APPENDIX G

Section 3

Outfall 004, July 05, 2007

MEC^X Data Validation Reports

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC[X]
12269 East Vassar Drive
Aurora, CO 80014

Task Order 1261.001D.00
SDG No. IQG0326
No. of Analyses 1

Laboratory Vista Analytical Laboratories
Reviewer K. Shadowlight
Analysis/Method Dioxin/Furan by 1613

Date: August 23, 2007
Reviewer's Signature K. Shadowlight

ACTION ITEMS[a]	
1. **Case Narrative Deficiencies**	
2. **Out of Scope Analyses**	
3. **Analyses Not Conducted**	
4. **Missing Hardcopy Deliverables**	
5. **Incorrect Hardcopy Deliverables**	
6. **Deviations from Analysis Protocol, e.g.,**	Qualifications were assigned for the following:
Holding Times	* Any detect below the laboratory lower calibration level was qualified as estimated, "J."
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS[b]	

[a] Subcontracted analytical laboratory is not meeting contract and/or method requirements.
[b] Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC[X]
12269 East Vassar Drive
Aurora, CO 80014

Task Order: 1261.100D.00
SDG No.: IQG0326
No. of Analyses: 1

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

Date: August 22, 2007
Reviewer's Signature

ACTION ITEMS[a]	
. **Case Narrative Deficiencies**	
2. **Out of Scope Analyses**	
3. **Analyses Not Conducted**	
4. **Missing Hardcopy Deliverables**	
5. **Incorrect Hardcopy Deliverables**	
6. **Deviations from Analysis Protocol, e.g.,**	
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS[b]	Acceptable as reviewed.

[a] Subcontracted analytical laboratory is not meeting contract and/or method requirements.
[b] Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC[X]
12269 East Vassar Drive
Aurora, CO 80014

Task Order: 1261.100D.00
SDG No.: IQG0326
No. of Analyses: 1

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

Date: August 16, 2007
Reviewer's Signature: P. Meeks

ACTION ITEMS[a]	
1. **Case Narrative Deficiencies**	
2. **Out of Scope Analyses**	
3. **Analyses Not Conducted**	
4. **Missing Hardcopy Deliverables**	
5. **Incorrect Hardcopy Deliverables**	
6. **Deviations from Analysis Protocol, e.g.,**	Qualification applied for gross alpha detector efficiency.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	

COMMENTS[b]	

[a] Subcontracted analytical laboratory is not meeting contract and/or method requirements.
[b] Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IQG0326

Prepared by

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

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	IQG0326
Project Manager:	P. Costa
Matrix:	Soil
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	Eberline

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 004	IQGD326-01	7070602-01, 8667-001,	water	7/05/07 1055	245.1, 900.0, 1613

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TesAmerica-Irving at 0°C; however, as the sample was not frozen or damaged no qualifications were required. The sample was received at the sub-laboratory, Vista, within the temperature limits of 4°C ±2°C. The sub-laboratory, Eberline, did not provide temperature information; however, as radiological samples do not need to be chilled, no qualifications were required. According to the case narrative for this SDG, the sample was received intact. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the samples were couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at sub-laboratories, Eberline and Vista. The client ID was added to the sample result summaries 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 1613—Dioxin/Furans

Reviewed By: K. Shadowlight
Date Reviewed: August 23, 2007

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (8/02).

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.

- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.

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

    - Mass Spectrometer Performance: The mass spectrometer performance was acceptable with the static resolving power greater than 10,000.

- Calibration: Calibration criteria were met.

    - Initial Calibration: Initial calibration criteria were met. The initial calibration was acceptable with %RSDs ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤35% for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the Method 1613 QC limits for all standards.

    - Continuing Calibration: Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits.

- Blanks: The method blank had a detect for OCDD above the EDL; however, the concentration reported in the sample exceeded five times the concentration reported in the method blank.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613.

- 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 labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Any detect below the laboratory lower calibration level was qualified as estimated, "J." These "J" values were annotated with the qualification code of "DNQ" to comply with the reporting requirements of the NPDES permit. Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 6010B, 6020, 7470A/7471A—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: August 22, 2007

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Method 7470A*, and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding time, 28 days for mercury, was met.

- Tuning: As mercury was not analyzed by ICP-MS, the ICP-MS tune is not applicable.

- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥0.995 and all initial and continuing calibration recoveries were within 85-115% for mercury.

- Blanks: Mercury was detected in the total method blank, but was not detected in Outfall 004. Mercury was not detected in the dissolved method blank or the associated CCBs.

- Interference Check Samples: As mercury was not analyzed by ICP or ICP-MS, the interference check samples are not applicable.

- Blank Spikes and Laboratory Control Samples: The recovery was within laboratory-established QC limits of 85-115%.

- Laboratory Duplicates: No laboratory duplicate analyses were performed.

- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed. Evaluation of method accuracy was based on LCS results.

- Serial Dilution: No serial dilution analyses were performed.

- Internal Standards Performance: As mercury was not analyzed by ICP-MS, ICP-MS internal standards 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. 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.

C. EPA METHODS 901.1, 905.0—Radionuclides

Reviewed By: P. Meeks
Date Reviewed: August 16, 2007

The sample listed in Table 1 for these analyses were validated based on the guidelines outlined in the *EPA Method 900.0* and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding time, five days for unpreserved samples, was met.

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability. Initial calibrations for gross alpha and beta were checked. The gross alpha detector efficiency was less than 20%; therefore, nondetected gross alpha in Outfall 004 was qualified as an estimated nondetect, "UJ." All other initial calibration and calibration verification information was acceptable.

- Blanks: No analytes were reported above the MDA in the method blank.

- Blank Spikes and Laboratory Control Samples: Both recoveries were within laboratory-established control limits.

- Laboratory Duplicates: Both RPDs were within the laboratory-established control limits.

- Matrix Spike/Matrix Spike Duplicate: Both recoveries were within the laboratory-established control limits.

- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. Sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Reported nondetects are valid to the MDA.

- 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.

Sample ID: IQG0326-01 Outfall 004 **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine	Matrix:	Aqueous	Lab Sample:	29170-001	Date Received:	7-Jul-07
Project:	IQG0326	Sample Size:	1.03 L	QC Batch No.:	9192	Date Extracted:	18-Jul-07
Date Collected:	5-Jul-07			Date Analyzed DB-5:	22-Jul-07	Date Analyzed DB-225:	NA
Time Collected:	1055						

Analyte	Conc. (ug/L)	DL [a]	EMPC[b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000556		
1,2,3,7,8-PeCDD	ND	0.000000639		
1,2,3,4,7,8-HxCDD	ND	0.00000168		
1,2,3,6,7,8-HxCDD	ND	0.000000786		
1,2,3,7,8,9-HxCDD	ND	0.000000748		
1,2,3,4,6,7,8-HpCDD	0.0000163			J
OCDD	0.000257			B
2,3,7,8-TCDF	ND	0.000000646		
1,2,3,7,8-PeCDF	ND	0.000000506		
2,3,4,7,8-PeCDF	ND	0.000000486		
1,2,3,4,7,8-HxCDF	ND	0.000000342		
1,2,3,6,7,8-HxCDF	ND	0.000000378		
2,3,4,6,7,8-HxCDF	ND	0.000000408		
1,2,3,7,8,9-HxCDF	ND	0.000000574		
1,2,3,4,6,7,8-HpCDF	0.00000236			J
1,2,3,4,7,8,9-HpCDF	ND	0.000000796		
OCDF	0.00000633			J

Totals			
Total TCDD	ND	0.000000556	
Total PeCDD	ND	0.000000639	
Total HxCDD	ND	0.00000107	
Total HpCDD	0.0000301		
Total TCDF	ND	0.000000646	
Total PeCDF	ND	0.000000496	
Total HxCDF	0.00000148		0.00000234
Total HpCDF	0.00000897		

	Labeled Standard	%R	LCL-UCL[d]	Qualifiers
IS	13C-2,3,7,8-TCDD	88.3	25 - 164	
	13C-1,2,3,7,8-PeCDD	80.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	81.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	80.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	81.8	23 - 140	
	13C-OCDD	70.3	17 - 157	
	13C-2,3,7,8-TCDF	89.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	78.4	24 - 185	
	13C-2,3,4,7,8-PeCDF	80.1	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	70.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	68.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	73.2	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	72.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	72.8	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	74.1	26 - 138	
	13C-OCDF	69.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	103	35 - 197	

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2007 07:56

Level IV

NPDES-190

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: 7070602
Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

Outfall 004

IQG0326-01 7070602-01 (Water) Date Sampled: 07/05/07 10:55

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 U	ND	0.050	ug/l	0.20	1	EPA 245.1	W7G0184	07/06/07	07/09/07	jlp	
Mercury, Total U	ND	0.050	ug/l	0.20	1	EPA 245.1	W7G0184	07/06/07	07/09/07	jlp	

LEVEL IV

Eberline Services

ANALYSIS RESULTS

SDG 8667
Work Order R707039-01
Received Date 07/09/07

Client TA IRVINE
Contract PROJECT# IQG0326
Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA	
Outfall 004 IQG0326-01	8667-001	07/05/07	08/03/07	GrossAlpha	0.085 ± 1.0	pCi/L	1.74	UJ/R
			08/03/07	Gross Beta	8.17 ± 0.87	pCi/L	1.09	

LEVEL IV

Certified by
Report Date 08/14/07
Page 1

APPENDIX G

Section 4

Outfall 004, July 05, 2007

Test America Analytical Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

LABORATORY REPORT

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

Project: Annual Outfall 004

Sampled: 07/05/07
Received: 07/05/07
Issued: 08/14/07 16:01

NELAP #01108CA California ELAP#1197 CSDLAC #10256

This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 0°C, on ice and with chain of custody documentation.
HOLDING TIMES:	Not all holding times were met. Results were qualified where the sample analysis did not occur within method specified holding time requirements.
PRESERVATION:	Samples requiring preservation were verified prior to sample analysis.
QA/QC CRITERIA:	All analyses met method criteria, except as noted in the report with data qualifiers.
COMMENTS:	Results that fall between the MDL and RL are 'J' flagged.
SUBCONTRACTED:	Refer to the last page for specific subcontract laboratory information included in this report.
ADDITIONAL INFORMATION:	Enclosed are complete final results. The results for the Radiochemistry analyses were added.

LABORATORY ID	CLIENT ID	MATRIX
IQG0326-01	Outfall 004	Water
IQG0326-02	Trip Blank	Water

Reviewed By:

Michele Chamberlin

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

CORRECTIVE ACTION REPORT

Department: Inorganics Prep
Method: EPA 608
QC Batch: 7G13086

Date: 07/17/2007
Matrix: Water

Identification and Definition of Problem:

Sample IQG-0326-01 was extracted past the method holding time for EPA 608 Pesticides/PCB.

Determination of the Cause of the Problem:

A cause for the problem was due to basic employee oversight.

Corrective Action Taken:

The correct procedure was reviewed with employee. Sample was reported and flagged with H qualifier to indicate missing holding time. The group leader for the department will conduct a secondary review and the department manager will conduct a tertiary review of the extraction worklist to identify samples close to their hold time, to ensure they are prepared prior to expiration.

Quality Assurance Approval: Date: 07/19/2007 01:57 PM
Michele Chamberlin

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water)					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Benzene	EPA 624	7G06007	0.28	1.0	ND	1	07/06/07	07/06/07	
Bromodichloromethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
Bromoform	EPA 624	7G06007	0.40	5.0	**3.1**	1	07/06/07	07/06/07	J
Bromomethane	EPA 624	7G06007	0.42	5.0	ND	1	07/06/07	07/06/07	
Carbon tetrachloride	EPA 624	7G06007	0.28	0.50	ND	1	07/06/07	07/06/07	
Chlorobenzene	EPA 624	7G06007	0.36	2.0	ND	1	07/06/07	07/06/07	
Chloroethane	EPA 624	7G06007	0.40	5.0	ND	1	07/06/07	07/06/07	
Chloroform	EPA 624	7G06007	0.33	2.0	ND	1	07/06/07	07/06/07	
Chloromethane	EPA 624	7G06007	0.40	5.0	ND	1	07/06/07	07/06/07	
Dibromochloromethane	EPA 624	7G06007	0.28	2.0	**2.8**	1	07/06/07	07/06/07	
1,2-Dichlorobenzene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
1,3-Dichlorobenzene	EPA 624	7G06007	0.35	2.0	ND	1	07/06/07	07/06/07	
1,4-Dichlorobenzene	EPA 624	7G06007	0.37	2.0	ND	1	07/06/07	07/06/07	M2
1,1-Dichloroethane	EPA 624	7G06007	0.27	2.0	ND	1	07/06/07	07/06/07	
1,2-Dichloroethane	EPA 624	7G06007	0.28	0.50	ND	1	07/06/07	07/06/07	
1,1-Dichloroethene	EPA 624	7G06007	0.42	5.0	ND	1	07/06/07	07/06/07	
trans-1,2-Dichloroethene	EPA 624	7G06007	0.27	2.0	ND	1	07/06/07	07/06/07	
1,2-Dichloropropane	EPA 624	7G06007	0.35	2.0	ND	1	07/06/07	07/06/07	
cis-1,3-Dichloropropene	EPA 624	7G06007	0.22	2.0	ND	1	07/06/07	07/06/07	
trans-1,3-Dichloropropene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
Ethylbenzene	EPA 624	7G06007	0.25	2.0	ND	1	07/06/07	07/06/07	
Methylene chloride	EPA 624	7G06007	0.95	5.0	ND	1	07/06/07	07/06/07	
1,1,2,2-Tetrachloroethane	EPA 624	7G06007	0.24	2.0	ND	1	07/06/07	07/06/07	
Tetrachloroethene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
Toluene	EPA 624	7G06007	0.36	2.0	ND	1	07/06/07	07/06/07	
1,1,1-Trichloroethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
1,1,2-Trichloroethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
Trichloroethene	EPA 624	7G06007	0.26	2.0	ND	1	07/06/07	07/06/07	
Trichlorofluoromethane	EPA 624	7G06007	0.34	5.0	ND	1	07/06/07	07/06/07	
Vinyl chloride	EPA 624	7G06007	0.30	0.50	ND	1	07/06/07	07/06/07	
Xylenes, Total	EPA 624	7G06007	0.90	4.0	ND	1	07/06/07	07/06/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7G06007	1.5	5.0	ND	1	07/06/07	07/06/07	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				

TestAmerica - Irvine, CA

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

Project ID: Annual Outfall 004

Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-02 (Trip Blank - Water)					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Benzene	EPA 624	7G06007	0.28	1.0	ND	1	07/06/07	07/06/07	
Bromodichloromethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
Bromoform	EPA 624	7G06007	0.40	5.0	ND	1	07/06/07	07/06/07	
Bromomethane	EPA 624	7G06007	0.42	5.0	ND	1	07/06/07	07/06/07	
Carbon tetrachloride	EPA 624	7G06007	0.28	0.50	ND	1	07/06/07	07/06/07	
Chlorobenzene	EPA 624	7G06007	0.36	2.0	ND	1	07/06/07	07/06/07	
Chloroethane	EPA 624	7G06007	0.40	5.0	ND	1	07/06/07	07/06/07	
Chloroform	EPA 624	7G06007	0.33	2.0	ND	1	07/06/07	07/06/07	
Chloromethane	EPA 624	7G06007	0.40	5.0	ND	1	07/06/07	07/06/07	
Dibromochloromethane	EPA 624	7G06007	0.28	2.0	ND	1	07/06/07	07/06/07	
1,2-Dichlorobenzene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
1,3-Dichlorobenzene	EPA 624	7G06007	0.35	2.0	ND	1	07/06/07	07/06/07	
1,4-Dichlorobenzene	EPA 624	7G06007	0.37	2.0	ND	1	07/06/07	07/06/07	
1,1-Dichloroethane	EPA 624	7G06007	0.27	2.0	ND	1	07/06/07	07/06/07	
1,2-Dichloroethane	EPA 624	7G06007	0.28	0.50	ND	1	07/06/07	07/06/07	
1,1-Dichloroethene	EPA 624	7G06007	0.42	5.0	ND	1	07/06/07	07/06/07	
trans-1,2-Dichloroethene	EPA 624	7G06007	0.27	2.0	ND	1	07/06/07	07/06/07	
1,2-Dichloropropane	EPA 624	7G06007	0.35	2.0	ND	1	07/06/07	07/06/07	
cis-1,3-Dichloropropene	EPA 624	7G06007	0.22	2.0	ND	1	07/06/07	07/06/07	
trans-1,3-Dichloropropene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
Ethylbenzene	EPA 624	7G06007	0.25	2.0	ND	1	07/06/07	07/06/07	
Methylene chloride	EPA 624	7G06007	0.95	5.0	ND	1	07/06/07	07/06/07	
1,1,2,2-Tetrachloroethane	EPA 624	7G06007	0.24	2.0	ND	1	07/06/07	07/06/07	
Tetrachloroethene	EPA 624	7G06007	0.32	2.0	ND	1	07/06/07	07/06/07	
Toluene	EPA 624	7G06007	0.36	2.0	ND	1	07/06/07	07/06/07	
1,1,1-Trichloroethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
1,1,2-Trichloroethane	EPA 624	7G06007	0.30	2.0	ND	1	07/06/07	07/06/07	
Trichloroethene	EPA 624	7G06007	0.26	2.0	ND	1	07/06/07	07/06/07	
Trichlorofluoromethane	EPA 624	7G06007	0.34	5.0	ND	1	07/06/07	07/06/07	
Vinyl chloride	EPA 624	7G06007	0.30	0.50	ND	1	07/06/07	07/06/07	
Xylenes, Total	EPA 624	7G06007	0.90	4.0	ND	1	07/06/07	07/06/07	
Trichlorotrifluoroethane (Freon 113)	EPA 624	7G06007	1.5	5.0	ND	1	07/06/07	07/06/07	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water)					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Acrolein	EPA 624	7G06007	4.0	50	ND	1	07/06/07	07/06/07	
Acrylonitrile	EPA 624	7G06007	0.70	50	ND	1	07/06/07	07/06/07	
2-Chloroethyl vinyl ether	EPA 624	7G06007	1.8	5.0	ND	1	07/06/07	07/06/07	
Surrogate: Dibromofluoromethane (80-120%)					*101 %*				
Surrogate: Toluene-d8 (80-120%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*93 %*				
Sample ID: IQG0326-02 (Trip Blank - Water)					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Acrolein	EPA 624	7G06007	4.0	50	ND	1	07/06/07	07/06/07	
Acrylonitrile	EPA 624	7G06007	0.70	50	ND	1	07/06/07	07/06/07	
2-Chloroethyl vinyl ether	EPA 624	7G06007	1.8	5.0	ND	1	07/06/07	07/06/07	
Surrogate: Dibromofluoromethane (80-120%)					*99 %*				
Surrogate: Toluene-d8 (80-120%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)					*94 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water)					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Acenaphthene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Acenaphthylene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Aniline	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Anthracene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzidine	EPA 625	7G06114	8.2	19	ND	0.962	07/06/07	07/10/07	L6
Benzoic acid	EPA 625	7G06114	8.2	19	ND	0.962	07/06/07	07/10/07	
Benzo(a)anthracene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzo(b)fluoranthene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzo(k)fluoranthene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzo(g,h,i)perylene	EPA 625	7G06114	2.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzo(a)pyrene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Benzyl alcohol	EPA 625	7G06114	2.4	19	ND	0.962	07/06/07	07/10/07	
Bis(2-chloroethoxy)methane	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Bis(2-chloroethyl)ether	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Bis(2-chloroisopropyl)ether	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Bis(2-ethylhexyl)phthalate	EPA 625	7G06114	3.8	48	ND	0.962	07/06/07	07/10/07	
4-Bromophenyl phenyl ether	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Butyl benzyl phthalate	EPA 625	7G06114	3.8	19	ND	0.962	07/06/07	07/10/07	
4-Chloroaniline	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
2-Chloronaphthalene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
4-Chloro-3-methylphenol	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
2-Chlorophenol	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
4-Chlorophenyl phenyl ether	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Chrysene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Dibenz(a,h)anthracene	EPA 625	7G06114	2.9	19	ND	0.962	07/06/07	07/10/07	
Dibenzofuran	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Di-n-butyl phthalate	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
1,3-Dichlorobenzene	EPA 625	7G06114	2.9	9.6	ND	0.962	07/06/07	07/10/07	
1,4-Dichlorobenzene	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
1,2-Dichlorobenzene	EPA 625	7G06114	2.9	9.6	ND	0.962	07/06/07	07/10/07	
3,3-Dichlorobenzidine	EPA 625	7G06114	2.9	19	ND	0.962	07/06/07	07/10/07	
2,4-Dichlorophenol	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Diethyl phthalate	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
2,4-Dimethylphenol	EPA 625	7G06114	3.4	19	ND	0.962	07/06/07	07/10/07	
Dimethyl phthalate	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
4,6-Dinitro-2-methylphenol	EPA 625	7G06114	3.8	19	ND	0.962	07/06/07	07/10/07	
2,4-Dinitrophenol	EPA 625	7G06114	4.3	19	ND	0.962	07/06/07	07/10/07	
2,4-Dinitrotoluene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
2,6-Dinitrotoluene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Di-n-octyl phthalate	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
Fluoranthene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Fluorene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Hexachlorobenzene	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Hexachlorobutadiene	EPA 625	7G06114	3.4	9.6	ND	0.962	07/06/07	07/10/07	
Hexachlorocyclopentadiene	EPA 625	7G06114	4.8	19	ND	0.962	07/06/07	07/10/07	
Hexachloroethane	EPA 625	7G06114	2.9	9.6	ND	0.962	07/06/07	07/10/07	
Indeno(1,2,3-cd)pyrene	EPA 625	7G06114	2.9	19	ND	0.962	07/06/07	07/10/07	
Isophorone	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
2-Methylnaphthalene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
2-Methylphenol	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
4-Methylphenol	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Naphthalene	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
2-Nitroaniline	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
3-Nitroaniline	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
4-Nitroaniline	EPA 625	7G06114	2.4	19	ND	0.962	07/06/07	07/10/07	
Nitrobenzene	EPA 625	7G06114	2.4	19	ND	0.962	07/06/07	07/10/07	
2-Nitrophenol	EPA 625	7G06114	3.4	9.6	ND	0.962	07/06/07	07/10/07	
4-Nitrophenol	EPA 625	7G06114	5.3	19	ND	0.962	07/06/07	07/10/07	
N-Nitrosodiphenylamine	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
N-Nitroso-di-n-propylamine	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
Pentachlorophenol	EPA 625	7G06114	3.4	19	ND	0.962	07/06/07	07/10/07	
Phenanthrene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Phenol	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
Pyrene	EPA 625	7G06114	1.9	9.6	ND	0.962	07/06/07	07/10/07	
1,2,4-Trichlorobenzene	EPA 625	7G06114	2.4	9.6	ND	0.962	07/06/07	07/10/07	
2,4,5-Trichlorophenol	EPA 625	7G06114	2.9	19	ND	0.962	07/06/07	07/10/07	
2,4,6-Trichlorophenol	EPA 625	7G06114	2.9	19	ND	0.962	07/06/07	07/10/07	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	7G06114	1.9	19	ND	0.962	07/06/07	07/10/07	
N-Nitrosodimethylamine	EPA 625	7G06114	2.4	19	ND	0.962	07/06/07	07/10/07	
Surrogate: 2-Fluorophenol (30-120%)					*69 %*				
Surrogate: Phenol-d6 (35-120%)					*70 %*				
Surrogate: 2,4,6-Tribromophenol (40-120%)					*93 %*				
Surrogate: Nitrobenzene-d5 (40-120%)					*72 %*				
Surrogate: 2-Fluorobiphenyl (45-120%)					*82 %*				
Surrogate: Terphenyl-d14 (45-120%)					*95 %*				

