

APPENDIX G

Section 3

Outfall 001 - February 6, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITB0887

Prepared by

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

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES
 Contract Task Order: 1261.100D.00
 Sample Delivery Group: ITB0887
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 4
 No. of Reanalyses/Dilutions: 1
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

<i>Client ID</i>	<i>Laboratory ID</i>	<i>Sub-Laboratory ID</i>	<i>Matrix</i>	<i>Collected</i>	<i>Method</i>
Outfall 001 (Grab)	ITB0887-01		Water	2/5/10 1:40 PM	120.1, 8015M
Trip Blank	ITB0887-02		Water	2/6/10 11:15 AM	624
Outfall 001	ITB0887-04RE1	G0B100422-001	Water	2/6/10 11:15 AM	1613B
Outfall 001 (Comp)	ITB0887-04	G0B100422-001, F0B090486-001, 987726	Water	2/5/10 1:40 PM	180.1, 200.7, 200.7 (Diss), 200.8, 200.8 (Diss), 245.1, 245.1 (Diss), 625, 900.0, 901.1, 903.0, 904, 905, 906.0, 1613B, 8315M, SM2340B, SM2340B (Diss), SM2540D, SM5310B, ASTM 5174-91
Outfall 001 (Composite) Dup	ITB0887-05		Water	2/6/2010 6:40:00 AM	SM2340B

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at ambient temperature at TestAmerica-St. Louis and although the case narrative reported that the samples were received with the temperature limits at Truesdail, the sample receiving documentation noted the temperature to be 14°C. Due to the non volatile nature of these analytes, no qualifications were required. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact at TestAmerica-St. Louis and TestAmerica-West Sacramento. As the samples were delivered by courier to the remaining laboratories, no custody seals were required. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	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: L. Calvin

Date Reviewed: March 27, 2010

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 (9/05)*.

- 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 analyzed with the initial calibration sequence and at the beginning of each analytical sequence. 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 $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the 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 detects between the EDL and the RL for all target compounds except 2,3,7,8-TCDD, 1,2,3,7,8-PeCDF, and 2,3,4,7,8-PeCDF. Most detects in the method blank did not meet ratio criteria and were reported as EMPCs; however, due to the extent of contamination present in the method blank, it was the reviewer's professional opinion that those results be utilized to qualify applicable sample results.

Isomers present in the sample between the EDLs and RLs were qualified as nondetected, "U," at the levels of contamination. The sample results for totals HpCDD and TCDF were qualified as nondetected, "U," as the same peaks comprising the totals were present in the method blank. Total PeCDF in the sample did not contain the same peaks as the method blank and was therefore not qualified. Remaining total results were qualified as estimated, "J," as only a portion of the total was considered method blank contamination. The method blank result for OCDD was insufficient to qualify the sample result.

- Blank Spikes and Laboratory Control Samples: OPR 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. The laboratory performed a confirmation analysis for 2,3,7,8-TCDF; however, as the initial result was previously qualified as nondetected for method blank contamination, the confirmation result was rejected, "R," in favor of the original result.
- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of reportable sample results. Any isomers reported as EMPCs and not previously qualified as method blank contamination were qualified as estimated and nondetected, "UJ," at the level of the EMPC. Any total results reported as EMPCs or including EMPCs were qualified as estimated, "J." Any detects reported below the EDL, or between the estimated detection limit (EDL) and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHOD 8315M—Hydrazines

Reviewed By: P. Meeks

Date Reviewed: March 23, 2010

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 Method 8315M*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was derivitized within three days of collection and analyzed within 3 days of derivitization.
- Calibration: Calibration criteria were met. The initial calibration r^2 values were ≥ 0.995 . The ICV and QCS recoveries were within 85-115%.
- Blanks: The method blank had no target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on LCS/LCSD results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any results reported between the MDL and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

C. EPA METHODS 200.7, 200.8, and 245.1—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: March 21, 2010

The sample listed in Table 1 for these analyses 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 Methods 200.7, 200.8, 245.1*, and *SM2340B*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.
- Tuning: The measured mass for beryllium was >0.1 amu from the true value in the analytical sequence associated with dissolved copper. As the mass of copper is closer to the mass of magnesium, which was acceptably measured, no qualifications were required. The remaining mass calibration and resolution checks criteria were met. All tuning solution %RSDs were ≤5%, and all masses of interest were calibrated to ≤ 0.1 amu and ≤0.9 amu at 10% peak height.
- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. CRDL/CRI recoveries were within the control limits of 70-130%.
- Blanks: Boron was detected in the dissolved method blank at 45.3 µg/L; therefore, dissolved boron detected in the sample was qualified as nondetected, "U," at the level of contamination. Method blanks and CCBs had no other applicable detects.
- Interference Check Samples: Recoveries were within the method- (200.7) or laboratory- (200.8) established control limits, except for potassium in the ICSAB 200.7 total analysis. As the concentration of potassium in the site sample was less than 5% of the ICSAB concentration, no qualifications were required. Boron was reported in the ICSAs associated with the total and dissolved analyses at -41 and -75 µg/L, respectively; however, the concentration of the interfering analyte, iron, was not sufficient to cause matrix interference in the site sample. Most analytes were detected in the 200.8 ICSA; however the reviewer was unable to determine if these detects were due to level contamination of the standard. There were no other target compounds present in the ICSA solution at concentrations indicative of matrix interference.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.

- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the 200.7 total and dissolved analytes. The recoveries and RPDs were within method-established QC limits. Method accuracy for the remaining analytes was evaluated based on LCS results.
- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.
- Internal Standards Performance: All sample internal standard intensities were within 60-125% of the internal standard intensities measured in the initial calibration blank. Copper was not bracketed by an internal standard of lower mass; therefore, copper detected in the sample was qualified as estimated, "J."
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. The 200.8 analytes were reported from a 2x dilution due to matrix interference. Dissolved chromium was not reported on the sample result summary or the QC summaries. Dissolved chromium was not detected in the dissolved fraction and all QC results were acceptable.

When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," 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.

D. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: March 23, 2010

The samples listed in Table 1 for these analyses were validated based on the guidelines outlined in the *EPA Methods 900.0, 901.1, 903.1, 904.0, 905.0, and 906.0, ASTM Method D-5174*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- Holding Times: The aliquots for total uranium and radium-228 were prepared beyond 3x the five-day holding time for unpreserved samples; therefore, total uranium in the sample

was qualified as estimated, "J," and nondetected radium-228 was rejected, "R." Aliquots for gross alpha and gross beta were prepared beyond the five-day analytical holding time for unpreserved samples; therefore, the detected results for these analytes were qualified as estimated, "J." Aliquots for radium-226, strontium-90, and gamma spectroscopy were prepared within the five-day holding time for unpreserved aqueous samples. The tritium sample was analyzed within 180 days of collection.

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha and radium-226 detector efficiencies were less than 20%; therefore, the results for these analytes were qualified as estimated, "J," for detects and, "UJ," for nondetects. The remaining detector efficiencies were greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yields were at least 40% and were considered acceptable. The gamma spectroscopy analytes were determined at the maximum photopeak energy. The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All KPA calibration check standard recoveries were within 90-110% and were deemed acceptable.

The reviewer noted that the KPA preparation log was not signed as reviewed.

- Blanks: Tritium was detected in the method blank but was not detected in the site samples. There were no other analytes detected in the method blanks or the KPA CCBs.
- Blank Spikes and Laboratory Control Samples: The recoveries and radium-228 RPD were within laboratory-established control limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed for the sample in this SDG. Method accuracy was evaluated based on the LCS results.
- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Any detects between the MDA and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. 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.

E. EPA METHOD 625—Semivolatile Organic Compounds (SVOCs)

Reviewed By: P. Meeks

Date Reviewed: March 23, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 625*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within seven days of collection and analyzed within 40 days of extraction.
- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The sample was analyzed within 12 hours of the DFTPP injection time.
- Calibration: Calibration criteria were met. The %RSD for di-n-octyl phthalate exceeded the control limit and the r^2 value for benzoic acid was less than the control limit; therefore, the nondetected results for these compounds were qualified as estimated, "UJ." Initial calibration average RRFs were ≥ 0.05 and the remaining %RSDs $\leq 15\%$ or r^2 values were ≥ 0.995 . The second source ICV had %Ds above 20% for benzyl alcohol, hexachlorobutadiene, 2,4-dinitrophenol, pentachlorophenol, 4,6-dinitro-2-methylphenol, and n-nitrosodiphenylamine; therefore, the nondetected results for these compound were qualified as estimated, "UJ." The ICV RRFs were ≥ 0.05 and the remaining %Ds $\leq 20\%$. The continuing calibration associated with the sample analysis had %Ds above 20% for benzoic acid, hexachlorocyclopentadiene, and di-n-octyl phthalate; therefore, the nondetected results for these compounds were qualified as estimated, "UJ." The continuing calibration RRFs were ≥ 0.05 and the remaining %Ds $\leq 20\%$.
- Blanks: The reviewer noted an unreported detect for n-nitrosodimethylamine in the method blank at 0.60 $\mu\text{g/L}$; however, the analyte was not detected in the site sample. Method blanks had no other target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- 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.

- **Field QC Samples:** Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - **Field Blanks and Equipment Rinsates:** This SDG had no identified field blank or equipment rinsate samples.
 - **Field Duplicates:** There were no field duplicate samples identified for this SDG.
- **Internal Standards Performance:** The internal standard area counts and retention times were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and ± 30 seconds for retention times.
- **Compound Identification:** Compound identification was verified. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.
- **Compound Quantification and Reported Detection Limits:** Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.
- **Tentatively Identified Compounds:** TICs were not reported by the laboratory for this SDG.
- **System Performance:** Review of the raw data indicated no problems with system performance.

F. EPA METHOD 8015B—Extractable Total Fuel Hydrocarbons (EFHs)

Reviewed By: P. Meeks

Date Reviewed: March 23, 2010

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Total Fuel Hydrocarbons (DVP-8, Rev. 0)*, *EPA Method 8015B*, and the *National Functional Guidelines for Organic Data Review (2/94)*.

- **Holding Times:** Extraction and analytical holding times were met. The water sample was extracted within 14 days of collection and analyzed within 40 days of extraction.
- **Calibration:** Calibration criteria were met. Initial calibration %RSDs were $\leq 20\%$ and continuing calibration %Ds $\leq 15\%$.
- **Blanks:** The method blank had no target compound detect above the MDL.

- Blank Spikes and Laboratory Control Samples: The recovery was within laboratory-established QC limits.
- Surrogate Recovery: The recovery was within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were not performed on the sample from this SDG. Evaluation of method accuracy was based on the LCS results.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Compound Identification: Compound identification was verified. GRO (C4-C12) was reported. Review of the sample chromatogram and retention times indicated no problems with target compound identification.
- Compound Quantification and Reported Detection Limits: Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Any result reported between the MDL and the reporting limit was qualified as estimated, "J," and coded with "DNQ" in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

G. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: March 23, 2010

The samples listed in Table 1 for these analyses were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Methods 120.1, 180.1, SM2540D, SM5310B*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: All analytical holding times were met.
- Calibration: Calibration criteria were met. Initial calibration r^2 values were ≥ 0.995 and all initial and continuing calibration recoveries were within 90-110%. Balance calibration check logs were acceptable.
- Blanks: Method blanks and CCBs had no detects.

- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: A laboratory duplicate analysis was performed for specific conductance. The RPD was within the laboratory-established control limit.
- 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. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either “J+” or “J-”; otherwise, bias was not indicated in the qualification.

In order to report the result within the linear range of the calibration, turbidity was reported from a 10× dilution. Any detects between the method detection limit and the reporting limit were qualified as estimated, “J,” 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.

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Client: Test America - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

REPORT

Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ITB0887
Project Number: ITB0887
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines

Laboratory No: 987726
Report Date: February 11, 2010
Sampling Date: February 6, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	ND	ND	ND	None
987726 <i>Outfall 001</i>	ITB0887-04	100	1	ND	ND	ND	None
MDL				0.857	1.42	0.452	
PQL				5.0	5.0	1.00	
Sample Reporting Limits				5.0	5.0	1.00	

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

LEVEL IV

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

**Analysis not validated*

PM 3/29/10

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

Validated Sample Result Forms ITB0887

Analysis Method *ASTM 5174-91*

Sample Name Outfall 001 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	0.369	0.693	0.21	pCi/L	Jb	J	H, DNQ

Analysis Method *EPA 120.1*

Sample Name Outfall 001 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0887-01 **Sample Date:** 2/6/2010 10:20:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	130	1.0	1.0	uS/cm			

Analysis Method *EPA 180.1*

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	160	10	0.40	NTU			

Analysis Method EPA 200.7

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Barium	7440-39-3	0.076	0.010	0.0060	mg/l			
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	0.042	0.050	0.020	mg/l	Ja	J	DNQ
Calcium	7440-70-2	13	0.10	0.050	mg/l	MHA		
Chromium	7440-47-3	11	5.0	2.0	ug/l			
Cobalt	7440-48-4	2.5	10	2.0	ug/l	Ja	J	DNQ
Iron	7439-89-6	9.7	0.040	0.015	mg/l	MHA		
Magnesium	7439-95-4	5.4	0.020	0.012	mg/l			
Manganese	7439-96-5	150	20	7.0	ug/l			
Nickel	7440-02-0	6.1	10	2.0	ug/l	Ja	J	DNQ
Vanadium	7440-62-2	20	10	3.0	ug/l			
Zinc	7440-66-6	34	20	6.0	ug/l			

Analysis Method EPA 200.7-Diss

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	ND	10	7.0	ug/l		U	
Barium	7440-39-3	0.015	0.010	0.0060	mg/l			
Beryllium	7440-41-7	ND	2.0	0.90	ug/l		U	
Boron	7440-42-8	ND	0.070	0.020	mg/l	B	U	B
Calcium	7440-70-2	11	0.10	0.050	mg/l	MHA		
Cobalt	7440-48-4	ND	10	2.0	ug/l		U	
Iron	7439-89-6	0.64	0.040	0.015	mg/l			
Magnesium	7439-95-4	3.2	0.020	0.012	mg/l			
Manganese	7439-96-5	ND	20	7.0	ug/l		U	
Nickel	7440-02-0	ND	10	2.0	ug/l		U	
Vanadium	7440-62-2	ND	10	3.0	ug/l		U	
Zinc	7440-66-6	10	20	6.0	ug/l	Ja	J	DNQ

Analysis Method EPA 200.8

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	ND	4.0	0.60	ug/l	RL1	U	
Cadmium	7440-43-9	ND	2.0	0.20	ug/l	RL1	U	
Copper	7440-50-8	14.3	4.0	1.0	ug/l		J	*III
Lead	7439-92-1	6.4	2.0	0.40	ug/l			
Selenium	7782-49-2	1.3	4.0	1.0	ug/l	RL1, Ja	J	DNQ
Silver	7440-22-4	ND	2.0	0.20	ug/l	RL1	U	
Thallium	7440-28-0	ND	2.0	0.40	ug/l	RL1	U	

Analysis Method EPA 200.8-Diss

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Antimony	7440-36-0	ND	2.0	0.30	ug/l		U	
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		U	
Copper	7440-50-8	2.3	2.0	0.50	ug/l		J	*III
Lead	7439-92-1	ND	1.0	0.20	ug/l		U	
Selenium	7782-49-2	ND	2.0	0.50	ug/l		U	
Silver	7440-22-4	ND	1.0	0.10	ug/l		U	
Thallium	7440-28-0	ND	1.0	0.20	ug/l		U	

Analysis Method EPA 245.1

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 245.1-Diss

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.20	0.10	ug/l		U	

Analysis Method EPA 625

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,4-Trichlorobenzene	120-82-1	ND	0.94	0.094	ug/l		U	
1,2-Dichlorobenzene	95-50-1	ND	0.47	0.094	ug/l		U	
1,2-Diphenylhydrazine/Azobenzene	103-33-3	ND	0.94	0.094	ug/l		U	
1,3-Dichlorobenzene	541-73-1	ND	0.47	0.094	ug/l		U	
1,4-Dichlorobenzene	106-46-7	ND	0.47	0.19	ug/l		U	
2,4,5-Trichlorophenol	95-95-4	ND	1.9	0.19	ug/l		U	
2,4,6-Trichlorophenol	88-06-2	ND	0.94	0.094	ug/l		U	
2,4-Dichlorophenol	120-83-2	ND	1.9	0.19	ug/l		U	
2,4-Dimethylphenol	105-67-9	ND	1.9	0.28	ug/l		U	
2,4-Dinitrophenol	51-28-5	ND	4.7	0.85	ug/l		UJ	C
2,4-Dinitrotoluene	121-14-2	ND	4.7	0.19	ug/l		U	
2,6-Dinitrotoluene	606-20-2	ND	4.7	0.094	ug/l		U	
2-Chloronaphthalene	91-58-7	ND	0.47	0.094	ug/l		U	
2-Chlorophenol	95-57-8	ND	0.94	0.19	ug/l		U	
2-Methylnaphthalene	91-57-6	ND	0.94	0.094	ug/l		U	
2-Methylphenol	95-48-7	ND	1.9	0.094	ug/l		U	
2-Nitroaniline	88-74-4	ND	4.7	0.094	ug/l		U	
2-Nitrophenol	88-75-5	ND	1.9	0.094	ug/l		U	
3,3'-Dichlorobenzidine	91-94-1	ND	4.7	4.7	ug/l		U	
3-Nitroaniline	99-09-2	ND	4.7	0.19	ug/l		U	
4,6-Dinitro-2-methylphenol	534-52-1	ND	4.7	0.19	ug/l		UJ	C
4-Bromophenyl phenyl ether	101-55-3	ND	0.94	0.094	ug/l		U	
4-Chloro-3-methylphenol	59-50-7	ND	1.9	0.19	ug/l		U	
4-Chloroaniline	106-47-8	ND	1.9	0.094	ug/l		U	
4-Chlorophenyl phenyl ether	7005-72-3	ND	0.47	0.094	ug/l		U	
4-Methylphenol	106-44-5	ND	4.7	0.19	ug/l		U	
4-Nitroaniline	100-01-6	ND	4.7	0.47	ug/l		U	
4-Nitrophenol	100-02-7	ND	4.7	2.4	ug/l		U	
Acenaphthene	83-32-9	ND	0.47	0.094	ug/l		U	
Acenaphthylene	208-96-8	ND	0.47	0.094	ug/l		U	
Aniline	62-53-3	ND	9.4	0.28	ug/l		U	
Anthracene	120-12-7	ND	0.47	0.094	ug/l		U	
Benzidine	92-87-5	ND	4.7	4.7	ug/l		U	
Benzo(a)anthracene	56-55-3	ND	4.7	0.094	ug/l		U	
Benzo(a)pyrene	50-32-8	ND	1.9	0.094	ug/l		U	

Analysis Method *EPA 625*

Benzo(b)fluoranthene	205-99-2	ND	1.9	0.094	ug/l		U	
Benzo(g,h,i)perylene	191-24-2	ND	4.7	0.094	ug/l		U	
Benzo(k)fluoranthene	207-08-9	ND	0.47	0.094	ug/l		U	
Benzoic acid	65-85-0	ND	19	2.8	ug/l		UJ	C
Benzyl alcohol	100-51-6	ND	4.7	0.094	ug/l		UJ	C
Bis(2-chloroethoxy)methane	111-91-1	ND	0.47	0.094	ug/l		U	
Bis(2-chloroethyl)ether	111-44-4	ND	0.47	0.094	ug/l		U	
Bis(2-chloroisopropyl)ether	108-60-1	ND	0.47	0.094	ug/l		U	
Bis(2-ethylhexyl)phthalate	117-81-7	ND	4.7	1.6	ug/l		U	
Butyl benzyl phthalate	85-68-7	ND	4.7	0.66	ug/l		U	
Chrysene	218-01-9	ND	0.47	0.094	ug/l		U	
Dibenz(a,h)anthracene	53-70-3	ND	0.47	0.094	ug/l		U	
Dibenzofuran	132-64-9	ND	0.47	0.094	ug/l		U	
Diethyl phthalate	84-66-2	0.13	0.94	0.094	ug/l	Ja	J	DNQ
Dimethyl phthalate	131-11-3	ND	0.47	0.094	ug/l		U	
Di-n-butyl phthalate	84-74-2	ND	1.9	0.19	ug/l		U	
Di-n-octyl phthalate	117-84-0	ND	4.7	0.094	ug/l		UJ	C
Fluoranthene	206-44-0	ND	0.47	0.094	ug/l		U	
Fluorene	86-73-7	ND	0.47	0.094	ug/l		U	
Hexachlorobenzene	118-74-1	ND	0.94	0.094	ug/l		U	
Hexachlorobutadiene	87-68-3	ND	1.9	0.19	ug/l		UJ	C
Hexachlorocyclopentadiene	77-47-4	ND	4.7	0.094	ug/l		UJ	C
Hexachloroethane	67-72-1	ND	2.8	0.19	ug/l		U	
Indeno(1,2,3-cd)pyrene	193-39-5	ND	1.9	0.094	ug/l		U	
Isophorone	78-59-1	ND	0.94	0.094	ug/l		U	
Naphthalene	91-20-3	ND	0.94	0.094	ug/l		U	
Nitrobenzene	98-95-3	ND	0.94	0.094	ug/l		U	
N-Nitrosodimethylamine	62-75-9	ND	1.9	0.094	ug/l		U	
N-Nitroso-di-n-propylamine	621-64-7	ND	1.9	0.094	ug/l		U	
N-Nitrosodiphenylamine	86-30-6	ND	0.94	0.094	ug/l		UJ	C
Pentachlorophenol	87-86-5	ND	1.9	0.094	ug/l		UJ	C
Phenanthrene	85-01-8	ND	0.47	0.094	ug/l		U	
Phenol	108-95-2	ND	0.94	0.28	ug/l		U	
Pyrene	129-00-0	ND	0.47	0.094	ug/l		U	

Analysis Method EPA 8015 Mod.

