.020	0.012	mg/l	2.50	370	32	70-130			MHA
<b>Matrix Spike Dup Analyzed: 01/01/2008 (7L28074-MSD1) Source: IQL2708-01</b>											
Calcium	272	0.10	0.050	mg/l	2.50	271	60	70-130	0	20	MHA
Magnesium	352	0.020	0.012	mg/l	2.50	348	153	70-130	1	20	MHA

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
 Received: 12/27/07

## METHOD BLANK/QC DATA

### ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<b>Batch: C7L2808 Extracted: 12/28/07</b>											
<b>Blank Analyzed: 12/28/2007 (C7L2808-BLK1)</b>											
Chlorpyrifos	ND	1.0	N/A	ug/l							
Diazinon	ND	0.25	N/A	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.41			ug/l	5.00		108	70-130			
Surrogate: Triphenylphosphate	4.61			ug/l	5.00		92	70-130			
Surrogate: Perylene-d12	5.05			ug/l	5.00		101	70-130			
<b>LCS Analyzed: 12/28/2007 (C7L2808-BS1)</b>											
Chlorpyrifos	5.67	1.0	N/A	ug/l	5.00		113	70-130			MNR1
Diazinon	5.45	0.25	N/A	ug/l	5.00		109	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.06			ug/l	5.00		101	70-130			
Surrogate: Triphenylphosphate	4.83			ug/l	5.00		97	70-130			
Surrogate: Perylene-d12	5.19			ug/l	5.00		104	70-130			
<b>LCS Dup Analyzed: 12/28/2007 (C7L2808-BSD1)</b>											
Chlorpyrifos	5.93	1.0	N/A	ug/l	5.00		119	70-130	4	10	
Diazinon	5.68	0.25	N/A	ug/l	5.00		114	70-130	4	50	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	5.16			ug/l	5.00		103	70-130			
Surrogate: Triphenylphosphate	4.83			ug/l	5.00		97	70-130			
Surrogate: Perylene-d12	5.07			ug/l	5.00		101	70-130			

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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07

Received: 12/27/07

## DATA QUALIFIERS AND DEFINITIONS

- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Project Manager

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**IQL2678** <Page 10 of 11>

**NPDES - 467**



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

Project ID: Quarterly Arroyo Simi-Frontier Park

Report Number: IQL2678

Sampled: 12/27/07  
Received: 12/27/07

## Certification Summary

### TestAmerica Irvine

Method	Matrix	Nelac	California
[CALC]	Water		
EDD + Level 4	Water		
EPA 200.7	Water	X	X
EPA 608	Water	X	X
Level 4	Water		

*Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at [www.testamericainc.com](http://www.testamericainc.com)*

### Subcontracted Laboratories

**TestAmerica - Ontario, CA** California Cert #1169, Arizona Cert #AZ0062, Nevada Cert #CA-242

1014 E. Cooley Drive, Suite AB - Colton, CA 92324

Method Performed: EPA 525.2

Samples: IQL2678-01

### TestAmerica Irvine

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Project Manager

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# CHAIN OF CUSTODY FORM

Client Name/Address:  
**MVH-Arcadia**  
 518 Michellinda Avenue, Suite 200  
 Arcadia, CA 91007

Project  
 Boeing SFL NPDES  
 Quarterly Arroyo Simi-Frontier  
 Park

Test America Contact: Joseph Dyak  
 Project Manager: Bronwyn Kelly  
 Phone Number (626) 568-6691  
 Fax Number (626) 568-6515

Sampler: **E WALKER**

Field Readings

Temp = **41.7**

pH = **7.5c**

Time of readings = **0900**

Comments

ANALYSIS REQUIRED

Sample Description	Sample Matrix	Container Type	# of Containers	Sampling Date/Time	Preservative	Bottle #	Hardness as CaCO <sub>3</sub>	PCBs, (608)	Chlorpyrifos, Diazinon (525 2)	Chlordane, Dieldrin, Toxaphene (608), 4,4'-DDE, 4,4'-DDE, 4,4'	All PP Metals	All PP Pesticides (608)	All SVOCs (625)	All VOCs (624)	Cyanide	Comments
Arroyo Simi-FP	W	1L Poly	1	12-27-07 0900	HNO <sub>3</sub>	1	X									
Arroyo Simi-FP	W	1L Amber	2		None	2A, 2B	X									
Arroyo Simi-FP	W	1L Amber	2		HCl	3A, 3B		X								
Arroyo Simi-FP	W	1L Amber	2		None	4A, 4B			X							
Arroyo Simi-FP	W	1L Poly	1		HNO <sub>3</sub>	5					X					
Arroyo Simi-FP	W	1L Amber	2		None	6A, 6B						X				
Arroyo Simi-FP	W	1L Amber	2		None	7A, 7B							X			
Arroyo Simi-FP	W	VOAs	3		None	8A-9B-9C						X				
Arroyo Simi-FP	W	VOAs	3		HCl	9A-9B-9C							X			
Arroyo Simi-FP	W	500 ml Poly	1	12-27-07 0900	NaOH	10								X		

Reinquisitioned By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Turnaround Time (check):  
 24 Hours \_\_\_\_\_ 5 Days   
 48 Hours \_\_\_\_\_ 10 Days \_\_\_\_\_  
 72 Hours \_\_\_\_\_ Normal \_\_\_\_\_  
 Sample Integrity (check):  
 Intact \_\_\_\_\_ On Ice \_\_\_\_\_