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				**H**
Reporting Units: ug/l									
Aldrin	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
alpha-BHC	EPA 608	7G13086	0.020	0.10	ND	1	07/13/07	07/14/07	C
beta-BHC	EPA 608	7G13086	0.040	0.10	ND	1	07/13/07	07/14/07	
delta-BHC	EPA 608	7G13086	0.020	0.20	ND	1	07/13/07	07/14/07	C
gamma-BHC (Lindane)	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Chlordane	EPA 608	7G13086	0.20	1.0	ND	1	07/13/07	07/14/07	
4,4'-DDD	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	C
4,4'-DDE	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
4,4'-DDT	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Dieldrin	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Endosulfan I	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Endosulfan II	EPA 608	7G13086	0.040	0.10	ND	1	07/13/07	07/14/07	
Endosulfan sulfate	EPA 608	7G13086	0.050	0.20	ND	1	07/13/07	07/14/07	L
Endrin	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Endrin aldehyde	EPA 608	7G13086	0.050	0.10	ND	1	07/13/07	07/14/07	
Endrin ketone	EPA 608	7G13086	0.040	0.10	ND	1	07/13/07	07/14/07	
Heptachlor	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Heptachlor epoxide	EPA 608	7G13086	0.030	0.10	ND	1	07/13/07	07/14/07	
Methoxychlor	EPA 608	7G13086	0.040	0.10	ND	1	07/13/07	07/14/07	
Toxaphene	EPA 608	7G13086	1.5	5.0	ND	1	07/13/07	07/14/07	
Surrogate: Tetrachloro-m-xylene (35-115%)					*70 %*				
Surrogate: Decachlorobiphenyl (45-120%)					*87 %*				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				**H**
Reporting Units: ug/l									
Aroclor 1016	EPA 608	7G13086	0.35	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1221	EPA 608	7G13086	0.10	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1232	EPA 608	7G13086	0.25	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1242	EPA 608	7G13086	0.25	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1248	EPA 608	7G13086	0.25	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1254	EPA 608	7G13086	0.25	1.0	ND	1	07/13/07	07/16/07	
Aroclor 1260	EPA 608	7G13086	0.30	1.0	ND	1	07/13/07	07/16/07	
Surrogate: Decachlorobiphenyl (45-120%)					*78 %*				

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.						**Sampled: 07/05/07**			
Reporting Units: mg/l									
Boron	EPA 200.7	7G10114	0.020	0.050	**0.18**	1	07/10/07	07/11/07	
Calcium	EPA 200.7	7G10114	0.050	0.10	**27**	1	07/10/07	07/11/07	B-1
Iron	EPA 200.7	7G10114	0.015	0.040	**0.041**	1	07/10/07	07/11/07	
Magnesium	EPA 200.7	7G10114	0.0080	0.020	**9.8**	1	07/10/07	07/11/07	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Aluminum	EPA 200.7	7G10114	40	50	ND	1	07/10/07	07/11/07	
Antimony	EPA 200.8	7G10082	0.20	2.0	ND	1	07/10/07	07/10/07	
Arsenic	EPA 200.7	7G10114	7.0	10	ND	1	07/10/07	07/11/07	
Beryllium	EPA 200.7	7G10114	0.90	2.0	ND	1	07/10/07	07/11/07	
Cadmium	EPA 200.8	7G10082	0.11	1.0	ND	1	07/10/07	07/10/07	
Chromium	EPA 200.7	7G10114	2.0	5.0	**5.9**	1	07/10/07	07/11/07	
Copper	EPA 200.8	7G10082	0.75	2.0	**1.2**	1	07/10/07	07/10/07	J
Lead	EPA 200.8	7G10082	0.10	1.0	**0.23**	1	07/10/07	07/11/07	J
Nickel	EPA 200.7	7G10114	2.0	10	**2.6**	1	07/10/07	07/11/07	B, J
Selenium	EPA 200.7	7G10114	8.0	10	**8.1**	1	07/10/07	07/11/07	J
Silver	EPA 200.7	7G10114	6.0	10	ND	1	07/10/07	07/11/07	
Thallium	EPA 200.8	7G10082	0.15	1.0	ND	1	07/10/07	07/11/07	
Vanadium	EPA 200.7	7G10114	3.0	10	ND	1	07/10/07	07/11/07	
Zinc	EPA 200.7	7G10114	4.0	20	ND	1	07/10/07	07/11/07	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: mg/l									
Aluminum	EPA 200.7-Diss	7G13103	0.040	0.050	ND	1	07/13/07	07/13/07	
Boron	EPA 200.7-Diss	7G13103	0.020	0.050	**0.19**	1	07/13/07	07/13/07	
Calcium	EPA 200.7-Diss	7G13103	0.050	0.10	**29**	1	07/13/07	07/13/07	MHA
Iron	EPA 200.7-Diss	7G13103	0.015	0.040	ND	1	07/13/07	07/13/07	
Magnesium	EPA 200.7-Diss	7G13103	0.0080	0.020	**11**	1	07/13/07	07/13/07	
Hardness (as CaCO3)	SM2340B	7G13103	1.0	1.0	**120**	1	07/13/07	07/13/07	

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DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7G05130	0.20	2.0	**0.49**	1	07/05/07	07/07/07	J
Arsenic	EPA 200.7-Diss	7G13103	7.0	10	ND	1	07/13/07	07/13/07	
Beryllium	EPA 200.7-Diss	7G13103	0.90	2.0	ND	1	07/13/07	07/13/07	
Cadmium	EPA 200.8-Diss	7G05130	0.11	1.0	ND	1	07/05/07	07/07/07	
Chromium	EPA 200.7-Diss	7G13103	2.0	5.0	ND	1	07/13/07	07/13/07	
Copper	EPA 200.8-Diss	7G05130	0.75	2.0	**0.92**	1	07/05/07	07/07/07	J
Lead	EPA 200.8-Diss	7G05130	0.10	1.0	ND	1	07/05/07	07/07/07	
Nickel	EPA 200.7-Diss	7G13103	2.0	10	ND	1	07/13/07	07/13/07	
Selenium	EPA 200.7-Diss	7G13103	8.0	10	ND	1	07/13/07	07/13/07	
Silver	EPA 200.7-Diss	7G13103	6.0	10	ND	1	07/13/07	07/13/07	
Thallium	EPA 200.8-Diss	7G05130	0.15	1.0	ND	1	07/05/07	07/07/07	
Vanadium	EPA 200.7-Diss	7G13103	3.0	10	ND	1	07/13/07	07/13/07	
Zinc	EPA 200.7-Diss	7G13103	4.0	20	ND	1	07/13/07	07/13/07	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: mg/l									
Chloride	EPA 300.0	7G05123	5.0	10	**58**	20	07/05/07	07/06/07	
Fluoride	EPA 300.0	7G05123	0.15	0.50	**0.36**	1	07/05/07	07/06/07	J
Hardness (as CaCO3)	SM2340B	7G13103	1.0	1.0	**120**	1	07/13/07	07/13/07	
Nitrate/Nitrite-N	EPA 300.0	7G05123	0.15	0.26	**0.76**	1	07/05/07	07/06/07	
Oil & Grease	EPA 413.1	7G16055	1.1	4.8	ND	1	07/16/07	07/16/07	
Sulfate	EPA 300.0	7G05123	4.0	10	**62**	20	07/05/07	07/06/07	
Total Dissolved Solids	SM2540C	7G06061	10	10	**310**	1	07/06/07	07/06/07	
Total Suspended Solids	EPA 160.2	7G09093	10	10	ND	1	07/09/07	07/09/07	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQG0326-01 (Outfall 004 - Water) - cont.					**Sampled: 07/05/07**				
Reporting Units: ug/l									
Total Cyanide	EPA 335.2	7G09106	2.2	5.0	ND	1	07/09/07	07/09/07	
Perchlorate	EPA 314.0	7G11060	0.65	4.0	ND	1	07/11/07	07/11/07	

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SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 004 (IQG0326-01) - Water					
EPA 300.0	2	07/05/2007 10:55	07/05/2007 17:20	07/05/2007 21:30	07/06/2007 09:55
EPA 624	3	07/05/2007 10:55	07/05/2007 17:20	07/06/2007 00:00	07/06/2007 10:26
Sample ID: Trip Blank (IQG0326-02) - Water					
EPA 624	3	07/05/2007 15:00	07/05/2007 17:20	07/06/2007 00:00	07/06/2007 09:03

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Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06007 Extracted: 07/06/07											
Blank Analyzed: 07/06/2007 (7G06007-BLK1)											
Benzene	ND	1.0	0.28	ug/l							
Bromodichloromethane	ND	2.0	0.30	ug/l							
Bromoform	ND	5.0	0.40	ug/l							
Bromomethane	ND	5.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	2.0	0.36	ug/l							
Chloroethane	ND	5.0	0.40	ug/l							
Chloroform	ND	2.0	0.33	ug/l							
Chloromethane	ND	5.0	0.40	ug/l							
Dibromochloromethane	ND	2.0	0.28	ug/l							
1,2-Dichlorobenzene	ND	2.0	0.32	ug/l							
1,3-Dichlorobenzene	ND	2.0	0.35	ug/l							
1,4-Dichlorobenzene	ND	2.0	0.37	ug/l							
1,1-Dichloroethane	ND	2.0	0.27	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	5.0	0.42	ug/l							
trans-1,2-Dichloroethene	ND	2.0	0.27	ug/l							
1,2-Dichloropropane	ND	2.0	0.35	ug/l							
cis-1,3-Dichloropropene	ND	2.0	0.22	ug/l							
trans-1,3-Dichloropropene	ND	2.0	0.32	ug/l							
Ethylbenzene	ND	2.0	0.25	ug/l							
Methylene chloride	ND	5.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/l							
Tetrachloroethene	ND	2.0	0.32	ug/l							
Toluene	ND	2.0	0.36	ug/l							
1,1,1-Trichloroethane	ND	2.0	0.30	ug/l							
1,1,2-Trichloroethane	ND	2.0	0.30	ug/l							
Trichloroethene	ND	2.0	0.26	ug/l							
Trichlorofluoromethane	ND	5.0	0.34	ug/l							
Vinyl chloride	ND	0.50	0.30	ug/l							
Xylenes, Total	ND	4.0	0.90	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	1.5	ug/l							
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06007 Extracted: 07/06/07											
LCS Analyzed: 07/06/2007 (7G06007-BS1)											
Benzene	21.4	1.0	0.28	ug/l	25.0		86	70-120			
Bromodichloromethane	22.1	2.0	0.30	ug/l	25.0		88	70-135			
Bromoform	19.6	5.0	0.40	ug/l	25.0		78	55-130			
Bromomethane	25.6	5.0	0.42	ug/l	25.0		102	65-140			
Carbon tetrachloride	26.3	0.50	0.28	ug/l	25.0		105	65-140			
Chlorobenzene	21.4	2.0	0.36	ug/l	25.0		86	75-120			
Chloroethane	23.8	5.0	0.40	ug/l	25.0		95	60-140			
Chloroform	21.2	2.0	0.33	ug/l	25.0		85	70-130			
Chloromethane	24.4	5.0	0.40	ug/l	25.0		98	50-140			
Dibromochloromethane	19.6	2.0	0.28	ug/l	25.0		78	70-140			
1,2-Dichlorobenzene	22.3	2.0	0.32	ug/l	25.0		89	75-120			
1,3-Dichlorobenzene	22.6	2.0	0.35	ug/l	25.0		91	75-120			
1,4-Dichlorobenzene	20.6	2.0	0.37	ug/l	25.0		83	75-120			
1,1-Dichloroethane	21.2	2.0	0.27	ug/l	25.0		85	70-125			
1,2-Dichloroethane	20.3	0.50	0.28	ug/l	25.0		81	60-140			
1,1-Dichloroethene	20.1	5.0	0.42	ug/l	25.0		80	70-125			
trans-1,2-Dichloroethene	21.4	2.0	0.27	ug/l	25.0		85	70-125			
1,2-Dichloropropane	20.3	2.0	0.35	ug/l	25.0		81	70-125			
cis-1,3-Dichloropropene	20.7	2.0	0.22	ug/l	25.0		83	75-125			
trans-1,3-Dichloropropene	21.4	2.0	0.32	ug/l	25.0		86	70-125			
Ethylbenzene	22.5	2.0	0.25	ug/l	25.0		90	75-125			
Methylene chloride	19.5	5.0	0.95	ug/l	25.0		78	55-130			
1,1,2,2-Tetrachloroethane	18.7	2.0	0.24	ug/l	25.0		75	55-130			
Tetrachloroethene	22.3	2.0	0.32	ug/l	25.0		89	70-125			
Toluene	22.6	2.0	0.36	ug/l	25.0		90	70-120			
1,1,1-Trichloroethane	22.8	2.0	0.30	ug/l	25.0		91	65-135			
1,1,2-Trichloroethane	20.4	2.0	0.30	ug/l	25.0		81	70-125			
Trichloroethene	21.2	2.0	0.26	ug/l	25.0		85	70-125			
Trichlorofluoromethane	24.6	5.0	0.34	ug/l	25.0		99	65-145			
Vinyl chloride	23.7	0.50	0.30	ug/l	25.0		95	55-135			
Surrogate: Dibromofluoromethane	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			

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Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06007 Extracted: 07/06/07											
Matrix Spike Analyzed: 07/06/2007 (7G06007-MS1)						**Source: IQG0326-01**					
Benzene	19.1	1.0	0.28	ug/l	25.0	ND	76	65-125			
Bromodichloromethane	20.9	2.0	0.30	ug/l	25.0	ND	83	70-135			
Bromoform	19.3	5.0	0.40	ug/l	25.0	3.10	65	55-135			
Bromomethane	20.8	5.0	0.42	ug/l	25.0	ND	83	55-145			
Carbon tetrachloride	23.2	0.50	0.28	ug/l	25.0	ND	93	65-140			
Chlorobenzene	19.4	2.0	0.36	ug/l	25.0	ND	77	75-125			
Chloroethane	19.7	5.0	0.40	ug/l	25.0	ND	79	55-140			
Chloroform	19.2	2.0	0.33	ug/l	25.0	ND	77	65-135			
Chloromethane	17.9	5.0	0.40	ug/l	25.0	ND	71	45-145			
Dibromochloromethane	19.1	2.0	0.28	ug/l	25.0	2.75	65	65-140			
1,2-Dichlorobenzene	20.0	2.0	0.32	ug/l	25.0	ND	80	75-125			
1,3-Dichlorobenzene	20.3	2.0	0.35	ug/l	25.0	ND	81	75-125			
1,4-Dichlorobenzene	18.1	2.0	0.37	ug/l	25.0	ND	72	75-125			*M2*
1,1-Dichloroethane	18.2	2.0	0.27	ug/l	25.0	ND	73	65-130			
1,2-Dichloroethane	19.3	0.50	0.28	ug/l	25.0	ND	77	60-140			
1,1-Dichloroethene	17.1	5.0	0.42	ug/l	25.0	ND	68	60-130			
trans-1,2-Dichloroethene	18.8	2.0	0.27	ug/l	25.0	ND	75	65-130			
1,2-Dichloropropane	18.8	2.0	0.35	ug/l	25.0	ND	75	65-130			
cis-1,3-Dichloropropene	19.0	2.0	0.22	ug/l	25.0	ND	76	70-130			
trans-1,3-Dichloropropene	20.3	2.0	0.32	ug/l	25.0	ND	81	65-135			
Ethylbenzene	19.8	2.0	0.25	ug/l	25.0	ND	79	65-130			
Methylene chloride	17.3	5.0	0.95	ug/l	25.0	ND	69	50-135			
1,1,2,2-Tetrachloroethane	18.2	2.0	0.24	ug/l	25.0	ND	73	55-135			
Tetrachloroethene	19.6	2.0	0.32	ug/l	25.0	ND	78	65-130			
Toluene	20.3	2.0	0.36	ug/l	25.0	ND	81	70-125			
1,1,1-Trichloroethane	19.1	2.0	0.30	ug/l	25.0	ND	77	65-140			
1,1,2-Trichloroethane	19.4	2.0	0.30	ug/l	25.0	ND	78	65-130			
Trichloroethene	19.3	2.0	0.26	ug/l	25.0	ND	77	65-125			
Trichlorofluoromethane	20.6	5.0	0.34	ug/l	25.0	ND	82	60-145			
Vinyl chloride	17.6	0.50	0.30	ug/l	25.0	ND	70	45-140			
Surrogate: Dibromofluoromethane	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06007 Extracted: 07/06/07											
Matrix Spike Dup Analyzed: 07/06/2007 (7G06007-MSD1)						**Source: IQG0326-01**					
Benzene	20.9	1.0	0.28	ug/l	25.0	ND	83	65-125	9	20	
Bromodichloromethane	21.9	2.0	0.30	ug/l	25.0	ND	88	70-135	5	20	
Bromoform	20.4	5.0	0.40	ug/l	25.0	3.10	69	55-135	6	25	
Bromomethane	22.7	5.0	0.42	ug/l	25.0	ND	91	55-145	8	25	
Carbon tetrachloride	24.8	0.50	0.28	ug/l	25.0	ND	99	65-140	7	25	
Chlorobenzene	20.9	2.0	0.36	ug/l	25.0	ND	84	75-125	8	20	
Chloroethane	21.3	5.0	0.40	ug/l	25.0	ND	85	55-140	8	25	
Chloroform	20.4	2.0	0.33	ug/l	25.0	ND	82	65-135	6	20	
Chloromethane	19.3	5.0	0.40	ug/l	25.0	ND	77	45-145	8	25	
Dibromochloromethane	20.3	2.0	0.28	ug/l	25.0	2.75	70	65-140	6	25	
1,2-Dichlorobenzene	22.2	2.0	0.32	ug/l	25.0	ND	89	75-125	11	20	
1,3-Dichlorobenzene	22.3	2.0	0.35	ug/l	25.0	ND	89	75-125	9	20	
1,4-Dichlorobenzene	19.5	2.0	0.37	ug/l	25.0	ND	78	75-125	7	20	
1,1-Dichloroethane	19.7	2.0	0.27	ug/l	25.0	ND	79	65-130	8	20	
1,2-Dichloroethane	20.4	0.50	0.28	ug/l	25.0	ND	81	60-140	6	20	
1,1-Dichloroethene	18.8	5.0	0.42	ug/l	25.0	ND	75	60-130	9	20	
trans-1,2-Dichloroethene	20.4	2.0	0.27	ug/l	25.0	ND	82	65-130	8	20	
1,2-Dichloropropane	20.6	2.0	0.35	ug/l	25.0	ND	82	65-130	9	20	
cis-1,3-Dichloropropene	20.4	2.0	0.22	ug/l	25.0	ND	82	70-130	7	20	
trans-1,3-Dichloropropene	21.7	2.0	0.32	ug/l	25.0	ND	87	65-135	7	25	
Ethylbenzene	21.3	2.0	0.25	ug/l	25.0	ND	85	65-130	7	20	
Methylene chloride	18.9	5.0	0.95	ug/l	25.0	ND	76	50-135	9	20	
1,1,2,2-Tetrachloroethane	19.2	2.0	0.24	ug/l	25.0	ND	77	55-135	5	30	
Tetrachloroethene	21.5	2.0	0.32	ug/l	25.0	ND	86	65-130	9	20	
Toluene	21.7	2.0	0.36	ug/l	25.0	ND	87	70-125	7	20	
1,1,1-Trichloroethane	21.4	2.0	0.30	ug/l	25.0	ND	86	65-140	11	20	
1,1,2-Trichloroethane	20.7	2.0	0.30	ug/l	25.0	ND	83	65-130	7	25	
Trichloroethene	20.4	2.0	0.26	ug/l	25.0	ND	82	65-125	5	20	
Trichlorofluoromethane	21.5	5.0	0.34	ug/l	25.0	ND	86	60-145	4	25	
Vinyl chloride	19.6	0.50	0.30	ug/l	25.0	ND	78	45-140	11	30	
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			