Sample Name	Outfall 001 (Grab)	Matrix Type:	Water	Validation Level:	IV			
Lab Sample Name:	ITB0887-01	Sample Date:	2/6/2010 10:20:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
GRO (C4 - C12)	8006-61-9	25	100	25	ug/l	Ja	J	DNQ

Analysis Method EPA 900.0 MOD

Sample Name	Outfall 001 (Composite)	Matrix Type:	WATER	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	6.9	3	1.6	pCi/L		J	H,C
Gross Beta	12587-47-2	8.1	4	1.2	pCi/L		J	H

Analysis Method EPA 901.1 MOD

Sample Name	Outfall 001 (Composite)	Matrix Type:	WATER	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	1.3	20	15	pCi/L	U	U	
Potassium 40	13966-00-2	-180	0	290	pCi/L	U	U	

Analysis Method EPA 903.0 MOD

Sample Name	Outfall 001 (Composite)	Matrix Type:	WATER	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.06	1	0.21	pCi/L	U	UJ	C

Analysis Method EPA 904 MOD

Sample Name	Outfall 001 (Composite)	Matrix Type:	WATER	Validation Level:	IV			
Lab Sample Name:	ITB0887-04RE1	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.18	1	0.41	pCi/L	U	R	H

Analysis Method *EPA 905 MOD*

Sample Name Outfall 001 (Composite) **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium 90	10098-97-2	-0.24	3	0.64	pCi/L	U	U	

Analysis Method *EPA 906.0 MOD*

Sample Name Outfall 001 (Composite) **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	65	500	96	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name Outfall 001 (Composite) **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	ND	0.000047	0.0000018	ug/L	J, Ba	U	B
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	0.000047	0.0000017	ug/L	J, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000012	0.0000025	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8-HxCDD	39227-28-6	ND	0.00001	0.0000022	ug/L	J, Q, Ba	U	B
1,2,3,4,7,8-HxCDF	70648-26-9	ND	0.000047	0.0000013	ug/L	J, Ba	U	B
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.000011	0.000002	ug/L	J, Q, Ba	U	B
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.0000088	0.0000012	ug/L	J, Q, Ba	U	B
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.000047	0.0000019	ug/L	J, Ba	U	B
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.000047	0.0000015	ug/L	J, Ba	U	B
1,2,3,7,8-PeCDD	40321-76-4	ND	0.000047	0.0000023	ug/L	J, Ba	U	B
1,2,3,7,8-PeCDF	57117-41-6	0.000006	0.000047	0.0000012	ug/L	J	J	DNQ
2,3,4,6,7,8-HxCDF	60851-34-5	ND	0.0000099	0.0000012	ug/L	J, Q, Ba	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	0.0000082	0.0000015	ug/L	J, Q	UJ	*III
2,3,7,8-TCDD	1746-01-6	ND	0.0000094	0.0000014	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	0.0000094	0.000002	ug/L		R	D
2,3,7,8-TCDF	51207-31-9	ND	0.0000015	0.0000006	ug/L	J, Q, Ba	U	B
OCDD	3268-87-9	0.00028	0.000094	0.0000016	ug/L	Ba		
OCDF	39001-02-0	ND	0.000094	0.0000014	ug/L	J, Ba	U	B
Total HpCDD	37871-00-4	ND	0.000047	0.0000018	ug/L	J, Ba	U	B
Total HpCDF	38998-75-3	0.000042	0.000042	0.0000017	ug/L	J, Q, Ba	J	B, DNQ, *III
Total HxCDD	34465-46-8	0.000034	0.000034	0.0000019	ug/L	J, Q, Ba	J	B, DNQ, *III
Total HxCDF	55684-94-1	0.000045	0.000045	0.0000012	ug/L	J, Q, Ba	J	B, DNQ, *III
Total PeCDD	36088-22-9	0.000011	0.000011	0.0000023	ug/L	J, Q, Ba	J	B, DNQ, *III
Total PeCDF	30402-15-4	0.000016	0.000016	0.0000007	ug/L	J, Q, Ba	J	DNQ, *III
Total TCDD	41903-57-5	ND	0.0000094	0.0000014	ug/L		U	
Total TCDF	55722-27-5	ND	0.0000015	0.0000006	ug/L	J, Q, Ba	U	B

Analysis Method SM 2540D

Sample Name Outfall 001 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITB0887-04 **Sample Date:** 2/6/2010 6:40:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	170	20	2.0	mg/l			

Analysis Method SM2340B

Sample Name	Outfall 001 (Composite)	Matrix Type:	Water	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		54	0.33	0.17	mg/l			

Sample Name	Outfall 001 (Composite) D	Matrix Type:	Water	Validation Level:	IV			
Lab Sample Name:	ITB0887-05	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		55	0.33	0.17	mg/l			

Analysis Method SM2340B-Diss

Sample Name	Outfall 001 (Composite)	Matrix Type:	Water	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		41	0.33	0.17	mg/l			

Analysis Method SM5310B

Sample Name	Outfall 001 (Composite)	Matrix Type:	Water	Validation Level:	IV			
Lab Sample Name:	ITB0887-04	Sample Date:	2/6/2010 6:40:00 AM					
Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Organic Carbon	TOC	12	1.0	0.50	mg/l			

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APPENDIX G

Section 4

Outfall 001 - February 6, 2010

Test America Analytical Laboratory Report

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LABORATORY REPORT

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

Project: Annual Outfall 001
Annual Outfall 001

Sampled: 02/06/10
Received: 02/06/10
Revised: 04/09/10 14:26

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

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: Final revised report to correct units and merge .pdf file of Radchem. Copper in 3 sig figs.
Revised report to include surrogates for the 625 analysis.

LABORATORY ID	CLIENT ID	MATRIX
ITB0887-01	Outfall 001 (Grab)	Water
ITB0887-02	Trip Blank	Water
ITB0887-04	Outfall 001 (Composite)	Water

Reviewed By:

Debby Wilson

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

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

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
GRO (C4 - C12)	EPA 8015 Mod.	10B1582	25	100	25	1	02/12/10	02/12/10	Ja
Surrogate: 4-BFB (FID) (65-140%)					97 %				

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
DRO (C13 - C28)	EPA 8015B	10B1526	47	94	ND	0.943	02/12/10	02/12/10	
<i>Surrogate: n-Octacosane (45-120%)</i>					<i>47 %</i>				

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

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: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/09/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/09/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/09/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/09/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0840	1.1	2.0	ND	1	02/08/10	02/09/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/09/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/09/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/09/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/09/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/09/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/09/10	
Cyclohexane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					91 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					91 %				
Surrogate: Dibromofluoromethane (80-120%)					106 %				
Surrogate: Dibromofluoromethane (80-120%)					106 %				
Surrogate: Toluene-d8 (80-120%)					107 %				
Surrogate: Toluene-d8 (80-120%)					107 %				

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Debby Wilson For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

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: ITB0887-02 (Trip Blank - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Benzene	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Bromodichloromethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Bromoform	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Bromomethane	EPA 624	10B0840	0.42	1.0	ND	1	02/08/10	02/09/10	
Carbon tetrachloride	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
Chlorobenzene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
Chloroethane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Chloroform	EPA 624	10B0840	0.33	0.50	ND	1	02/08/10	02/09/10	
Chloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Dibromochloromethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichlorobenzene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,3-Dichlorobenzene	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
1,4-Dichlorobenzene	EPA 624	10B0840	0.37	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethane	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloroethane	EPA 624	10B0840	0.28	0.50	ND	1	02/08/10	02/09/10	
1,1-Dichloroethene	EPA 624	10B0840	0.42	0.50	ND	1	02/08/10	02/09/10	
cis-1,2-Dichloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
trans-1,2-Dichloroethene	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloropropane	EPA 624	10B0840	0.35	0.50	ND	1	02/08/10	02/09/10	
cis-1,3-Dichloropropene	EPA 624	10B0840	0.22	0.50	ND	1	02/08/10	02/09/10	
trans-1,3-Dichloropropene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
1,2-Dichloro-1,1,2-trifluoroethane	EPA 624	10B0840	1.1	2.0	ND	1	02/08/10	02/09/10	
Ethylbenzene	EPA 624	10B0840	0.25	0.50	ND	1	02/08/10	02/09/10	
Methylene chloride	EPA 624	10B0840	0.95	1.0	ND	1	02/08/10	02/09/10	
1,1,2,2-Tetrachloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Tetrachloroethene	EPA 624	10B0840	0.32	0.50	ND	1	02/08/10	02/09/10	
Toluene	EPA 624	10B0840	0.36	0.50	ND	1	02/08/10	02/09/10	
1,1,1-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
1,1,2-Trichloroethane	EPA 624	10B0840	0.30	0.50	ND	1	02/08/10	02/09/10	
Trichloroethene	EPA 624	10B0840	0.26	0.50	ND	1	02/08/10	02/09/10	
Trichlorofluoromethane	EPA 624	10B0840	0.34	0.50	ND	1	02/08/10	02/09/10	
Trichlorotrifluoroethane (Freon 113)	EPA 624	10B0840	0.50	5.0	ND	1	02/08/10	02/09/10	
Vinyl chloride	EPA 624	10B0840	0.40	0.50	ND	1	02/08/10	02/09/10	
Xylenes, Total	EPA 624	10B0840	0.90	1.5	ND	1	02/08/10	02/09/10	
Cyclohexane	EPA 624	10B0840	0.40	1.0	ND	1	02/08/10	02/09/10	
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				
Surrogate: 4-Bromofluorobenzene (80-120%)					92 %				
Surrogate: Dibromofluoromethane (80-120%)					104 %				
Surrogate: Dibromofluoromethane (80-120%)					104 %				
Surrogate: Toluene-d8 (80-120%)					108 %				
Surrogate: Toluene-d8 (80-120%)					108 %				

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Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

PURGEABLES-- GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/09/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/09/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/09/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					91 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					106 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					107 %				
Sample ID: ITB0887-02 (Trip Blank - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Acrolein	EPA 624	10B0840	4.0	5.0	ND	1	02/08/10	02/09/10	
Acrylonitrile	EPA 624	10B0840	1.2	2.0	ND	1	02/08/10	02/09/10	
2-Chloroethyl vinyl ether	EPA 624	10B0840	1.8	5.0	ND	1	02/08/10	02/09/10	
<i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>					92 %				
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					104 %				
<i>Surrogate: Toluene-d8 (80-120%)</i>					108 %				

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 Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
1,4-Dioxane	EPA 8260B-SIM	10B0317	1.0	2.0	ND	1	02/08/10	02/08/10	
<i>Surrogate: Dibromofluoromethane (80-120%)</i>					<i>100 %</i>				

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Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

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: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Acenaphthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Acenaphthylene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Aniline	EPA 625	10B1159	0.28	9.4	ND	0.943	02/10/10	02/15/10	
Anthracene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Benzidine	EPA 625	10B1159	4.7	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(a)anthracene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(a)pyrene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Benzo(b)fluoranthene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Benzo(g,h,i)perylene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Benzo(k)fluoranthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Benzoic acid	EPA 625	10B1159	2.8	19	ND	0.943	02/10/10	02/15/10	
Benzyl alcohol	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
4-Bromophenyl phenyl ether	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Butyl benzyl phthalate	EPA 625	10B1159	0.66	4.7	ND	0.943	02/10/10	02/15/10	
4-Chloro-3-methylphenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
4-Chloroaniline	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroethoxy)methane	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroethyl)ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-chloroisopropyl)ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Bis(2-ethylhexyl)phthalate	EPA 625	10B1159	1.6	4.7	ND	0.943	02/10/10	02/15/10	
2-Chloronaphthalene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
2-Chlorophenol	EPA 625	10B1159	0.19	0.94	ND	0.943	02/10/10	02/15/10	
4-Chlorophenyl phenyl ether	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Chrysene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Dibenz(a,h)anthracene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Dibenzofuran	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Di-n-butyl phthalate	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
1,2-Dichlorobenzene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,3-Dichlorobenzene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,4-Dichlorobenzene	EPA 625	10B1159	0.19	0.47	ND	0.943	02/10/10	02/15/10	
3,3'-Dichlorobenzidine	EPA 625	10B1159	4.7	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dichlorophenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
Diethyl phthalate	EPA 625	10B1159	0.094	0.94	0.13	0.943	02/10/10	02/15/10	Ja
2,4-Dimethylphenol	EPA 625	10B1159	0.28	1.9	ND	0.943	02/10/10	02/15/10	
Dimethyl phthalate	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
4,6-Dinitro-2-methylphenol	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dinitrophenol	EPA 625	10B1159	0.85	4.7	ND	0.943	02/10/10	02/15/10	
2,4-Dinitrotoluene	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
2,6-Dinitrotoluene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Di-n-octyl phthalate	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
1,2-Diphenylhydrazine/Azobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

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: ITB0887-04 (Outfall 001 (Composite) - Water) - cont.					Sampled: 02/06/10				
Reporting Units: ug/l									
Fluoranthene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Fluorene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Hexachlorobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Hexachlorobutadiene	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
Hexachlorocyclopentadiene	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
Hexachloroethane	EPA 625	10B1159	0.19	2.8	ND	0.943	02/10/10	02/15/10	
Indeno(1,2,3-cd)pyrene	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Isophorone	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Methylnaphthalene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Methylphenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
4-Methylphenol	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
Naphthalene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Nitroaniline	EPA 625	10B1159	0.094	4.7	ND	0.943	02/10/10	02/15/10	
3-Nitroaniline	EPA 625	10B1159	0.19	4.7	ND	0.943	02/10/10	02/15/10	
4-Nitroaniline	EPA 625	10B1159	0.47	4.7	ND	0.943	02/10/10	02/15/10	
Nitrobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2-Nitrophenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
4-Nitrophenol	EPA 625	10B1159	2.4	4.7	ND	0.943	02/10/10	02/15/10	
N-Nitroso-di-n-propylamine	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
N-Nitrosodimethylamine	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
N-Nitrosodiphenylamine	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Pentachlorophenol	EPA 625	10B1159	0.094	1.9	ND	0.943	02/10/10	02/15/10	
Phenanthrene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
Phenol	EPA 625	10B1159	0.28	0.94	ND	0.943	02/10/10	02/15/10	
Pyrene	EPA 625	10B1159	0.094	0.47	ND	0.943	02/10/10	02/15/10	
1,2,4-Trichlorobenzene	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
2,4,5-Trichlorophenol	EPA 625	10B1159	0.19	1.9	ND	0.943	02/10/10	02/15/10	
2,4,6-Trichlorophenol	EPA 625	10B1159	0.094	0.94	ND	0.943	02/10/10	02/15/10	
Surrogate: 2,4,6-Tribromophenol (40-120%)					96 %				
Surrogate: 2-Fluorobiphenyl (50-120%)					75 %				
Surrogate: 2-Fluorophenol (30-120%)					59 %				
Surrogate: Nitrobenzene-d5 (45-120%)					75 %				
Surrogate: Phenol-d6 (35-120%)					65 %				
Surrogate: Terphenyl-d14 (50-125%)					86 %				

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
4,4'-DDD	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	C
4,4'-DDE	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
4,4'-DDT	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
Aldrin	EPA 608	10B1291	0.0014	0.0047	ND	0.943	02/11/10	02/13/10	
alpha-BHC	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
beta-BHC	EPA 608	10B1291	0.0038	0.0094	ND	0.943	02/11/10	02/13/10	
delta-BHC	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Dieldrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan I	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan II	EPA 608	10B1291	0.0028	0.0047	ND	0.943	02/11/10	02/13/10	
Endosulfan sulfate	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin	EPA 608	10B1291	0.0019	0.0047	ND	0.943	02/11/10	02/13/10	C
Endrin aldehyde	EPA 608	10B1291	0.0019	0.0094	ND	0.943	02/11/10	02/13/10	
Endrin ketone	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	
gamma-BHC (Lindane)	EPA 608	10B1291	0.0028	0.019	ND	0.943	02/11/10	02/13/10	
Heptachlor	EPA 608	10B1291	0.0028	0.0094	ND	0.943	02/11/10	02/13/10	C
Heptachlor epoxide	EPA 608	10B1291	0.0024	0.0047	ND	0.943	02/11/10	02/13/10	
Methoxychlor	EPA 608	10B1291	0.0033	0.0047	ND	0.943	02/11/10	02/13/10	
Chlordane	EPA 608	10B1291	0.038	0.094	ND	0.943	02/11/10	02/13/10	
Toxaphene	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/13/10	
Surrogate: Decachlorobiphenyl (45-120%)					71 %				
Surrogate: Decachlorobiphenyl (45-120%)					71 %				
Surrogate: Tetrachloro-m-xylene (35-115%)					54 %				
Surrogate: Tetrachloro-m-xylene (35-115%)					54 %				

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 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water) - cont.					Sampled: 02/06/10				
Reporting Units: ug/l									
Aroclor 1016	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1221	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1232	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1242	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1248	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1254	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
Aroclor 1260	EPA 608	10B1291	0.24	0.47	ND	0.943	02/11/10	02/12/10	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					76 %				

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Attention: Bronwyn Kelly

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

HEXANE EXTRACTABLE MATERIAL

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	10B1991	1.4	4.9	ND	1	02/17/10	02/17/10	

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Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B	[CALC]	N/A	0.33	54	1	02/08/10	02/08/10	
Barium	EPA 200.7	10B0874	0.0060	0.010	0.076	1	02/08/10	02/08/10	
Boron	EPA 200.7	10B0874	0.020	0.050	0.042	1	02/08/10	02/08/10	Ja
Calcium	EPA 200.7	10B0874	0.050	0.10	13	1	02/08/10	02/08/10	MHA
Iron	EPA 200.7	10B0874	0.015	0.040	9.7	1	02/08/10	02/08/10	MHA
Magnesium	EPA 200.7	10B0874	0.012	0.020	5.4	1	02/08/10	02/08/10	
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Mercury	EPA 245.1	10B0921	0.10	0.20	ND	1	02/08/10	02/08/10	
Arsenic	EPA 200.7	10B0874	7.0	10	ND	1	02/08/10	02/08/10	
Antimony	EPA 200.8	10B0879	0.60	4.0	ND	2	02/08/10	02/08/10	RL1
Beryllium	EPA 200.7	10B0874	0.90	2.0	ND	1	02/08/10	02/08/10	
Chromium	EPA 200.7	10B0874	2.0	5.0	11	1	02/08/10	02/08/10	
Cobalt	EPA 200.7	10B0874	2.0	10	2.5	1	02/08/10	02/08/10	Ja
Manganese	EPA 200.7	10B0874	7.0	20	150	1	02/08/10	02/08/10	
Nickel	EPA 200.7	10B0874	2.0	10	6.1	1	02/08/10	02/08/10	Ja
Cadmium	EPA 200.8	10B0879	0.20	2.0	ND	2	02/08/10	02/08/10	RL1
Vanadium	EPA 200.7	10B0874	3.0	10	20	1	02/08/10	02/08/10	
Zinc	EPA 200.7	10B0874	6.0	20	34	1	02/08/10	02/08/10	
Copper	EPA 200.8	10B0879	1.00	4.00	14.3	2	02/08/10	02/08/10	
Lead	EPA 200.8	10B0879	0.40	2.0	6.4	2	02/08/10	02/08/10	
Selenium	EPA 200.8	10B0879	1.0	4.0	1.3	2	02/08/10	02/08/10	RL1, Ja
Silver	EPA 200.8	10B0879	0.20	2.0	ND	2	02/08/10	02/08/10	RL1
Thallium	EPA 200.8	10B0879	0.40	2.0	ND	2	02/08/10	02/08/10	RL1

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Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: mg/l									
Hardness as CaCO3	SM2340B-Diss	[CALC]	N/A	0.33	41	1	02/15/10	02/16/10	
Barium	EPA 200.7-Diss	10B1846	0.0060	0.010	0.015	1	02/15/10	02/16/10	
Boron	EPA 200.7-Diss	10B1846	0.020	0.050	0.070	1	02/15/10	02/16/10	B
Calcium	EPA 200.7-Diss	10B1846	0.050	0.10	11	1	02/15/10	02/16/10	MHA
Iron	EPA 200.7-Diss	10B1846	0.015	0.040	0.64	1	02/15/10	02/16/10	
Magnesium	EPA 200.7-Diss	10B1846	0.012	0.020	3.2	1	02/15/10	02/16/10	

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Mercury	EPA 245.1-Diss	10B1953	0.10	0.20	ND	1	02/16/10	02/16/10	
Arsenic	EPA 200.7-Diss	10B1846	7.0	10	ND	1	02/15/10	02/16/10	
Antimony	EPA 200.8-Diss	10B1845	0.30	2.0	ND	1	02/15/10	02/17/10	
Beryllium	EPA 200.7-Diss	10B1846	0.90	2.0	ND	1	02/15/10	02/16/10	
Cobalt	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Manganese	EPA 200.7-Diss	10B1846	7.0	20	ND	1	02/15/10	02/16/10	
Nickel	EPA 200.7-Diss	10B1846	2.0	10	ND	1	02/15/10	02/16/10	
Cadmium	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/17/10	
Vanadium	EPA 200.7-Diss	10B1846	3.0	10	ND	1	02/15/10	02/16/10	
Zinc	EPA 200.7-Diss	10B1846	6.0	20	10	1	02/15/10	02/16/10	Ja
Copper	EPA 200.8-Diss	10B2106	0.500	2.00	2.35	1	02/17/10	02/17/10	
Lead	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	
Selenium	EPA 200.8-Diss	10B1845	0.50	2.0	ND	1	02/15/10	02/17/10	
Silver	EPA 200.8-Diss	10B1845	0.10	1.0	ND	1	02/15/10	02/17/10	
Thallium	EPA 200.8-Diss	10B1845	0.20	1.0	ND	1	02/15/10	02/17/10	

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

DISSOLVED INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Chromium VI	EPA 218.6	10B0756	0.25	1.0	ND	1	02/06/10	02/06/10	

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: mg/l									
Ammonia-N (Distilled)	SM4500NH3-C	10B1575	0.50	0.50	0.56	1	02/12/10	02/12/10	
Biochemical Oxygen Demand	SM5210B	10B0795	0.50	2.0	2.2	1	02/07/10	02/12/10	
Chloride	EPA 300.0	10B0807	0.25	0.50	4.6	1	02/07/10	02/07/10	
Fluoride	SM 4500-F-C	10B0814	0.020	0.10	0.22	1	02/08/10	02/08/10	B
Nitrate-N	EPA 300.0	10B0807	0.060	0.11	0.40	1	02/07/10	02/07/10	
Nitrite-N	EPA 300.0	10B0807	0.090	0.15	ND	1	02/07/10	02/07/10	
Nitrate/Nitrite-N	EPA 300.0	10B0807	0.15	0.26	0.40	1	02/07/10	02/07/10	
Sulfate	EPA 300.0	10B0807	0.20	0.50	8.8	1	02/07/10	02/07/10	
Surfactants (MBAS)	SM5540-C	10B0757	0.025	0.10	ND	1	02/06/10	02/06/10	
Total Dissolved Solids	SM2540C	10B1487	1.0	10	150	1	02/12/10	02/12/10	
Total Organic Carbon	SM5310B	10B1284	0.50	1.0	12	1	02/11/10	02/11/10	
Total Suspended Solids	SM 2540D	10B1607	2.0	20	170	1	02/12/10	02/12/10	
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ml/l									
Total Settleable Solids	SM2540F	10B0770	0.10	0.10	ND	1	02/07/10	02/07/10	
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: NTU									
Turbidity	EPA 180.1	10B0771	0.40	10	160	10	02/07/10	02/07/10	
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Total Cyanide	SM4500CN-E	10B1250	2.2	5.0	ND	1	02/10/10	02/10/10	
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/l									
Perchlorate	EPA 314.0	10B1001	0.90	4.0	ND	1	02/09/10	02/09/10	
Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)					Sampled: 02/06/10				
Reporting Units: umhos/cm									
Specific Conductance	EPA 120.1	10B1489	1.0	1.0	130	1	02/12/10	02/12/10	

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: ug/L									
1,2,3,4,6,7,8-HpCDD	EPA-5 1613B	47247	0.0000018	0.000047	0.000042	0.95	02/16/10	02/18/10	J, Ba
1,2,3,4,6,7,8-HpCDF	EPA-5 1613B	47247	0.0000017	0.000047	0.000017	0.95	02/16/10	02/18/10	J, Ba
2,3,7,8-TCDF	EPA-5 1613B	47247	0.000000650	0.0000094	0.0000015	0.95	02/16/10	02/18/10	J, Q, Ba
1,2,3,4,7,8,9-HpCDF	EPA-5 1613B	47247	0.0000025	0.000047	0.000012	0.95	02/16/10	02/18/10	J, Q, Ba
1,2,3,4,7,8-HxCDD	EPA-5 1613B	47247	0.0000022	0.000047	0.00001	0.95	02/16/10	02/18/10	J, Q, Ba
1,2,3,4,7,8-HxCDF	EPA-5 1613B	47247	0.0000013	0.000047	0.00001	0.95	02/16/10	02/18/10	J, Ba
1,2,3,6,7,8-HxCDD	EPA-5 1613B	47247	0.000002	0.000047	0.000011	0.95	02/16/10	02/18/10	J, Q, Ba
1,2,3,6,7,8-HxCDF	EPA-5 1613B	47247	0.0000012	0.000047	0.0000088	0.95	02/16/10	02/18/10	J, Q, Ba
1,2,3,7,8,9-HxCDD	EPA-5 1613B	47247	0.0000019	0.000047	0.000011	0.95	02/16/10	02/18/10	J, Ba
1,2,3,7,8,9-HxCDF	EPA-5 1613B	47247	0.0000015	0.000047	0.000012	0.95	02/16/10	02/18/10	J, Ba
1,2,3,7,8-PeCDD	EPA-5 1613B	47247	0.0000023	0.000047	0.0000082	0.95	02/16/10	02/18/10	J, Ba
1,2,3,7,8-PeCDF	EPA-5 1613B	47247	0.0000012	0.000047	0.0000067	0.95	02/16/10	02/18/10	J
2,3,4,6,7,8-HxCDF	EPA-5 1613B	47247	0.0000012	0.000047	0.0000099	0.95	02/16/10	02/18/10	J, Q, Ba
2,3,4,7,8-PeCDF	EPA-5 1613B	47247	0.0000015	0.000047	0.0000082	0.95	02/16/10	02/18/10	J, Q
2,3,7,8-TCDD	EPA-5 1613B	47247	0.0000014	0.0000094	ND	0.95	02/16/10	02/18/10	
OCDD	EPA-5 1613B	47247	0.0000016	0.000094	0.00028	0.95	02/16/10	02/18/10	Ba
OCDF	EPA-5 1613B	47247	0.0000014	0.000094	0.00005	0.95	02/16/10	02/18/10	J, Ba
Total HpCDD	EPA-5 1613B	47247	0.0000018	0.000047	0.000072	0.95	02/16/10	02/18/10	J, Ba
Total HpCDF	EPA-5 1613B	47247	0.0000017	0.000047	0.000042	0.95	02/16/10	02/18/10	J, Q, Ba
Total HxCDD	EPA-5 1613B	47247	0.0000019	0.000047	0.000034	0.95	02/16/10	02/18/10	J, Q, Ba
Total HxCDF	EPA-5 1613B	47247	0.0000012	0.000047	0.000045	0.95	02/16/10	02/18/10	J, Q, Ba
Total PeCDD	EPA-5 1613B	47247	0.0000023	0.000047	0.000011	0.95	02/16/10	02/18/10	J, Q, Ba
Total PeCDF	EPA-5 1613B	47247	0.00000078	0.000047	0.000016	0.95	02/16/10	02/18/10	J, Q, Ba
Total TCDD	EPA-5 1613B	47247	0.0000014	0.0000094	ND	0.95	02/16/10	02/18/10	
Total TCDF	EPA-5 1613B	47247	0.000000650	0.0000094	0.0000015	0.95	02/16/10	02/18/10	J, Q, Ba