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Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06007 Extracted: 07/06/07											
Blank Analyzed: 07/06/2007 (7G06007-BLK1)											
Acrolein	ND	50	4.0	ug/l							
Acrylonitrile	ND	50	0.70	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: Dibromofluoromethane	*23.0*			*ug/l*	*25.0*		*92*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.3*			*ug/l*	*25.0*		*93*	*80-120*			
LCS Analyzed: 07/06/2007 (7G06007-BS1)											
2-Chloroethyl vinyl ether	18.0	5.0	1.8	ug/l	25.0		72	25-170			
Surrogate: Dibromofluoromethane	*23.5*			*ug/l*	*25.0*		*94*	*80-120*			
Surrogate: Toluene-d8	*24.1*			*ug/l*	*25.0*		*96*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.6*			*ug/l*	*25.0*		*94*	*80-120*			
Matrix Spike Analyzed: 07/06/2007 (7G06007-MS1)						**Source: IQG0326-01**					
2-Chloroethyl vinyl ether	18.7	5.0	1.8	ug/l	25.0	ND	75	25-170			
Surrogate: Dibromofluoromethane	*24.4*			*ug/l*	*25.0*		*97*	*80-120*			
Surrogate: Toluene-d8	*24.7*			*ug/l*	*25.0*		*99*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.8*			*ug/l*	*25.0*		*95*	*80-120*			
Matrix Spike Dup Analyzed: 07/06/2007 (7G06007-MSD1)						**Source: IQG0326-01**					
2-Chloroethyl vinyl ether	19.2	5.0	1.8	ug/l	25.0	ND	77	25-170	3	25	
Surrogate: Dibromofluoromethane	*25.0*			*ug/l*	*25.0*		*100*	*80-120*			
Surrogate: Toluene-d8	*24.5*			*ug/l*	*25.0*		*98*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*23.4*			*ug/l*	*25.0*		*94*	*80-120*			

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Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
Blank Analyzed: 07/10/2007 (7G06114-BLK1)											
Acenaphthene	ND	10	2.0	ug/l							
Acenaphthylene	ND	10	2.0	ug/l							
Aniline	ND	10	2.5	ug/l							
Anthracene	ND	10	2.0	ug/l							
Benzidine	ND	20	8.5	ug/l							
Benzoic acid	ND	20	8.5	ug/l							
Benzo(a)anthracene	ND	10	2.0	ug/l							
Benzo(b)fluoranthene	ND	10	2.0	ug/l							
Benzo(k)fluoranthene	ND	10	2.0	ug/l							
Benzo(g,h,i)perylene	ND	10	3.0	ug/l							
Benzo(a)pyrene	ND	10	2.0	ug/l							
Benzyl alcohol	ND	20	2.5	ug/l							
Bis(2-chloroethoxy)methane	ND	10	2.0	ug/l							
Bis(2-chloroethyl)ether	ND	10	2.5	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	2.5	ug/l							
Bis(2-ethylhexyl)phthalate	ND	50	4.0	ug/l							
4-Bromophenyl phenyl ether	ND	10	2.5	ug/l							
Butyl benzyl phthalate	ND	20	4.0	ug/l							
4-Chloroaniline	ND	10	2.0	ug/l							
2-Chloronaphthalene	ND	10	2.0	ug/l							
4-Chloro-3-methylphenol	ND	20	2.0	ug/l							
2-Chlorophenol	ND	10	2.0	ug/l							
4-Chlorophenyl phenyl ether	ND	10	2.0	ug/l							
Chrysene	ND	10	2.0	ug/l							
Dibenz(a,h)anthracene	ND	20	3.0	ug/l							
Dibenzofuran	ND	10	2.0	ug/l							
Di-n-butyl phthalate	ND	20	2.0	ug/l							
1,3-Dichlorobenzene	ND	10	3.0	ug/l							
1,4-Dichlorobenzene	ND	10	2.5	ug/l							
1,2-Dichlorobenzene	ND	10	3.0	ug/l							
3,3-Dichlorobenzidine	ND	20	3.0	ug/l							
2,4-Dichlorophenol	ND	10	2.0	ug/l							
Diethyl phthalate	ND	10	2.0	ug/l							
2,4-Dimethylphenol	ND	20	3.5	ug/l							
Dimethyl phthalate	ND	10	2.0	ug/l							

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Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
Blank Analyzed: 07/10/2007 (7G06114-BLK1)											
4,6-Dinitro-2-methylphenol	ND	20	4.0	ug/l							
2,4-Dinitrophenol	ND	20	4.5	ug/l							
2,4-Dinitrotoluene	ND	10	2.0	ug/l							
2,6-Dinitrotoluene	ND	10	2.0	ug/l							
Di-n-octyl phthalate	ND	20	2.0	ug/l							
Fluoranthene	ND	10	2.0	ug/l							
Fluorene	ND	10	2.0	ug/l							
Hexachlorobenzene	ND	10	2.5	ug/l							
Hexachlorobutadiene	ND	10	3.5	ug/l							
Hexachlorocyclopentadiene	ND	20	5.0	ug/l							
Hexachloroethane	ND	10	3.0	ug/l							
Indeno(1,2,3-cd)pyrene	ND	20	3.0	ug/l							
Isophorone	ND	10	2.0	ug/l							
2-Methylnaphthalene	ND	10	2.0	ug/l							
2-Methylphenol	ND	10	2.0	ug/l							
4-Methylphenol	ND	10	2.0	ug/l							
Naphthalene	ND	10	2.5	ug/l							
2-Nitroaniline	ND	20	2.0	ug/l							
3-Nitroaniline	ND	20	2.0	ug/l							
4-Nitroaniline	ND	20	2.5	ug/l							
Nitrobenzene	ND	20	2.5	ug/l							
2-Nitrophenol	ND	10	3.5	ug/l							
4-Nitrophenol	ND	20	5.5	ug/l							
N-Nitrosodiphenylamine	ND	10	2.0	ug/l							
N-Nitroso-di-n-propylamine	ND	10	2.5	ug/l							
Pentachlorophenol	ND	20	3.5	ug/l							
Phenanthrene	ND	10	2.0	ug/l							
Phenol	ND	10	2.0	ug/l							
Pyrene	ND	10	2.0	ug/l							
1,2,4-Trichlorobenzene	ND	10	2.5	ug/l							
2,4,5-Trichlorophenol	ND	20	3.0	ug/l							
2,4,6-Trichlorophenol	ND	20	3.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	20	2.0	ug/l							
N-Nitrosodimethylamine	ND	20	2.5	ug/l							
Surrogate: 2-Fluorophenol	*135*			*ug/l*	*200*		*68*	*30-120*			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
Blank Analyzed: 07/10/2007 (7G06114-BLK1)											
Surrogate: Phenol-d6	*146*			*ug/l*	*200*		*73*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*183*			*ug/l*	*200*		*92*	*40-120*			
Surrogate: Nitrobenzene-d5	*83.6*			*ug/l*	*100*		*84*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*85.8*			*ug/l*	*100*		*86*	*45-120*			
Surrogate: Terphenyl-d14	*93.7*			*ug/l*	*100*		*94*	*45-120*			
LCS Analyzed: 07/10/2007 (7G06114-BS1)											**MNR1**
Acenaphthene	90.5	10	2.0	ug/l	100		91	55-120			
Acenaphthylene	95.1	10	2.0	ug/l	100		95	60-120			
Aniline	83.2	10	2.5	ug/l	100		83	40-120			
Anthracene	93.4	10	2.0	ug/l	100		93	60-120			
Benzidine	81.2	20	8.5	ug/l	100		81	25-160			
Benzoic acid	84.1	20	8.5	ug/l	100		84	25-120			
Benzo(a)anthracene	92.0	10	2.0	ug/l	100		92	60-120			
Benzo(b)fluoranthene	81.7	10	2.0	ug/l	100		82	55-125			
Benzo(k)fluoranthene	88.0	10	2.0	ug/l	100		88	50-125			
Benzo(g,h,i)perylene	99.0	10	3.0	ug/l	100		99	45-130			
Benzo(a)pyrene	92.5	10	2.0	ug/l	100		92	55-125			
Benzyl alcohol	90.5	20	2.5	ug/l	100		90	50-120			
Bis(2-chloroethoxy)methane	102	10	2.0	ug/l	100		102	55-120			
Bis(2-chloroethyl)ether	88.5	10	2.5	ug/l	100		88	50-120			
Bis(2-chloroisopropyl)ether	90.2	10	2.5	ug/l	100		90	45-120			
Bis(2-ethylhexyl)phthalate	86.1	50	4.0	ug/l	100		86	60-125			
4-Bromophenyl phenyl ether	104	10	2.5	ug/l	100		104	55-120			
Butyl benzyl phthalate	89.2	20	4.0	ug/l	100		89	50-125			
4-Chloroaniline	94.3	10	2.0	ug/l	100		94	50-120			
2-Chloronaphthalene	90.1	10	2.0	ug/l	100		90	55-120			
4-Chloro-3-methylphenol	99.4	20	2.0	ug/l	100		99	55-120			
2-Chlorophenol	80.9	10	2.0	ug/l	100		81	45-120			
4-Chlorophenyl phenyl ether	101	10	2.0	ug/l	100		101	60-120			
Chrysene	93.2	10	2.0	ug/l	100		93	60-120			
Dibenz(a,h)anthracene	99.9	20	3.0	ug/l	100		100	50-135			
Dibenzofuran	95.1	10	2.0	ug/l	100		95	60-120			
Di-n-butyl phthalate	93.3	20	2.0	ug/l	100		93	55-125			
1,3-Dichlorobenzene	80.4	10	3.0	ug/l	100		80	35-120			
1,4-Dichlorobenzene	80.9	10	2.5	ug/l	100		81	35-120			

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Report Number: IQG0326

Sampled: 07/05/07
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
LCS Analyzed: 07/10/2007 (7G06114-BS1)											**MNR1**
1,2-Dichlorobenzene	84.2	10	3.0	ug/l	100		84	40-120			
3,3-Dichlorobenzidine	76.3	20	3.0	ug/l	100		76	50-135			
2,4-Dichlorophenol	97.9	10	2.0	ug/l	100		98	50-120			
Diethyl phthalate	98.2	10	2.0	ug/l	100		98	50-120			
2,4-Dimethylphenol	94.6	20	3.5	ug/l	100		95	35-120			
Dimethyl phthalate	95.8	10	2.0	ug/l	100		96	25-120			
4,6-Dinitro-2-methylphenol	102	20	4.0	ug/l	100		102	40-120			
2,4-Dinitrophenol	95.1	20	4.5	ug/l	100		95	35-120			
2,4-Dinitrotoluene	100	10	2.0	ug/l	100		100	60-120			
2,6-Dinitrotoluene	99.1	10	2.0	ug/l	100		99	60-120			
Di-n-octyl phthalate	105	20	2.0	ug/l	100		105	60-130			
Fluoranthene	95.4	10	2.0	ug/l	100		95	55-120			
Fluorene	96.0	10	2.0	ug/l	100		96	60-120			
Hexachlorobenzene	101	10	2.5	ug/l	100		101	55-120			
Hexachlorobutadiene	96.9	10	3.5	ug/l	100		97	40-120			
Hexachlorocyclopentadiene	113	20	5.0	ug/l	100		113	20-120			
Hexachloroethane	80.7	10	3.0	ug/l	100		81	35-120			
Indeno(1,2,3-cd)pyrene	77.7	20	3.0	ug/l	100		78	45-135			
Isophorone	102	10	2.0	ug/l	100		102	50-120			
2-Methylnaphthalene	89.2	10	2.0	ug/l	100		89	50-120			
2-Methylphenol	87.1	10	2.0	ug/l	100		87	50-120			
4-Methylphenol	89.0	10	2.0	ug/l	100		89	45-120			
Naphthalene	90.0	10	2.5	ug/l	100		90	50-120			
2-Nitroaniline	97.7	20	2.0	ug/l	100		98	60-120			
3-Nitroaniline	94.4	20	2.0	ug/l	100		94	55-120			
4-Nitroaniline	101	20	2.5	ug/l	100		101	50-125			
Nitrobenzene	93.9	20	2.5	ug/l	100		94	50-120			
2-Nitrophenol	94.0	10	3.5	ug/l	100		94	45-120			
4-Nitrophenol	93.3	20	5.5	ug/l	100		93	40-120			
N-Nitrosodiphenylamine	94.4	10	2.0	ug/l	100		94	55-120			
N-Nitroso-di-n-propylamine	95.1	10	2.5	ug/l	100		95	45-120			
Pentachlorophenol	103	20	3.5	ug/l	100		103	45-125			
Phenanthrene	95.1	10	2.0	ug/l	100		95	60-120			
Phenol	79.7	10	2.0	ug/l	100		80	45-120			
Pyrene	89.9	10	2.0	ug/l	100		90	50-125			

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Received: 07/05/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
LCS Analyzed: 07/10/2007 (7G06114-BS1)											**MNR1**
1,2,4-Trichlorobenzene	94.1	10	2.5	ug/l	100		94	45-120			
2,4,5-Trichlorophenol	101	20	3.0	ug/l	100		101	50-120			
2,4,6-Trichlorophenol	97.4	20	3.0	ug/l	100		97	50-120			
1,2-Diphenylhydrazine/Azobenzene	101	20	2.0	ug/l	100		101	55-120			
N-Nitrosodimethylamine	78.7	20	2.5	ug/l	100		79	40-120			
Surrogate: 2-Fluorophenol	*139*			*ug/l*	*200*		*69*	*30-120*			
Surrogate: Phenol-d6	*156*			*ug/l*	*200*		*78*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*207*			*ug/l*	*200*		*104*	*40-120*			
Surrogate: Nitrobenzene-d5	*90.7*			*ug/l*	*100*		*91*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*91.4*			*ug/l*	*100*		*91*	*45-120*			
Surrogate: Terphenyl-d14	*82.2*			*ug/l*	*100*		*82*	*45-120*			
LCS Dup Analyzed: 07/10/2007 (7G06114-BSD1)											
Acenaphthene	90.3	10	2.0	ug/l	100		90	55-120	0	20	
Acenaphthylene	92.0	10	2.0	ug/l	100		92	60-120	3	20	
Aniline	76.7	10	2.5	ug/l	100		77	40-120	8	30	
Anthracene	95.4	10	2.0	ug/l	100		95	60-120	2	20	
Benzidine	ND	20	8.5	ug/l	100			25-160		35	*L6*
Benzoic acid	78.4	20	8.5	ug/l	100		78	25-120	7	30	
Benzo(a)anthracene	88.4	10	2.0	ug/l	100		88	60-120	4	20	
Benzo(b)fluoranthene	87.7	10	2.0	ug/l	100		88	55-125	7	25	
Benzo(k)fluoranthene	90.1	10	2.0	ug/l	100		90	50-125	2	20	
Benzo(g,h,i)perylene	86.5	10	3.0	ug/l	100		86	45-130	13	25	
Benzo(a)pyrene	91.2	10	2.0	ug/l	100		91	55-125	1	25	
Benzyl alcohol	81.9	20	2.5	ug/l	100		82	50-120	10	20	
Bis(2-chloroethoxy)methane	91.9	10	2.0	ug/l	100		92	55-120	11	20	
Bis(2-chloroethyl)ether	81.1	10	2.5	ug/l	100		81	50-120	9	20	
Bis(2-chloroisopropyl)ether	77.0	10	2.5	ug/l	100		77	45-120	16	20	
Bis(2-ethylhexyl)phthalate	85.4	50	4.0	ug/l	100		85	60-125	1	20	
4-Bromophenyl phenyl ether	97.1	10	2.5	ug/l	100		97	55-120	7	25	
Butyl benzyl phthalate	97.3	20	4.0	ug/l	100		97	50-125	9	20	
4-Chloroaniline	80.7	10	2.0	ug/l	100		81	50-120	16	25	
2-Chloronaphthalene	84.8	10	2.0	ug/l	100		85	55-120	6	20	
4-Chloro-3-methylphenol	93.2	20	2.0	ug/l	100		93	55-120	6	25	
2-Chlorophenol	74.7	10	2.0	ug/l	100		75	45-120	8	25	
4-Chlorophenyl phenyl ether	94.4	10	2.0	ug/l	100		94	60-120	7	20	

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Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
LCS Dup Analyzed: 07/10/2007 (7G06114-BSD1)											
Chrysene	101	10	2.0	ug/l	100		101	60-120	8	20	
Dibenz(a,h)anthracene	95.2	20	3.0	ug/l	100		95	50-135	5	25	
Dibenzofuran	84.8	10	2.0	ug/l	100		85	60-120	11	20	
Di-n-butyl phthalate	94.0	20	2.0	ug/l	100		94	55-125	1	20	
1,3-Dichlorobenzene	66.8	10	3.0	ug/l	100		67	35-120	18	25	
1,4-Dichlorobenzene	67.7	10	2.5	ug/l	100		68	35-120	18	25	
1,2-Dichlorobenzene	69.5	10	3.0	ug/l	100		69	40-120	19	25	
3,3-Dichlorobenzidine	67.2	20	3.0	ug/l	100		67	50-135	13	25	
2,4-Dichlorophenol	85.7	10	2.0	ug/l	100		86	50-120	13	20	
Diethyl phthalate	96.7	10	2.0	ug/l	100		97	50-120	1	30	
2,4-Dimethylphenol	83.8	20	3.5	ug/l	100		84	35-120	12	25	
Dimethyl phthalate	94.8	10	2.0	ug/l	100		95	25-120	1	30	
4,6-Dinitro-2-methylphenol	101	20	4.0	ug/l	100		101	40-120	1	25	
2,4-Dinitrophenol	97.2	20	4.5	ug/l	100		97	35-120	2	25	
2,4-Dinitrotoluene	101	10	2.0	ug/l	100		101	60-120	1	20	
2,6-Dinitrotoluene	95.7	10	2.0	ug/l	100		96	60-120	3	20	
Di-n-octyl phthalate	105	20	2.0	ug/l	100		105	60-130	0	20	
Fluoranthene	97.6	10	2.0	ug/l	100		98	55-120	2	20	
Fluorene	94.7	10	2.0	ug/l	100		95	60-120	1	20	
Hexachlorobenzene	102	10	2.5	ug/l	100		102	55-120	2	20	
Hexachlorobutadiene	75.0	10	3.5	ug/l	100		75	40-120	26	25	*R-7*
Hexachlorocyclopentadiene	82.7	20	5.0	ug/l	100		83	20-120	31	30	*R-7*
Hexachloroethane	67.4	10	3.0	ug/l	100		67	35-120	18	25	
Indeno(1,2,3-cd)pyrene	79.3	20	3.0	ug/l	100		79	45-135	2	25	
Isophorone	93.5	10	2.0	ug/l	100		94	50-120	9	20	
2-Methylnaphthalene	81.0	10	2.0	ug/l	100		81	50-120	10	20	
2-Methylphenol	81.9	10	2.0	ug/l	100		82	50-120	6	20	
4-Methylphenol	86.4	10	2.0	ug/l	100		86	45-120	3	20	
Naphthalene	80.9	10	2.5	ug/l	100		81	50-120	11	20	
2-Nitroaniline	94.5	20	2.0	ug/l	100		95	60-120	3	20	
3-Nitroaniline	90.9	20	2.0	ug/l	100		91	55-120	4	25	
4-Nitroaniline	94.1	20	2.5	ug/l	100		94	50-125	7	20	
Nitrobenzene	82.9	20	2.5	ug/l	100		83	50-120	12	25	
2-Nitrophenol	83.2	10	3.5	ug/l	100		83	45-120	12	25	
4-Nitrophenol	97.6	20	5.5	ug/l	100		98	40-120	5	30	