Surrogate: 13C-2,3,7,8-TCDF (24-169%)	69 %
Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)	82 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	66 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	71 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	62 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	69 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	71 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	67 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	75 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	68 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	52 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	54 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	74 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	53 %
Surrogate: 13C-2,3,7,8-TCDD (25-164%)	63 %
Surrogate: 13C-OCDD (17-157%)	53 %

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 Attention: Bronwyn Kelly

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

EPA-5 1613B

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04RE1 (Outfall 001 (Composite) - Water) - cont.					Sampled: 02/06/10				
Reporting Units: ug/L									
2,3,7,8-TCDF	EPA-5 1613B	47247	0.000002	0.0000094	ND	0.95	02/16/10	02/19/10	
<i>Surrogate: 13C-2,3,7,8-TCDF (24-169%)</i>					76 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (35-197%)</i>					81 %				

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

ASTM 5174-91

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Total Uranium	ASTM 5174-91	53280	0.21	0.693	0.369	1	02/23/10	02/26/10	Jb

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Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

EPA 900.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Gross Alpha	EPA 900.0 MOD	43108	1.6	3	6.9	1	02/10/10	02/19/10	
Gross Beta	EPA 900.0 MOD	43108	1.2	4	8.1	1	02/10/10	02/19/10	

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Sampled: 02/06/10
Received: 02/06/10

EPA 901.1 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Cesium 137	EPA 901.1 MOD	42136	15	20	1.3	1	02/11/10	02/19/10	U
Potassium 40	EPA 901.1 MOD	42136	290	NA	-180	1	02/11/10	02/19/10	U

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EPA 903.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Radium (226)	EPA 903.0 MOD	41160	0.21	1	0.06	1	02/10/10	02/26/10	U

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EPA 904 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04RE1 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Radium 228	EPA 904 MOD	60257	0.41	1	0.18	1	03/01/10	03/05/10	U

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EPA 905 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Strontium 90	EPA 905 MOD	41162	0.64	3	-0.24	1	02/10/10	02/19/10	U

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Sampled: 02/06/10
Received: 02/06/10

EPA 906.0 MOD

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)					Sampled: 02/06/10				
Reporting Units: pCi/L									
Tritium	EPA 906.0 MOD	49035	96	500	65	1	02/18/10	02/18/10	U

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Sampled: 02/06/10
 Received: 02/06/10

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 001 (Grab) (ITB0887-01) - Water					
EPA 218.6	1	02/06/2010 10:20	02/06/2010 17:00	02/06/2010 19:20	02/06/2010 20:27
EPA 624	3	02/06/2010 10:20	02/06/2010 17:00	02/08/2010 00:00	02/09/2010 01:19
SM2540F	2	02/06/2010 10:20	02/06/2010 17:00	02/07/2010 08:03	02/07/2010 09:00
Sample ID: Trip Blank (ITB0887-02) - Water					
EPA 624	3	02/06/2010 10:20	02/06/2010 17:00	02/08/2010 00:00	02/09/2010 01:49
Sample ID: Outfall 001 (Composite) (ITB0887-04) - Water					
EPA 180.1	2	02/06/2010 06:40	02/06/2010 17:00	02/07/2010 08:03	02/07/2010 08:30
EPA 300.0	2	02/06/2010 06:40	02/06/2010 17:00	02/07/2010 18:15	02/07/2010 18:31
SM5210B	2	02/06/2010 06:40	02/06/2010 17:00	02/07/2010 11:58	02/12/2010 16:10
SM5540-C	2	02/06/2010 06:40	02/06/2010 17:00	02/06/2010 20:00	02/06/2010 20:36

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 Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1582 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1582-BLK1)											
GRO (C4 - C12)	ND	100	25	ug/l							
Surrogate: 4-BFB (FID)	9.01			ug/l	10.0		90	65-140			
LCS Analyzed: 02/12/2010 (10B1582-BS1)											
GRO (C4 - C12)	824	100	25	ug/l	800		103	80-120			
Surrogate: 4-BFB (FID)	14.1			ug/l	10.0		141	65-140			Z2
Matrix Spike Analyzed: 02/12/2010 (10B1582-MS1) Source: ITB1073-01											
GRO (C4 - C12)	296	100	25	ug/l	220	ND	134	65-140			
Surrogate: 4-BFB (FID)	8.45			ug/l	10.0		84	65-140			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1582-MSD1) Source: ITB1073-01											
GRO (C4 - C12)	267	100	25	ug/l	220	ND	122	65-140	10	20	
Surrogate: 4-BFB (FID)	8.42			ug/l	10.0		84	65-140			

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 Received: 02/06/10

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/EPA 8015B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1526 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1526-BLK1)											
DRO (C13 - C28)	ND	100	50	ug/l							
EFH (C10 - C28)	ND	100	50	ug/l							
Surrogate: n-Octacosane	145			ug/l	200		72	45-120			
LCS Analyzed: 02/12/2010 (10B1526-BS1)											
EFH (C10 - C28)	547	100	50	ug/l	1000		55	40-115			MNR1
Surrogate: n-Octacosane	116			ug/l	200		58	45-120			
LCS Dup Analyzed: 02/12/2010 (10B1526-BSD1)											
EFH (C10 - C28)	584	100	50	ug/l	1000		58	40-115	7	25	
Surrogate: n-Octacosane	125			ug/l	200		63	45-120			

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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: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Benzene	ND	0.50	0.28	ug/l							
Bromodichloromethane	ND	0.50	0.30	ug/l							
Bromoform	ND	0.50	0.40	ug/l							
Bromomethane	ND	1.0	0.42	ug/l							
Carbon tetrachloride	ND	0.50	0.28	ug/l							
Chlorobenzene	ND	0.50	0.36	ug/l							
Chloroethane	ND	1.0	0.40	ug/l							
Chloroform	ND	0.50	0.33	ug/l							
Chloromethane	ND	0.50	0.40	ug/l							
Dibromochloromethane	ND	0.50	0.40	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.32	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.35	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.37	ug/l							
1,1-Dichloroethane	ND	0.50	0.40	ug/l							
1,2-Dichloroethane	ND	0.50	0.28	ug/l							
1,1-Dichloroethene	ND	0.50	0.42	ug/l							
cis-1,2-Dichloroethene	ND	0.50	0.32	ug/l							
trans-1,2-Dichloroethene	ND	0.50	0.30	ug/l							
1,2-Dichloropropane	ND	0.50	0.35	ug/l							
cis-1,3-Dichloropropene	ND	0.50	0.22	ug/l							
trans-1,3-Dichloropropene	ND	0.50	0.32	ug/l							
1,2-Dichloro-1,1,2-trifluoroethane	ND	2.0	1.1	ug/l							
Ethylbenzene	ND	0.50	0.25	ug/l							
Methylene chloride	ND	1.0	0.95	ug/l							
1,1,2,2-Tetrachloroethane	ND	0.50	0.30	ug/l							
Tetrachloroethene	ND	0.50	0.32	ug/l							
Toluene	ND	0.50	0.36	ug/l							
1,1,1-Trichloroethane	ND	0.50	0.30	ug/l							
1,1,2-Trichloroethane	ND	0.50	0.30	ug/l							
Trichloroethene	ND	0.50	0.26	ug/l							
Trichlorofluoromethane	ND	0.50	0.34	ug/l							
Trichlorotrifluoroethane (Freon 113)	ND	5.0	0.50	ug/l							
Vinyl chloride	ND	0.50	0.40	ug/l							
Xylenes, Total	ND	1.5	0.90	ug/l							
Cyclohexane	ND	1.0	0.40	ug/l							

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Sampled: 02/06/10
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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	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Surrogate: 4-Bromofluorobenzene	23.4			ug/l	25.0		94	80-120			
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	80-120			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
Benzene	23.2	0.50	0.28	ug/l	25.0		93	70-120			
Bromodichloromethane	24.0	0.50	0.30	ug/l	25.0		96	70-135			
Bromoform	20.1	0.50	0.40	ug/l	25.0		81	55-130			
Bromomethane	28.6	1.0	0.42	ug/l	25.0		115	65-140			
Carbon tetrachloride	24.9	0.50	0.28	ug/l	25.0		99	65-140			
Chlorobenzene	24.7	0.50	0.36	ug/l	25.0		99	75-120			
Chloroethane	26.6	1.0	0.40	ug/l	25.0		107	60-140			
Chloroform	24.0	0.50	0.33	ug/l	25.0		96	70-130			
Chloromethane	28.4	0.50	0.40	ug/l	25.0		114	50-140			
Dibromochloromethane	22.3	0.50	0.40	ug/l	25.0		89	70-140			
1,2-Dichlorobenzene	24.5	0.50	0.32	ug/l	25.0		98	75-120			
1,3-Dichlorobenzene	25.1	0.50	0.35	ug/l	25.0		100	75-120			
1,4-Dichlorobenzene	24.6	0.50	0.37	ug/l	25.0		99	75-120			
1,1-Dichloroethane	23.8	0.50	0.40	ug/l	25.0		95	70-125			
1,2-Dichloroethane	23.1	0.50	0.28	ug/l	25.0		92	60-140			
1,1-Dichloroethene	26.6	0.50	0.42	ug/l	25.0		106	70-125			
cis-1,2-Dichloroethene	26.5	0.50	0.32	ug/l	25.0		106	70-125			
trans-1,2-Dichloroethene	25.9	0.50	0.30	ug/l	25.0		104	70-125			
1,2-Dichloropropane	21.7	0.50	0.35	ug/l	25.0		87	70-125			
cis-1,3-Dichloropropene	25.8	0.50	0.22	ug/l	25.0		103	75-125			
trans-1,3-Dichloropropene	19.9	0.50	0.32	ug/l	25.0		80	70-125			
Ethylbenzene	25.0	0.50	0.25	ug/l	25.0		100	75-125			
Methylene chloride	24.0	1.0	0.95	ug/l	25.0		96	55-130			
1,1,2,2-Tetrachloroethane	25.5	0.50	0.30	ug/l	25.0		102	55-130			
Tetrachloroethene	25.2	0.50	0.32	ug/l	25.0		101	70-125			
Toluene	24.1	0.50	0.36	ug/l	25.0		96	70-120			
1,1,1-Trichloroethane	24.2	0.50	0.30	ug/l	25.0		97	65-135			
1,1,2-Trichloroethane	24.2	0.50	0.30	ug/l	25.0		97	70-125			
Trichloroethene	25.6	0.50	0.26	ug/l	25.0		102	70-125			
Trichlorofluoromethane	28.1	0.50	0.34	ug/l	25.0		112	65-145			
Vinyl chloride	33.6	0.50	0.40	ug/l	25.0		134	55-135			

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Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
Xylenes, Total	77.5	1.5	0.90	ug/l	75.0		103	70-125			
Surrogate: 4-Bromofluorobenzene	25.5			ug/l	25.0		102	80-120			
Surrogate: Dibromofluoromethane	26.0			ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	26.4			ug/l	25.0		105	80-120			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)											
Source: ITB0892-01											
Benzene	24.9	0.50	0.28	ug/l	25.0	ND	100	65-125			
Bromodichloromethane	27.4	0.50	0.30	ug/l	25.0	ND	109	70-135			
Bromoform	22.2	0.50	0.40	ug/l	25.0	ND	89	55-135			
Bromomethane	30.0	1.0	0.42	ug/l	25.0	ND	120	55-145			
Carbon tetrachloride	25.9	0.50	0.28	ug/l	25.0	ND	103	65-140			
Chlorobenzene	26.9	0.50	0.36	ug/l	25.0	ND	108	75-125			
Chloroethane	28.3	1.0	0.40	ug/l	25.0	ND	113	55-140			
Chloroform	27.1	0.50	0.33	ug/l	25.0	ND	108	65-135			
Chloromethane	29.6	0.50	0.40	ug/l	25.0	ND	118	45-145			
Dibromochloromethane	25.1	0.50	0.40	ug/l	25.0	ND	100	65-140			
1,2-Dichlorobenzene	26.3	0.50	0.32	ug/l	25.0	ND	105	75-125			
1,3-Dichlorobenzene	27.5	0.50	0.35	ug/l	25.0	ND	110	75-125			
1,4-Dichlorobenzene	27.0	0.50	0.37	ug/l	25.0	ND	108	75-125			
1,1-Dichloroethane	26.2	0.50	0.40	ug/l	25.0	ND	105	65-130			
1,2-Dichloroethane	25.0	0.50	0.28	ug/l	25.0	ND	100	60-140			
1,1-Dichloroethene	27.3	0.50	0.42	ug/l	25.0	ND	109	60-130			
cis-1,2-Dichloroethene	29.2	0.50	0.32	ug/l	25.0	ND	117	65-130			
trans-1,2-Dichloroethene	27.6	0.50	0.30	ug/l	25.0	ND	111	65-130			
1,2-Dichloropropane	24.3	0.50	0.35	ug/l	25.0	ND	97	65-130			
cis-1,3-Dichloropropene	29.5	0.50	0.22	ug/l	25.0	ND	118	70-130			
trans-1,3-Dichloropropene	22.6	0.50	0.32	ug/l	25.0	ND	90	65-135			
Ethylbenzene	26.3	0.50	0.25	ug/l	25.0	ND	105	65-130			
Methylene chloride	26.0	1.0	0.95	ug/l	25.0	ND	104	50-135			
1,1,2,2-Tetrachloroethane	26.1	0.50	0.30	ug/l	25.0	ND	104	55-135			
Tetrachloroethene	26.4	0.50	0.32	ug/l	25.0	ND	106	65-130			
Toluene	25.9	0.50	0.36	ug/l	25.0	ND	104	70-125			
1,1,1-Trichloroethane	25.8	0.50	0.30	ug/l	25.0	ND	103	65-140			
1,1,2-Trichloroethane	26.8	0.50	0.30	ug/l	25.0	ND	107	65-130			
Trichloroethene	26.8	0.50	0.26	ug/l	25.0	ND	107	65-125			
Trichlorofluoromethane	29.0	0.50	0.34	ug/l	25.0	ND	116	60-145			

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1)						Source: ITB0892-01					
Vinyl chloride	34.1	0.50	0.40	ug/l	25.0	ND	137	45-140			
Xylenes, Total	83.0	1.5	0.90	ug/l	75.0	ND	111	60-130			
Surrogate: 4-Bromofluorobenzene	26.5			ug/l	25.0		106	80-120			
Surrogate: Dibromofluoromethane	26.8			ug/l	25.0		107	80-120			
Surrogate: Toluene-d8	26.7			ug/l	25.0		107	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						Source: ITB0892-01					
Benzene	23.8	0.50	0.28	ug/l	25.0	ND	95	65-125	4	20	
Bromodichloromethane	25.6	0.50	0.30	ug/l	25.0	ND	102	70-135	7	20	
Bromoform	21.2	0.50	0.40	ug/l	25.0	ND	85	55-135	5	25	
Bromomethane	29.2	1.0	0.42	ug/l	25.0	ND	117	55-145	3	25	
Carbon tetrachloride	25.1	0.50	0.28	ug/l	25.0	ND	100	65-140	3	25	
Chlorobenzene	26.0	0.50	0.36	ug/l	25.0	ND	104	75-125	3	20	
Chloroethane	26.8	1.0	0.40	ug/l	25.0	ND	107	55-140	5	25	
Chloroform	25.4	0.50	0.33	ug/l	25.0	ND	102	65-135	6	20	
Chloromethane	28.7	0.50	0.40	ug/l	25.0	ND	115	45-145	3	25	
Dibromochloromethane	23.7	0.50	0.40	ug/l	25.0	ND	95	65-140	6	25	
1,2-Dichlorobenzene	25.2	0.50	0.32	ug/l	25.0	ND	101	75-125	4	20	
1,3-Dichlorobenzene	26.2	0.50	0.35	ug/l	25.0	ND	105	75-125	5	20	
1,4-Dichlorobenzene	25.9	0.50	0.37	ug/l	25.0	ND	103	75-125	4	20	
1,1-Dichloroethane	25.1	0.50	0.40	ug/l	25.0	ND	100	65-130	4	20	
1,2-Dichloroethane	23.4	0.50	0.28	ug/l	25.0	ND	94	60-140	6	20	
1,1-Dichloroethene	26.4	0.50	0.42	ug/l	25.0	ND	106	60-130	3	20	
cis-1,2-Dichloroethene	27.3	0.50	0.32	ug/l	25.0	ND	109	65-130	7	20	
trans-1,2-Dichloroethene	26.2	0.50	0.30	ug/l	25.0	ND	105	65-130	6	20	
1,2-Dichloropropane	23.2	0.50	0.35	ug/l	25.0	ND	93	65-130	5	20	
cis-1,3-Dichloropropene	28.0	0.50	0.22	ug/l	25.0	ND	112	70-130	5	20	
trans-1,3-Dichloropropene	20.9	0.50	0.32	ug/l	25.0	ND	84	65-135	8	25	
Ethylbenzene	25.5	0.50	0.25	ug/l	25.0	ND	102	65-130	3	20	
Methylene chloride	25.0	1.0	0.95	ug/l	25.0	ND	100	50-135	4	20	
1,1,2,2-Tetrachloroethane	24.5	0.50	0.30	ug/l	25.0	ND	98	55-135	6	30	
Tetrachloroethene	25.8	0.50	0.32	ug/l	25.0	ND	103	65-130	2	20	
Toluene	24.8	0.50	0.36	ug/l	25.0	ND	99	70-125	4	20	
1,1,1-Trichloroethane	25.1	0.50	0.30	ug/l	25.0	ND	100	65-140	3	20	
1,1,2-Trichloroethane	24.4	0.50	0.30	ug/l	25.0	ND	97	65-130	9	25	
Trichloroethene	25.8	0.50	0.26	ug/l	25.0	ND	103	65-125	4	20	

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Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1)						Source: ITB0892-01					
Trichlorofluoromethane	28.2	0.50	0.34	ug/l	25.0	ND	113	60-145	3	25	
Vinyl chloride	33.1	0.50	0.40	ug/l	25.0	ND	132	45-140	3	30	
Xylenes, Total	81.0	1.5	0.90	ug/l	75.0	ND	108	60-130	2	20	
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	80-120			
Surrogate: Dibromofluoromethane	26.7			ug/l	25.0		107	80-120			
Surrogate: Toluene-d8	26.3			ug/l	25.0		105	80-120			

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METHOD BLANK/QC DATA

PURGEABLES-- GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0840 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0840-BLK1)											
Acrolein	ND	5.0	4.0	ug/l							
Acrylonitrile	ND	2.0	1.2	ug/l							
2-Chloroethyl vinyl ether	ND	5.0	1.8	ug/l							
Surrogate: 4-Bromofluorobenzene	23.4			ug/l	25.0		94	80-120			
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		102	80-120			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	80-120			
LCS Analyzed: 02/08/2010 (10B0840-BS1)											
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0		55	25-170			
Surrogate: 4-Bromofluorobenzene	25.5			ug/l	25.0		102	80-120			
Surrogate: Dibromofluoromethane	26.0			ug/l	25.0		104	80-120			
Surrogate: Toluene-d8	26.4			ug/l	25.0		105	80-120			
Matrix Spike Analyzed: 02/08/2010 (10B0840-MS1) Source: ITB0892-01											
2-Chloroethyl vinyl ether	13.8	5.0	1.8	ug/l	25.0	ND	55	25-170			
Surrogate: 4-Bromofluorobenzene	26.5			ug/l	25.0		106	80-120			
Surrogate: Dibromofluoromethane	26.8			ug/l	25.0		107	80-120			
Surrogate: Toluene-d8	26.7			ug/l	25.0		107	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0840-MSD1) Source: ITB0892-01											
2-Chloroethyl vinyl ether	12.8	5.0	1.8	ug/l	25.0	ND	51	25-170	7	25	
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	80-120			
Surrogate: Dibromofluoromethane	26.7			ug/l	25.0		107	80-120			
Surrogate: Toluene-d8	26.3			ug/l	25.0		105	80-120			

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METHOD BLANK/QC DATA

1,4-DIOXANE BY GCMS - SINGLE ION MONITORING (SIM)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0317 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0317-BLK1)											
1,4-Dioxane	ND	2.0	1.0	ug/l							
Surrogate: Dibromofluoromethane	0.980			ug/l	1.00		98	80-120			
LCS Analyzed: 02/08/2010 (10B0317-BS1)											
1,4-Dioxane	9.80	2.0	1.0	ug/l	10.0		98	70-125			
Surrogate: Dibromofluoromethane	0.960			ug/l	1.00		96	80-120			
Matrix Spike Analyzed: 02/08/2010 (10B0317-MS1) Source: ITB0632-01											
1,4-Dioxane	9.00	2.0	1.0	ug/l	10.0	ND	90	70-130			
Surrogate: Dibromofluoromethane	1.03			ug/l	1.00		103	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0317-MSD1) Source: ITB0632-01											
1,4-Dioxane	9.37	2.0	1.0	ug/l	10.0	ND	94	70-130	4	30	
Surrogate: Dibromofluoromethane	1.02			ug/l	1.00		102	80-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
Acenaphthene	ND	0.50	0.10	ug/l							
Acenaphthylene	ND	0.50	0.10	ug/l							
Aniline	ND	10	0.30	ug/l							
Anthracene	ND	0.50	0.10	ug/l							
Benzidine	ND	5.0	5.0	ug/l							
Benzo(a)anthracene	ND	5.0	0.10	ug/l							
Benzo(a)pyrene	ND	2.0	0.10	ug/l							
Benzo(b)fluoranthene	ND	2.0	0.10	ug/l							
Benzo(g,h,i)perylene	ND	5.0	0.10	ug/l							
Benzo(k)fluoranthene	ND	0.50	0.10	ug/l							
Benzoic acid	ND	20	3.0	ug/l							
Benzyl alcohol	ND	5.0	0.10	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	0.10	ug/l							
Butyl benzyl phthalate	ND	5.0	0.70	ug/l							
4-Chloro-3-methylphenol	ND	2.0	0.20	ug/l							
4-Chloroaniline	ND	2.0	0.10	ug/l							
Bis(2-chloroethoxy)methane	ND	0.50	0.10	ug/l							
Bis(2-chloroethyl)ether	ND	0.50	0.10	ug/l							
Bis(2-chloroisopropyl)ether	ND	0.50	0.10	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	1.7	ug/l							
2-Chloronaphthalene	ND	0.50	0.10	ug/l							
2-Chlorophenol	ND	1.0	0.20	ug/l							
4-Chlorophenyl phenyl ether	ND	0.50	0.10	ug/l							
Chrysene	ND	0.50	0.10	ug/l							
Dibenz(a,h)anthracene	ND	0.50	0.10	ug/l							
Dibenzofuran	ND	0.50	0.10	ug/l							
Di-n-butyl phthalate	ND	2.0	0.20	ug/l							
1,2-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,3-Dichlorobenzene	ND	0.50	0.10	ug/l							
1,4-Dichlorobenzene	ND	0.50	0.20	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	5.0	ug/l							
2,4-Dichlorophenol	ND	2.0	0.20	ug/l							
Diethyl phthalate	ND	1.0	0.10	ug/l							
2,4-Dimethylphenol	ND	2.0	0.30	ug/l							
Dimethyl phthalate	ND	0.50	0.10	ug/l							