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06114 Extracted: 07/06/07											
LCS Dup Analyzed: 07/10/2007 (7G06114-BSD1)											
N-Nitrosodiphenylamine	86.8	10	2.0	ug/l	100		87	55-120	8	20	
N-Nitroso-di-n-propylamine	86.3	10	2.5	ug/l	100		86	45-120	10	20	
Pentachlorophenol	109	20	3.5	ug/l	100		109	45-125	6	25	
Phenanthrene	88.7	10	2.0	ug/l	100		89	60-120	7	20	
Phenol	76.0	10	2.0	ug/l	100		76	45-120	5	25	
Pyrene	88.9	10	2.0	ug/l	100		89	50-125	1	25	
1,2,4-Trichlorobenzene	80.5	10	2.5	ug/l	100		81	45-120	16	20	
2,4,5-Trichlorophenol	88.2	20	3.0	ug/l	100		88	50-120	14	30	
2,4,6-Trichlorophenol	92.6	20	3.0	ug/l	100		93	50-120	5	30	
1,2-Diphenylhydrazine/Azobenzene	95.0	20	2.0	ug/l	100		95	55-120	6	25	
N-Nitrosodimethylamine	81.5	20	2.5	ug/l	100		82	40-120	4	20	
Surrogate: 2-Fluorophenol	*141*			*ug/l*	*200*		*70*	*30-120*			
Surrogate: Phenol-d6	*151*			*ug/l*	*200*		*76*	*35-120*			
Surrogate: 2,4,6-Tribromophenol	*201*			*ug/l*	*200*		*101*	*40-120*			
Surrogate: Nitrobenzene-d5	*81.9*			*ug/l*	*100*		*82*	*40-120*			
Surrogate: 2-Fluorobiphenyl	*81.1*			*ug/l*	*100*		*81*	*45-120*			
Surrogate: Terphenyl-d14	*87.6*			*ug/l*	*100*		*88*	*45-120*			

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G13086 Extracted: 07/13/07											
Blank Analyzed: 07/14/2007 (7G13086-BLK1)											
Aldrin	ND	0.10	0.030	ug/l							
alpha-BHC	ND	0.10	0.020	ug/l							
beta-BHC	ND	0.10	0.040	ug/l							
delta-BHC	ND	0.20	0.020	ug/l							
gamma-BHC (Lindane)	ND	0.10	0.030	ug/l							
Chlordane	ND	1.0	0.20	ug/l							
4,4'-DDD	ND	0.10	0.030	ug/l							
4,4'-DDE	ND	0.10	0.030	ug/l							
4,4'-DDT	ND	0.10	0.030	ug/l							
Dieldrin	ND	0.10	0.030	ug/l							
Endosulfan I	ND	0.10	0.030	ug/l							
Endosulfan II	ND	0.10	0.040	ug/l							
Endosulfan sulfate	ND	0.20	0.050	ug/l							
Endrin	ND	0.10	0.030	ug/l							
Endrin aldehyde	ND	0.10	0.050	ug/l							
Endrin ketone	ND	0.10	0.040	ug/l							
Heptachlor	ND	0.10	0.030	ug/l							
Heptachlor epoxide	ND	0.10	0.030	ug/l							
Methoxychlor	ND	0.10	0.040	ug/l							
Toxaphene	ND	5.0	1.5	ug/l							
Surrogate: Tetrachloro-m-xylene	*0.401*			*ug/l*	*0.500*		*80*	*35-115*			
Surrogate: Decachlorobiphenyl	*0.477*			*ug/l*	*0.500*		*95*	*45-120*			
LCS Analyzed: 07/14/2007 (7G13086-BS1)											**MNR1**
Aldrin	0.405	0.10	0.030	ug/l	0.500		81	40-115			
alpha-BHC	0.439	0.10	0.020	ug/l	0.500		88	45-115			
beta-BHC	0.464	0.10	0.040	ug/l	0.500		93	55-115			
delta-BHC	0.485	0.20	0.020	ug/l	0.500		97	55-115			
gamma-BHC (Lindane)	0.441	0.10	0.030	ug/l	0.500		88	45-115			
4,4'-DDD	0.506	0.10	0.030	ug/l	0.500		101	55-120			
4,4'-DDE	0.478	0.10	0.030	ug/l	0.500		96	50-120			
4,4'-DDT	0.522	0.10	0.030	ug/l	0.500		104	55-120			
Dieldrin	0.469	0.10	0.030	ug/l	0.500		94	55-115			
Endosulfan I	0.452	0.10	0.030	ug/l	0.500		90	55-115			
Endosulfan II	0.463	0.10	0.040	ug/l	0.500		93	55-120			
Endosulfan sulfate	0.605	0.20	0.050	ug/l	0.500		121	60-120			*L*

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G13086 Extracted: 07/13/07											
LCS Analyzed: 07/14/2007 (7G13086-BS1)											**MNR1**
Endrin	0.482	0.10	0.030	ug/l	0.500		96	55-115			
Endrin aldehyde	0.458	0.10	0.050	ug/l	0.500		92	50-120			
Endrin ketone	0.490	0.10	0.040	ug/l	0.500		98	55-120			
Heptachlor	0.428	0.10	0.030	ug/l	0.500		86	45-115			
Heptachlor epoxide	0.435	0.10	0.030	ug/l	0.500		87	55-115			
Methoxychlor	0.495	0.10	0.040	ug/l	0.500		99	60-120			
Surrogate: Tetrachloro-m-xylene	*0.357*			*ug/l*	*0.500*		*71*	*35-115*			
Surrogate: Decachlorobiphenyl	*0.477*			*ug/l*	*0.500*		*95*	*45-120*			
LCS Dup Analyzed: 07/14/2007 (7G13086-BSD1)											
Aldrin	0.446	0.10	0.030	ug/l	0.500		89	40-115	10	30	
alpha-BHC	0.464	0.10	0.020	ug/l	0.500		93	45-115	6	30	
beta-BHC	0.473	0.10	0.040	ug/l	0.500		95	55-115	2	30	
delta-BHC	0.500	0.20	0.020	ug/l	0.500		100	55-115	3	30	
gamma-BHC (Lindane)	0.461	0.10	0.030	ug/l	0.500		92	45-115	4	30	
4,4'-DDD	0.497	0.10	0.030	ug/l	0.500		99	55-120	2	30	
4,4'-DDE	0.467	0.10	0.030	ug/l	0.500		93	50-120	2	30	
4,4'-DDT	0.519	0.10	0.030	ug/l	0.500		104	55-120	1	30	
Dieldrin	0.473	0.10	0.030	ug/l	0.500		95	55-115	1	30	
Endosulfan I	0.460	0.10	0.030	ug/l	0.500		92	55-115	2	30	
Endosulfan II	0.477	0.10	0.040	ug/l	0.500		95	55-120	3	30	
Endosulfan sulfate	0.489	0.20	0.050	ug/l	0.500		98	60-120	21	30	
Endrin	0.493	0.10	0.030	ug/l	0.500		99	55-115	2	30	
Endrin aldehyde	0.464	0.10	0.050	ug/l	0.500		93	50-120	1	30	
Endrin ketone	0.491	0.10	0.040	ug/l	0.500		98	55-120	0	30	
Heptachlor	0.454	0.10	0.030	ug/l	0.500		91	45-115	6	30	
Heptachlor epoxide	0.444	0.10	0.030	ug/l	0.500		89	55-115	2	30	
Methoxychlor	0.495	0.10	0.040	ug/l	0.500		99	60-120	0	30	
Surrogate: Tetrachloro-m-xylene	*0.384*			*ug/l*	*0.500*		*77*	*35-115*			
Surrogate: Decachlorobiphenyl	*0.475*			*ug/l*	*0.500*		*95*	*45-120*			

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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G13086 Extracted: 07/13/07											
Blank Analyzed: 07/16/2007 (7G13086-BLK1)											
Aroclor 1016	ND	1.0	0.35	ug/l							
Aroclor 1221	ND	1.0	0.10	ug/l							
Aroclor 1232	ND	1.0	0.25	ug/l							
Aroclor 1242	ND	1.0	0.25	ug/l							
Aroclor 1248	ND	1.0	0.25	ug/l							
Aroclor 1254	ND	1.0	0.25	ug/l							
Aroclor 1260	ND	1.0	0.30	ug/l							
Surrogate: Decachlorobiphenyl	*0.453*			*ug/l*	*0.500*		*91*	*45-120*			
LCS Analyzed: 07/16/2007 (7G13086-BS2)											**MNR1**
Aroclor 1016	3.54	1.0	0.35	ug/l	4.00		88	50-115			
Aroclor 1260	4.11	1.0	0.30	ug/l	4.00		103	60-120			
Surrogate: Decachlorobiphenyl	*0.427*			*ug/l*	*0.500*		*85*	*45-120*			
LCS Dup Analyzed: 07/16/2007 (7G13086-BSD2)											
Aroclor 1016	3.50	1.0	0.35	ug/l	4.00		88	50-115	1	30	
Aroclor 1260	4.31	1.0	0.30	ug/l	4.00		108	60-120	5	25	
Surrogate: Decachlorobiphenyl	*0.443*			*ug/l*	*0.500*		*89*	*45-120*			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G10082 Extracted: 07/10/07											
Blank Analyzed: 07/10/2007-07/11/2007 (7G10082-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	0.169	1.0	0.15	ug/l							*J*
LCS Analyzed: 07/10/2007-07/11/2007 (7G10082-BS1)											
Antimony	78.0	2.0	0.20	ug/l	80.0		98	85-115			
Cadmium	77.4	1.0	0.11	ug/l	80.0		97	85-115			
Copper	79.9	2.0	0.75	ug/l	80.0		100	85-115			
Lead	79.5	1.0	0.10	ug/l	80.0		99	85-115			
Thallium	79.5	1.0	0.15	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 07/10/2007-07/11/2007 (7G10082-MS1)						**Source: IQF2756-02**					
Antimony	77.7	2.0	0.20	ug/l	80.0	ND	97	70-130			
Cadmium	77.3	1.0	0.11	ug/l	80.0	ND	97	70-130			
Copper	82.1	2.0	0.75	ug/l	80.0	ND	103	70-130			
Lead	81.9	1.0	0.10	ug/l	80.0	ND	102	70-130			
Thallium	81.4	1.0	0.15	ug/l	80.0	0.206	101	70-130			
Matrix Spike Dup Analyzed: 07/10/2007-07/11/2007 (7G10082-MSD1)						**Source: IQF2756-02**					
Antimony	78.4	2.0	0.20	ug/l	80.0	ND	98	70-130	1	20	
Cadmium	77.5	1.0	0.11	ug/l	80.0	ND	97	70-130	0	20	
Copper	82.5	2.0	0.75	ug/l	80.0	ND	103	70-130	1	20	
Lead	82.3	1.0	0.10	ug/l	80.0	ND	103	70-130	1	20	
Thallium	81.4	1.0	0.15	ug/l	80.0	0.206	102	70-130	0	20	

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G10114 Extracted: 07/10/07											
Blank Analyzed: 07/10/2007 (7G10114-BLK1)											
Aluminum	46.3	50	40	ug/l							*J*
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	0.177	0.10	0.050	mg/l							*B-1*
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	2.01	10	2.0	ug/l							*J*
Selenium	ND	10	8.0	ug/l							
Silver	ND	10	6.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	4.0	ug/l							
LCS Analyzed: 07/10/2007 (7G10114-BS1)											
Aluminum	512	50	40	ug/l	500		102	85-115			
Arsenic	487	10	7.0	ug/l	500		97	85-115			
Beryllium	503	2.0	0.90	ug/l	500		101	85-115			
Boron	0.486	0.050	0.020	mg/l	0.500		97	85-115			
Calcium	2.70	0.10	0.050	mg/l	2.50		108	85-115			
Chromium	486	5.0	2.0	ug/l	500		97	85-115			
Iron	0.514	0.040	0.015	mg/l	0.500		103	85-115			
Magnesium	2.50	0.020	0.0080	mg/l	2.50		100	85-115			
Nickel	499	10	2.0	ug/l	500		100	85-115			
Selenium	485	10	8.0	ug/l	500		97	85-115			
Silver	251	10	6.0	ug/l	250		100	85-115			
Vanadium	503	10	3.0	ug/l	500		101	85-115			
Zinc	472	20	4.0	ug/l	500		94	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G10114 Extracted: 07/10/07											
Matrix Spike Analyzed: 07/10/2007 (7G10114-MS1)						**Source: IQG0478-01**					
Aluminum	811	50	40	ug/l	500	185	125	70-130			
Arsenic	505	10	7.0	ug/l	500	ND	101	70-130			
Beryllium	524	2.0	0.90	ug/l	500	ND	105	70-130			
Boron	0.610	0.050	0.020	mg/l	0.500	0.0834	105	70-130			
Calcium	17.0	0.10	0.050	mg/l	2.50	14.1	119	70-130			*MHA*
Chromium	521	5.0	2.0	ug/l	500	ND	104	70-130			
Iron	1.05	0.040	0.015	mg/l	0.500	0.323	145	70-130			*M1*
Magnesium	11.8	0.020	0.0080	mg/l	2.50	8.96	115	70-130			
Nickel	516	10	2.0	ug/l	500	2.48	103	70-130			
Selenium	496	10	8.0	ug/l	500	ND	99	70-130			
Silver	257	10	6.0	ug/l	250	ND	103	70-130			
Vanadium	532	10	3.0	ug/l	500	5.03	105	70-130			
Zinc	488	20	4.0	ug/l	500	ND	98	70-130			
Matrix Spike Analyzed: 07/10/2007 (7G10114-MS2)						**Source: IQG0367-01**					
Aluminum	432	50	40	ug/l	500	ND	86	70-130			
Arsenic	521	10	7.0	ug/l	500	ND	104	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	2.23	0.050	0.020	mg/l	0.500	1.75	98	70-130			
Calcium	99.9	0.10	0.050	mg/l	2.50	97.7	84	70-130			*MHA*
Chromium	483	5.0	2.0	ug/l	500	ND	97	70-130			
Iron	1.39	0.040	0.015	mg/l	0.500	0.886	102	70-130			
Magnesium	52.6	0.020	0.0080	mg/l	2.50	51.4	49	70-130			*MHA*
Nickel	492	10	2.0	ug/l	500	6.54	97	70-130			
Selenium	502	10	8.0	ug/l	500	ND	100	70-130			
Silver	249	10	6.0	ug/l	250	ND	100	70-130			
Vanadium	512	10	3.0	ug/l	500	ND	102	70-130			
Zinc	554	20	4.0	ug/l	500	80.3	95	70-130			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G10114 Extracted: 07/10/07											
Matrix Spike Dup Analyzed: 07/10/2007 (7G10114-MSD1)						**Source: IQG0478-01**					
Aluminum	743	50	40	ug/l	500	185	112	70-130	9	20	
Arsenic	488	10	7.0	ug/l	500	ND	98	70-130	4	20	
Beryllium	506	2.0	0.90	ug/l	500	ND	101	70-130	3	20	
Boron	0.593	0.050	0.020	mg/l	0.500	0.0834	102	70-130	3	20	
Calcium	16.3	0.10	0.050	mg/l	2.50	14.1	88	70-130	5	20	*MHA*
Chromium	481	5.0	2.0	ug/l	500	ND	96	70-130	8	20	
Iron	0.876	0.040	0.015	mg/l	0.500	0.323	111	70-130	18	20	
Magnesium	11.3	0.020	0.0080	mg/l	2.50	8.96	92	70-130	5	20	
Nickel	491	10	2.0	ug/l	500	2.48	98	70-130	5	20	
Selenium	491	10	8.0	ug/l	500	ND	98	70-130	1	20	
Silver	248	10	6.0	ug/l	250	ND	99	70-130	3	20	
Vanadium	513	10	3.0	ug/l	500	5.03	101	70-130	4	20	
Zinc	473	20	4.0	ug/l	500	ND	95	70-130	3	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G05130 Extracted: 07/05/07											
Blank Analyzed: 07/07/2007 (7G05130-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 07/07/2007 (7G05130-BS1)											
Antimony	85.3	2.0	0.20	ug/l	80.0		107	85-115			
Cadmium	84.0	1.0	0.11	ug/l	80.0		105	85-115			
Copper	77.5	2.0	0.75	ug/l	80.0		97	85-115			
Lead	82.5	1.0	0.10	ug/l	80.0		103	85-115			
Thallium	84.1	1.0	0.15	ug/l	80.0		105	85-115			
Matrix Spike Analyzed: 07/07/2007 (7G05130-MS1)						**Source: IQG0326-01**					
Antimony	88.0	2.0	0.20	ug/l	80.0	0.491	109	70-130			
Cadmium	82.8	1.0	0.11	ug/l	80.0	ND	103	70-130			
Copper	76.3	2.0	0.75	ug/l	80.0	0.919	94	70-130			
Lead	77.9	1.0	0.10	ug/l	80.0	ND	97	70-130			
Thallium	79.7	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Dup Analyzed: 07/07/2007 (7G05130-MSD1)						**Source: IQG0326-01**					
Antimony	87.9	2.0	0.20	ug/l	80.0	0.491	109	70-130	0	20	
Cadmium	83.5	1.0	0.11	ug/l	80.0	ND	104	70-130	1	20	
Copper	76.8	2.0	0.75	ug/l	80.0	0.919	95	70-130	1	20	
Lead	78.7	1.0	0.10	ug/l	80.0	ND	98	70-130	1	20	
Thallium	79.4	1.0	0.15	ug/l	80.0	ND	99	70-130	0	20	

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G13103 Extracted: 07/13/07											
Blank Analyzed: 07/13/2007 (7G13103-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Arsenic	ND	10	7.0	ug/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	0.0651	0.10	0.050	mg/l							*J*
Chromium	ND	5.0	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.0080	mg/l							
Nickel	ND	10	2.0	ug/l							
Selenium	ND	10	8.0	ug/l							
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Silver	ND	10	6.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	4.0	ug/l							
LCS Analyzed: 07/13/2007 (7G13103-BS1)											
Aluminum	0.501	0.050	0.040	mg/l	0.500		100	85-115			
Arsenic	501	10	7.0	ug/l	500		100	85-115			
Beryllium	519	2.0	0.90	ug/l	500		104	85-115			
Boron	0.482	0.050	0.020	mg/l	0.500		96	85-115			
Calcium	2.61	0.10	0.050	mg/l	2.50		104	85-115			
Chromium	496	5.0	2.0	ug/l	500		99	85-115			
Iron	0.520	0.040	0.015	mg/l	0.500		104	85-115			
Magnesium	2.54	0.020	0.0080	mg/l	2.50		102	85-115			
Nickel	500	10	2.0	ug/l	500		100	85-115			
Selenium	473	10	8.0	ug/l	500		95	85-115			
Silver	240	10	6.0	ug/l	250		96	85-115			
Vanadium	504	10	3.0	ug/l	500		101	85-115			
Zinc	487	20	4.0	ug/l	500		97	85-115			

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DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G13103 Extracted: 07/13/07											
Matrix Spike Analyzed: 07/13/2007 (7G13103-MS1)						**Source: IQG0326-01**					
Aluminum	0.508	0.050	0.040	mg/l	0.500	ND	102	70-130			
Arsenic	522	10	7.0	ug/l	500	ND	104	70-130			
Beryllium	539	2.0	0.90	ug/l	500	ND	108	70-130			
Boron	0.697	0.050	0.020	mg/l	0.500	0.188	102	70-130			
Calcium	30.4	0.10	0.050	mg/l	2.50	28.6	69	70-130			*MHA*
Chromium	512	5.0	2.0	ug/l	500	ND	102	70-130			
Iron	0.535	0.040	0.015	mg/l	0.500	ND	107	70-130			
Magnesium	13.0	0.020	0.0080	mg/l	2.50	10.8	90	70-130			
Nickel	513	10	2.0	ug/l	500	ND	103	70-130			
Selenium	485	10	8.0	ug/l	500	ND	97	70-130			
Silver	246	10	6.0	ug/l	250	ND	98	70-130			
Vanadium	514	10	3.0	ug/l	500	ND	103	70-130			
Zinc	498	20	4.0	ug/l	500	ND	100	70-130			
Matrix Spike Dup Analyzed: 07/13/2007 (7G13103-MSD1)						**Source: IQG0326-01**					
Aluminum	0.509	0.050	0.040	mg/l	0.500	ND	102	70-130	0	20	
Arsenic	524	10	7.0	ug/l	500	ND	105	70-130	1	20	
Beryllium	528	2.0	0.90	ug/l	500	ND	106	70-130	2	20	
Boron	0.703	0.050	0.020	mg/l	0.500	0.188	103	70-130	1	20	
Calcium	30.1	0.10	0.050	mg/l	2.50	28.6	60	70-130	1	20	*MHA*
Chromium	513	5.0	2.0	ug/l	500	ND	103	70-130	0	20	
Iron	0.533	0.040	0.015	mg/l	0.500	ND	107	70-130	0	20	
Magnesium	13.1	0.020	0.0080	mg/l	2.50	10.8	94	70-130	1	20	
Nickel	513	10	2.0	ug/l	500	ND	103	70-130	0	20	
Selenium	486	10	8.0	ug/l	500	ND	97	70-130	0	20	
Silver	245	10	6.0	ug/l	250	ND	98	70-130	0	20	
Vanadium	519	10	3.0	ug/l	500	ND	104	70-130	1	20	
Zinc	499	20	4.0	ug/l	500	ND	100	70-130	0	20	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G05123 Extracted: 07/05/07											
Blank Analyzed: 07/05/2007 (7G05123-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Fluoride	ND	0.50	0.15	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 07/05/2007 (7G05123-BS1)											
Chloride	5.00	0.50	0.25	mg/l	5.00		100	90-110			
Fluoride	4.77	0.50	0.15	mg/l	5.00		95	90-110			
Sulfate	9.93	0.50	0.20	mg/l	10.0		99	90-110			
Matrix Spike Analyzed: 07/05/2007 (7G05123-MS1)						**Source: IQG0335-01**					
Chloride	18.8	1.0	0.50	mg/l	5.00	13.9	99	80-120			
Fluoride	5.35	1.0	0.30	mg/l	5.00	0.554	96	80-120			
Sulfate	55.6	1.0	0.40	mg/l	10.0	45.3	103	80-120			
Matrix Spike Dup Analyzed: 07/05/2007 (7G05123-MSD1)						**Source: IQG0335-01**					
Chloride	18.8	1.0	0.50	mg/l	5.00	13.9	99	80-120	0	20	
Fluoride	5.34	1.0	0.30	mg/l	5.00	0.554	96	80-120	0	20	
Sulfate	55.4	1.0	0.40	mg/l	10.0	45.3	102	80-120	0	20	
Batch: 7G06061 Extracted: 07/06/07											
Blank Analyzed: 07/06/2007 (7G06061-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 07/06/2007 (7G06061-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G06061 Extracted: 07/06/07											
Duplicate Analyzed: 07/06/2007 (7G06061-DUP1)						**Source: IQG0268-01**					
Total Dissolved Solids	379	10	10	mg/l		381			1	10	
Batch: 7G09093 Extracted: 07/09/07											
Blank Analyzed: 07/09/2007 (7G09093-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 07/09/2007 (7G09093-BS1)											
Total Suspended Solids	974	10	10	mg/l	1000		97	85-115			
Duplicate Analyzed: 07/09/2007 (7G09093-DUP1)						**Source: IQG0355-01**					
Total Suspended Solids	ND	10	10	mg/l		ND				10	
Batch: 7G09106 Extracted: 07/09/07											
Blank Analyzed: 07/09/2007 (7G09106-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 07/09/2007 (7G09106-BS1)											
Total Cyanide	198	5.0	2.2	ug/l	200		99	90-110			
Matrix Spike Analyzed: 07/09/2007 (7G09106-MS1)						**Source: IQG0597-01**					
Total Cyanide	191	5.0	2.2	ug/l	200	6.71	92	70-115			
Matrix Spike Dup Analyzed: 07/09/2007 (7G09106-MSD1)						**Source: IQG0597-01**					
Total Cyanide	191	5.0	2.2	ug/l	200	6.71	92	70-115	0	15	

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Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7G11060 Extracted: 07/11/07											
Blank Analyzed: 07/11/2007 (7G11060-BLK1)											
Perchlorate	ND	4.0	0.65	ug/l							
LCS Analyzed: 07/11/2007 (7G11060-BS1)											
Perchlorate	51.1	4.0	0.65	ug/l	50.0		102	85-115			
Matrix Spike Analyzed: 07/11/2007 (7G11060-MS1)						**Source: IQG0574-03**					
Perchlorate	54.1	4.0	0.65	ug/l	50.0	4.56	99	80-120			
Matrix Spike Dup Analyzed: 07/11/2007 (7G11060-MSD1)						**Source: IQG0574-03**					
Perchlorate	53.3	4.0	0.65	ug/l	50.0	4.56	97	80-120	1	20	
Batch: 7G13103 Extracted: 07/13/07											
Blank Analyzed: 07/13/2007 (7G13103-BLK1)											
Hardness (as CaCO3)	ND	1.0	1.0	mg/l							
Batch: 7G16055 Extracted: 07/16/07											
Blank Analyzed: 07/16/2007 (7G16055-BLK1)											
Oil & Grease	ND	5.0	1.2	mg/l							
LCS Analyzed: 07/16/2007 (7G16055-BS1)											**MNR1**
Oil & Grease	19.7	5.0	1.2	mg/l	20.0		98	65-120			
LCS Dup Analyzed: 07/16/2007 (7G16055-BSD1)											
Oil & Grease	19.6	5.0	1.2	mg/l	20.0		98	65-120	1	20	

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IQG0326-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.67	4.8	15
IQG0326-01	Antimony-200.8	Antimony	ug/l	0.067	2.0	6.00
IQG0326-01	Antimony-200.8, Diss	Antimony	ug/l	0.49	2.0	6.00
IQG0326-01	Boron-200.7	Boron	mg/l	0.18	0.050	1.00
IQG0326-01	Boron-200.7, Diss	Boron	mg/l	0.19	0.050	1.00
IQG0326-01	Cadmium-200.8	Cadmium	ug/l	0.048	1.0	4.00
IQG0326-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.038	1.0	4.00
IQG0326-01	Chloride - 300.0	Chloride	mg/l	58	10	150
IQG0326-01	Copper-200.8	Copper	ug/l	1.17	2.0	14
IQG0326-01	Copper-200.8, Diss	Copper	ug/l	0.92	2.0	14
IQG0326-01	Fluoride-300.0	Fluoride	mg/l	0.36	0.50	1.60
IQG0326-01	Lead-200.8	Lead	ug/l	0.23	1.0	5.20
IQG0326-01	Lead-200.8, Diss	Lead	ug/l	0.0040	1.0	5.20
IQG0326-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	0.76	0.26	10.00
IQG0326-01	Perchlorate 314.0 (1ppb_IC6)	Perchlorate	ug/l	0	4.0	6.00
IQG0326-01	Sulfate-300.0	Sulfate	mg/l	62	10	250
IQG0326-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	313	10	850
IQG0326-01	Thallium-200.8	Thallium	ug/l	0.044	1.0	2.00
IQG0326-01	Thallium-200.8, Diss	Thallium	ug/l	0.049	1.0	2.00

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DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
B-1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
H	Sample analysis performed past method-specified holding time.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L6	Per the EPA methods, benzidine is known to be subject to oxidative losses during solvent concentration.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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.
R-7	LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

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

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	N/A	X
EPA 335.2	Water	X	X
EPA 413.1	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
SM2340B	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB *California Cert #1775*
4350 Transport Street, Unit 107 - Ventura, CA 93003
Analysis Performed: Bioassay-Acute 96hr
Samples: IQG0326-01

Eberline Services - SUB
2030 Wright Avenue - Richmond, CA 94804
Analysis Performed: Gross Alpha
Samples: IQG0326-01

Analysis Performed: Gross Beta
Samples: IQG0326-01

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: IQG0326-01

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

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: Annual Outfall 004
Report Number: IQG0326

Sampled: 07/05/07
Received: 07/05/07

Weck Laboratories, Inc

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

Analysis Performed: Mercury - 245.1
Samples: IQG0326-01

Analysis Performed: Mercury - 245.1, Diss
Samples: IQG0326-01

TestAmerica - Irvine, CA

Michele Chamberlin
Project Manager

IQG0326

Del Mar Analytical Version 04/28/06 CHAIN OF CUSTODY FORM

Client Name/Address:	Project:
MWH-Pasadena 300 North Lake Avenue, Suite 1200 Pasadena, CA 91101	Boeing-SSFL NPDES **Annual Outfall 004** Stormwater at SRE
Project Manager: Bronwyn Kelly Sampler: Pollock	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, + PP, Hardness as Ca Co3	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO4, NO3+NO2-N, F, Perchlorate	TDS, TSS	VOCs (624), NPDES + PP	VOCs A+A+2CVE	Pesticides/PCBs - PP	Gross Alpha, Gross Beta, Tritium (906.0*, Sr-90 (905.) Total Combined Radium 226 & 228	SVOCs - PP	Acute Toxicity	Cyanide	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, B, V, Tl, Fe, Al, + PP, Hardness as Ca Co3	Comments
Outfall 004	W	1L Poly	1	7-5-07 10:55	HNO3	1A	X													
Outfall 004-Dup	W	1L Poly	1		HNO3	1B	X													
Outfall 004	W	1L Amber	2		None	2A,2B		X												
Outfall 004	W	1L Amber	2		HCl	3A, 3B			X											
Outfall 004	W	Poly-500 ml	2		None	4A,4B				X										
Outfall 004	W	Poly-500 ml	2		None	5A, 5B					X									
Outfall 004	W	VOAs	3		HCl	6A, 6B, 6C						X								
Outfall 004	W	VOAs	3		None	7A, 7B, 7C							X							
Outfall 004	W	1L Amber	2		None	8A, 8B								X						
Outfall 004	W	2.5 Gal Cube 100 ml Amber VOAs	1 3		None None	9A 15A, 15B, 15C									X					• Analyze for Total Combined RA-226 & RA-228 only if Gross Alpha/Beta exceed permit limit. • Analyze for Tritium and Sr-90 only if Ra-226&228 exceed permit limit.
Outfall 004	W	1L Amber	2		None	10A, 10B										X				
Outfall 004	W	1 Gal Poly	1		None	11A											X			
Outfall 004	W	500ml Poly	1		NaOH	12												X		
Outfall 004	W	Poly-1L	1		None	13													X	Filter w/in 24hrs of receipt at lab
Trip Blanks	W	VOAs	3		None	14A, 14B, 14C							X							
Trip Blank	W	VOAs	3		HCl	16A, 16B, 16C						X								

ANALYSIS REQUIRED

Field readings:
Temp = 81.7°
pH = 7.26
Collected at time of sampling

Relinquished By	Date/Time:	Received By	Date/Time:
7-5-07	1500	TAI	7/05/07 1800
TAI 7/05/07 1720			
		07/05/07 1720	

Turn around Time: (check)
24 Hours _____ 5 Days _____
48 Hours _____ 10 Days _____
72 Hours _____ Normal X
Perchlorate Only 72 Hours_____
Metals Only 72 Hours_____

Sample Integrity: (Check)
Intact X On Ice: X 0.4

TN 2010

NPDES-239

LABORATORY REPORT

Aquatic Testing Laboratories
"dedicated to providing quality aquatic toxicity testing"
4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA DOHS ELAP Cert. No.: 1775

Date: July 10, 2007

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

Laboratory No.: A-07070608-001
Sample ID.: IQG0326-01

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

Date Sampled:	07/05/07
Date Received:	07/06/07
Temp. Received:	2°C
Chlorine (TRC):	0.0 mg/l
Date Tested:	07/06/07 to 07/10/07

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

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

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

Result Summary:

Sample ID.	Results
IQG0326-01	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-07070608-001
Client/ID: TestAmerica IQG0326-01 **Start Date: 07/06/2007**

TEST SUMMARY

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

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC Batch No.: RT-070703.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	Analyst & Time of Readings
INITIAL	Control	19.6	8.8	7.9	0	0	[illegible]
	100%	20.0	8.4	7.6	0	0	1330
24 Hr	Control	19.2	8.4	7.8	0	0	[illegible]
	100%	19.1	8.1	8.0	0	0	1200
48 Hr	Control	19.2	7.1	7.6	0	0	[illegible]
	100%	19.3	6.6	7.9	0	0	1230
Renewal	Control	19.4	8.7	8.0	0	0	[illegible]
	100%	19.5	8.4	7.9	0	0	1230
72 Hr	Control	14.2	6.3	7.4	0	0	[illegible]
	100%	19.2	7.3	7.6	0	0	1230
96 Hr	Control	19.1	6.9	7.7	0	0	[illegible]
	100%	19.1	7.1	8.1	0	0	1300

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6; Conductivity: 470 umho; Temp:2°C;
DO: 8.4 mg/l; Alkalinity: 91 mg/l; Hardness: 109 mg/l; NH_3-N: 0.3 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 62 mg/l; Hardness: 92 mg/l; Conductivity: 315 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

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

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQG0326

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Analysis	Due	Expires	Comments
Sample ID: IQG0326-01	**Water**	Sampled: **07/05/07 10:55**	
Bioassay-Acute 96hr	07/16/07 12:00	07/06/07 22:55	FH minnow, EPA/821-R02-012, Sub to AqTest Labs
Containers Supplied: 1 gal Poly (Z)			

Released By _____ Date/Time _____ Received By _____ Date/Time 7-607 7:00

Released By 7-607 Date/Time 1256 Received By 7-6-7 Date/Time 12:56

NPDES-242

Aquatic
Testing
Laboratories

REFERENCE TOXICANT DATA

FATHEAD MINNOW ACUTE
Method 2000.0
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-070703

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 14 days old.
Regulations: NPDES.
Test chamber volume: 250 ml.
Feeding: Prior to renewal at 48 hrs.
Temperature: 20 +/- 1°C.
Number of replicates: 2.
Dilution water: MHSF.

Source: In-lab culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: LC50 at 96 hrs.
Test chamber: 600 ml glass beakers.
Aeration: None.
Number of organisms per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr					48 Hr				
Date/Time:	7-3-07 1400			7-4-07 1330					7-5-07 1300				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.6	9.1	8.1	19.5	7.4	7.8	0	0	19.7	7.3	7.7	0	0
1.0 mg/l	19.6	9.0	8.1	19.6	7.4	7.7	0	0	19.6	7.3	7.6	0	0
2.0 mg/l	19.6	9.0	8.1	19.6	7.4	7.7	0	0	19.6	7.2	7.6	0	0
4.0 mg/l	19.6	9.1	8.1	19.6	7.3	7.6	0	0	19.5	7.1	7.5	1	0
8.0 mg/l	19.6	9.1	8.1	19.6	7.2	7.5	10	10	—	—	—	—	—

	RENEWAL			72 Hr					96 Hr				
Date/Time:	7-5-07 1300			7-6-07 1300					7-7-07 1400				
Analyst:													
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	19.6	8.9	8.0	19.7	7.3	7.7	0	0	19.7	7.4	7.6	0	0
1.0 mg/l	19.6	8.8	7.9	19.6	7.4	7.6	0	0	19.7	7.4	7.6	0	0
2.0 mg/l	19.6	8.9	7.9	19.6	7.2	7.6	0	0	19.6	7.3	7.5	0	0
4.0 mg/l	19.6	8.8	7.9	19.6	6.8	7.5	0	0	19.6	7.0	7.5	0	0
8.0 mg/l	19.6	8.8	7.9	—	—	—	—	—	—	—	—	—	—

Comments: Control: Alkalinity: 63 mg/l; Hardness: 95 mg/l; Conductivity: 290 umho.
SDS: Alkalinity: 63 mg/l; Hardness: 94 mg/l; Conductivity: 295 umho.

Concentration-response relationship acceptable? (see attached computer analysis):
(Yes) (response curve normal)
No (dose interrupted indicated or non-normal)

Acute Fish Test-96 Hr Survival

Start Date:	03 Jul-07 14:00	Test ID:	RT-070703f	Sample ID:	REF-Ref Toxicant
End Date:	07 Jul-07 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	03 Jul-07 00:00	Protocol:	ACUTE-EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:					

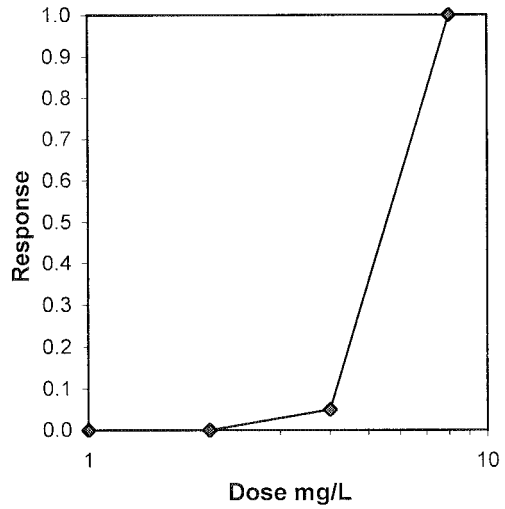
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	1.0000	0.9000
8	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

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

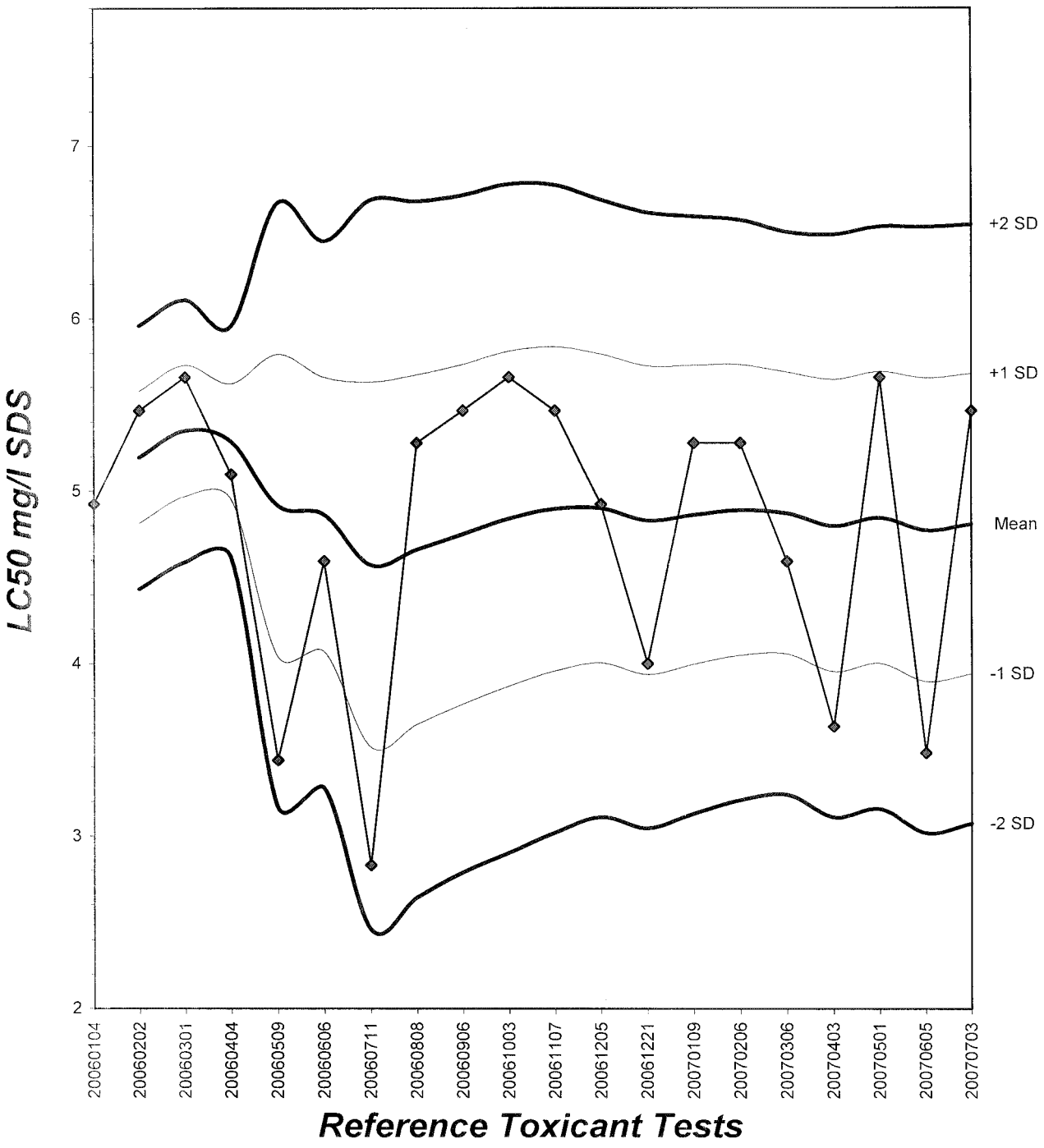
Trimmed Spearman-Karber

Trim Level	EC50	95% CL	
0.0%	5.4642	5.1072	5.8461
5.0%	5.5546	5.3505	5.7664
10.0%	5.5546	5.3505	5.7664
20.0%	5.5546	5.3505	5.7664
Auto-0.0%	5.4642	5.1072	5.8461