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
4,6-Dinitro-2-methylphenol	ND	5.0	0.20	ug/l							
2,4-Dinitrophenol	ND	5.0	0.90	ug/l							
2,4-Dinitrotoluene	ND	5.0	0.20	ug/l							
2,6-Dinitrotoluene	ND	5.0	0.10	ug/l							
Di-n-octyl phthalate	ND	5.0	0.10	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	0.10	ug/l							
Fluoranthene	ND	0.50	0.10	ug/l							
Fluorene	ND	0.50	0.10	ug/l							
Hexachlorobenzene	ND	1.0	0.10	ug/l							
Hexachlorobutadiene	ND	2.0	0.20	ug/l							
Hexachlorocyclopentadiene	ND	5.0	0.10	ug/l							
Hexachloroethane	ND	3.0	0.20	ug/l							
Indeno(1,2,3-cd)pyrene	ND	2.0	0.10	ug/l							
Isophorone	ND	1.0	0.10	ug/l							
2-Methylnaphthalene	ND	1.0	0.10	ug/l							
2-Methylphenol	ND	2.0	0.10	ug/l							
4-Methylphenol	ND	5.0	0.20	ug/l							
Naphthalene	ND	1.0	0.10	ug/l							
2-Nitroaniline	ND	5.0	0.10	ug/l							
3-Nitroaniline	ND	5.0	0.20	ug/l							
4-Nitroaniline	ND	5.0	0.50	ug/l							
Nitrobenzene	ND	1.0	0.10	ug/l							
2-Nitrophenol	ND	2.0	0.10	ug/l							
4-Nitrophenol	ND	5.0	2.5	ug/l							
N-Nitroso-di-n-propylamine	ND	2.0	0.10	ug/l							
N-Nitrosodimethylamine	ND	2.0	0.10	ug/l							
N-Nitrosodiphenylamine	ND	1.0	0.10	ug/l							
Pentachlorophenol	ND	2.0	0.10	ug/l							
Phenanthrene	ND	0.50	0.10	ug/l							
Phenol	ND	1.0	0.30	ug/l							
Pyrene	ND	0.50	0.10	ug/l							
1,2,4-Trichlorobenzene	ND	1.0	0.10	ug/l							
2,4,5-Trichlorophenol	ND	2.0	0.20	ug/l							
2,4,6-Trichlorophenol	ND	1.0	0.10	ug/l							
Surrogate: 2,4,6-Tribromophenol	20.9			ug/l	20.0		104	40-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Blank Analyzed: 02/15/2010 (10B1159-BLK1)											
Surrogate: 2-Fluorobiphenyl	10.3			ug/l	10.0		103	50-120			
Surrogate: 2-Fluorophenol	14.7			ug/l	20.0		74	30-120			
Surrogate: Nitrobenzene-d5	8.54			ug/l	10.0		85	45-120			
Surrogate: Phenol-d6	15.2			ug/l	20.0		76	35-120			
Surrogate: Terphenyl-d14	10.2			ug/l	10.0		102	50-125			
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
Acenaphthene	8.64	0.50	0.10	ug/l	10.0		86	60-120			
Acenaphthylene	9.02	0.50	0.10	ug/l	10.0		90	60-120			
Aniline	7.16	10	0.30	ug/l	10.0		72	35-120			Ja
Anthracene	9.24	0.50	0.10	ug/l	10.0		92	65-120			
Benzidine	5.98	5.0	5.0	ug/l	10.0		60	30-160			
Benzo(a)anthracene	9.58	5.0	0.10	ug/l	10.0		96	65-120			
Benzo(a)pyrene	9.92	2.0	0.10	ug/l	10.0		99	55-130			
Benzo(b)fluoranthene	9.96	2.0	0.10	ug/l	10.0		100	55-125			
Benzo(g,h,i)perylene	11.1	5.0	0.10	ug/l	10.0		111	45-135			
Benzo(k)fluoranthene	9.34	0.50	0.10	ug/l	10.0		93	50-125			
Benzoic acid	8.18	20	3.0	ug/l	10.0		82	25-120			Ja
Benzyl alcohol	8.10	5.0	0.10	ug/l	10.0		81	50-120			
4-Bromophenyl phenyl ether	9.46	1.0	0.10	ug/l	10.0		95	60-120			
Butyl benzyl phthalate	10.2	5.0	0.70	ug/l	10.0		102	55-130			
4-Chloro-3-methylphenol	8.26	2.0	0.20	ug/l	10.0		83	60-120			
4-Chloroaniline	7.82	2.0	0.10	ug/l	10.0		78	55-120			
Bis(2-chloroethoxy)methane	8.26	0.50	0.10	ug/l	10.0		83	55-120			
Bis(2-chloroethyl)ether	7.66	0.50	0.10	ug/l	10.0		77	50-120			
Bis(2-chloroisopropyl)ether	7.12	0.50	0.10	ug/l	10.0		71	45-120			
Bis(2-ethylhexyl)phthalate	10.1	5.0	1.7	ug/l	10.0		101	65-130			
2-Chloronaphthalene	8.34	0.50	0.10	ug/l	10.0		83	60-120			
2-Chlorophenol	7.78	1.0	0.20	ug/l	10.0		78	45-120			
4-Chlorophenyl phenyl ether	10.1	0.50	0.10	ug/l	10.0		101	65-120			
Chrysene	9.58	0.50	0.10	ug/l	10.0		96	65-120			
Dibenz(a,h)anthracene	10.2	0.50	0.10	ug/l	10.0		102	50-135			
Dibenzofuran	9.46	0.50	0.10	ug/l	10.0		95	65-120			
Di-n-butyl phthalate	9.34	2.0	0.20	ug/l	10.0		93	60-125			
1,2-Dichlorobenzene	7.14	0.50	0.10	ug/l	10.0		71	40-120			
1,3-Dichlorobenzene	6.68	0.50	0.10	ug/l	10.0		67	35-120			

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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
1,4-Dichlorobenzene	6.72	0.50	0.20	ug/l	10.0		67	35-120			
3,3'-Dichlorobenzidine	8.16	5.0	5.0	ug/l	10.0		82	45-135			
2,4-Dichlorophenol	8.26	2.0	0.20	ug/l	10.0		83	55-120			
Diethyl phthalate	9.78	1.0	0.10	ug/l	10.0		98	55-120			
2,4-Dimethylphenol	7.00	2.0	0.30	ug/l	10.0		70	40-120			
Dimethyl phthalate	10.2	0.50	0.10	ug/l	10.0		102	30-120			
4,6-Dinitro-2-methylphenol	8.02	5.0	0.20	ug/l	10.0		80	45-120			
2,4-Dinitrophenol	8.18	5.0	0.90	ug/l	10.0		82	40-120			
2,4-Dinitrotoluene	9.60	5.0	0.20	ug/l	10.0		96	65-120			
2,6-Dinitrotoluene	9.78	5.0	0.10	ug/l	10.0		98	65-120			
Di-n-octyl phthalate	10.1	5.0	0.10	ug/l	10.0		101	65-135			
1,2-Diphenylhydrazine/Azobenzene	8.90	1.0	0.10	ug/l	10.0		89	60-120			
Fluoranthene	9.30	0.50	0.10	ug/l	10.0		93	60-120			
Fluorene	9.88	0.50	0.10	ug/l	10.0		99	65-120			
Hexachlorobenzene	9.10	1.0	0.10	ug/l	10.0		91	60-120			
Hexachlorobutadiene	6.16	2.0	0.20	ug/l	10.0		62	40-120			
Hexachlorocyclopentadiene	6.54	5.0	0.10	ug/l	10.0		65	25-120			
Hexachloroethane	6.02	3.0	0.20	ug/l	10.0		60	35-120			
Indeno(1,2,3-cd)pyrene	10.7	2.0	0.10	ug/l	10.0		107	45-135			
Isophorone	8.36	1.0	0.10	ug/l	10.0		84	50-120			
2-Methylnaphthalene	8.12	1.0	0.10	ug/l	10.0		81	55-120			
2-Methylphenol	7.62	2.0	0.10	ug/l	10.0		76	50-120			
4-Methylphenol	7.82	5.0	0.20	ug/l	10.0		78	50-120			
Naphthalene	7.80	1.0	0.10	ug/l	10.0		78	55-120			
2-Nitroaniline	9.98	5.0	0.10	ug/l	10.0		100	65-120			
3-Nitroaniline	10.2	5.0	0.20	ug/l	10.0		102	60-120			
4-Nitroaniline	9.78	5.0	0.50	ug/l	10.0		98	55-125			
Nitrobenzene	7.98	1.0	0.10	ug/l	10.0		80	55-120			
2-Nitrophenol	8.60	2.0	0.10	ug/l	10.0		86	50-120			
4-Nitrophenol	10.6	5.0	2.5	ug/l	10.0		106	45-120			
N-Nitroso-di-n-propylamine	7.64	2.0	0.10	ug/l	10.0		76	45-120			
N-Nitrosodimethylamine	8.18	2.0	0.10	ug/l	10.0		82	45-120			
N-Nitrosodiphenylamine	9.40	1.0	0.10	ug/l	10.0		94	60-120			
Pentachlorophenol	8.12	2.0	0.10	ug/l	10.0		81	50-120			
Phenanthrene	9.14	0.50	0.10	ug/l	10.0		91	65-120			

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
LCS Analyzed: 02/15/2010 (10B1159-BS1)											
Phenol	7.70	1.0	0.30	ug/l	10.0		77	40-120			
Pyrene	9.56	0.50	0.10	ug/l	10.0		96	55-125			
1,2,4-Trichlorobenzene	7.14	1.0	0.10	ug/l	10.0		71	45-120			
2,4,5-Trichlorophenol	9.00	2.0	0.20	ug/l	10.0		90	55-120			
2,4,6-Trichlorophenol	8.56	1.0	0.10	ug/l	10.0		86	55-120			
Surrogate: 2,4,6-Tribromophenol	20.9			ug/l	20.0		104	40-120			
Surrogate: 2-Fluorobiphenyl	8.88			ug/l	10.0		89	50-120			
Surrogate: 2-Fluorophenol	13.7			ug/l	20.0		69	30-120			
Surrogate: Nitrobenzene-d5	8.20			ug/l	10.0		82	45-120			
Surrogate: Phenol-d6	14.9			ug/l	20.0		75	35-120			
Surrogate: Terphenyl-d14	9.58			ug/l	10.0		96	50-125			
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)											
Source: ITB0810-01											
Acenaphthene	8.02	0.49	0.098	ug/l	9.80	ND	82	60-120			
Acenaphthylene	7.22	0.49	0.098	ug/l	9.80	ND	74	60-120			
Aniline	ND	9.8	0.29	ug/l	9.80	ND		35-120			M2
Anthracene	7.84	0.49	0.098	ug/l	9.80	ND	80	65-120			
Benzidine	ND	4.9	4.9	ug/l	9.80	ND		30-160			M2
Benzo(a)anthracene	8.73	4.9	0.098	ug/l	9.80	ND	89	65-120			
Benzo(a)pyrene	8.22	2.0	0.098	ug/l	9.80	ND	84	55-130			
Benzo(b)fluoranthene	9.22	2.0	0.098	ug/l	9.80	ND	94	55-125			
Benzo(g,h,i)perylene	9.82	4.9	0.098	ug/l	9.80	ND	100	45-135			
Benzo(k)fluoranthene	8.45	0.49	0.098	ug/l	9.80	ND	86	55-125			
Benzoic acid	11.6	20	2.9	ug/l	9.80	ND	118	25-125			Ja
Benzyl alcohol	7.59	4.9	0.098	ug/l	9.80	ND	77	40-120			
4-Bromophenyl phenyl ether	8.25	0.98	0.098	ug/l	9.80	ND	84	60-120			
Butyl benzyl phthalate	9.51	4.9	0.69	ug/l	9.80	ND	97	55-130			
4-Chloro-3-methylphenol	3.18	2.0	0.20	ug/l	9.80	ND	32	60-120			M2
4-Chloroaniline	ND	2.0	0.098	ug/l	9.80	ND		55-120			M2
Bis(2-chloroethoxy)methane	7.12	0.49	0.098	ug/l	9.80	ND	73	50-120			
Bis(2-chloroethyl)ether	7.29	0.49	0.098	ug/l	9.80	ND	74	50-120			
Bis(2-chloroisopropyl)ether	6.71	0.49	0.098	ug/l	9.80	ND	68	45-120			
Bis(2-ethylhexyl)phthalate	9.55	4.9	1.7	ug/l	9.80	ND	97	65-130			
2-Chloronaphthalene	6.92	0.49	0.098	ug/l	9.80	ND	71	60-120			
2-Chlorophenol	6.12	0.98	0.20	ug/l	9.80	ND	62	45-120			
4-Chlorophenyl phenyl ether	9.33	0.49	0.098	ug/l	9.80	ND	95	65-120			

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Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)					Source: ITB0810-01						
Chrysene	8.61	0.49	0.098	ug/l	9.80	ND	88	65-120			
Dibenz(a,h)anthracene	8.78	0.49	0.098	ug/l	9.80	ND	90	45-135			
Dibenzofuran	8.84	0.49	0.098	ug/l	9.80	ND	90	65-120			
Di-n-butyl phthalate	8.59	2.0	0.20	ug/l	9.80	ND	88	60-125			
1,2-Dichlorobenzene	9.25	0.49	0.098	ug/l	9.80	ND	94	40-120			
1,3-Dichlorobenzene	6.55	0.49	0.098	ug/l	9.80	ND	67	35-120			
1,4-Dichlorobenzene	6.53	0.49	0.20	ug/l	9.80	ND	67	35-120			
3,3'-Dichlorobenzidine	ND	4.9	4.9	ug/l	9.80	ND		45-135			M2
2,4-Dichlorophenol	5.47	2.0	0.20	ug/l	9.80	ND	56	55-120			
Diethyl phthalate	10.1	0.98	0.098	ug/l	9.80	ND	103	55-120			
2,4-Dimethylphenol	ND	2.0	0.29	ug/l	9.80	ND		40-120			M2
Dimethyl phthalate	9.53	0.49	0.098	ug/l	9.80	ND	97	30-120			
4,6-Dinitro-2-methylphenol	10.7	4.9	0.20	ug/l	9.80	ND	109	45-120			
2,4-Dinitrophenol	11.4	4.9	0.88	ug/l	9.80	ND	116	40-120			
2,4-Dinitrotoluene	9.41	4.9	0.20	ug/l	9.80	ND	96	65-120			
2,6-Dinitrotoluene	10.3	4.9	0.098	ug/l	9.80	ND	105	65-120			
Di-n-octyl phthalate	9.51	4.9	0.098	ug/l	9.80	ND	97	65-135			
1,2-Diphenylhydrazine/Azobenzene	9.12	0.98	0.098	ug/l	9.80	ND	93	60-120			
Fluoranthene	8.51	0.49	0.098	ug/l	9.80	ND	87	60-120			
Fluorene	9.31	0.49	0.098	ug/l	9.80	ND	95	65-120			
Hexachlorobenzene	8.04	0.98	0.098	ug/l	9.80	ND	82	60-120			
Hexachlorobutadiene	6.39	2.0	0.20	ug/l	9.80	ND	65	40-120			
Hexachlorocyclopentadiene	6.39	4.9	0.098	ug/l	9.80	ND	65	25-120			
Hexachloroethane	6.14	2.9	0.20	ug/l	9.80	ND	63	35-120			
Indeno(1,2,3-cd)pyrene	9.31	2.0	0.098	ug/l	9.80	ND	95	40-135			
Isophorone	7.65	0.98	0.098	ug/l	9.80	0.333	75	50-120			
2-Methylnaphthalene	6.78	0.98	0.098	ug/l	9.80	ND	69	55-120			
2-Methylphenol	0.451	2.0	0.098	ug/l	9.80	ND	5	50-120			M2, Ja
4-Methylphenol	0.275	4.9	0.20	ug/l	9.80	ND	3	50-120			M2, Ja
Naphthalene	7.12	0.98	0.098	ug/l	9.80	ND	73	55-120			
2-Nitroaniline	5.57	4.9	0.098	ug/l	9.80	ND	57	65-120			M2
3-Nitroaniline	ND	4.9	0.20	ug/l	9.80	ND		60-120			M2
4-Nitroaniline	1.00	4.9	0.49	ug/l	9.80	ND	10	55-125			M2, Ja
Nitrobenzene	11.9	0.98	0.098	ug/l	9.80	ND	121	55-120			M1
2-Nitrophenol	12.4	2.0	0.098	ug/l	9.80	ND	126	50-120			M1

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/15/2010 (10B1159-MS1)					Source: ITB0810-01						
4-Nitrophenol	16.5	4.9	2.5	ug/l	9.80	ND	168	45-120			MI
N-Nitroso-di-n-propylamine	7.57	2.0	0.098	ug/l	9.80	ND	77	45-120			
N-Nitrosodimethylamine	7.31	2.0	0.098	ug/l	9.80	ND	75	45-120			
N-Nitrosodiphenylamine	6.55	0.98	0.098	ug/l	9.80	ND	67	60-120			
Pentachlorophenol	9.12	2.0	0.098	ug/l	9.80	ND	93	50-120			
Phenanthrene	8.33	0.49	0.098	ug/l	9.80	ND	85	65-120			
Phenol	7.92	0.98	0.29	ug/l	9.80	ND	81	40-120			
Pyrene	8.88	0.49	0.098	ug/l	9.80	ND	91	55-125			
1,2,4-Trichlorobenzene	6.88	0.98	0.098	ug/l	9.80	ND	70	45-120			
2,4,5-Trichlorophenol	9.37	2.0	0.20	ug/l	9.80	ND	96	55-120			
2,4,6-Trichlorophenol	9.18	0.98	0.098	ug/l	9.80	ND	94	55-120			
Surrogate: 2,4,6-Tribromophenol	17.4			ug/l	19.6		89	40-120			
Surrogate: 2-Fluorobiphenyl	6.96			ug/l	9.80		71	50-120			
Surrogate: 2-Fluorophenol	8.49			ug/l	19.6		43	30-120			
Surrogate: Nitrobenzene-d5	7.65			ug/l	9.80		78	45-120			
Surrogate: Phenol-d6	8.53			ug/l	19.6		44	35-120			
Surrogate: Terphenyl-d14	8.73			ug/l	9.80		89	50-125			
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)					Source: ITB0810-01						
Acenaphthene	7.43	0.49	0.098	ug/l	9.80	ND	76	60-120	8	25	
Acenaphthylene	6.16	0.49	0.098	ug/l	9.80	ND	63	60-120	16	25	
Aniline	ND	9.8	0.29	ug/l	9.80	ND		35-120		30	M2
Anthracene	7.53	0.49	0.098	ug/l	9.80	ND	77	65-120	4	25	
Benzidine	ND	4.9	4.9	ug/l	9.80	ND		30-160		35	M2
Benzo(a)anthracene	8.20	4.9	0.098	ug/l	9.80	ND	84	65-120	6	20	
Benzo(a)pyrene	7.90	2.0	0.098	ug/l	9.80	ND	81	55-130	4	25	
Benzo(b)fluoranthene	8.47	2.0	0.098	ug/l	9.80	ND	86	55-125	8	25	
Benzo(g,h,i)perylene	9.24	4.9	0.098	ug/l	9.80	ND	94	45-135	6	30	
Benzo(k)fluoranthene	8.18	0.49	0.098	ug/l	9.80	ND	83	55-125	3	30	
Benzoic acid	10.2	20	2.9	ug/l	9.80	ND	104	25-125	13	30	Ja
Benzyl alcohol	6.84	4.9	0.098	ug/l	9.80	ND	70	40-120	10	30	
4-Bromophenyl phenyl ether	8.04	0.98	0.098	ug/l	9.80	ND	82	60-120	3	25	
Butyl benzyl phthalate	9.35	4.9	0.69	ug/l	9.80	ND	95	55-130	2	25	
4-Chloro-3-methylphenol	5.67	2.0	0.20	ug/l	9.80	ND	58	60-120	56	25	M2, R-3
4-Chloroaniline	ND	2.0	0.098	ug/l	9.80	ND		55-120		25	M2
Bis(2-chloroethoxy)methane	6.57	0.49	0.098	ug/l	9.80	ND	67	50-120	8	25	

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)					Source: ITB0810-01						
Bis(2-chloroethyl)ether	6.73	0.49	0.098	ug/l	9.80	ND	69	50-120	8	25	
Bis(2-chloroisopropyl)ether	5.22	0.49	0.098	ug/l	9.80	ND	53	45-120	25	25	
Bis(2-ethylhexyl)phthalate	9.18	4.9	1.7	ug/l	9.80	ND	94	65-130	4	25	
2-Chloronaphthalene	6.53	0.49	0.098	ug/l	9.80	ND	67	60-120	6	20	
2-Chlorophenol	6.31	0.98	0.20	ug/l	9.80	ND	64	45-120	3	25	
4-Chlorophenyl phenyl ether	8.71	0.49	0.098	ug/l	9.80	ND	89	65-120	7	25	
Chrysene	7.92	0.49	0.098	ug/l	9.80	ND	81	65-120	8	25	
Dibenz(a,h)anthracene	8.53	0.49	0.098	ug/l	9.80	ND	87	45-135	3	30	
Dibenzofuran	8.02	0.49	0.098	ug/l	9.80	ND	82	65-120	10	25	
Di-n-butyl phthalate	8.43	2.0	0.20	ug/l	9.80	ND	86	60-125	2	25	
1,2-Dichlorobenzene	6.98	0.49	0.098	ug/l	9.80	ND	71	40-120	28	25	R
1,3-Dichlorobenzene	5.14	0.49	0.098	ug/l	9.80	ND	52	35-120	24	25	
1,4-Dichlorobenzene	5.04	0.49	0.20	ug/l	9.80	ND	51	35-120	26	25	R
3,3'-Dichlorobenzidine	ND	4.9	4.9	ug/l	9.80	ND		45-135		25	M2
2,4-Dichlorophenol	5.73	2.0	0.20	ug/l	9.80	ND	58	55-120	5	25	
Diethyl phthalate	9.02	0.98	0.098	ug/l	9.80	ND	92	55-120	11	30	
2,4-Dimethylphenol	ND	2.0	0.29	ug/l	9.80	ND		40-120		25	M2
Dimethyl phthalate	8.84	0.49	0.098	ug/l	9.80	ND	90	30-120	7	30	
4,6-Dinitro-2-methylphenol	9.63	4.9	0.20	ug/l	9.80	ND	98	45-120	11	25	
2,4-Dinitrophenol	11.0	4.9	0.88	ug/l	9.80	ND	112	40-120	4	25	
2,4-Dinitrotoluene	8.65	4.9	0.20	ug/l	9.80	ND	88	65-120	8	25	
2,6-Dinitrotoluene	9.69	4.9	0.098	ug/l	9.80	ND	99	65-120	6	20	
Di-n-octyl phthalate	9.45	4.9	0.098	ug/l	9.80	ND	96	65-135	0.6	20	
1,2-Diphenylhydrazine/Azobenzene	8.37	0.98	0.098	ug/l	9.80	ND	85	60-120	9	25	
Fluoranthene	8.12	0.49	0.098	ug/l	9.80	ND	83	60-120	5	25	
Fluorene	8.59	0.49	0.098	ug/l	9.80	ND	88	65-120	8	25	
Hexachlorobenzene	7.73	0.98	0.098	ug/l	9.80	ND	79	60-120	4	25	
Hexachlorobutadiene	4.96	2.0	0.20	ug/l	9.80	ND	51	40-120	25	25	
Hexachlorocyclopentadiene	5.55	4.9	0.098	ug/l	9.80	ND	57	25-120	14	30	
Hexachloroethane	4.47	2.9	0.20	ug/l	9.80	ND	46	35-120	31	25	R
Indeno(1,2,3-cd)pyrene	9.18	2.0	0.098	ug/l	9.80	ND	94	40-135	1	30	
Isophorone	6.82	0.98	0.098	ug/l	9.80	0.333	66	50-120	11	25	
2-Methylnaphthalene	6.06	0.98	0.098	ug/l	9.80	ND	62	55-120	11	20	
2-Methylphenol	1.49	2.0	0.098	ug/l	9.80	ND	15	50-120	107	25	M2, R-3, Ja
4-Methylphenol	1.18	4.9	0.20	ug/l	9.80	ND	12	50-120	124	25	M2, R-3, Ja