Fathead Minnow Acute Laboratory Control Chart

CV% = 18.1



TEST ORGANISM LOG

Aquatic Testing Laboratories

FATHEAD MINNOW - LARVAL
(Pimephales promelas)

QA/QC BATCH NO.: RT-070605

SOURCE: In-Lab Culture

DATE HATCHED: 6-19-07

APPROXIMATE QUANTITY: 300

GENERAL APPEARANCE: Good

 # MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 7/3/7

AVERAGE FISH WEIGHT: 0.006 **gm**

TEST LOADING LIMITS: 0.65 gm/liter

200 ml test solution volume = 0.013 gm mean fish weight limit
250 ml test solution volume = 0.016 gm mean fish weight limit

ACCLIMATION WATER QUALITY:

Temp.: 19.4 **°C** **pH:** 8.1 **Ammonia:** <0.1 **mg/l NH_3-N**

DO: 9.1 **mg/l** **Alkalinity:** 63 **mg/l** **Hardness:** 95 **mg/l**

READINGS RECORDED BY: _____ **DATE:** 7-4-07

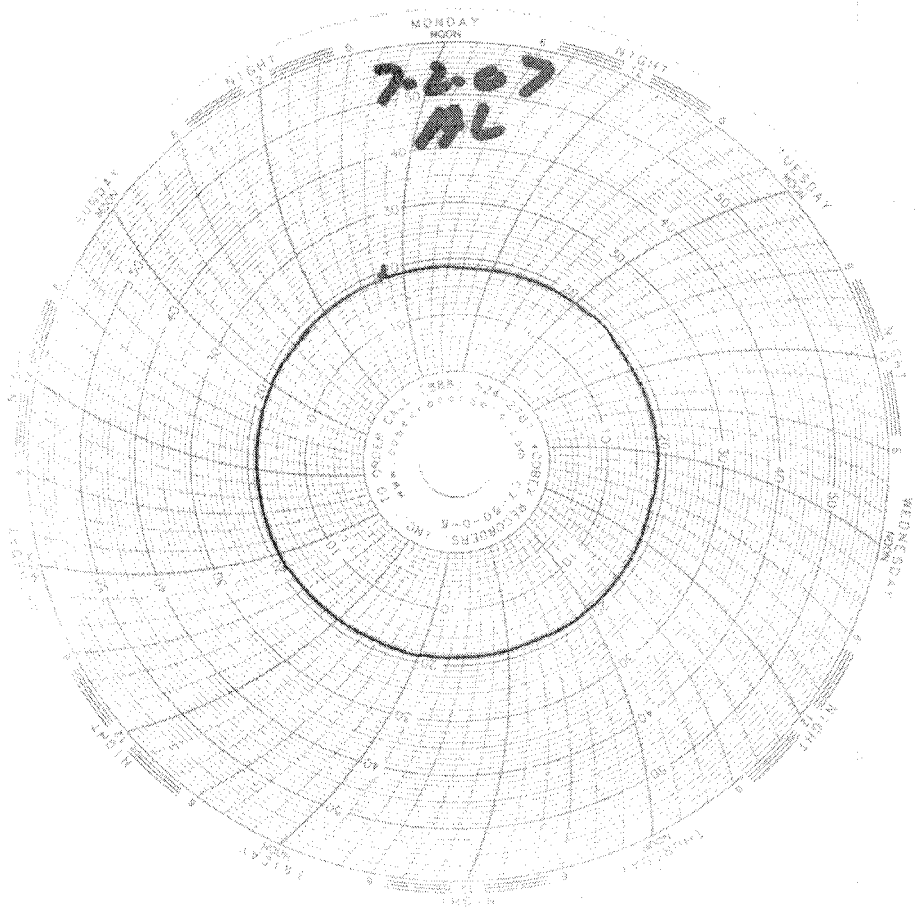
Aquatic Testing Laboratories

Laboratory Temperature Chart

QA/QC Batch No: RT-070703

Date Tested: 07/03/07 to 07/07/07

Acceptable Range: 20+/- 1°C



EBERLINE
SERVICES

August 14, 2007

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

Reference: Test America Project No. IQG0326
Eberline Services NELAP Cert #01120CA (exp. 01/31/08)
Eberline Services Report R707039-8667

Dear Ms. Chamberlin:

Enclosed are results from the analysis of one water sample received at Eberline Services on July 9, 2007. The sample was analyzed according to the accompanying Test America Subcontract Order Form. The requested analyses were gross alpha/gross beta (EPA900.0). Quality control samples consisted of an LCS, blank analysis, duplicate analysis, and matrix spike. All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

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

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: *Report*
Subcontract Form
Receipt checklist
Invoice

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

Eberline Services

ANALYSIS RESULTS

SDG 8667 Client TA IRVINE
Work Order R707039-01 Contract PR0JECT# IQG0326
Received Date 07/09/07 Matrix WATER

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
IQG0326-01	8667-001	07/05/07	08/03/07	GrossAlpha	0.085 ± 1.0	pCi/L	1.74
			08/03/07	Gross Beta	8.17 ± 0.87	pCi/L	1.09

Certified by
Report Date 08/14/07
Page 1

Eberline Services

QC RESULTS

SDG 8667 | Client TA IRVINE
Work Order R707039-01 | Contract PR0JECT# IQG0326
Received Date 07/09/07 | Matrix WATER

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8667-002	GrossAlpha	9.62 ± 0.81	pCi/Smpl	10.1	0.357	95% recovery
	Gross Beta	9.89 ± 0.37	pCi/Smpl	9.51	0.263	104% recovery
BLANK						
8667-003	GrossAlpha	-0.186 ± 0.17	pCi/Smpl	NA	0.363	<MDA
	Gross Beta	0.013 ± 0.17	pCi/Smpl	NA	0.277	<MDA

DUPLICATES

Sample ID	Nuclide	Results ± 2σ	MDA
8667-004	GrossAlpha	-0.216 ± 1.0	1.78
	Gross Beta	8.23 ± 0.87	1.09

ORIGINALS

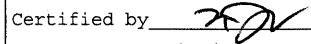
Sample ID	Results ± 2σ	MDA	RPD	3σ (Tot)	Eval
8667-001	0.085 ± 1.0	1.74	-	0	satis.
	8.17 ± 0.87	1.09	1	48	satis.

SPIKED SAMPLE

Sample ID	Nuclide	Results ± 2σ	MDA
8667-005	GrossAlpha	81.2 ± 5.1	1.77
	Gross Beta	74.4 ± 1.9	1.09

ORIGINAL SAMPLE

Sample ID	Results ± 2σ	MDA	Added	%Recv
8667-001	0.085 ± 1.0	1.74	70.7	115
	8.17 ± 0.87	1.09	63.4	104

Certified by 
Report Date 08/14/07

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQG0326

8867

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Eberline Services - SUB
2030 Wright Avenue
Richmond, CA 94804
Phone :(510) 235-2633
Fax: (510) 235-0438
Project Location: California
Receipt Temperature: _____ °C Ice: Y / N

Analysis	Due	Expires	Comments
Sample ID: IQG0326-01	**Water**	Sampled: **07/05/07 10:55**	
EDD + Level 4	07/16/07 12:00	08/02/07 10:55	
Gross Alpha-O	07/16/07 12:00	01/01/08 10:55	900.0, IF RESULT>15 pCi/L, run Radium 226 & 228
Gross Beta-O	07/16/07 12:00	01/01/08 10:55	900.0, IF RESULT>50 pCi/L, run Radium 226 & 228
Radium, Combined-O	07/16/07 12:00	07/04/08 10:55	HOLD for Gross A&B results; EPA 903.1 & 904.0
Strontium 90-O	07/16/07 12:00	07/04/08 10:55	HOLD for Ra 226+Ra 228 results, EPA 905.0
Tritium-O	07/16/07 12:00	07/04/08 10:55	HOLD for Ra 226+Ra 228 results, EPA 906.0

Containers Supplied:
2.5 gal Poly (S) 500 (TN) ~~125~~ mL Amber (T) 40 mL Voa Vial (U) 40 mL Voa Vial (V) 40 mL Voa Vial (W)

Released By	Date/Time	Received By	Date/Time
	7/6/07		07/09/07
Released By	Date/Time	Received By	Date/Time

NPDES-252

EBERLINE SERVICES

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

7/9/07

Client: TEST AMERICA City IRVINE State CA

Date/Time received 07/07/07 — CoC No. 160326

Container I.D. No. 16 CLIENT Requested TAT (Days) _____ P.O. Received Yes [ ] No [ ]

INSPECTION

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

14. Was P.M. notified of any anomalies? Yes [ ] No [ ] Date _____
15. Inspected by _____ Date: 07/09/07 Time: 8:07

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

Ion Chamber Ser. No. _____ Calibration date _____

Alpha Meter Ser. No. _____ Calibration date _____

Beta/Gamma Meter Ser. No. _____ Calibration date _____

Vista
Analytical Laboratory

July 27, 2007

Vista Project I.D.: 29170

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

Dear Ms. Chamberlin,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on July 07, 2007 under your Project Name "IQG0326". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-657-1520 or by email at mmaier@vista-analytical.com. Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha M. Maier
Laboratory Director

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

Section I: Sample Inventory Report

Date Received: **7/7/2007**

Vista Lab. ID	Client Sample ID
29170-001	IQG0326-01

SECTION II

Method Blank **EPA Method 1613**

Matrix: Aqueous QC Batch No.: 9192 Lab Sample: 0-MB001

Sample Size: 1.00 L Date Extracted: 18-Jul-07 Date Analyzed DB-5: 21-Jul-07 Date Analyzed DB-225: NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000782		
1,2,3,7,8-PeCDD	ND	0.000000707		
1,2,3,4,7,8-HxCDD	ND	0.00000131		
1,2,3,6,7,8-HxCDD	ND	0.000000740		
1,2,3,7,8,9-HxCDD	ND	0.000000710		
1,2,3,4,6,7,8-HpCDD	ND	0.00000117		
OCDD	0.00000202			J
2,3,7,8-TCDF	ND	0.000000804		
1,2,3,7,8-PeCDF	ND	0.000000560		
2,3,4,7,8-PeCDF	ND	0.000000512		
1,2,3,4,7,8-HxCDF	ND	0.000000418		
1,2,3,6,7,8-HxCDF	ND	0.000000472		
2,3,4,6,7,8-HxCDF	ND	0.000000499		
1,2,3,7,8,9-HxCDF	ND	0.000000755		
1,2,3,4,6,7,8-HpCDF	ND	0.000000566		
1,2,3,4,7,8,9-HpCDF	ND	0.000000621		
OCDF	ND	0.00000175		

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	82.9	25 - 164	
	13C-1,2,3,7,8-PeCDD	80.7	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	84.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	83.0	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	82.1	23 - 140	
	13C-OCDD	66.0	17 - 157	
	13C-2,3,7,8-TCDF	85.8	24 - 169	
	13C-1,2,3,7,8-PeCDF	80.2	24 - 185	
	13C-2,3,4,7,8-PeCDF	82.9	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	74.5	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	73.0	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	78.6	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	77.3	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	76.1	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	75.2	26 - 138	
	13C-OCDF	69.5	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	94.8	35 - 197	

Totals

Total TCDD	ND	0.000000782
Total PeCDD	ND	0.000000707
Total HxCDD	ND	0.000000920
Total HpCDD	ND	0.00000117
Total TCDF	ND	0.000000804
Total PeCDF	ND	0.000000536
Total HxCDF	ND	0.000000536
Total HpCDF	ND	0.000000594

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: DMS Approved By: William J. Luksemburg 27-Jul-2007 07:56

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9192	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	18-Jul-07	Date Analyzed DB-5:	21-Jul-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	9.82	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	82.5	25 - 164	
1,2,3,7,8-PeCDD	50.0	51.5	35 - 71		13C-1,2,3,7,8-PeCDD	79.6	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	50.9	35 - 82		13C-1,2,3,4,7,8-HxCDD	80.3	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	51.8	38 - 67		13C-1,2,3,6,7,8-HxCDD	79.4	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	51.3	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	83.2	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	50.9	35 - 70		13C-OCDD	69.3	17 - 157	
OCDD	100	106	78 - 144		13C-2,3,7,8-TCDF	81.5	24 - 169	
2,3,7,8-TCDF	10.0	9.82	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	74.9	24 - 185	
1,2,3,7,8-PeCDF	50.0	50.8	40 - 67		13C-2,3,4,7,8-PeCDF	77.3	21 - 178	
2,3,4,7,8-PeCDF	50.0	49.7	34 - 80		13C-1,2,3,4,7,8-HxCDF	70.7	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	49.0	36 - 67		13C-1,2,3,6,7,8-HxCDF	68.3	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	51.5	42 - 65		13C-2,3,4,6,7,8-HxCDF	73.6	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.4	35 - 78		13C-1,2,3,7,8,9-HxCDF	75.2	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	50.1	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	76.9	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	48.7	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	78.2	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	48.4	39 - 69		13C-OCDF	73.5	17 - 157	
OCDF	100	102	63 - 170	CRS	37Cl-2,3,7,8-TCDD	97.3	35 - 197	

Analyst: DMS

Approved By: William J. Luksemburg 27-Jul-2007 07:56

Sample ID: **IQG0326-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine	Matrix:	Aqueous	Lab Sample:	29170-001	Date Received:	7-Jul-07
Project:	IQG0326	Sample Size:	1.03 L	QC Batch No.:	9192	Date Extracted:	18-Jul-07
Date Collected:	5-Jul-07			Date Analyzed DB-5:	22-Jul-07	Date Analyzed DB-225:	NA
Time Collected:	1055						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000556		
1,2,3,7,8-PeCDD	ND	0.000000639		
1,2,3,4,7,8-HxCDD	ND	0.00000168		
1,2,3,6,7,8-HxCDD	ND	0.000000786		
1,2,3,7,8,9-HxCDD	ND	0.000000748		
1,2,3,4,6,7,8-HpCDD	0.0000163			J
OCDD	0.000257			B
2,3,7,8-TCDF	ND	0.000000646		
1,2,3,7,8-PeCDF	ND	0.000000506		
2,3,4,7,8-PeCDF	ND	0.000000486		
1,2,3,4,7,8-HxCDF	ND	0.000000342		
1,2,3,6,7,8-HxCDF	ND	0.000000378		
2,3,4,6,7,8-HxCDF	ND	0.000000408		
1,2,3,7,8,9-HxCDF	ND	0.000000574		
1,2,3,4,6,7,8-HpCDF	0.00000236			J
1,2,3,4,7,8,9-HpCDF	ND	0.000000796		
OCDF	0.00000633			J

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	88.3	25 - 164	
	13C-1,2,3,7,8-PeCDD	80.3	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	81.4	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	80.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	81.8	23 - 140	
	13C-OCDD	70.3	17 - 157	
	13C-2,3,7,8-TCDF	89.1	24 - 169	
	13C-1,2,3,7,8-PeCDF	78.4	24 - 185	
	13C-2,3,4,7,8-PeCDF	80.1	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	70.4	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	68.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	73.2	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	72.6	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	72.8	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	74.1	26 - 138	
	13C-OCDF	69.4	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	103	35 - 197	

Totals

Total TCDD	ND	0.000000556	
Total PeCDD	ND	0.000000639	
Total HxCDD	ND	0.00000107	
Total HpCDD	0.0000301		
Total TCDF	ND	0.000000646	
Total PeCDF	ND	0.000000496	
Total HxCDF	0.00000148	0.00000234	
Total HpCDF	0.00000897		

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: William J. Luksemburg 27-Jul-2007 07:56

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQG0326 29170

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: (916) 673-0106
Project Location: California
Receipt Temperature: 2.9 °C Ice: (Y) / N

Analysis	Due	Expires	Comments
Sample ID: IQG0326-01	**Water**	Sampled: **07/05/07 10:55**	
1613-Dioxin-HR-Alta	07/16/07 12:00	07/12/07 10:55	J flags,17 congeners,no TEQ,ug/L,sub=Vista
Level 4 + EDD-OUT	07/16/07 12:00	08/02/07 10:55	Excel EDD email to pm,Include Std logs for Lvl IV
Containers Supplied:			
1 L Amber (C)	1 L Amber (D)		

Released By	Date/Time	Received By	Date/Time
[signature]	7/6/07	[signature] F. Bishop	7/7/07 1105

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 29170 **TAT** Unspecified

Samples Arrival:	**Date/Time** 7/7/07 11:00		**Initials:** FEB		**Location:** WR-2 **Shelf/Rack:** N/A		
Logged In:	**Date/Time** 7/9/07 0919		**Initials:** CBDB		**Location:** WR-2 **Shelf/Rack:** B-2		
Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other	
Preservation:	(Ice)	Blue Ice	Dry Ice	None			
Temp °C 2.9°C	**Time:** 1107		**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 # 7987 1318 8741	✓		
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?			✓

$Na_2S_2O_3$ Preservation Documented?	COC	Sample Container	(None)	
Shipping Container: Vista	(Client)	Retain	(Return)	Dispose

Comments:

7070602

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQG0326

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Weck Laboratories, Inc
14859 E. Clark Avenue
City of Industry, CA 91745
Phone :(626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: 4.6 °C Ice: Y / N

Analysis	Due	Expires	Comments
Sample ID: IQG0326-01	**Water**	Sampled: **07/05/07 10:55**	
Level 4 Data Package - Wec	07/16/07 12:00	08/02/07 10:55	Provide Element transfer file
Mercury - 245.1, Diss -OUT	07/16/07 12:00	08/02/07 10:55	Sub to Weck, J & B flags
Mercury - 245.1-OUT	07/16/07 12:00	08/02/07 10:55	Sub to Weck, Boeing, permit, J flags
Containers Supplied:			
125 mL Poly w/HNO3 (AC)	125 mL Poly (AD)		

Released By — Date/Time

Released By 7-6-07 8:03 — Date/Time

Received By 7-6-07 7:10 — Date/Time

Received By 7-6-07 8:06 — Date/Time

NPDES-265

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634
info@wecklabs.com www.wecklabs.com

CERTIFICATE OF ANALYSIS

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

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

Report Date: 07/10/07 14:21
Received Date: 07/06/07 08:06
Turn Around: 6 days

Work Order #: 7070602

Client Project: IQG0326

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

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

Dear Michele Chamberlin :

Enclosed are the results of analyses for samples received 07/06/07 08:06 with the Chain of Custody document. The samples were received in good condition. The samples were received at 9.6 °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

NPDES-266

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: 7070602
Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQG0326-01	client		7070602-01	Water	07/05/07 10:55

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: 7070602
Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

IQG0326-01 7070602-01 (Water) Date Sampled: 07/05/07 10:55

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	W7G0184	07/06/07	07/09/07	jlp	
Mercury, Total	ND	0.050	ug/l	0.20	1	EPA 245.1	W7G0184	07/06/07	07/09/07	jlp	

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Report ID: 7070602
Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

QUALITY CONTROL SECTION

Weck Laboratories, Inc.
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TestAmerica, Inc. - Irvine
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Irvine CA, 92614

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Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7G0184 - EPA 245.1										
Blank (W7G0184-BLK1)				Analyzed: 07/09/07						
Mercury, Total	0.0310	0.050	ug/l							J
Mercury, Dissolved	ND	0.20	ug/l							
LCS (W7G0184-BS1)				Analyzed: 07/09/07						
Mercury, Total	0.979	0.050	ug/l	1.00		98	85-115			
Mercury, Dissolved	0.979	0.20	ug/l	1.00		98	85-115			
Matrix Spike (W7G0184-MS1)		**Source: 7070530-02**		Analyzed: 07/09/07						
Mercury, Total	0.991	0.050	ug/l	1.00	0.0340	96	70-130			
Mercury, Dissolved	0.991	0.20	ug/l	1.00	0.0340	96	70-130			
Matrix Spike (W7G0184-MS2)		**Source: 7070532-09**		Analyzed: 07/09/07						
Mercury, Total	0.981	0.050	ug/l	1.00	0.0290	95	70-130			
Mercury, Dissolved	0.981	0.20	ug/l	1.00	0.0290	95	70-130			
Matrix Spike Dup (W7G0184-MSD1)		**Source: 7070530-02**		Analyzed: 07/09/07						
Mercury, Total	0.978	0.050	ug/l	1.00	0.0340	94	70-130	1	20	
Mercury, Dissolved	0.978	0.20	ug/l	1.00	0.0340	94	70-130	1	20	
Matrix Spike Dup (W7G0184-MSD2)		**Source: 7070532-09**		Analyzed: 07/09/07						
Mercury, Total	0.969	0.050	ug/l	1.00	0.0290	94	70-130	1	20	
Mercury, Dissolved	0.969	0.20	ug/l	1.00	0.0290	94	70-130	1	20	

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Report ID: 7070602
Project ID: IQG0326

Date Received: 07/06/07 08:06
Date Reported: 07/10/07 14:21

Notes and Definitions

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

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

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

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

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

APPENDIX G

Section 5

Outfall 004, September 22, 2007

MEC^X Data Validation Reports

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MECX, LLC
12260 East Vassar Drive
Suite 500
Lakewood, CO 80226

Laboratory Vista Analytical
Reviewer E. Wessling
Analysis/Method Dioxins/Furans

Package ID IQI2055
Task Order 1261.100D.00 001
SDG No. IQI2055
No. of Analyses 1

Date: Oct. 31, 2007
Reviewer's Signature

ACTION ITEMS[a]	
. **Case Narrative Deficiencies**	
2. **Out of Scope Analyses**	
3. **Analyses Not Conducted**	
4. **Missing Hardcopy Deliverables**	
5. **Incorrect Hardcopy Deliverables**	
6. **Deviations from Analysis Protocol, e.g.,**	Qualifications were assigned for the following:
Holding Times	- EMPC values were qualified as estimated nondetects
GC/MS Tune/Inst. Performance	
Calibration	- Estimated values between the RL and EDL qualified DNQ
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	

COMMENTS[b]	

[a] Subcontracted analytical laboratory is not meeting contract and/or method requirements.
[b] Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.