TestAmerica Irvine

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Project Manager

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Sampled: 02/06/10
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METHOD BLANK/QC DATA

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

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1159 Extracted: 02/10/10											
Matrix Spike Dup Analyzed: 02/15/2010 (10B1159-MSD1)					Source: ITB0810-01						
Naphthalene	6.24	0.98	0.098	ug/l	9.80	ND	64	55-120	13	25	
2-Nitroaniline	3.16	4.9	0.098	ug/l	9.80	ND	32	65-120	55	25	M2, R-3, Ja
3-Nitroaniline	ND	4.9	0.20	ug/l	9.80	ND		60-120		25	M2
4-Nitroaniline	ND	4.9	0.49	ug/l	9.80	ND		55-125		25	M2
Nitrobenzene	9.80	0.98	0.098	ug/l	9.80	ND	100	55-120	19	25	
2-Nitrophenol	9.75	2.0	0.098	ug/l	9.80	ND	99	50-120	24	25	
4-Nitrophenol	13.3	4.9	2.5	ug/l	9.80	ND	136	45-120	21	30	MI
N-Nitroso-di-n-propylamine	6.45	2.0	0.098	ug/l	9.80	ND	66	45-120	16	25	
N-Nitrosodimethylamine	6.84	2.0	0.098	ug/l	9.80	ND	70	45-120	7	25	
N-Nitrosodiphenylamine	6.57	0.98	0.098	ug/l	9.80	ND	67	60-120	0.3	25	
Pentachlorophenol	8.57	2.0	0.098	ug/l	9.80	ND	87	50-120	6	25	
Phenanthrene	7.94	0.49	0.098	ug/l	9.80	ND	81	65-120	5	25	
Phenol	9.53	0.98	0.29	ug/l	9.80	ND	97	40-120	18	25	
Pyrene	8.33	0.49	0.098	ug/l	9.80	ND	85	55-125	6	25	
1,2,4-Trichlorobenzene	5.45	0.98	0.098	ug/l	9.80	ND	56	45-120	23	20	R
2,4,5-Trichlorophenol	8.51	2.0	0.20	ug/l	9.80	ND	87	55-120	10	30	
2,4,6-Trichlorophenol	8.06	0.98	0.098	ug/l	9.80	ND	82	55-120	13	30	
Surrogate: 2,4,6-Tribromophenol	16.4			ug/l	19.6		83	40-120			
Surrogate: 2-Fluorobiphenyl	6.69			ug/l	9.80		68	50-120			
Surrogate: 2-Fluorophenol	9.96			ug/l	19.6		51	30-120			
Surrogate: Nitrobenzene-d5	6.75			ug/l	9.80		69	45-120			
Surrogate: Phenol-d6	10.6			ug/l	19.6		54	35-120			
Surrogate: Terphenyl-d14	8.06			ug/l	9.80		82	50-125			

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/12/2010 (10B1291-BLK1)											
4,4'-DDD	ND	0.0050	0.0020	ug/l							
4,4'-DDE	ND	0.0050	0.0030	ug/l							
4,4'-DDT	ND	0.010	0.0040	ug/l							
Aldrin	ND	0.0050	0.0015	ug/l							
alpha-BHC	ND	0.0050	0.0025	ug/l							
beta-BHC	ND	0.010	0.0040	ug/l							
delta-BHC	ND	0.0050	0.0035	ug/l							
Dieldrin	ND	0.0050	0.0020	ug/l							
Endosulfan I	ND	0.0050	0.0020	ug/l							
Endosulfan II	ND	0.0050	0.0030	ug/l							
Endosulfan sulfate	ND	0.010	0.0030	ug/l							
Endrin	ND	0.0050	0.0020	ug/l							
Endrin aldehyde	ND	0.010	0.0020	ug/l							
Endrin ketone	ND	0.010	0.0030	ug/l							
gamma-BHC (Lindane)	ND	0.020	0.0030	ug/l							
Heptachlor	ND	0.010	0.0030	ug/l							
Heptachlor epoxide	ND	0.0050	0.0025	ug/l							
Methoxychlor	ND	0.0050	0.0035	ug/l							
Chlordane	ND	0.10	0.040	ug/l							
Toxaphene	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	0.387			ug/l	0.500		77	45-120			
Surrogate: Decachlorobiphenyl	0.387			ug/l	0.500		77	45-120			
Surrogate: Tetrachloro-m-xylene	0.240			ug/l	0.500		48	35-115			
Surrogate: Tetrachloro-m-xylene	0.240			ug/l	0.500		48	35-115			
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
4,4'-DDD	0.464	0.0050	0.0020	ug/l	0.500		93	55-120			
4,4'-DDE	0.418	0.0050	0.0030	ug/l	0.500		84	50-120			
4,4'-DDT	0.450	0.010	0.0040	ug/l	0.500		90	55-120			
Aldrin	0.374	0.0050	0.0015	ug/l	0.500		75	40-115			
alpha-BHC	0.369	0.0050	0.0025	ug/l	0.500		74	45-115			
beta-BHC	0.361	0.010	0.0040	ug/l	0.500		72	55-115			
delta-BHC	0.404	0.0050	0.0035	ug/l	0.500		81	55-115			
Dieldrin	0.434	0.0050	0.0020	ug/l	0.500		87	55-115			

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ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
LCS Analyzed: 02/12/2010 (10B1291-BS1)											
Endosulfan I	0.423	0.0050	0.0020	ug/l	0.500		85	55-115			
Endosulfan II	0.464	0.0050	0.0030	ug/l	0.500		93	55-120			
Endosulfan sulfate	0.431	0.010	0.0030	ug/l	0.500		86	60-120			
Endrin	0.477	0.0050	0.0020	ug/l	0.500		95	55-115			
Endrin aldehyde	0.393	0.010	0.0020	ug/l	0.500		79	50-120			
Endrin ketone	0.454	0.010	0.0030	ug/l	0.500		91	55-120			
gamma-BHC (Lindane)	0.381	0.020	0.0030	ug/l	0.500		76	45-115			
Heptachlor	0.415	0.010	0.0030	ug/l	0.500		83	45-115			
Heptachlor epoxide	0.407	0.0050	0.0025	ug/l	0.500		81	55-115			
Methoxychlor	0.485	0.0050	0.0035	ug/l	0.500		97	60-120			
Surrogate: Decachlorobiphenyl	0.394			ug/l	0.500		79	45-120			
Surrogate: Decachlorobiphenyl	0.394			ug/l	0.500		79	45-120			
Surrogate: Tetrachloro-m-xylene	0.339			ug/l	0.500		68	35-115			
Surrogate: Tetrachloro-m-xylene	0.339			ug/l	0.500		68	35-115			
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)											
Source: ITB0602-01											
4,4'-DDD	0.362	0.019	0.0075	ug/l	0.472	ND	77	50-125			
4,4'-DDE	0.530	0.019	0.011	ug/l	0.472	ND	112	45-125			
4,4'-DDT	0.402	0.038	0.015	ug/l	0.472	ND	85	50-125			
Aldrin	0.386	0.019	0.0057	ug/l	0.472	ND	82	35-120			
alpha-BHC	0.372	0.019	0.0094	ug/l	0.472	ND	79	40-120			
beta-BHC	0.186	0.038	0.015	ug/l	0.472	ND	39	50-120			M2
delta-BHC	0.314	0.019	0.013	ug/l	0.472	ND	67	50-120			
Dieldrin	0.390	0.019	0.0075	ug/l	0.472	ND	83	50-120			
Endosulfan I	0.475	0.019	0.0075	ug/l	0.472	ND	101	50-120			
Endosulfan II	0.390	0.019	0.011	ug/l	0.472	ND	83	50-125			
Endosulfan sulfate	0.333	0.038	0.011	ug/l	0.472	ND	71	55-125			
Endrin	0.413	0.019	0.0075	ug/l	0.472	ND	88	50-120			
Endrin aldehyde	0.190	0.038	0.0075	ug/l	0.472	ND	40	45-125			M2
Endrin ketone	0.342	0.038	0.011	ug/l	0.472	ND	72	50-125			
gamma-BHC (Lindane)	0.371	0.075	0.011	ug/l	0.472	ND	79	40-120			
Heptachlor	0.452	0.038	0.011	ug/l	0.472	ND	96	40-120			
Heptachlor epoxide	0.450	0.019	0.0094	ug/l	0.472	ND	95	50-120			
Methoxychlor	0.447	0.019	0.013	ug/l	0.472	ND	95	55-125			
Surrogate: Decachlorobiphenyl	0.418			ug/l	0.472		89	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	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Matrix Spike Analyzed: 02/12/2010 (10B1291-MS1)						Source: ITB0602-01					
Surrogate: Decachlorobiphenyl	0.418			ug/l	0.472		89	45-120			
Surrogate: Tetrachloro-m-xylene	0.220			ug/l	0.472		47	35-115			
Surrogate: Tetrachloro-m-xylene	0.220			ug/l	0.472		47	35-115			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1291-MSD1)						Source: ITB0602-01					
4,4'-DDD	0.364	0.019	0.0075	ug/l	0.472	ND	77	50-125	0.5	30	
4,4'-DDE	0.527	0.019	0.011	ug/l	0.472	ND	112	45-125	0.7	30	
4,4'-DDT	0.396	0.038	0.015	ug/l	0.472	ND	84	50-125	1	30	
Aldrin	0.384	0.019	0.0057	ug/l	0.472	ND	81	35-120	0.6	30	
alpha-BHC	0.367	0.019	0.0094	ug/l	0.472	ND	78	40-120	1	30	
beta-BHC	0.196	0.038	0.015	ug/l	0.472	ND	42	50-120	5	30	M2
delta-BHC	0.313	0.019	0.013	ug/l	0.472	ND	66	50-120	0.2	30	
Dieldrin	0.387	0.019	0.0075	ug/l	0.472	ND	82	50-120	0.7	30	
Endosulfan I	0.471	0.019	0.0075	ug/l	0.472	ND	100	50-120	1	30	
Endosulfan II	0.393	0.019	0.011	ug/l	0.472	ND	83	50-125	0.7	30	
Endosulfan sulfate	0.346	0.038	0.011	ug/l	0.472	ND	73	55-125	4	30	
Endrin	0.409	0.019	0.0075	ug/l	0.472	ND	87	50-120	1	30	
Endrin aldehyde	0.197	0.038	0.0075	ug/l	0.472	ND	42	45-125	4	30	M2
Endrin ketone	0.338	0.038	0.011	ug/l	0.472	ND	72	50-125	1	30	
gamma-BHC (Lindane)	0.368	0.075	0.011	ug/l	0.472	ND	78	40-120	0.6	30	
Heptachlor	0.441	0.038	0.011	ug/l	0.472	ND	93	40-120	3	30	
Heptachlor epoxide	0.447	0.019	0.0094	ug/l	0.472	ND	95	50-120	0.7	30	
Methoxychlor	0.442	0.019	0.013	ug/l	0.472	ND	94	55-125	1	30	
Surrogate: Decachlorobiphenyl	0.407			ug/l	0.472		86	45-120			
Surrogate: Decachlorobiphenyl	0.407			ug/l	0.472		86	45-120			
Surrogate: Tetrachloro-m-xylene	0.264			ug/l	0.472		56	35-115			
Surrogate: Tetrachloro-m-xylene	0.264			ug/l	0.472		56	35-115			

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METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1291 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1291-BLK1)											
Aroclor 1016	ND	0.50	0.25	ug/l							
Aroclor 1221	ND	0.50	0.25	ug/l							
Aroclor 1232	ND	0.50	0.25	ug/l							
Aroclor 1242	ND	0.50	0.25	ug/l							
Aroclor 1248	ND	0.50	0.25	ug/l							
Aroclor 1254	ND	0.50	0.25	ug/l							
Aroclor 1260	ND	0.50	0.25	ug/l							
Surrogate: Decachlorobiphenyl	0.422			ug/l	0.500		84	45-120			
LCS Analyzed: 02/11/2010 (10B1291-BS2)											
Aroclor 1016	2.94	0.50	0.25	ug/l	4.00		74	50-115			
Aroclor 1260	3.60	0.50	0.25	ug/l	4.00		90	60-120			
Surrogate: Decachlorobiphenyl	0.432			ug/l	0.500		86	45-120			
Matrix Spike Analyzed: 02/11/2010 (10B1291-MS2) Source: ITB0602-01											
Aroclor 1016	4.30	0.47	0.24	ug/l	3.77	ND	114	45-120			
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125			
Surrogate: Decachlorobiphenyl	0.388			ug/l	0.472		82	45-120			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1291-MSD2) Source: ITB0602-01											
Aroclor 1016	4.36	0.47	0.24	ug/l	3.77	ND	116	45-120	1	30	
Aroclor 1260	3.32	0.47	0.24	ug/l	3.77	ND	88	55-125	0.2	25	
Surrogate: Decachlorobiphenyl	0.383			ug/l	0.472		81	45-120			

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METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1991 Extracted: 02/17/10											
Blank Analyzed: 02/17/2010 (10B1991-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 02/17/2010 (10B1991-BS1)											
Hexane Extractable Material (Oil & Grease)	20.5	5.0	1.4	mg/l	20.0		102	78-114			
LCS Dup Analyzed: 02/17/2010 (10B1991-BSD1)											
Hexane Extractable Material (Oil & Grease)	20.2	5.0	1.4	mg/l	20.0		101	78-114	1	11	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 10B0874 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0874-BLK1)											
Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	ND	0.10	0.050	mg/l							
Chromium	ND	5.0	2.0	ug/l							
Cobalt	ND	10	2.0	ug/l							
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							
LCS Analyzed: 02/08/2010 (10B0874-BS1)											
Arsenic	489	10	7.0	ug/l	500		98	85-115			
Barium	0.490	0.010	0.0060	mg/l	0.500		98	85-115			
Beryllium	486	2.0	0.90	ug/l	500		97	85-115			
Boron	0.503	0.050	0.020	mg/l	0.500		101	85-115			
Calcium	2.44	0.10	0.050	mg/l	2.50		98	85-115			
Chromium	473	5.0	2.0	ug/l	500		95	85-115			
Cobalt	462	10	2.0	ug/l	500		92	85-115			
Iron	0.474	0.040	0.015	mg/l	0.500		95	85-115			
Magnesium	2.41	0.020	0.012	mg/l	2.50		96	85-115			
Manganese	474	20	7.0	ug/l	500		95	85-115			
Nickel	476	10	2.0	ug/l	500		95	85-115			
Vanadium	475	10	3.0	ug/l	500		95	85-115			
Zinc	474	20	6.0	ug/l	500		95	85-115			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0874 Extracted: 02/08/10											
Matrix Spike Analyzed: 02/08/2010 (10B0874-MS1)					Source: ITB0887-04						
Arsenic	479	10	7.0	ug/l	500	ND	96	70-130			
Barium	0.560	0.010	0.0060	mg/l	0.500	0.0762	97	70-130			
Beryllium	488	2.0	0.90	ug/l	500	ND	98	70-130			
Boron	0.528	0.050	0.020	mg/l	0.500	0.0420	97	70-130			
Calcium	15.2	0.10	0.050	mg/l	2.50	12.7	101	70-130			MHA
Chromium	484	5.0	2.0	ug/l	500	10.6	95	70-130			
Cobalt	466	10	2.0	ug/l	500	2.50	93	70-130			
Iron	9.51	0.040	0.015	mg/l	0.500	9.71	-40	70-130			MHA
Magnesium	7.65	0.020	0.012	mg/l	2.50	5.35	92	70-130			
Manganese	620	20	7.0	ug/l	500	151	94	70-130			
Nickel	482	10	2.0	ug/l	500	6.05	95	70-130			
Vanadium	493	10	3.0	ug/l	500	20.1	95	70-130			
Zinc	505	20	6.0	ug/l	500	33.9	94	70-130			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0874-MSD1)					Source: ITB0887-04						
Arsenic	487	10	7.0	ug/l	500	ND	97	70-130	2	20	
Barium	0.572	0.010	0.0060	mg/l	0.500	0.0762	99	70-130	2	20	
Beryllium	490	2.0	0.90	ug/l	500	ND	98	70-130	0.5	20	
Boron	0.544	0.050	0.020	mg/l	0.500	0.0420	100	70-130	3	20	
Calcium	15.4	0.10	0.050	mg/l	2.50	12.7	107	70-130	1	20	MHA
Chromium	489	5.0	2.0	ug/l	500	10.6	96	70-130	1	20	
Cobalt	474	10	2.0	ug/l	500	2.50	94	70-130	2	20	
Iron	9.03	0.040	0.015	mg/l	0.500	9.71	-137	70-130	5	20	MHA
Magnesium	7.76	0.020	0.012	mg/l	2.50	5.35	96	70-130	1	20	
Manganese	623	20	7.0	ug/l	500	151	94	70-130	0.6	20	
Nickel	493	10	2.0	ug/l	500	6.05	97	70-130	2	20	
Vanadium	504	10	3.0	ug/l	500	20.1	97	70-130	2	20	
Zinc	516	20	6.0	ug/l	500	33.9	96	70-130	2	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0879 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0879-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Copper	ND	2.00	0.500	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/08/2010 (10B0879-BS1)											
Antimony	87.8	2.0	0.30	ug/l	80.0		110	85-115			
Cadmium	87.1	1.0	0.10	ug/l	80.0		109	85-115			
Copper	80.1	2.00	0.500	ug/l	80.0		100	85-115			
Lead	85.6	1.0	0.20	ug/l	80.0		107	85-115			
Selenium	83.7	2.0	0.50	ug/l	80.0		105	85-115			
Silver	84.2	1.0	0.10	ug/l	80.0		105	85-115			
Thallium	85.9	1.0	0.20	ug/l	80.0		107	85-115			
Matrix Spike Analyzed: 02/08/2010 (10B0879-MS1) Source: ITB0856-01											
Antimony	88.1	2.0	0.30	ug/l	80.0	1.47	108	70-130			
Cadmium	84.9	1.0	0.10	ug/l	80.0	0.186	106	70-130			
Copper	82.8	2.00	0.500	ug/l	80.0	1.22	102	70-130			
Lead	80.0	1.0	0.20	ug/l	80.0	1.52	98	70-130			
Selenium	80.2	2.0	0.50	ug/l	80.0	1.12	99	70-130			
Silver	81.6	1.0	0.10	ug/l	80.0	ND	102	70-130			
Thallium	82.8	1.0	0.20	ug/l	80.0	ND	104	70-130			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0879-MSD1) Source: ITB0856-01											
Antimony	85.6	2.0	0.30	ug/l	80.0	1.47	105	70-130	3	20	
Cadmium	83.1	1.0	0.10	ug/l	80.0	0.186	104	70-130	2	20	
Copper	80.2	2.00	0.500	ug/l	80.0	1.22	99	70-130	3	20	
Lead	78.9	1.0	0.20	ug/l	80.0	1.52	97	70-130	1	20	
Selenium	79.4	2.0	0.50	ug/l	80.0	1.12	98	70-130	1	20	
Silver	79.4	1.0	0.10	ug/l	80.0	ND	99	70-130	3	20	
Thallium	81.4	1.0	0.20	ug/l	80.0	ND	102	70-130	2	20	

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0921 Extracted: 02/08/10											
Blank Analyzed: 02/08/2010 (10B0921-BLK1)											
Mercury	ND	0.20	0.10	ug/l							
LCS Analyzed: 02/08/2010 (10B0921-BS1)											
Mercury	8.22	0.20	0.10	ug/l	8.00		103	85-115			
Matrix Spike Analyzed: 02/08/2010 (10B0921-MS1)											
						Source: ITB0263-07					
Mercury	8.24	0.20	0.10	ug/l	8.00	ND	103	70-130			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0921-MSD1)											
						Source: ITB0263-07					
Mercury	8.09	0.20	0.10	ug/l	8.00	ND	101	70-130	2	20	

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1845 Extracted: 02/15/10											
Blank Analyzed: 02/16/2010 (10B1845-BLK1)											
Antimony	ND	2.0	0.30	ug/l							
Cadmium	ND	1.0	0.10	ug/l							
Lead	ND	1.0	0.20	ug/l							
Selenium	ND	2.0	0.50	ug/l							
Silver	ND	1.0	0.10	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 02/16/2010 (10B1845-BS1)											
Antimony	81.7	2.0	0.30	ug/l	80.0		102	85-115			
Cadmium	81.8	1.0	0.10	ug/l	80.0		102	85-115			
Lead	84.1	1.0	0.20	ug/l	80.0		105	85-115			
Selenium	82.4	2.0	0.50	ug/l	80.0		103	85-115			
Silver	84.4	1.0	0.10	ug/l	80.0		105	85-115			
Thallium	87.0	1.0	0.20	ug/l	80.0		109	85-115			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS1) Source: ITB1082-03											
Antimony	82.8	20	3.0	ug/l	80.0	ND	103	70-130			
Cadmium	81.7	10	1.0	ug/l	80.0	1.14	101	70-130			
Lead	74.3	10	2.0	ug/l	80.0	ND	93	70-130			
Selenium	88.1	20	5.0	ug/l	80.0	10.3	97	70-130			
Silver	82.2	10	1.0	ug/l	80.0	ND	103	70-130			
Thallium	78.4	10	2.0	ug/l	80.0	ND	98	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1845-MS2) Source: ITB0888-01											
Antimony	86.1	2.0	0.30	ug/l	80.0	ND	108	70-130			
Cadmium	83.4	1.0	0.10	ug/l	80.0	ND	104	70-130			
Lead	78.5	1.0	0.20	ug/l	80.0	ND	98	70-130			
Selenium	83.6	2.0	0.50	ug/l	80.0	0.511	104	70-130			
Silver	82.6	1.0	0.10	ug/l	80.0	ND	103	70-130			
Thallium	85.5	1.0	0.20	ug/l	80.0	ND	107	70-130			

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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: 10B1845 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1845-MSD1)						Source: ITB1082-03					
Antimony	85.7	20	3.0	ug/l	80.0	ND	107	70-130	4	20	
Cadmium	84.8	10	1.0	ug/l	80.0	1.14	105	70-130	4	20	
Lead	76.5	10	2.0	ug/l	80.0	ND	96	70-130	3	20	
Selenium	93.5	20	5.0	ug/l	80.0	10.3	104	70-130	6	20	
Silver	84.5	10	1.0	ug/l	80.0	ND	106	70-130	3	20	
Thallium	80.8	10	2.0	ug/l	80.0	ND	101	70-130	3	20	

Batch: 10B1846 Extracted: 02/15/10

Blank Analyzed: 02/16/2010 (10B1846-BLK1)

Arsenic	ND	10	7.0	ug/l							
Barium	ND	0.010	0.0060	mg/l							
Beryllium	ND	2.0	0.90	ug/l							
Boron	0.0453	0.050	0.020	mg/l							Ja
Calcium	0.0573	0.10	0.050	mg/l							Ja
Cobalt	ND	10	2.0	ug/l							
Iron	0.0219	0.040	0.015	mg/l							Ja
Magnesium	0.0150	0.020	0.012	mg/l							Ja
Manganese	ND	20	7.0	ug/l							
Nickel	ND	10	2.0	ug/l							
Vanadium	ND	10	3.0	ug/l							
Zinc	ND	20	6.0	ug/l							

LCS Analyzed: 02/16/2010 (10B1846-BS1)

Arsenic	521	10	7.0	ug/l	500		104	85-115			
Barium	0.489	0.010	0.0060	mg/l	0.500		98	85-115			
Beryllium	486	2.0	0.90	ug/l	500		97	85-115			
Boron	0.521	0.050	0.020	mg/l	0.500		104	85-115			
Calcium	2.42	0.10	0.050	mg/l	2.50		97	85-115			
Cobalt	461	10	2.0	ug/l	500		92	85-115			
Iron	0.499	0.040	0.015	mg/l	0.500		100	85-115			
Magnesium	2.42	0.020	0.012	mg/l	2.50		97	85-115			
Manganese	481	20	7.0	ug/l	500		96	85-115			
Nickel	480	10	2.0	ug/l	500		96	85-115			
Vanadium	489	10	3.0	ug/l	500		98	85-115			
Zinc	499	20	6.0	ug/l	500		100	85-115			

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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1846 Extracted: 02/15/10											
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS1)						Source: ITB0895-01					
Arsenic	543	10	7.0	ug/l	500	ND	109	70-130			
Barium	0.525	0.010	0.0060	mg/l	0.500	0.0235	100	70-130			
Beryllium	503	2.0	0.90	ug/l	500	ND	101	70-130			
Boron	0.617	0.050	0.020	mg/l	0.500	0.110	102	70-130			
Calcium	28.3	0.10	0.050	mg/l	2.50	24.7	144	70-130			MHA
Cobalt	468	10	2.0	ug/l	500	ND	94	70-130			
Iron	0.567	0.040	0.015	mg/l	0.500	ND	113	70-130			
Magnesium	7.76	0.020	0.012	mg/l	2.50	4.98	111	70-130			
Manganese	686	20	7.0	ug/l	500	190	99	70-130			
Nickel	488	10	2.0	ug/l	500	ND	98	70-130			
Vanadium	500	10	3.0	ug/l	500	ND	100	70-130			
Zinc	523	20	6.0	ug/l	500	12.7	102	70-130			
Matrix Spike Analyzed: 02/16/2010 (10B1846-MS2)						Source: ITB0887-04					
Arsenic	510	10	7.0	ug/l	500	ND	102	70-130			
Barium	0.496	0.010	0.0060	mg/l	0.500	0.0149	96	70-130			
Beryllium	481	2.0	0.90	ug/l	500	ND	96	70-130			
Boron	0.549	0.050	0.020	mg/l	0.500	0.0701	96	70-130			
Calcium	13.1	0.10	0.050	mg/l	2.50	11.0	84	70-130			MHA
Cobalt	453	10	2.0	ug/l	500	ND	91	70-130			
Iron	1.16	0.040	0.015	mg/l	0.500	0.642	104	70-130			
Magnesium	5.35	0.020	0.012	mg/l	2.50	3.23	85	70-130			
Manganese	477	20	7.0	ug/l	500	ND	95	70-130			
Nickel	465	10	2.0	ug/l	500	ND	93	70-130			
Vanadium	486	10	3.0	ug/l	500	ND	97	70-130			
Zinc	497	20	6.0	ug/l	500	10.3	97	70-130			
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						Source: ITB0895-01					
Arsenic	534	10	7.0	ug/l	500	ND	107	70-130	2	20	
Barium	0.502	0.010	0.0060	mg/l	0.500	0.0235	96	70-130	4	20	
Beryllium	480	2.0	0.90	ug/l	500	ND	96	70-130	5	20	
Boron	0.599	0.050	0.020	mg/l	0.500	0.110	98	70-130	3	20	
Calcium	27.1	0.10	0.050	mg/l	2.50	24.7	96	70-130	4	20	MHA
Cobalt	455	10	2.0	ug/l	500	ND	91	70-130	3	20	
Iron	0.509	0.040	0.015	mg/l	0.500	ND	102	70-130	11	20	
Magnesium	7.37	0.020	0.012	mg/l	2.50	4.98	96	70-130	5	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: 10B1846 Extracted: 02/15/10											
Matrix Spike Dup Analyzed: 02/16/2010 (10B1846-MSD1)						Source: ITB0895-01					
Manganese	658	20	7.0	ug/l	500	190	94	70-130	4	20	
Nickel	472	10	2.0	ug/l	500	ND	94	70-130	3	20	
Vanadium	480	10	3.0	ug/l	500	ND	96	70-130	4	20	
Zinc	510	20	6.0	ug/l	500	12.7	99	70-130	3	20	

Batch: 10B1953 Extracted: 02/16/10

Blank Analyzed: 02/16/2010 (10B1953-BLK1)

Mercury	ND	0.20	0.10	ug/l							
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LCS Analyzed: 02/16/2010 (10B1953-BS1)

Mercury	8.15	0.20	0.10	ug/l	8.00		102	85-115			
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Matrix Spike Analyzed: 02/16/2010 (10B1953-MS1)

Source: ITB0907-01

Mercury	7.43	0.20	0.10	ug/l	8.00	ND	93	70-130			
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Matrix Spike Dup Analyzed: 02/16/2010 (10B1953-MSD1)

Source: ITB0907-01

Mercury	7.66	0.20	0.10	ug/l	8.00	ND	96	70-130	3	20	
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Batch: 10B2106 Extracted: 02/17/10

Blank Analyzed: 02/17/2010 (10B2106-BLK1)

Copper	ND	2.00	0.500	ug/l							
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LCS Analyzed: 02/17/2010 (10B2106-BS1)

Copper	77.6	2.00	0.500	ug/l	80.0		97	85-115			
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METHOD BLANK/QC DATA

DISSOLVED METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B2106 Extracted: 02/17/10											
Matrix Spike Analyzed: 02/17/2010 (10B2106-MS1)						Source: ITB1775-07					
Copper	76.0	2.00	0.500	ug/l	80.0	2.19	92	70-130			
Matrix Spike Dup Analyzed: 02/17/2010 (10B2106-MSD1)						Source: ITB1775-07					
Copper	77.2	2.00	0.500	ug/l	80.0	2.19	94	70-130	2	20	

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DISSOLVED INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0756 Extracted: 02/06/10											
Blank Analyzed: 02/06/2010 (10B0756-BLK1)											
Chromium VI	ND	1.0	0.25	ug/l							
LCS Analyzed: 02/06/2010 (10B0756-BS1)											
Chromium VI	4.95	1.0	0.25	ug/l	5.00		99	90-110			
Matrix Spike Analyzed: 02/06/2010 (10B0756-MS1)											
						Source: ITB0889-01					
Chromium VI	4.80	1.0	0.25	ug/l	5.00	ND	96	90-110			
Matrix Spike Dup Analyzed: 02/06/2010 (10B0756-MSD1)											
						Source: ITB0889-01					
Chromium VI	4.91	1.0	0.25	ug/l	5.00	ND	98	90-110	2	10	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10B0757 Extracted: 02/06/10</u>											
Blank Analyzed: 02/06/2010 (10B0757-BLK1)											
Surfactants (MBAS)	ND	0.10	0.050	mg/l							
LCS Analyzed: 02/06/2010 (10B0757-BS1)											
Surfactants (MBAS)	0.245	0.10	0.050	mg/l	0.250		98	90-110			
Matrix Spike Analyzed: 02/06/2010 (10B0757-MS1)											
Surfactants (MBAS)	0.351	0.10	0.050	mg/l	0.250	0.130	88	50-125			
Matrix Spike Dup Analyzed: 02/06/2010 (10B0757-MSD1)											
Surfactants (MBAS)	0.353	0.10	0.050	mg/l	0.250	0.130	89	50-125	0.4	20	
<u>Batch: 10B0771 Extracted: 02/07/10</u>											
Blank Analyzed: 02/07/2010 (10B0771-BLK1)											
Turbidity	ND	1.0	0.040	NTU							
Duplicate Analyzed: 02/07/2010 (10B0771-DUP1)											
Turbidity	7.94	1.0	0.040	NTU		7.93			0.1	20	
<u>Batch: 10B0795 Extracted: 02/07/10</u>											
Blank Analyzed: 02/12/2010 (10B0795-BLK1)											
Biochemical Oxygen Demand	ND	2.0	0.50	mg/l							
LCS Analyzed: 02/12/2010 (10B0795-BS1)											
Biochemical Oxygen Demand	198	100	25	mg/l	198		100	85-115			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B0795 Extracted: 02/07/10											
LCS Dup Analyzed: 02/12/2010 (10B0795-BSD1)											
Biochemical Oxygen Demand	201	100	25	mg/l	198		102	85-115	2	20	
Batch: 10B0807 Extracted: 02/07/10											
Blank Analyzed: 02/07/2010 (10B0807-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate-N	ND	0.11	0.060	mg/l							
Nitrite-N	ND	0.15	0.090	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 02/07/2010 (10B0807-BS1)											
Chloride	4.79	0.50	0.25	mg/l	5.00		96	90-110			
Nitrate-N	1.06	0.11	0.060	mg/l	1.13		94	90-110			
Nitrite-N	1.47	0.15	0.090	mg/l	1.52		97	90-110			
Sulfate	9.92	0.50	0.20	mg/l	10.0		99	90-110			
Matrix Spike Analyzed: 02/07/2010 (10B0807-MS1) Source: ITB0887-04											
Chloride	9.87	0.50	0.25	mg/l	5.00	4.64	105	80-120			
Nitrate-N	1.52	0.11	0.060	mg/l	1.13	0.404	99	80-120			
Nitrite-N	1.51	0.15	0.090	mg/l	1.52	ND	100	80-120			
Sulfate	19.0	0.50	0.20	mg/l	10.0	8.79	102	80-120			
Matrix Spike Analyzed: 02/07/2010 (10B0807-MS2) Source: ITB0886-01											
Chloride	12.1	0.50	0.25	mg/l	5.00	7.33	96	80-120			C8
Nitrate-N	1.65	0.11	0.060	mg/l	1.13	0.587	94	80-120			
Nitrite-N	1.50	0.15	0.090	mg/l	1.52	ND	99	80-120			
Sulfate	16.1	0.50	0.20	mg/l	10.0	7.37	88	80-120			C8

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 10B0807 Extracted: 02/07/10</u>											
Matrix Spike Dup Analyzed: 02/07/2010 (10B0807-MSD1)						Source: ITB0887-04					
Chloride	9.84	0.50	0.25	mg/l	5.00	4.64	104	80-120	0.3	20	
Nitrate-N	1.52	0.11	0.060	mg/l	1.13	0.404	98	80-120	0.4	20	
Nitrite-N	1.53	0.15	0.090	mg/l	1.52	ND	100	80-120	0.9	20	
Sulfate	19.0	0.50	0.20	mg/l	10.0	8.79	102	80-120	0.03	20	
<u>Batch: 10B0814 Extracted: 02/08/10</u>											
Blank Analyzed: 02/08/2010 (10B0814-BLK1)											
Fluoride	0.0335	0.10	0.020	mg/l							Ja
LCS Analyzed: 02/08/2010 (10B0814-BS1)											
Fluoride	1.04	0.10	0.020	mg/l	1.00		104	90-110			
Matrix Spike Analyzed: 02/08/2010 (10B0814-MS1)						Source: ITB0610-01					
Fluoride	1.48	0.10	0.020	mg/l	1.00	0.481	100	80-120			
Matrix Spike Dup Analyzed: 02/08/2010 (10B0814-MSD1)						Source: ITB0610-01					
Fluoride	1.50	0.10	0.020	mg/l	1.00	0.481	101	80-120	1	20	
<u>Batch: 10B1001 Extracted: 02/09/10</u>											
Blank Analyzed: 02/09/2010 (10B1001-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 02/09/2010 (10B1001-BS1)											
Perchlorate	25.4	4.0	0.90	ug/l	25.0		102	85-115			

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Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1001 Extracted: 02/09/10											
Matrix Spike Analyzed: 02/09/2010 (10B1001-MS1)						Source: ITB0950-03					
Perchlorate	3400	400	90	ug/l	2500	958	98	80-120			
Matrix Spike Dup Analyzed: 02/09/2010 (10B1001-MSD1)						Source: ITB0950-03					
Perchlorate	3610	400	90	ug/l	2500	958	106	80-120	6	20	
Batch: 10B1250 Extracted: 02/10/10											
Blank Analyzed: 02/10/2010 (10B1250-BLK1)											
Total Cyanide	ND	5.0	2.2	ug/l							
LCS Analyzed: 02/10/2010 (10B1250-BS1)											
Total Cyanide	190	5.0	2.2	ug/l	200		95	90-110			
Matrix Spike Analyzed: 02/10/2010 (10B1250-MS1)						Source: ITB0359-02					
Total Cyanide	187	5.0	2.2	ug/l	200	ND	94	70-115			
Matrix Spike Dup Analyzed: 02/10/2010 (10B1250-MSD1)						Source: ITB0359-02					
Total Cyanide	182	5.0	2.2	ug/l	200	ND	91	70-115	3	15	
Batch: 10B1284 Extracted: 02/11/10											
Blank Analyzed: 02/11/2010 (10B1284-BLK1)											
Total Organic Carbon	ND	1.0	0.50	mg/l							
LCS Analyzed: 02/11/2010 (10B1284-BS1)											
Total Organic Carbon	10.0	1.0	0.50	mg/l	10.0		100	90-110			

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1284 Extracted: 02/11/10											
Matrix Spike Analyzed: 02/11/2010 (10B1284-MS1)						Source: ITB1082-01					
Total Organic Carbon	9.13	1.0	0.50	mg/l	5.00	4.47	93	80-120			
Matrix Spike Dup Analyzed: 02/11/2010 (10B1284-MSD1)						Source: ITB1082-01					
Total Organic Carbon	9.43	1.0	0.50	mg/l	5.00	4.47	99	80-120	3	20	
Batch: 10B1487 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1487-BLK1)											
Total Dissolved Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/12/2010 (10B1487-BS1)											
Total Dissolved Solids	1010	10	1.0	mg/l	1000		101	90-110			
Duplicate Analyzed: 02/12/2010 (10B1487-DUP1)						Source: ITB1082-01					
Total Dissolved Solids	2140	10	1.0	mg/l		2150			0.7	10	
Batch: 10B1489 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1489-BLK1)											
Specific Conductance	ND	NA	0.0	umhos/cm							
LCS Analyzed: 02/12/2010 (10B1489-BS1)											
Specific Conductance	ND	NA	0.0	umhos/cm	0.00			90-110			
Duplicate Analyzed: 02/12/2010 (10B1489-DUP1)						Source: ITB0887-01					
Specific Conductance	ND	NA	0.0	umhos/cm		0.00				5	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10B1575 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1575-BLK1)											
Ammonia-N (Distilled)	ND	0.50	0.50	mg/l							
LCS Analyzed: 02/12/2010 (10B1575-BS1)											
Ammonia-N (Distilled)	10.6	0.50	0.50	mg/l	10.0		106	80-115			
Matrix Spike Analyzed: 02/12/2010 (10B1575-MS1)											
						Source: ITB0887-04					
Ammonia-N (Distilled)	11.2	0.50	0.50	mg/l	10.0	0.560	106	70-120			
Matrix Spike Dup Analyzed: 02/12/2010 (10B1575-MSD1)											
						Source: ITB0887-04					
Ammonia-N (Distilled)	11.5	0.50	0.50	mg/l	10.0	0.560	109	70-120	2	15	
Batch: 10B1607 Extracted: 02/12/10											
Blank Analyzed: 02/12/2010 (10B1607-BLK1)											
Total Suspended Solids	ND	10	1.0	mg/l							
LCS Analyzed: 02/12/2010 (10B1607-BS1)											
Total Suspended Solids	990	10	1.0	mg/l	1000		99	85-115			
Duplicate Analyzed: 02/12/2010 (10B1607-DUP1)											
						Source: ITB0863-01					
Total Suspended Solids	14.0	10	1.0	mg/l		14.0			0	10	

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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
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Batch: 47247 Extracted: 02/16/10

Blank Analyzed: 02/18/2010 (G0B160000247B)

Source:

1,2,3,4,6,7,8-HpCDD	0.000052	0.00005	0.000015	ug/L				-			J
1,2,3,4,6,7,8-HpCDF	0.000039	0.00005	0.000018	ug/L				-			J, Q
2,3,7,8-TCDF	0.0000096	0.00001	0.000001	ug/L				-			J, Q
1,2,3,4,7,8,9-HpCDF	0.000029	0.00005	0.000023	ug/L				-			J, Q
1,2,3,4,7,8-HxCDD	0.000046	0.00005	0.000014	ug/L				-			J
1,2,3,4,7,8-HxCDF	0.000037	0.00005	0.000011	ug/L				-			J, Q
1,2,3,6,7,8-HxCDD	0.000003	0.00005	0.000014	ug/L				-			J, Q
1,2,3,6,7,8-HxCDF	0.000034	0.00005	0.000011	ug/L				-			J, Q
1,2,3,7,8,9-HxCDD	0.000032	0.00005	0.000011	ug/L				-			J, Q
1,2,3,7,8,9-HxCDF	0.000033	0.00005	0.0000079	ug/L				-			J
1,2,3,7,8-PeCDD	0.000024	0.00005	0.000003	ug/L				-			J, Q
1,2,3,7,8-PeCDF	ND	0.00005	0.000016	ug/L				-			
2,3,4,6,7,8-HxCDF	0.000029	0.00005	0.000001	ug/L				-			J, Q
2,3,4,7,8-PeCDF	ND	0.00005	0.000014	ug/L				-			
2,3,7,8-TCDD	ND	0.00001	0.000008	ug/L				-			
OCDD	0.000013	0.0001	0.000003	ug/L				-			J
OCDF	0.000008	0.0001	0.0000021	ug/L				-			J
Total HpCDD	0.000052	0.00005	0.000015	ug/L				-			J
Total HpCDF	0.000068	0.00005	0.000002	ug/L				-			J, Q
Total HxCDD	0.000014	0.00005	0.000013	ug/L				-			J, Q
Total HxCDF	0.000013	0.00005	0.0000079	ug/L				-			J, Q
Total PeCDD	0.000058	0.00005	0.000003	ug/L				-			J, Q
Total PeCDF	0.000011	0.00005	0.000001	ug/L				-			J, Q
Total TCDD	0.000016	0.00001	0.0000072	ug/L				-			J, Q
Total TCDF	0.0000096	0.00001	0.000001	ug/L				-			J, Q
Surrogate: 13C-2,3,7,8-TCDF	0.0015			ug/L	0.00200		74	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00076			ug/L	0.000800		95	35-197			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.0023			ug/L	0.00200		115	23-140			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.002			ug/L	0.00200		100	28-143			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0021			ug/L	0.00200		104	26-138			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0017			ug/L	0.00200		85	32-141			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.0017			ug/L	0.00200		85	26-152			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.0016			ug/L	0.00200		79	28-130			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.0017			ug/L	0.00200		83	26-123			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.002			ug/L	0.00200		100	29-147			

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Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 47247 Extracted: 02/16/10											
Blank Analyzed: 02/18/2010 (G0B160000247B)						Source:					
Surrogate: 13C-1,2,3,7,8-PeCDD	0.0014			ug/L	0.00200		69	25-181			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.0014			ug/L	0.00200		68	24-185			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.0017			ug/L	0.00200		84	28-136			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0014			ug/L	0.00200		70	21-178			
Surrogate: 13C-2,3,7,8-TCDD	0.0013			ug/L	0.00200		67	25-164			
Surrogate: 13C-OCDD	0.0047			ug/L	0.00400		116	17-157			
LCS Analyzed: 02/18/2010 (G0B160000247C)						Source:					
1,2,3,4,6,7,8-HpCDD	0.00109	0.00005	0.0000041	ug/L	0.00100		109	70-140			Ba
1,2,3,4,6,7,8-HpCDF	0.00111	0.00005	0.0000047	ug/L	0.00100		111	82-122			Ba
2,3,7,8-TCDF	0.000219	0.00001	0.00000096	ug/L	0.000200		109	75-158			Ba
1,2,3,4,7,8,9-HpCDF	0.00109	0.00005	0.0000059	ug/L	0.00100		109	78-138			Ba
1,2,3,4,7,8-HxCDD	0.00113	0.00005	0.0000012	ug/L	0.00100		113	70-164			Ba
1,2,3,4,7,8-HxCDF	0.00116	0.00005	0.00000098	ug/L	0.00100		116	72-134			Ba
1,2,3,6,7,8-HxCDD	0.00111	0.00005	0.0000011	ug/L	0.00100		111	76-134			Ba
1,2,3,6,7,8-HxCDF	0.0011	0.00005	0.00000088	ug/L	0.00100		110	84-130			Ba
1,2,3,7,8,9-HxCDD	0.00113	0.00005	0.00000092	ug/L	0.00100		113	64-162			Ba
1,2,3,7,8,9-HxCDF	0.00109	0.00005	0.00000074	ug/L	0.00100		109	78-130			Ba
1,2,3,7,8-PeCDD	0.00108	0.00005	0.0000031	ug/L	0.00100		108	70-142			Ba
1,2,3,7,8-PeCDF	0.00111	0.00005	0.0000023	ug/L	0.00100		111	80-134			
2,3,4,6,7,8-HxCDF	0.00113	0.00005	0.0000009	ug/L	0.00100		113	70-156			Ba
2,3,4,7,8-PeCDF	0.00114	0.00005	0.0000026	ug/L	0.00100		114	68-160			
2,3,7,8-TCDD	0.000199	0.00001	0.0000014	ug/L	0.000200		99	67-158			
OCDD	0.00208	0.0001	0.0000051	ug/L	0.00200		104	78-144			Ba
OCDF	0.00191	0.0001	0.0000025	ug/L	0.00200		95	63-170			Ba
Surrogate: 13C-2,3,7,8-TCDF	0.00153			ug/L	0.00200		76	22-152			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.000733			ug/L	0.000800		92	31-191			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00206			ug/L	0.00200		103	26-166			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00184			ug/L	0.00200		92	21-158			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.0018			ug/L	0.00200		90	20-186			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.0015			ug/L	0.00200		75	21-193			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00167			ug/L	0.00200		83	19-202			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00167			ug/L	0.00200		83	25-163			
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00155			ug/L	0.00200		77	21-159			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00171			ug/L	0.00200		86	17-205			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00139			ug/L	0.00200		70	21-227			

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 Report Number: ITB0887

Sampled: 02/06/10
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METHOD BLANK/QC DATA

EPA-5 1613B

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 47247 Extracted: 02/16/10											
LCS Analyzed: 02/18/2010 (G0B160000247C)											
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00137			ug/L	0.00200		68	21-192			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00149			ug/L	0.00200		74	22-176			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.0014			ug/L	0.00200		70	13-328			
Surrogate: 13C-2,3,7,8-TCDD	0.00147			ug/L	0.00200		74	20-175			
Surrogate: 13C-OCDD	0.00408			ug/L	0.00400		102	13-199			
Blank Analyzed: 02/19/2010 (G0B16000247B2)											
2,3,7,8-TCDF	ND	0.00001	0.0000019	ug/L				-			
Surrogate: 13C-2,3,7,8-TCDF	0.0016			ug/L	0.00200		81	24-169			
Surrogate: 37Cl4-2,3,7,8-TCDD	0.00071			ug/L	0.000800		89	35-197			

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METHOD BLANK/QC DATA

ASTM 5174-91

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 53280 Extracted: 02/23/10											
Matrix Spike Dup Analyzed: 02/26/2010 (F0B090470001D)						Source: F0B090470001					
Total Uranium	30	1.4	0.4	pCi/L	27.7	0.566	106	62-150	1	20	
Matrix Spike Analyzed: 02/26/2010 (F0B090470001S)						Source: F0B090470001					
Total Uranium	29.7	1.4	0.4	pCi/L	27.7	0.566	105	62-150			
Blank Analyzed: 02/26/2010 (F0B220000280B)						Source:					
Total Uranium	0.046	0.693	0.21	pCi/L				-			U
LCS Analyzed: 02/26/2010 (F0B220000280C)						Source:					
Total Uranium	30.2	0.7	0.2	pCi/L	27.7		109	90-120			

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METHOD BLANK/QC DATA

EPA 900.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 43108 Extracted: 02/10/10											
Matrix Spike Analyzed: 02/18/2010 (F0B090470001S)						Source: F0B090470001					
Gross Alpha	47.2	3	1	pCi/L	5.54		108	90-120			
Gross Beta	79	4	1.5	pCi/L	49.4	2	91	35-150			
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						Source: F0B090470001					
Gross Alpha	0.84	3	0.94	pCi/L	68.0	3.9	110	54-150			
Gross Beta	3.2	4	1.5	pCi/L		2		-			U
Blank Analyzed: 02/19/2010 (F0B120000108B)						Source: F0B090470001					
Gross Alpha	-0.28	2	0.87	pCi/L		3.9		-			Jb
Gross Beta	-0.23	4	1.1	pCi/L				-			U
LCS Analyzed: 02/19/2010 (F0B120000108C)						Source:					
Gross Alpha	34.8	3	1.2	pCi/L				-			U
Gross Beta	71.6	4	1	pCi/L	49.4		70	62-134			