CONTRACT COMPLIANCE SCREENING FORM FOR HARDCOPY DATA

MEC[X]
12269 East Vassar Drive
Aurora, CO 80014

Task Order: 1261.100D.00
SDG No.: IQI2055
No. of Analyses: 1

Laboratory: TesAmerica, Weck
Reviewer: P. Meeks
Analysis/Method: Metals, General Minerals

Date: October 21, 2007
Reviewer's Signature

ACTION ITEMS[a]	
1. **Case Narrative Deficiencies**	
2. **Out of Scope Analyses**	
3. **Analyses Not Conducted**	
4. **Missing Hardcopy Deliverables**	
5. **Incorrect Hardcopy Deliverables**	
6. **Deviations from Analysis Protocol, e.g.,**	Detect below the reporting limit qualified as estimated.
	Qualification applied for calibration outlier.
Holding Times	
GC/MS Tune/Inst. Performance	
Calibration	
Method blanks	
Surrogates	
Matrix Spike/Dup LCS	
Field QC	
Internal Standard Performance	
Compound Identification	
Quantitation	
System Performance	
COMMENTS[b]	

[a] Subcontracted analytical laboratory is not meeting contract and/or method requirements.
[b] Differences in protocol have been adopted by the laboratory but no action against the laboratory is required.

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IQI2055

Prepared by

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

I. INTRODUCTION

Task Order Title:	Boeing SSFL NPDES
Contract Task Order:	1261.100D.00
Sample Delivery Group:	IQI2055
Project Manager:	P. Costa
Matrix:	Water
QC Level:	IV
No. of Samples:	1
No. of Reanalyses/Dilutions:	0
Laboratory:	TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 004	IQI2055-01	7092405-01	Water	9/22/07 1122	160.2, 314.0, 245.1, 1613

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and the sub-laboratory, Weck, within the temperature limits of 4°C ±2°C. The sample was received at the sub-laboratory, Vista, below the temperature limit at 0.4°C; however, as the sample was not noted to be damaged or frozen, no qualifications were required. According to the case narrative for this SDG, the sample was received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the samples were couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at sub-laboratories, Weck and Vista. The client ID was added to the sample result summaries 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 1613—Dioxin/Furans

Reviewed By: E. Wessling
Date Reviewed: 10/21/2007

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Dioxins and Furans (DVP-19, Rev. 0), USEPA Method 1613*, and the *National Functional Guidelines Chlorinated Dioxin/Furan Data Review* (8/02).

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.

- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.

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

    - Mass Spectrometer Performance: The mass spectrometer performance was acceptable with the static resolving power greater than 10,000.

- Calibration: Calibration criteria were met.

    - Initial Calibration: Initial calibration criteria were met. The initial calibration was acceptable with %RSDs ≤20% for the 16 native compounds (calibration by isotope dilution) and ≤35% for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the Method 1613 QC limits for all standards.

    - Continuing Calibration: Calibration verification (VER) consisted of a mid-level standard (CS3) analyzed at the beginning of each analytical sequence. The VERs were acceptable with the concentrations within the acceptance criteria listed in Table 6 of EPA Method 1613. The ion abundance ratios and relative retention times were within the method QC limits.

- Blanks: The method blank had a detect for OCDD above the EDL; however, the concentration reported in the sample exceeded five times the concentration reported in the method blank.

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613.

- 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 labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.

- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613. Total PeCDF was qualified as an estimated nondetect, "UJ," as the EMPC value did not meet the identification criteria.

- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Any detect below the laboratory lower calibration level was qualified as estimated, "J." These "J" values were annotated with the qualification code of "DNQ" to comply with the reporting requirements of the NPDES permit. Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHODS 7470A—Mercury

Reviewed By: P. Meeks
Date Reviewed: October 21, 2007

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0), EPA Method 245.1*, and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding time, 28 days for mercury, was met.

- Tuning: As mercury was not analyzed by 6020, mass spectrometer tuning is not applicable.

- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥0.995 and all initial and continuing calibration recoveries were within 85-115%. The low-level mercury IPC was recovered at 54%; therefore, dissolved mercury in Outfall 004 was qualified as estimated, "J." As the total mercury concentration exceeded 3× the concentration of the IPC, it was not qualified.

- Blanks: There were no applicable detects in the method blanks or CCBs.

- Interference Check Samples: As mercury was not analyzed by 6020, the interference check sample is not applicable.

- Blank Spikes and Laboratory Control Samples: The 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 on the sample in this SDG. Method accuracy was evaluated based on LCS results.

- Serial Dilution: No serial dilution analyses were performed.

- Internal Standards Performance: As mercury was not analyzed by 6020, internal standard performance is 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. Detects reported below the reporting limit were qualified as estimated and coded with "DNQ," in order to comply with the NPDES permit. 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.

VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks
Date Reviewed: October 21, 2007

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 160.2 and 314.0*, and the *National Functional Guidelines for Inorganic Data Review* (2/94).

- Holding Times: The analytical holding times, 7 days for TSS and 28 days for perchlorate, were met.

- Calibration: Calibration criteria were met. Perchlorate initial calibration r^2 values were $\geq$0.995 and all initial and continuing calibration, ICCS, and IPC recoveries were within 90-110%. The IPC-MA was recovered within 85-115%.

- Blanks: Method blanks and CCBs had no detects.

- 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 on the sample in this SDG. Method accuracy was evaluated based on LCS results.

- 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. Reported nondetects are valid to the reporting limit.

- 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.

Sample ID:	IQI2055-01	Outfall 004	EPA Method 1613

Client Data		Sample Data		Laboratory Data			
Name:	TestAmerica	Matrix:	Aqueous	Lab Sample:	29591-001	Date Received:	25-Sep-07
Project:	IQI2055	Sample Size:	1.01 L	QC Batch No.:	9453	Date Extracted:	6-Oct-07
Date Collected:	22-Sep-07			Date Analyzed DB-5:	8-Oct-07	Date Analyzed DB-225:	NA
Time Collected:	1122						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND U	0.00000118		
1,2,3,7,8-PeCDD	ND U	0.00000190		
1,2,3,4,7,8-HxCDD	0.00000223 J/DNQ			J
1,2,3,6,7,8-HxCDD	0.00000653			J
1,2,3,7,8,9-HxCDD	0.00000226			J
1,2,3,4,6,7,8-HpCDD	0.000186			
OCDD	0.00336			B
2,3,7,8-TCDF	ND U	0.00000164		
1,2,3,7,8-PeCDF	ND	0.00000190		
2,3,4,7,8-PeCDF	ND	0.00000174		
1,2,3,4,7,8-HxCDF	ND	0.00000358		
1,2,3,6,7,8-HxCDF	ND	0.00000371		
2,3,4,6,7,8-HxCDF	ND	0.00000395		
1,2,3,7,8,9-HxCDF	ND	0.00000499		
1,2,3,4,6,7,8-HpCDF	0.0000332			
1,2,3,4,7,8,9-HpCDF	ND U	0.00000698		
OCDF	0.0000774			

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	90.5	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	79.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	75.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	83.5	23 - 140	
	13C-OCDD	73.0	17 - 157	
	13C-2,3,7,8-TCDF	86.2	24 - 169	
	13C-1,2,3,7,8-PeCDF	93.0	24 - 185	
	13C-2,3,4,7,8-PeCDF	95.7	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	73.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	68.7	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	73.1	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	74.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	75.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	82.2	26 - 138	
	13C-OCDF	70.3	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	97.5	35 - 197	

Totals			
Total TCDD	ND U	0.00000118	
Total PeCDD	ND U	0.00000190	
Total HxCDD	0.0000352		
Total HpCDD	0.000377		
Total TCDF	ND U	0.00000164	
Total PeCDF	ND UJ / * III		0.00000410
Total HxCDF	0.0000351		
Total HpCDF	0.000129		

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Level IV

Approved By: Martha M. Maier 09-Oct-2007 13:06

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TestAmerica, Inc. - Irvine
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Report ID: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

OUTFALL 004

IQI2055-01 7092405-01 (Water)

Date Sampled: 09/22/07 11:22

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 J/DNQ,R	**0.055**	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlp	J
Mercury, Total	**0.23**	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlp	

LEVEL IV

Weck Laboratories, Inc
Kim G Tu, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Routine Outfall 004
Report Number: IQI2055
OUTFALL 004

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

INORGANICS

Analyte		Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2055-01 (Outfall 004 - Water) - cont.										
Reporting Units: mg/l										
Chloride	*	EPA 300.0	7I24057	2.5	5.0	**53**	10	09/24/07	09/24/07	
Nitrate/Nitrite-N		EPA 300.0	7I24057	0.15	0.26	**3.2**	1	09/24/07	09/24/07	
Oil & Grease		EPA 413.1	7I25056	1.1	4.7	ND	1	09/25/07	09/25/07	
Sulfate		EPA 300.0	7I24057	0.20	0.50	**37**	1	09/24/07	09/24/07	
Total Dissolved Solids		SM2540C	7I27118	10	10	**360**	1	09/27/07	09/27/07	
Total Suspended Solids		EPA 160.2	7I25131	10	10	**170**	1	09/25/07	09/25/07	
Sample ID: IQI2055-01 (Outfall 004 - Water)										
Reporting Units: ug/l										
Perchlorate	V	EPA 314.0	7J03062	1.5	4.0	ND	1	10/03/07	10/04/07	

* Analysis not validated

LEVEL IV

TestAmerica - Irvine, CA

Joseph Doak
Project Manager

APPENDIX G

Section 6

Outfall 004, September 22, 2007

Test America Analytical Laboratory Report

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LABORATORY REPORT

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

Project: Routine Outfall 004

Sampled: 09/22/07
Received: 09/22/07
Issued: 10/16/07 09:29

NELAP #01108CA California ELAP#1197 CSDLAC #10256

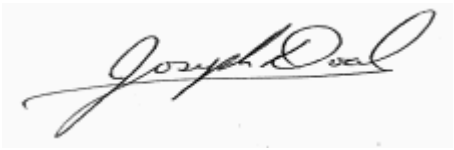
The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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 of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

LABORATORY ID	CLIENT ID	MATRIX
IQI2055-01	Outfall 004	Water

Reviewed By:



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Joseph Doak
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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

Project ID: Routine Outfall 004
Report Number: IQI2055

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

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2055-01 (Outfall 004 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	7I25136	0.20	2.0	**0.85**	1	09/25/07	09/26/07	Ja
Cadmium	EPA 200.8	7I25136	0.11	1.0	**0.15**	1	09/25/07	09/26/07	Ja
Copper	EPA 200.8	7I25136	0.75	2.0	**10**	1	09/25/07	09/26/07	
Lead	EPA 200.8	7I25136	0.10	1.0	**4.4**	1	09/25/07	09/26/07	
Thallium	EPA 200.8	7I25136	0.15	1.0	ND	1	09/25/07	09/26/07	

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Received: 09/22/07

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2055-01 (Outfall 004 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	7I24137	0.20	2.0	**0.93**	1	09/24/07	09/25/07	Ja
Cadmium	EPA 200.8-Diss	7I24137	0.11	1.0	ND	1	09/24/07	09/25/07	
Copper	EPA 200.8-Diss	7I24137	0.75	2.0	**3.8**	1	09/24/07	09/25/07	
Lead	EPA 200.8-Diss	7I24137	0.10	1.0	**0.25**	1	09/24/07	09/25/07	Ja
Thallium	EPA 200.8-Diss	7I24137	0.15	1.0	ND	1	09/24/07	09/25/07	

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INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2055-01 (Outfall 004 - Water) - cont.									
Reporting Units: mg/l									
Chloride	EPA 300.0	7I24057	2.5	5.0	**53**	10	09/24/07	09/24/07	
Nitrate/Nitrite-N	EPA 300.0	7I24057	0.15	0.26	**3.2**	1	09/24/07	09/24/07	
Oil & Grease	EPA 413.1	7I25056	1.1	4.7	ND	1	09/25/07	09/25/07	
Sulfate	EPA 300.0	7I24057	0.20	0.50	**37**	1	09/24/07	09/24/07	
Total Dissolved Solids	SM2540C	7I27118	10	10	**360**	1	09/27/07	09/27/07	
Total Suspended Solids	EPA 160.2	7I25131	10	10	**170**	1	09/25/07	09/25/07	
Sample ID: IQI2055-01 (Outfall 004 - Water)									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	7J03062	1.5	4.0	ND	1	10/03/07	10/04/07	

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Metals by EPA 200 Series Methods

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQI2055-01 (Outfall 004 - Water) - cont.									
Reporting Units: ug/l									
Mercury, Dissolved	EPA 245.1	W7I1160	0.025	0.10	**0.055**	1	09/27/07	09/27/07	J
Mercury, Total	EPA 245.1	W7I1160	0.025	0.10	**0.23**	1	09/27/07	09/27/07	

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Received: 09/22/07

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 004 (IQI2055-01) - Water					
EPA 300.0	2	09/22/2007 11:22	09/22/2007 16:05	09/24/2007 07:00	09/24/2007 09:43

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Report Number: IQI2055

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

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I25136 Extracted: 09/25/07											
Blank Analyzed: 09/26/2007 (7I25136-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/26/2007 (7I25136-BS1)											
Antimony	83.2	2.0	0.20	ug/l	80.0		104	85-115			
Cadmium	81.4	1.0	0.11	ug/l	80.0		102	85-115			
Copper	83.8	2.0	0.75	ug/l	80.0		105	85-115			
Lead	80.5	1.0	0.10	ug/l	80.0		101	85-115			
Thallium	84.6	1.0	0.15	ug/l	80.0		106	85-115			
Matrix Spike Analyzed: 09/26/2007 (7I25136-MS1)						**Source: IQI2053-01**					
Antimony	83.3	2.0	0.20	ug/l	80.0	0.569	103	70-130			
Cadmium	78.0	1.0	0.11	ug/l	80.0	ND	98	70-130			
Copper	80.0	2.0	0.75	ug/l	80.0	ND	100	70-130			
Lead	76.1	1.0	0.10	ug/l	80.0	ND	95	70-130			
Thallium	80.4	1.0	0.15	ug/l	80.0	ND	100	70-130			
Matrix Spike Analyzed: 09/26/2007 (7I25136-MS2)						**Source: IQI1869-04**					
Antimony	81.3	2.0	0.20	ug/l	80.0	0.881	101	70-130			
Cadmium	73.3	1.0	0.11	ug/l	80.0	ND	92	70-130			
Copper	82.3	2.0	0.75	ug/l	80.0	5.95	95	70-130			
Lead	70.4	1.0	0.10	ug/l	80.0	0.706	87	70-130			
Thallium	70.7	1.0	0.15	ug/l	80.0	ND	88	70-130			
Matrix Spike Dup Analyzed: 09/26/2007 (7I25136-MSD1)						**Source: IQI2053-01**					
Antimony	82.0	2.0	0.20	ug/l	80.0	0.569	102	70-130	2	20	
Cadmium	77.3	1.0	0.11	ug/l	80.0	ND	97	70-130	1	20	
Copper	78.7	2.0	0.75	ug/l	80.0	ND	98	70-130	2	20	
Lead	73.0	1.0	0.10	ug/l	80.0	ND	91	70-130	4	20	
Thallium	77.8	1.0	0.15	ug/l	80.0	ND	97	70-130	3	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24137 Extracted: 09/24/07											
Blank Analyzed: 09/25/2007 (7I24137-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.15	ug/l							
LCS Analyzed: 09/25/2007 (7I24137-BS1)											
Antimony	85.3	2.0	0.20	ug/l	80.0		107	85-115			
Cadmium	87.6	1.0	0.11	ug/l	80.0		110	85-115			
Copper	78.2	2.0	0.75	ug/l	80.0		98	85-115			
Lead	81.2	1.0	0.10	ug/l	80.0		102	85-115			
Thallium	80.8	1.0	0.15	ug/l	80.0		101	85-115			
Matrix Spike Analyzed: 09/25/2007 (7I24137-MS1)						**Source: IQI2053-01**					
Antimony	88.1	2.0	0.20	ug/l	80.0	0.630	109	70-130			
Cadmium	83.8	1.0	0.11	ug/l	80.0	ND	105	70-130			
Copper	76.1	2.0	0.75	ug/l	80.0	ND	95	70-130			
Lead	80.5	1.0	0.10	ug/l	80.0	0.157	100	70-130			
Thallium	79.5	1.0	0.15	ug/l	80.0	ND	99	70-130			
Matrix Spike Dup Analyzed: 09/25/2007 (7I24137-MSD1)						**Source: IQI2053-01**					
Antimony	88.4	2.0	0.20	ug/l	80.0	0.630	110	70-130	0	20	
Cadmium	83.0	1.0	0.11	ug/l	80.0	ND	104	70-130	1	20	
Copper	75.5	2.0	0.75	ug/l	80.0	ND	94	70-130	1	20	
Lead	80.1	1.0	0.10	ug/l	80.0	0.157	100	70-130	1	20	
Thallium	79.4	1.0	0.15	ug/l	80.0	ND	99	70-130	0	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I24057 Extracted: 09/24/07											
Blank Analyzed: 09/24/2007 (7I24057-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 09/24/2007 (7I24057-BS1)											
Chloride	4.85	0.50	0.25	mg/l	5.00		97	90-110			
Sulfate	9.78	0.50	0.20	mg/l	10.0		98	90-110			
Matrix Spike Analyzed: 09/24/2007 (7I24057-MS1)						**Source: IQI2057-01**					
Chloride	8.67	0.50	0.25	mg/l	5.00	4.37	86	80-120			
Sulfate	20.5	0.50	0.20	mg/l	10.0	11.3	92	80-120			
Matrix Spike Dup Analyzed: 09/24/2007 (7I24057-MSD1)						**Source: IQI2057-01**					
Chloride	8.64	0.50	0.25	mg/l	5.00	4.37	85	80-120	0	20	
Sulfate	20.5	0.50	0.20	mg/l	10.0	11.3	92	80-120	0	20	
Batch: 7I25056 Extracted: 09/25/07											
Blank Analyzed: 09/25/2007 (7I25056-BLK1)											
Oil & Grease	ND	5.0	1.2	mg/l							
LCS Analyzed: 09/25/2007 (7I25056-BS1)											**MNR1**
Oil & Grease	20.2	5.0	1.2	mg/l	20.0		101	65-120			
LCS Dup Analyzed: 09/25/2007 (7I25056-BSD1)											
Oil & Grease	20.0	5.0	1.2	mg/l	20.0		100	65-120	1	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7I25131 Extracted: 09/25/07											
Blank Analyzed: 09/25/2007 (7I25131-BLK1)											
Total Suspended Solids	ND	10	10	mg/l							
LCS Analyzed: 09/25/2007 (7I25131-BS1)											
Total Suspended Solids	1060	10	10	mg/l	1000		106	85-115			
Duplicate Analyzed: 09/25/2007 (7I25131-DUP1)						**Source: IQI1885-01**					
Total Suspended Solids	30.0	10	10	mg/l		28.0			7	10	
Batch: 7I27118 Extracted: 09/27/07											
Blank Analyzed: 09/27/2007 (7I27118-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 09/27/2007 (7I27118-BS1)											
Total Dissolved Solids	998	10	10	mg/l	1000		100	90-110			
Duplicate Analyzed: 09/27/2007 (7I27118-DUP1)						**Source: IQI2053-01**					
Total Dissolved Solids	589	10	10	mg/l		588			0	10	
Batch: 7J03062 Extracted: 10/03/07											
Blank Analyzed: 10/03/2007 (7J03062-BLK1)											
Perchlorate	ND	4.0	1.5	ug/l							
LCS Analyzed: 10/03/2007 (7J03062-BS1)											
Perchlorate	51.7	4.0	1.5	ug/l	50.0		103	85-115			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7J03062 Extracted: 10/03/07											
Matrix Spike Analyzed: 10/03/2007 (7J03062-MS1)						**Source: IQI2029-08**					
Perchlorate	47.0	4.0	1.5	ug/l	50.0	ND	94	80-120			
Matrix Spike Dup Analyzed: 10/03/2007 (7J03062-MSD1)						**Source: IQI2029-08**					
Perchlorate	49.7	4.0	1.5	ug/l	50.0	ND	99	80-120	6	20	