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METHOD BLANK/QC DATA

EPA 901.1 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 42136 Extracted: 02/11/10											
Duplicate Analyzed: 02/19/2010 (F0B090470001X)						Source: F0B090470001					
Cesium 137	1.2	20	14	pCi/L	68.0		105	58-133			
Potassium 40	-50	NA	200	pCi/L		-2.9		-			U
Blank Analyzed: 02/19/2010 (F0B110000136B)						Source: F0B090470001					
Cesium 137	1.8	20	14	pCi/L		-100		-			U
Potassium 40	-80	NA	210	pCi/L				-			U
LCS Analyzed: 02/19/2010 (F0B110000136C)						Source:					
Americium 241	140000	NA	500	pCi/L				-			U
Cobalt 60	88000	NA	200	pCi/L	53100		100	90-110			
Cesium 137	52900	20	200	pCi/L	141000		99	87-110			

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METHOD BLANK/QC DATA

EPA 903.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41160 Extracted: 02/10/10											
Duplicate Analyzed: 02/26/2010 (F0B090467001X)											
Radium (226)	0.07	1	0.29	pCi/L	87900		100	89-110			
Blank Analyzed: 02/26/2010 (F0B100000160B)											
Radium (226)	0.092	1	0.14	pCi/L		0.089		-			U
LCS Analyzed: 02/26/2010 (F0B100000160C)											
Radium (226)	10.4	1	0.2	pCi/L				-			U

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

EPA 904 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 60257 Extracted: 03/01/10											
Blank Analyzed: 03/05/2010 (F0C010000257B)						Source:					
Radium 228	0.08	1	0.39	pCi/L	11.3		93	68-136			
LCS Analyzed: 03/05/2010 (F0C010000257C)						Source:					
Radium 228	6.23	1	0.39	pCi/L				-			U
LCS Dup Analyzed: 03/05/2010 (F0C010000257L)						Source:					
Radium 228	6.35	1	0.4	pCi/L	6.40		97	60-142			

TestAmerica Irvine

Debby Wilson For Heather Clark
 Project Manager

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

EPA 905 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 41162 Extracted: 02/10/10											
Duplicate Analyzed: 02/19/2010 (F0B090475001X)											
Strontium 90	-0.15	3	0.42	pCi/L	6.40		99	60-142	2	40	
Blank Analyzed: 02/19/2010 (F0B100000162B)											
Strontium 90	-0.15	3	0.38	pCi/L		-0.05		-			U
LCS Analyzed: 02/19/2010 (F0B100000162C)											
Strontium 90	6.82	3	0.34	pCi/L				-			U

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

Project ID: Annual Outfall 001
 Annual Outfall 001
 Report Number: ITB0887

Sampled: 02/06/10
 Received: 02/06/10

METHOD BLANK/QC DATA

EPA 906.0 MOD

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 49035 Extracted: 02/18/10											
Duplicate Analyzed: 02/18/2010 (F0B090470001X)						Source: F0B090470001					
Tritium	80	500	92	pCi/L	6.80		100	80-130			
Matrix Spike Analyzed: 02/18/2010 (F0B090473001S)						Source: F0B090470001					
Tritium	4650	500	90	pCi/L		114	-				U
Blank Analyzed: 02/18/2010 (F0B180000035B)						Source: F0B090473001					
Tritium	165	500	95	pCi/L	4530	122	100	62-147			
LCS Analyzed: 02/18/2010 (F0B180000035C)						Source:					
Tritium	4440	500	90	pCi/L			-				Jb

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
Ba	Method blank contamination. The associated method blank contains the target analyte at a reportable level.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
C8	Calibration Verification recovery was above the method control limit for this analyte. A high bias may be indicated.
J	Estimated result. Result is less than the reporting limit.
Ja	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
Jb	Result is greater than sample detection limit but less than stated reporting limit.
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.
Q	Estimated maximum possible concentration (EMPC).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
R-3	The RPD exceeded the acceptance limit due to sample matrix effects.
RL1	Reporting limit raised due to sample matrix effects.
U	Result is less than the sample detection limit.
Z2	Surrogate recovery was above the acceptance limits. Data not impacted.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 1,2-Diphenylhydrazine:

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

For GRO (C4-C12):

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

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

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

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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ITB0887 <Page 76 of 78>

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 120.1	Water	X	X
EPA 1664A	Water	X	X
EPA 180.1	Water	X	X
EPA 200.7-Diss	Water	X	X
EPA 200.7	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 218.6	Water	X	X
EPA 245.1-Diss	Water	X	X
EPA 245.1	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
EPA 608	Water	X	X
EPA 624	Water	X	X
EPA 625	Water	X	X
EPA 8015 Mod.	Water	X	X
EPA 8015B	Water	X	X
EPA 8260B-SIM	Water	X	X
SM 2540D	Water	X	X
SM 4500-F-C	Water	X	X
SM2340B-Diss	Water		
SM2340B	Water	X	X
SM2540C	Water	X	
SM2540F	Water	X	X
SM4500CN-E	Water	X	X
SM4500NH3-C	Water	X	X
SM5210B	Water	X	X
SM5310B	Water	X	X
SM5540-C	Water	X	X

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

Subcontracted Laboratories

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

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

Project ID: Annual Outfall 001
Annual Outfall 001
Report Number: ITB0887

Sampled: 02/06/10
Received: 02/06/10

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chronic
Samples: ITB0887-04

Analysis Performed: Bioassay-Acute 96hr
Samples: ITB0887-01

TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Method Performed: ASTM 5174-91
Samples: ITB0887-04

Method Performed: EPA 900.0 MOD
Samples: ITB0887-04

Method Performed: EPA 901.1 MOD
Samples: ITB0887-04

Method Performed: EPA 903.0 MOD
Samples: ITB0887-04

Method Performed: EPA 904 MOD
Samples: ITB0887-04RE1

Method Performed: EPA 905 MOD
Samples: ITB0887-04

Method Performed: EPA 906.0 MOD
Samples: ITB0887-04

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: EPA-5 1613B
Samples: ITB0887-04, ITB0887-04RE1

Truesdail Laboratories-SUB *California Cert #1237*

14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine
Samples: ITB0887-04

TestAmerica Irvine

Debby Wilson For Heather Clark
Project Manager

Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Annual Outfall 001 COMPOSITE					
Test America Contact: Joseph Doak		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515					
Project Manager: Bronwyn Kelly Sampler: <i>S. Dawson</i>		ANALYSIS REQUIRED Total Recoverable Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Ni, Se, Ag, Tl, Zn, Co, V, Hardness as CaCO ₃ TCDD (and all congeners) BOD ₅ (20 degrees C) Surfactants (MBSA) Cr, SO ₄ , NO ₃ +NO ₂ -N, F, Perchlorate Nitrate-N, Nitrite-N Turbidity, TDS, TSS Ammonia-N (350.2) Alpha BHC (608) + Pesticides + PP 2,4,6 TCP, 2,4 Dinitrotoluene, Bis(2-ethylhexyl)phthalate, NDMA, PCP (SVOCs 625) + PP					
Sample Description	Sample Matrix	Container Type	# of cont.	Sampling Date/Time	Preservative	Bottle #	Comments
Outfall 001	W	1L Poly	1	7/6/10 0800	HNO ₃	14A ✓	24 TAT
Outfall 001 Dup	W	1L Poly	1		HNO ₃	14B ✓	24 TAT
Outfall 001	W	1L Amber	2		None	15A, 15B ✓	
Outfall 001	W	1L Poly	1		None	16 ✓	
Outfall 001	W	500 mL Poly	2		None	17A, 17B ✓	
Outfall 001	W	500 mL Poly	2		None	18A, 18B ✓	24 TAT
Outfall 001	W	500 mL Poly	1		None	19 ✓	24 TAT
Outfall 001	W	500 mL Poly	2		None	20A, 20B ✓	
Outfall 001	W	500 mL Poly	1		H ₂ SO ₄	21 ✓	
Outfall 001	W	1L Amber	2		None	22A, 22B ✓	
Outfall 001	W	1L Amber	2		None	23A, 23B ✓	

COC Page 2 of 3 and Page 3 of 3 are the composite samples for Outfall 001 for this storm event. These must be added to the same work order for COC Page 1 of 3 for Outfall 001 for the same event.

Relinquished By: <i>[Signature]</i>	Date/Time: 7/6/10 1430	Received By: <i>[Signature]</i>	Date/Time: 7/6/10 1430
Relinquished By: <i>[Signature]</i>	Date/Time: 7/6/10 1200	Received By: <i>[Signature]</i>	Date/Time: 7/6/10 1700
Relinquished By: <i>[Signature]</i>	Date/Time: 7/6/10 0600	Received By: <i>[Signature]</i>	Date/Time: 7/6/10 0600

Turn-around time: (Check)
 24 Hour: _____ 72 Hour: _____ 10 Day: _____
 48 Hour: _____ 5 Day: _____ Normal:

Sample Integrity: (Check)
 Intact: *CP* *2091*

Data Requirements: (Check)
 No Level IV: _____ All Level IV: _____ NPDES Level IV:

Client Name/Address: MWH-Arcadia 618 Michillinda Ave, Suite 200 Arcadia, CA 91007		Project: Boeing-SSFL NPDES Annual Outfall 001 COMPOSITE		ANALYSIS REQUIRED										Comments Unfiltered and unpreserved analysis Filter w/in 24hrs of receipt at lab									
Test America Contact: Joseph Doak		Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 Sampler: <i>S. Dawson</i>		Total Organic Carbon	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	PCBs	Monomethylhydrazine	Chronic Toxicity	Total Dissolved Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Ni, Se, Ag, Tl, Zn, Co, V, Hardness as CaCO ₃														
Sample Description Outfall 001	Sample Matrix W	Container Type VOAs	# of Cont. 3	Sampling Date/Time 2/6/10 0640	Preservative HCl	Bottle # 24A, 24B, 24C ✓	1,4-Dioxane	Total Organic Carbon	Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1)	PCBs	Monomethylhydrazine	Chronic Toxicity	Total Dissolved Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Ni, Se, Ag, Tl, Zn, Co, V, Hardness as CaCO ₃										
Outfall 001	W	250 mL Glass	1	HCl	25 ✓	X	X	X	X	X	X	X	X										
Outfall 001	W	2.5 Gal Cube 500 mL Amber	1 1	None None	26A ✓ 26B ✓	None None	X	X	X	X	X	X	X										
Outfall 001	W	1L Amber	2	None	27A, 27B ✓	None	X	X	X	X	X	X	X										
Outfall 001	W	1L Amber	2	None	28A, 28B ✓	None	X	X	X	X	X	X	X										
Outfall 001	W	1 Gal Cube	1	None	29 ✓	None	X	X	X	X	X	X	X										
Outfall 001	W	1L Poly	1	None	30 ✓	None	X	X	X	X	X	X	X										
COC Page 2 of 3 and Page 3 of 3 are the composite samples for Outfall 001 for this storm event.																							
Relinquished By: <i>S. Dawson</i>														Received By: <i>Jul</i>									
Date/Time: 2/6/10 1200														Date/Time: 2/6/10 1430									
Relinquished By: <i>Jul</i>														Received By: <i>Jul</i>									
Date/Time: 2/6/10 1200														Date/Time: 2/6/10 1700									
Relinquished By:														Received By:									
Date/Time:														Date/Time:									

These must be added to the same work order for COC Page 1 of 3 for Outfall 001 for the same event.

Turn-around time: (Check)
 24 Hour: ___ 72 Hour: ___ 10 Day: ___
 48 Hour: ___ 5 Day: ___ Normal: X

Sample Integrity: (Check)
 Intact: X
 Open: X
 2.91

Data Requirements: (Check)
 No Level IV: ___ All Level IV: ___ NPDES Level IV: ___ X

LABORATORY REPORT



"dedicated to providing quality aquatic toxicity testing"

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

Date: February 15, 2010
Client: TestAmerica, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-10020702-001/002
Sample I.D.: ITB0887-01, 04 (Outfall 001)

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

Date Sampled: 02/06/10
Date Received: 02/07/10
Temp. Received: 1.4°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 02/07/10 to 02/14/10

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

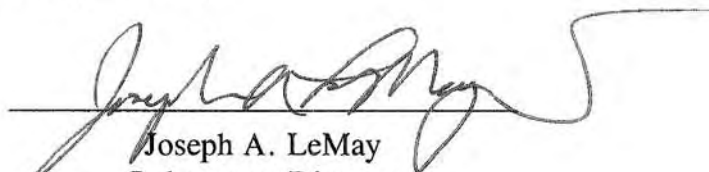
Fathead Minnow 96hr Percent Survival Bioassay (EPA Method 2000.0).
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

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

Quality Control: Reviewed and approved by:



Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0



Lab No.: A-10020702-001

Client/ID: TestAmerica ITB0887-01 Outfall 001

Start Date: 02/07/2010

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-100202.

TEST DATA

		°C	DO	pH	# Dead		Analyst & Time of Readings
					A	B	
INITIAL	Control	20.1	8.5	7.7	0	0	R 1400
	100%	20.0	9.9	7.4	0	0	
24 Hr	Control	19.4	8.1	8.0	0	0	R 1200
	100%	19.2	8.2	7.9	0	0	
48 Hr	Control	19.3	8.1	7.5	0	0	R 1300
	100%	19.1	8.0	8.0	0	0	
Renewal	Control	19.8	9.2	8.0	0	0	R 1300
	100%	20.4	9.6	7.5	0	0	
72 Hr	Control	19.4	7.1	7.5	0	0	R 1500
	100%	19.1	6.8	7.6	0	0	
96 Hr	Control	19.1	8.2	7.7	0	0	R 1400
	100%	19.0	7.9	7.6	0	0	

Comments:

Sample as received: Chlorine: 0.0 mg/l; pH: 7.4; Conductivity: 156 umho; Temp: 1.4°C;
 DO: 9.9 mg/l; Alkalinity: 47 mg/l; Hardness: 54 mg/l; NH₃-N: 0.2 mg/l.
 Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
 Control: Alkalinity: 71 mg/l; Hardness: 108 mg/l; Conductivity: 325 umho.
 Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No.
 Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
 Dissolved Oxygen (DO) readings in mg/l O₂.

RESULTS

Percent Survival In:	Control: <u>100</u> %	100% Sample: <u>100</u> %
----------------------	-----------------------	---------------------------



CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST

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

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-10020702-002
Client/ID: Test America – ITB0887-04 (Outfall 001)

Date Tested: 02/07/10 to 02/14/10

TEST SUMMARY

Test type: Daily static-renewal.
Species: *Ceriodaphnia dubia*.
Age: < 24 hrs; all released within 8 hrs.
Test vessel size: 30 ml.
Number of test organisms per vessel: 1.
Temperature: 25 +/- 1°C.
Dilution water: Mod. hard reconstituted (MHRW).
QA/QC Batch No.: RT-100207.

Endpoints: Survival and Reproduction.
Source: In-laboratory culture.
Food: .1 ml YTC, algae per day.
Test solution volume: 15 ml.
Number of replicates: 10.
Photoperiod: 16/8 hrs. light/dark cycle.
Test duration: 7 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival	Mean Number of Young Per Female
Control	100%	27.9
100% Sample	100%	33.5
* Sample not statistically significantly less than Control.		

CHRONIC TOXICITY

Survival NOEC	100%
Survival TUc	1.0
Reproduction NOEC	100%
Reproduction TUc	1.0

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% survival)
≥15 young per surviving control female	Pass (27.9 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction; if >47% and no toxicity at IWC, the test must be repeated	Pass (PMSD = 9.5%)
Statistically significantly different concentrations relative difference > 13%	Pass (no concentration significantly different)
Concentration response relationship acceptable	Pass (no significant response at concentration tested)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 2/7/2010 15:00 Test ID: 10020702c Sample ID: ITB0887-04
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 2/6/2010 06:40 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

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

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

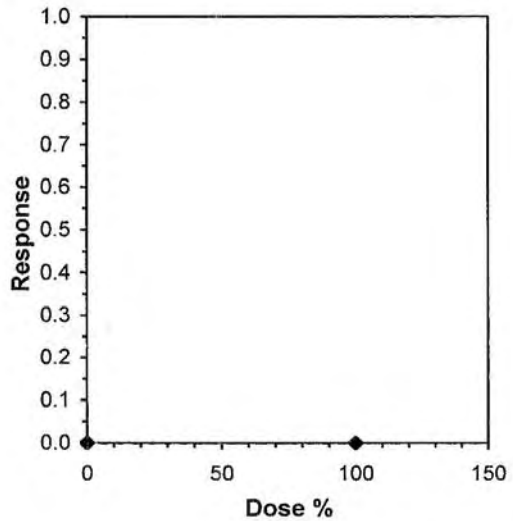
Hypothesis Test (1-tail, 0.05) NOEC LOEC ChV TU

Fisher's Exact Test 100 >100 1

Treatments vs D-Control

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Ceriodaphnia Survival and Reproduction Test-Reproduction

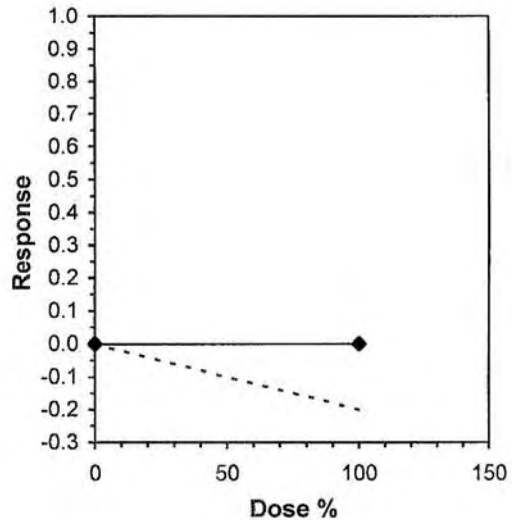
Start Date: 2/7/2010 15:00 Test ID: 10020702c Sample ID: ITB0887-04
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 2/6/2010 06:40 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	30.000	26.000	31.000	29.000	30.000	32.000	24.000	30.000	22.000	25.000
100	39.000	33.000	35.000	38.000	28.000	32.000	30.000	36.000	32.000	32.000

Conc-%	Mean	N-Mean	Transform: Untransformed					N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	Mean					N-Mean	
D-Control	27.900	1.0000	27.900	22.000	32.000	12.119	10				30.700	1.0000	
100	33.500	1.2007	33.500	28.000	39.000	10.365	10	-3.654	1.734	2.658	30.700	1.0000	

Auxiliary Tests	Statistic	Critical	Skew	Kurt		
Shapiro-Wilk's Test indicates normal distribution (p > 0.05)	0.9605	0.905	-0.1751	-0.9651		
F-Test indicates equal variances (p = 0.94)	1.05442	6.54109				
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences Treatments vs D-Control	2.65764	0.09526	156.8	11.7444	0.00182	1, 18

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



CERIODAPHNIA DUBIA CHRONIC BIOASSAY
EPA METHOD 1002.0 Raw Data Sheet



Lab No.: A-10020702-001

Client ID: TestAmerica - ITB0887-04 Outfall 001

Start Date: 02/07/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
Time of Readings:		1500	1430	1430	1500	1500	1400	1400	1400	1400	1500	1500	1600	1600	1400
Control	DO	8.3	8.1	8.2	8.3	8.2	8.4	8.2	8.0	8.3	8.0	8.1	7.8	8.0	8.1
	pH	7.7	7.8	7.6	7.8	8.0	7.6	7.7	7.9	7.7	7.6	7.7	7.7	7.5	7.5
	Temp	24.3	24.8	24.8	25.6	25.6	24.7	24.4	24.6	25.7	25.0	25.4	25.3	25.9	24.4
100%	DO	9.6	8.1	9.8	8.2	8.8	8.3	9.4	7.5	9.3	7.9	9.5	7.7	9.2	8.0
	pH	7.2	8.1	8.1	8.0	7.5	7.7	7.2	8.0	7.2	8.0	7.3	8.0	7.4	7.8
	Temp	24.6	24.8	24.5	25.6	25.1	25.1	25.0	24.9	25.1	25.1	24.7	25.6	25.0	24.4

Additional Parameters	Control	100% Sample
Conductivity (umohms)	349	98
Alkalinity (mg/l CaCO ₃)	67	40
Hardness (mg/l CaCO ₃)	90	45
Ammonia (mg/l NH ₃ -N)	20.1	20.1

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

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	[Signature]
	2	0	0	0	0	0	0	0	0	0	0	0	10	[Signature]
	3	4	5	4	4	4	0	3	3	2	4	33	10	[Signature]
	4	0	0	0	0	9	6	5	10	7	9	46	10	[Signature]
	5	8	6	10	9	0	0	16	17	13	12	91	10	[Signature]
	6	18	0	0	0	0	10	0	0	0	0	28	10	[Signature]
	7	0	15	17	16	17	16	(13)	(17)	(17)	(16)	81	10	[Signature]
	Total	30	26	31	29	30	32	24	30	22	25	279	10	[Signature]
100%	1	0	0	0	0	0	0	0	0	0	0	0	10	[Signature]
	2	0	0	0	0	0	0	0	0	0	0	0	10	[Signature]
	3	4	5	2	3	4	4	4	4	4	4	38	10	[Signature]
	4	0	0	0	0	6	9	9	10	10	12	56	10	[Signature]
	5	13	9	15	11	18	0	17	0	0	16	99	10	[Signature]
	6	22	19	18	24	0	19	0	22	18	0	142	10	[Signature]
	7	0	(16)	0	(19)	(17)	(22)	(18)	(19)	(16)	(19)	0	10	[Signature]
	Total	39	33	35	38	28	32	30	30	32	32	335	10	[Signature]

Circled fourth brood not used in statistical analysis.

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



CHAIN OF CUSTODY

SUBCONTRACT ORDER

TestAmerica Irvine

ITB0887

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB
4350 Transport Street, Unit 107
Ventura, CA 93003
Phone : (805) 650-0546
Fax: (805) 650-0756
Project Location: CA - CALIFORNIA
Receipt Temperature: 1.4°C Ice: Y N

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

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: ITB0887-01 (Outfall 001 (Grab) - Water)

Sampled: 02/06/10 10:20

Bioassay-Acute 96hr	% Survival	02/07/10 22:20	FH minnow, EPA/821-R02-012, Sub to Aquatic
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Containers Supplied:
1 gal Poly (S)

Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water)

Sampled: 02/06/10 06:40

Bioassay-7 dy Chrnrc	N/A	02/07/10 18:40	Cerio, EPA/821-R02-013, Sub to Aquatic
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Containers Supplied:
1 gal Poly (AA)

Released By: [Signature] Date/Time: 2-7-10 9:05
 Released By: [Signature] Date/Time: 11:00

Received By: [Signature] Date/Time: 2-7-10 9:05
 Received By: [Signature] Date/Time: 2-7-10 11:00



***REFERENCE
TOXICANT
DATA***

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



QA/QC Batch No.: RT-100202

TEST SUMMARY

Species: *Pimephales promelas*.

Age: 13 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 beakers.

Aeration: None.

Number of organisms per chamber: 10.

Photoperiod: 16/8 hrs light/dark.