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METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

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

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IQI2055-01	413.1 Oil and Grease	Oil & Grease	mg/l	0.47	4.7	15
IQI2055-01	Antimony-200.8	Antimony	ug/l	0.85	2.0	6.00
IQI2055-01	Antimony-200.8, Diss	Antimony	ug/l	0.93	2.0	6.00
IQI2055-01	Cadmium-200.8	Cadmium	ug/l	0.15	1.0	4.00
IQI2055-01	Cadmium-200.8, Diss	Cadmium	ug/l	0.067	1.0	4.00
IQI2055-01	Chloride - 300.0	Chloride	mg/l	53	5.0	150
IQI2055-01	Copper-200.8	Copper	ug/l	10	2.0	14
IQI2055-01	Copper-200.8, Diss	Copper	ug/l	3.83	2.0	14
IQI2055-01	Lead-200.8	Lead	ug/l	4.43	1.0	5.20
IQI2055-01	Lead-200.8, Diss	Lead	ug/l	0.25	1.0	5.20
IQI2055-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	3.23	0.26	10.00
IQI2055-01	Sulfate-300.0	Sulfate	mg/l	37	0.50	250
IQI2055-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	359	10	850
IQI2055-01	Thallium-200.8	Thallium	ug/l	0.11	1.0	2.00
IQI2055-01	Thallium-200.8, Diss	Thallium	ug/l	0	1.0	2.00

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MWH-Pasadena/Boeing	Project ID: Routine Outfall 004	
618 Michillinda Avenue, Suite 200		Sampled: 09/22/07
Arcadia, CA 91007	Report Number: IQI2055	Received: 09/22/07
Attention: Bronwyn Kelly		

DATA QUALIFIERS AND DEFINITIONS

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
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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Certification Summary

TestAmerica - Irvine, CA

Method	Matrix	Nelac	California
EPA 160.2	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	N/A	X
EPA 413.1	Water	X	X
SM2540C	Water	X	X

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

Subcontracted Laboratories

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: IQI2055-01

Weck Laboratories, Inc
14859 E. Clark Avenue - City of Industry, CA 91745
Method Performed: EPA 245.1
Samples: IQI2055-01

TestAmerica - Irvine, CA

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IQI 2055

Test America Version 04/28/06

CHAIN OF CUSTODY FORM

IQI 2055

Client Name/Address:	Project:
MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Nicholas Marz	Boeing-SSFL NPDES **Routine Outfall 004** Stormwater at SRE-1
Project Manager: Bronwyn Kelly Sampler: Pollock	Phone Number: (626) 568-6691 Fax Number: (626) 568-6515

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle * #	ANALYSIS REQUIRED: Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl	TCDD (and all congeners)	Oil & Grease (EPA 413.1)	Cl-, SO4, NO3+NO2-N	TDS, TSS	Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl				Comments
Outfall 004	W	1L Poly	1	9-22-07 11:22	HNO3	1A	X									
Outfall 004-Dup	W	1L Poly	1		HNO3	1B	X									
Outfall 004	W	1L Amber	2		None	2A, 2B		X								
Outfall 004	W	1L Amber	2		HCl	3A, 3B			X							
Outfall 004	W	Poly-500 ml	2		None	4A, 4B				X						
Outfall 004	W	Poly-500 ml	2		None	5A, 5B					X					
Outfall 004	W	Poly-1L	1		None	6						X				Filter w/in 24hr of receipt at lab

Field readings:
Temp = 61.0
pH= 8.40
Sample Collection Time = 11:25

Relinquished By	Date/Time:	Received By	Date/Time:
[signature]	9-22-07 1350	Vin Pollock	9/22/07 1350
Vin Pollock	9/22/07 1605		9/22/07 1605
Relinquished By	Date/Time:	Received By	Date/Time:

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

NPDES-303

Vista
Analytical Laboratory

October 09, 2007

Vista Project I.D.: 29591

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

Dear Mr. Marz,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on September 25, 2007 under your Project Name "IQI2055". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A rush turnaround time was provided for this work.

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

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

Sincerely,

Martha M. Maier
Laboratory Director

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by 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: **9/25/2007**

Vista Lab. ID	Client Sample ID
29591-001	IQI2055-01

SECTION II

Method Blank **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9453	Lab Sample:	0-MB001
Sample Size:	1.00 L	Date Extracted:	6-Oct-07	Date Analyzed DB-5:	9-Oct-07
				Date Analyzed DB-225:	NA

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.000000567		
1,2,3,7,8-PeCDD	ND	0.000000789		
1,2,3,4,7,8-HxCDD	ND	0.00000150		
1,2,3,6,7,8-HxCDD	ND	0.000000769		
1,2,3,7,8,9-HxCDD	ND	0.000000741		
1,2,3,4,6,7,8-HpCDD	ND	0.00000168		
OCDD	0.0000168			J
2,3,7,8-TCDF	ND	0.000000781		
1,2,3,7,8-PeCDF	ND	0.000000768		
2,3,4,7,8-PeCDF	ND	0.000000724		
1,2,3,4,7,8-HxCDF	ND	0.00000102		
1,2,3,6,7,8-HxCDF	ND	0.000000993		
2,3,4,6,7,8-HxCDF	ND	0.00000106		
1,2,3,7,8,9-HxCDF	ND	0.00000140		
1,2,3,4,6,7,8-HpCDF	ND	0.00000208		
1,2,3,4,7,8,9-HpCDF	ND	0.00000199		
OCDF	ND	0.00000225		

Labeled Standard		%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	100	25 - 164	
	13C-1,2,3,7,8-PeCDD	108	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	99.0	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	96.9	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
	13C-OCDD	83.7	17 - 157	
	13C-2,3,7,8-TCDF	106	24 - 169	
	13C-1,2,3,7,8-PeCDF	112	24 - 185	
	13C-2,3,4,7,8-PeCDF	116	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	87.6	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	83.5	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	86.9	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	85.5	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	91.1	26 - 138	
	13C-OCDF	82.0	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	88.9	35 - 197	

Totals		
Total TCDD	ND	0.000000567
Total PeCDD	ND	0.000000789
Total HxCDD	ND	0.00000100
Total HpCDD	ND	0.00000168
Total TCDF	ND	0.000000781
Total PeCDF	ND	0.000000746
Total HxCDF	ND	0.00000112
Total HpCDF	ND	0.00000204

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: Martha M. Maier 09-Oct-2007 13:06

OPR Results **EPA Method 1613**

Matrix:	Aqueous	QC Batch No.:	9453	Lab Sample:	0-OPR001		
Sample Size:	1.00 L	Date Extracted:	6-Oct-07	Date Analyzed DB-5:	8-Oct-07	Date Analyzed DB-225:	NA

Analyte	Spike Conc.	Conc. (ng/mL)	OPR Limits		Labeled Standard	%R	LCL-UCL	Qualifier
2,3,7,8-TCDD	10.0	9.21	6.7 - 15.8	IS	13C-2,3,7,8-TCDD	93.5	25 - 164	
1,2,3,7,8-PeCDD	50.0	49.5	35 - 71		13C-1,2,3,7,8-PeCDD	94.6	25 - 181	
1,2,3,4,7,8-HxCDD	50.0	50.1	35 - 82		13C-1,2,3,4,7,8-HxCDD	95.7	32 - 141	
1,2,3,6,7,8-HxCDD	50.0	48.2	38 - 67		13C-1,2,3,6,7,8-HxCDD	91.7	28 - 130	
1,2,3,7,8,9-HxCDD	50.0	48.0	32 - 81		13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
1,2,3,4,6,7,8-HpCDD	50.0	49.8	35 - 70		13C-OCDD	102	17 - 157	
OCDD	100	99.0	78 - 144		13C-2,3,7,8-TCDF	92.5	24 - 169	
2,3,7,8-TCDF	10.0	9.46	7.5 - 15.8		13C-1,2,3,7,8-PeCDF	97.9	24 - 185	
1,2,3,7,8-PeCDF	50.0	47.2	40 - 67		13C-2,3,4,7,8-PeCDF	93.1	21 - 178	
2,3,4,7,8-PeCDF	50.0	48.3	34 - 80		13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152	
1,2,3,4,7,8-HxCDF	50.0	51.0	36 - 67		13C-1,2,3,6,7,8-HxCDF	87.1	26 - 123	
1,2,3,6,7,8-HxCDF	50.0	49.9	42 - 65		13C-2,3,4,6,7,8-HxCDF	89.5	28 - 136	
2,3,4,6,7,8-HxCDF	50.0	50.4	35 - 78		13C-1,2,3,7,8,9-HxCDF	89.9	29 - 147	
1,2,3,7,8,9-HxCDF	50.0	49.4	39 - 65		13C-1,2,3,4,6,7,8-HpCDF	91.5	28 - 143	
1,2,3,4,6,7,8-HpCDF	50.0	53.6	41 - 61		13C-1,2,3,4,7,8,9-HpCDF	104	26 - 138	
1,2,3,4,7,8,9-HpCDF	50.0	50.2	39 - 69		13C-OCDF	97.4	17 - 157	
OCDF	100	99.4	63 - 170	CRS	37Cl-2,3,7,8-TCDD	83.7	35 - 197	

Analyst: JMH

Approved By: Martha M. Maier 09-Oct-2007 13:06

Sample ID: **IQI2055-01** **EPA Method 1613**

Client Data		Sample Data		Laboratory Data			
Name:	TestAmerica	Matrix:	Aqueous	Lab Sample:	29591-001	Date Received:	25-Sep-07
Project:	IQI2055	Sample Size:	1.01 L	QC Batch No.:	9453	Date Extracted:	6-Oct-07
Date Collected:	22-Sep-07			Date Analyzed DB-5:	8-Oct-07	Date Analyzed DB-225:	NA
Time Collected:	1122						

Analyte	Conc. (ug/L)	DL [a]	EMPC [b]	Qualifiers
2,3,7,8-TCDD	ND	0.00000118		
1,2,3,7,8-PeCDD	ND	0.00000190		
1,2,3,4,7,8-HxCDD	0.00000223			J
1,2,3,6,7,8-HxCDD	0.00000653			J
1,2,3,7,8,9-HxCDD	0.00000226			J
1,2,3,4,6,7,8-HpCDD	0.000186			
OCDD	0.00336			B
2,3,7,8-TCDF	ND	0.00000164		
1,2,3,7,8-PeCDF	ND	0.00000190		
2,3,4,7,8-PeCDF	ND	0.00000174		
1,2,3,4,7,8-HxCDF	ND	0.00000358		
1,2,3,6,7,8-HxCDF	ND	0.00000371		
2,3,4,6,7,8-HxCDF	ND	0.00000395		
1,2,3,7,8,9-HxCDF	ND	0.00000499		
1,2,3,4,6,7,8-HpCDF	0.0000332			
1,2,3,4,7,8,9-HpCDF	ND	0.00000698		
OCDF	0.0000774			

	Labeled Standard	%R	LCL-UCL [d]	Qualifiers
IS	13C-2,3,7,8-TCDD	85.6	25 - 164	
	13C-1,2,3,7,8-PeCDD	90.5	25 - 181	
	13C-1,2,3,4,7,8-HxCDD	79.3	32 - 141	
	13C-1,2,3,6,7,8-HxCDD	75.5	28 - 130	
	13C-1,2,3,4,6,7,8-HpCDD	83.5	23 - 140	
	13C-OCDD	73.0	17 - 157	
	13C-2,3,7,8-TCDF	86.2	24 - 169	
	13C-1,2,3,7,8-PeCDF	93.0	24 - 185	
	13C-2,3,4,7,8-PeCDF	95.7	21 - 178	
	13C-1,2,3,4,7,8-HxCDF	73.7	26 - 152	
	13C-1,2,3,6,7,8-HxCDF	68.7	26 - 123	
	13C-2,3,4,6,7,8-HxCDF	73.1	28 - 136	
	13C-1,2,3,7,8,9-HxCDF	74.8	29 - 147	
	13C-1,2,3,4,6,7,8-HpCDF	75.4	28 - 143	
	13C-1,2,3,4,7,8,9-HpCDF	82.2	26 - 138	
	13C-OCDF	70.3	17 - 157	
CRS	37Cl-2,3,7,8-TCDD	97.5	35 - 197	

Totals			
Total TCDD	ND	0.00000118	
Total PeCDD	ND	0.00000190	
Total HxCDD	0.0000352		
Total HpCDD	0.000377		
Total TCDF	ND	0.00000164	
Total PeCDF	ND		0.00000410
Total HxCDF	0.0000351		
Total HpCDF	0.000129		

Footnotes

a. Sample specific estimated detection limit.

b. Estimated maximum possible concentration.

c. Method detection limit.

d. Lower control limit - upper control limit.

Analyst: JMH

Approved By: Martha M. Maier 09-Oct-2007 13:06

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQI2055

29591

0.4

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone :(916) 673-1520
Fax: (916) 673-0106
Project Location: California
Receipt Temperature: 0.4 °C Ice: (Y) N

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2055-01	**Water**		Sampled: **09/22/07 11:22**	**temp=61.0, pH=8.40**
1613-Dioxin-HR-Alta	ug/l	10/01/07	09/29/07 11:22	J flags,17 congeners,no TEQ,ug/L,sub=Vista

Containers Supplied:

1 L Amber (C) 1 L Amber (D)

Released By	Date/Time	Received By	Date/Time
	9-24-07/17:40	Bethania Benedict	9/25/07 1241

SAMPLE LOG-IN CHECKLIST

Vista Analytical Laboratory

Vista Project #: 29591 TAT unspecified

Samples Arrival:	**Date/Time** 9/25/07 0836	**Initials:** BSB	**Location:** WR-2 **Shelf/Rack:** N/A
Logged In:	**Date/Time** 9/25/07 1800	**Initials:** BSB	**Location:** WR-2 **Shelf/Rack:** B-4

Delivered By:	(FedEx)	UPS	Cal	DHL	Hand Delivered	Other
Preservation:	(Ice)	Blue Ice	Dry Ice	None		
Temp °C 0.4	**Time:** 0848		**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 # 790344101655	✓		
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?			✓

$Na_2S_2O_3$ Preservation Documented?		COC	Sample Container	(None)	
Shipping Container	Vista	(Client)	Retain	(Return)	Dispose

Comments:

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

14859 E. Clark Ave., Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634
info@wecklabs.com www.wecklabs.com

CERTIFICATE OF ANALYSIS

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

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

Report Date: 09/28/07 15:36
Received Date: 09/24/07 09:00
Turn Around: Normal

Work Order #: 7092405

Client Project: IQI2055

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

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

Dear Nicholas Marz :

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

Reviewed by:

Kim G Tu
Project Manager

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: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Laboratory	Matrix	Date Sampled
IQI2055-01	Client		7092405-01	Water	09/22/07 11:22

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: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

IQI2055-01 7092405-01 (Water) Date Sampled: 09/22/07 11:22

Metals by EPA 200 Series Methods

Analyte	Result	MDL	Units	Reporting Limit	Dilution Factor	Method	Batch Number	Date Prepared	Date Analyzed		Data Qualifiers
Mercury, Dissolved	**0.055**	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlp	J
Mercury, Total	**0.23**	0.025	ug/l	0.10	1	EPA 245.1	W7I1160	09/27/07	09/27/07	jlp	

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: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

QUALITY CONTROL SECTION

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

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

Report ID: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch W7I1160 - EPA 245.1										
Blank (W7I1160-BLK1)				Analyzed: 09/27/07						
Mercury, Total	ND	0.10	ug/l							
Mercury, Dissolved	ND	0.10	ug/l							
LCS (W7I1160-BS1)				Analyzed: 09/27/07						
Mercury, Total	1.05	0.10	ug/l	1.00		105	85-115			
Mercury, Dissolved	1.05	0.10	ug/l	1.00		105	85-115			
Matrix Spike (W7I1160-MS1)	**Source: 7092457-10**			Analyzed: 09/27/07						
Mercury, Total	1.07	0.10	ug/l	1.00	ND	107	70-130			
Mercury, Dissolved	1.07	0.10	ug/l	1.00	ND	107	70-130			
Matrix Spike (W7I1160-MS2)	**Source: 7092457-11**			Analyzed: 09/27/07						
Mercury, Total	1.04	0.10	ug/l	1.00	ND	104	70-130			
Mercury, Dissolved	1.04	0.10	ug/l	1.00	ND	104	70-130			
Matrix Spike Dup (W7I1160-MSD1)	**Source: 7092457-10**			Analyzed: 09/27/07						
Mercury, Total	1.05	0.10	ug/l	1.00	ND	105	70-130	2	20	
Mercury, Dissolved	1.05	0.10	ug/l	1.00	ND	105	70-130	2	20	
Matrix Spike Dup (W7I1160-MSD2)	**Source: 7092457-11**			Analyzed: 09/27/07						
Mercury, Total	1.04	0.10	ug/l	1.00	ND	104	70-130	0	20	
Mercury, Dissolved	1.04	0.10	ug/l	1.00	ND	104	70-130	0	20	

Weck Laboratories, Inc.
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: 7092405
Project ID: IQI2055

Date Received: 09/24/07 09:00
Date Reported: 09/28/07 15:36

Notes and Definitions

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

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

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

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

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

SUBCONTRACT ORDER

TestAmerica - Irvine, CA

IQI2055 7092405

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

Analysis	Units	Due	Expires	Comments
Sample ID: IQI2055-01	**Water**		Sampled: **09/22/07 11:22**	**temp=61.0, pH=8.40**
Level 4 Data Package - Wec	N/A	10/01/07	10/20/07 11:22	
Mercury - 245.1, Diss -OUT	mg/l	10/01/07	10/20/07 11:22	Weck, Boeing, J flags
Mercury - 245.1-OUT	mg/l	10/01/07	10/20/07 11:22	Weck,Boeing, permit, J flags, if result>ND,call TA

Containers Supplied:

125 mL Poly w/HNO3 (L)
~~500~~ 125 mL Poly w/HNO3 (M)

Released By — Date/Time 9/24/7 900

Released By — Date/Time

Received By — Date/Time 9/24/7 705

Received By — Date/Time 9/24/07 900

2.5°

NPDES-321