TEST DATA

Date/Time:	INITIAL			24 Hr					48 Hr				
	<u>2-2-10 1200</u>			<u>2-3-10 1300</u>					<u>2-4-10 1200</u>				
	<u>Rm</u>			<u>Rm</u>					<u>Rm</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>19.6</u>	<u>8.4</u>	<u>7.6</u>	<u>19.4</u>	<u>7.9</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.2</u>	<u>7.1</u>	<u>7.9</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.6</u>	<u>19.2</u>	<u>8.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.2</u>	<u>7.3</u>	<u>7.7</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.7</u>	<u>19.1</u>	<u>8.0</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.1</u>	<u>7.2</u>	<u>7.6</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>19.6</u>	<u>8.5</u>	<u>7.7</u>	<u>19.1</u>	<u>7.6</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>19.1</u>	<u>7.2</u>	<u>7.6</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>19.6</u>	<u>8.6</u>	<u>7.7</u>	<u>19.0</u>	<u>6.8</u>	<u>7.3</u>	<u>10</u>	<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Date/Time:	RENEWAL			72 Hr					96 Hr				
	<u>2-4-10 1200</u>			<u>2-5-10 1200</u>					<u>2-6-10 1130</u>				
	<u>Rm</u>			<u>Rm</u>					<u>Rm</u>				
	°C	DO	pH	°C	DO	pH	# Dead		°C	DO	pH	# Dead	
A							B	A				B	
Control	<u>19.5</u>	<u>8.8</u>	<u>7.8</u>	<u>19.5</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.3</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
1.0 mg/l	<u>19.5</u>	<u>8.8</u>	<u>7.8</u>	<u>19.4</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.6</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
2.0 mg/l	<u>19.5</u>	<u>8.9</u>	<u>7.8</u>	<u>19.2</u>	<u>7.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.6</u>	<u>6.5</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
4.0 mg/l	<u>19.5</u>	<u>8.9</u>	<u>7.8</u>	<u>19.2</u>	<u>7.3</u>	<u>7.4</u>	<u>0</u>	<u>0</u>	<u>20.5</u>	<u>6.4</u>	<u>7.4</u>	<u>0</u>	<u>0</u>
8.0 mg/l	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Comments: Control: Alkalinity: 69 mg/l; Hardness: 94 mg/l; Conductivity: 330 umho.
 SDS: Alkalinity: 68 mg/l; Hardness: 94 mg/l; Conductivity: 333 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: 2/2/2010 12:00 Test ID: RT100202f Sample ID: REF-Ref Toxicant
 End Date: 2/6/2010 11:30 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SDS-Sodium dodecyl sulfate
 Sample Date: 2/2/2010 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	1.0000
8	0.0000	0.0000

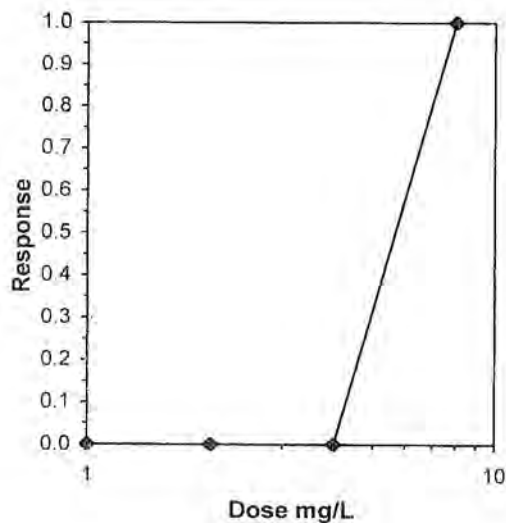
Conc-mg/L	Mean	N-Mean	Transform: Arcsin Square Root					N	Number Resp	Total Number
			Mean	Min	Max	CV%				
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20	
4	1.0000	1.0000	1.4120	1.4120	1.4120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

Graphical Method

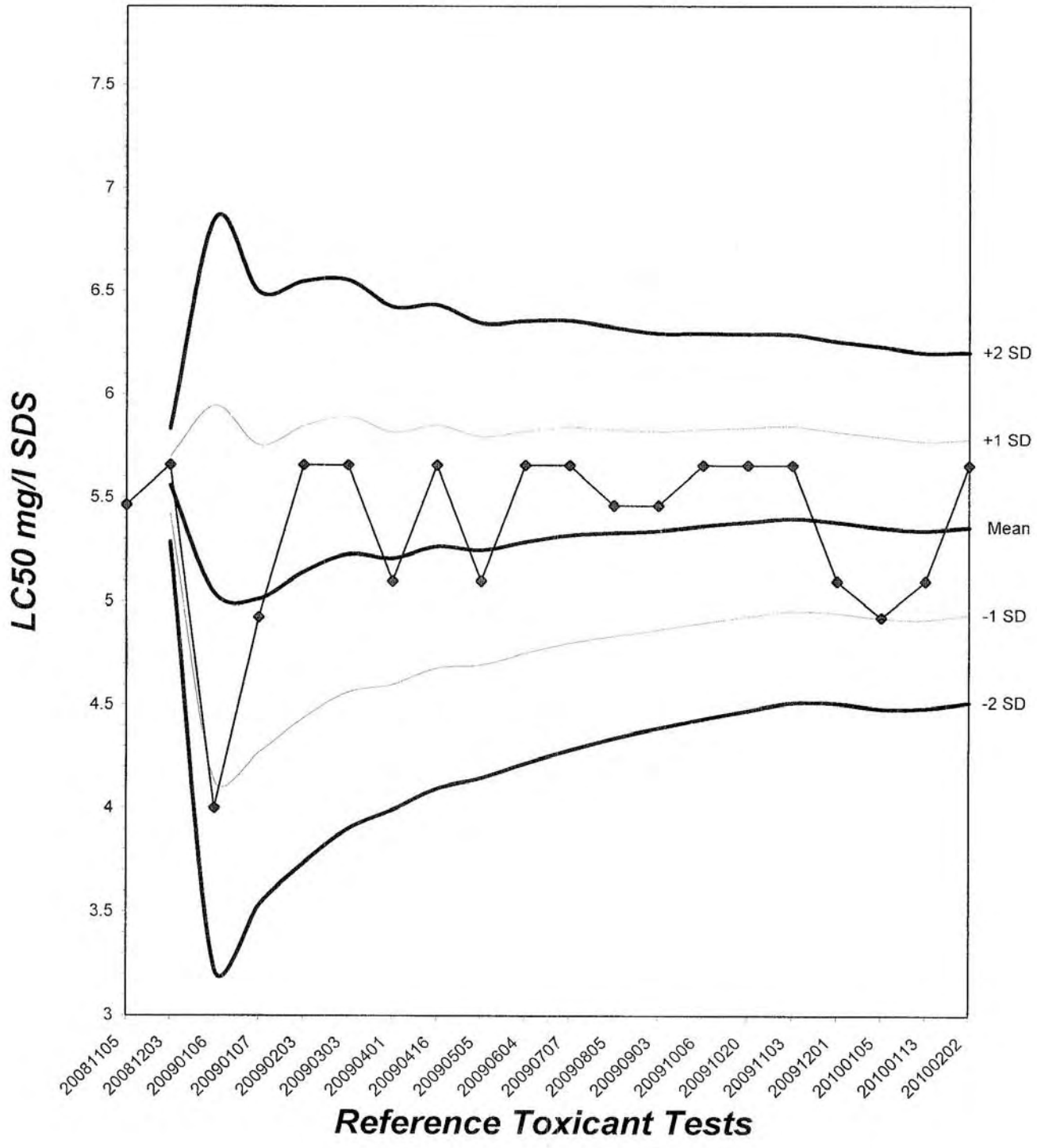
Trim Level	EC50
0.0%	5.6569

5.6569



Fathead Minnow Acute Laboratory Control Chart

CV% = 7.91



TEST ORGANISM LOG



FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-100202

SOURCE: In-Lab Culture

DATE HATCHED: 1-20-10

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO
TO USE IN TESTING: 0

DATE USED IN LAB: 1-15-10

AVERAGE FISH WEIGHT: 0.006 gm

LOADING LIMITS: 0.65 gm/liter @ 20°C, 0.40 gm/liter @ 25°C

Approximately 1000 fish per 10 liters limit if held overnight for acclimation without filtration @ 20°C for fish with a mean weight of 0.006 gm.

Approximately 650 fish per 10 liters limit if held overnight for acclimation without filtration @ 25°C for fish with a mean weight of 0.006 gm.

200 ml test solution volume = 0.013 gm mean fish weight limit @ 20°C; 0.008 @ 25°C

250 ml test solution volume = 0.016 gm mean fish weight limit @ 20°C; 0.010 @ 25°C

ACCLIMATION WATER QUALITY:

Temp.: 19.6°C

pH: 7.6

Ammonia: 20.1 mg/l NH₃-N

DO: 8.4 mg/l

Alkalinity: 69 mg/l

Hardness: 94 mg/l

READINGS RECORDED BY: _____

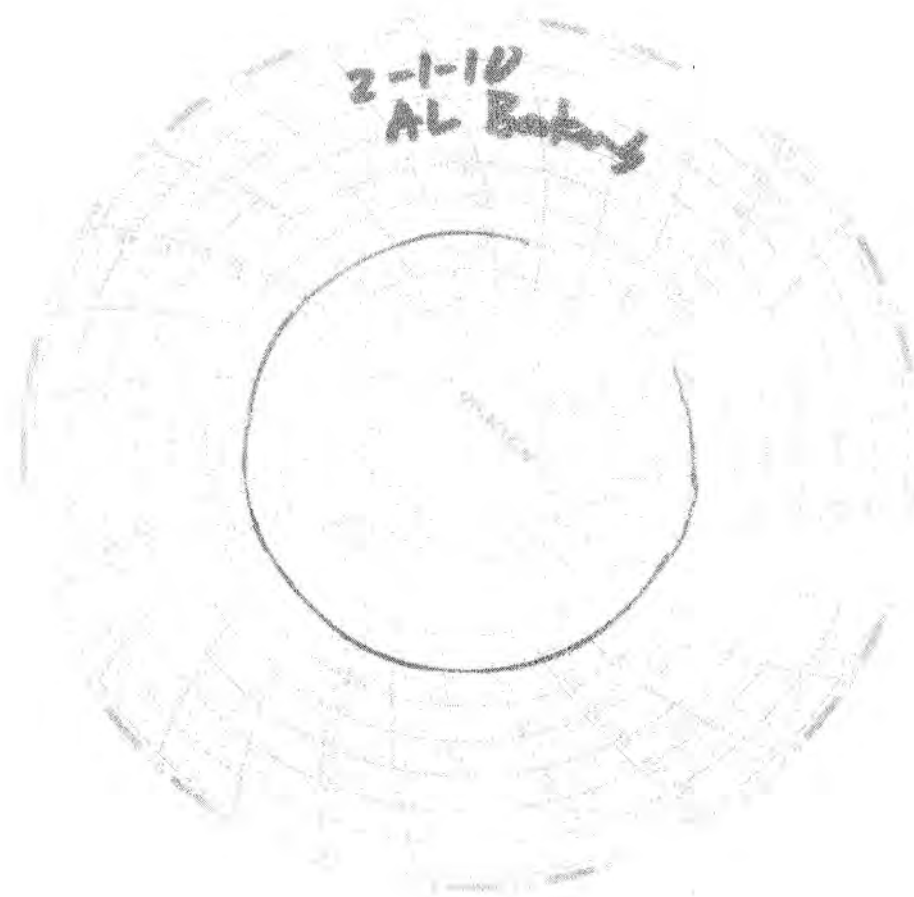
DATE: 2-3-10

Test Temperature Chart

Test No: RT-100202

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

Acceptable Range: 20+/- 1°C





Ceriodaphnia dubia
Chronic Toxicity Test
Reference
Toxicant
Data

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-100207

Date Tested: 02/07/10 to 02/14/10

TEST SUMMARY

Test type: Daily static-renewal.
 Species: *Ceriodaphnia dubia*.
 Age: < 24 hrs; all released within 8 hrs.
 Test vessel size: 30 ml.
 Number of test organisms per vessel: 1.
 Temperature: 25 +/- 1°C.
 Dilution water: Mod. hard reconstituted (MHRW).
 Reference Toxicant: Sodium chloride (NaCl).

Endpoints: Survival and Reproduction.
 Source: In-laboratory culture.
 Food: .1 ml YTC, algae per day.
 Test solution volume: 20 ml.
 Number of replicates: 10.
 Photoperiod: 16/8 hrs. light/dark cycle.
 Test duration: 7 days.
 Statistics: ToxCalc computer program.

RESULTS SUMMARY

Sample Concentration	Percent Survival		Mean Number of Young Per Female	
Control	100%		28.5	
0.25 g/l	100%		30.9	
0.5 g/l	100%		25.5	
1.0 g/l	100%		15.4	*
2.0 g/l	100%		2.9	*
4.0 g/l	0%	*	0	**

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

CHRONIC TOXICITY

Survival LC50	2.8 g/l
Reproduction IC25	0.66 g/l

QA/QC TEST ACCEPTABILITY

Parameter	Result
Control survival ≥80%	Pass (100% Survival)
≥15 young per surviving control female	Pass (28.5 young)
≥60% surviving controls had 3 broods	Pass (100% with 3 broods)
PMSD <47% for reproduction	Pass (PMSD = 14.7%)
Stat. sig. diff. conc. relative difference >13%	Pass (Stat. sig. diff. conc. Relative difference= 46.0%)
Concentration response relationship acceptable	Pass (Response curve normal)

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date: 2/7/2010 15:00 Test ID: RT100207c Sample ID: REF-Ref Toxicant
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 2/7/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

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

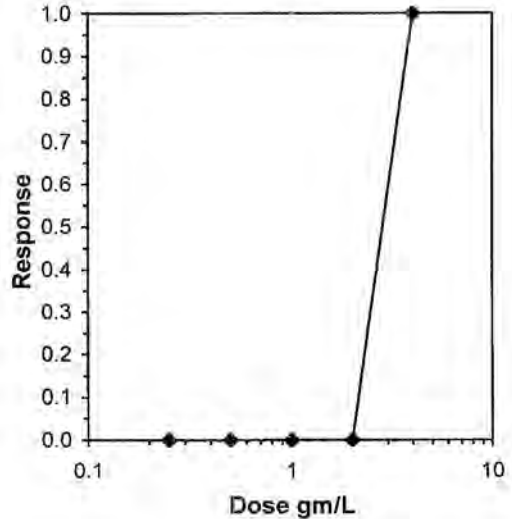
Conc-gm/L	Mean	N-Mean	Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical	Number Resp	Total Number
D-Control	1.0000	1.0000	0	10	10	10			0	10
0.25	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
0.5	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
1	1.0000	1.0000	0	10	10	10	1.0000	0.0500	0	10
2	1.0000	1.0000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

Hypothesis Test (1-tail, 0.05) **NOEC** **LOEC** **ChV** **TU**
 Fisher's Exact Test 2 4 2.82843
 Treatments vs D-Control

Graphical Method

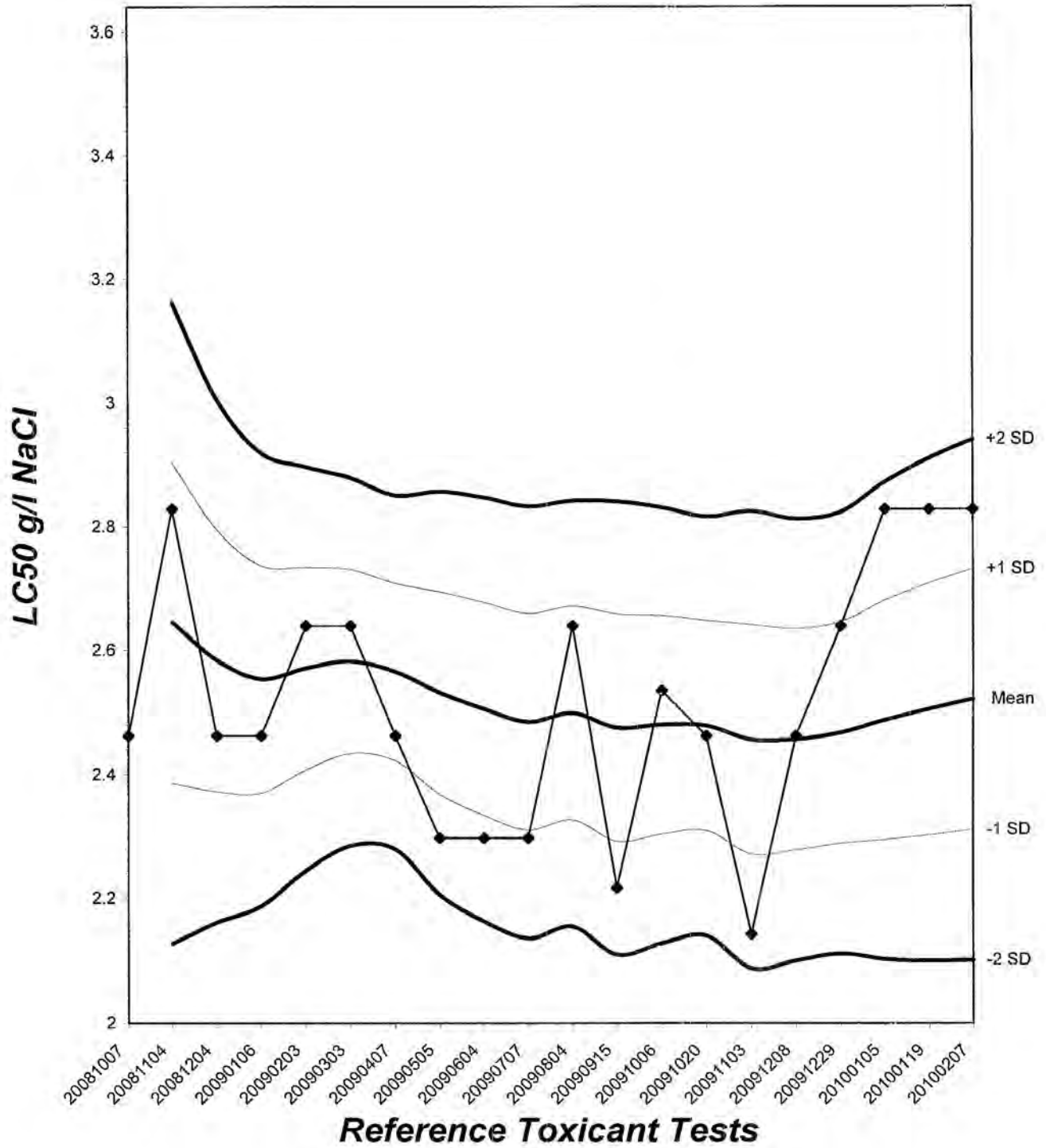
Trim Level **EC50**
 0.0% 2.8284

2.8284



Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 8.34



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 2/7/2010 15:00 Test ID: RT100207c Sample ID: REF-Ref Toxicant
 End Date: 2/14/2010 14:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 2/7/2010 Protocol: FWCH EPA Test Species: CD-Ceriodaphnia dubia
 Comments:

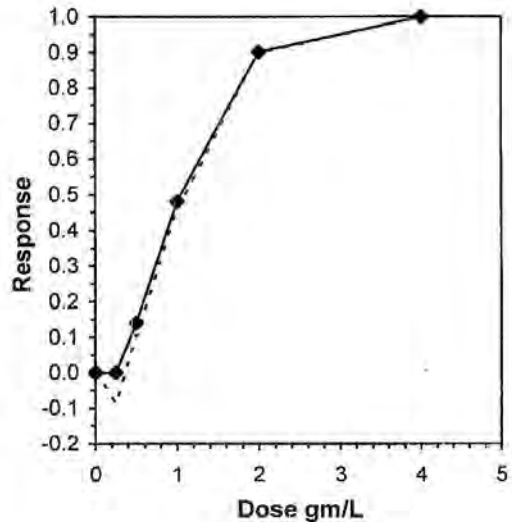
Conc-gm/L	1	2	3	4	5	6	7	8	9	10
D-Control	30.000	29.000	30.000	32.000	29.000	30.000	30.000	25.000	26.000	24.000
0.25	48.000	29.000	31.000	31.000	27.000	27.000	28.000	36.000	25.000	27.000
0.5	27.000	26.000	26.000	28.000	25.000	25.000	30.000	25.000	18.000	25.000
1	24.000	13.000	15.000	19.000	24.000	13.000	11.000	13.000	11.000	11.000
2	3.000	3.000	2.000	3.000	2.000	3.000	4.000	4.000	2.000	3.000
4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Conc-gm/L	Transform: Untransformed							Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
D-Control	28.500	1.0000	28.500	24.000	32.000	9.097	10			29.700	1.0000
0.25	30.900	1.0842	30.900	25.000	48.000	21.867	10	110.50	76.00	29.700	1.0000
0.5	25.500	0.8947	25.500	18.000	30.000	12.158	10	79.00	76.00	25.500	0.8586
*1	15.400	0.5404	15.400	11.000	24.000	33.280	10	56.00	76.00	15.400	0.5185
*2	2.900	0.1018	2.900	2.000	4.000	25.444	10	55.00	76.00	2.900	0.0976
4	0.000	0.0000	0.000	0.000	0.000	0.000	10			0.000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05)	0.87968	0.947	1.72192	5.90298
Bartlett's Test indicates unequal variances (p = 1.75E-06)	32.1843	13.2767		
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	0.5	1	0.70711	
Treatments vs D-Control				

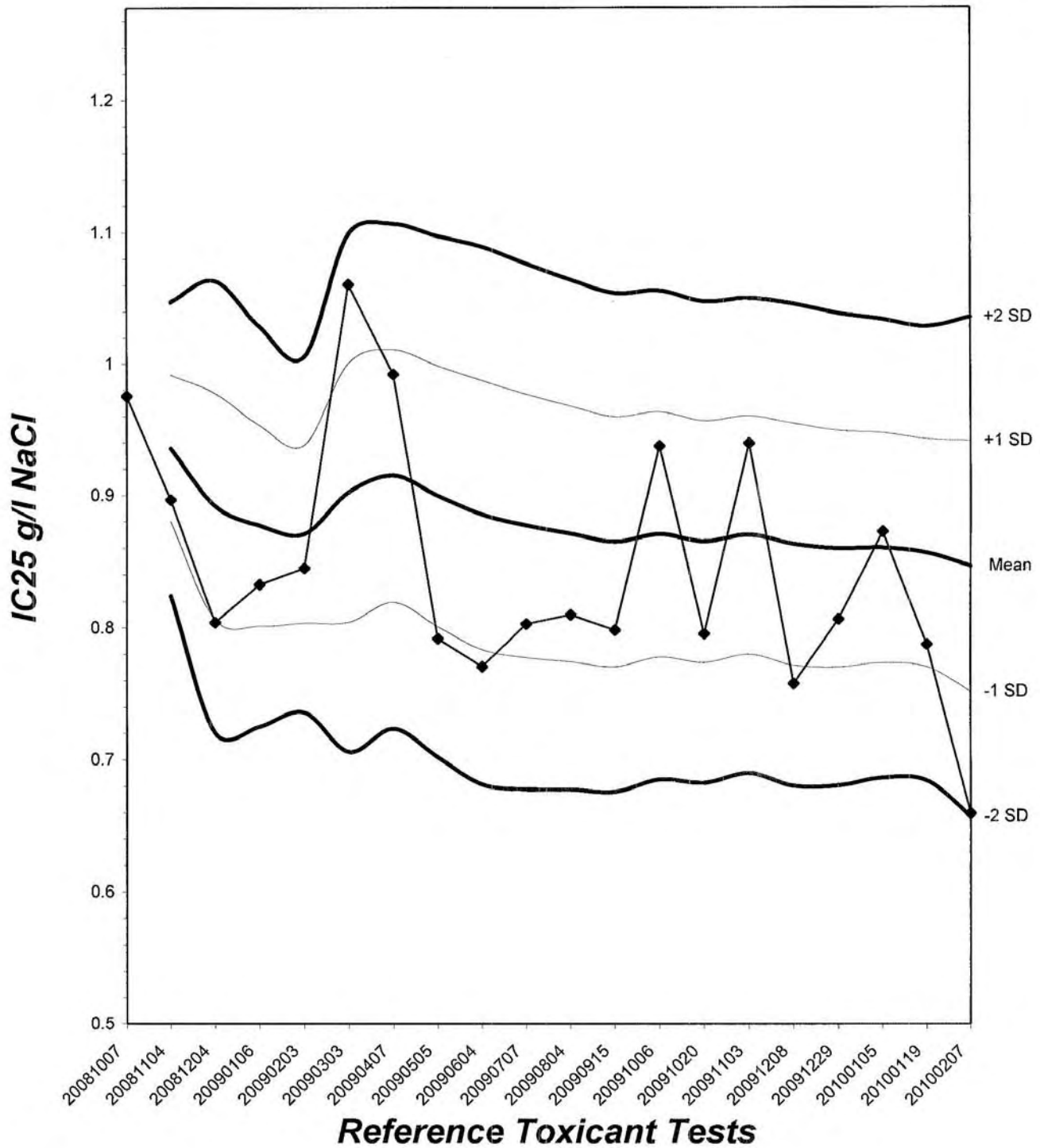
Linear Interpolation (200 Resamples)

Point	gm/L	SD	95% CL		Skew
IC05	0.3384	0.0442	0.2691	0.4525	0.4001
IC10	0.4268	0.0548	0.3537	0.5444	0.4118
IC15	0.5126	0.0553	0.4160	0.6069	0.0105
IC20	0.5861	0.0571	0.4714	0.6748	-0.2745
IC25	0.6597	0.0572	0.5402	0.7608	-0.3338
IC40	0.8802	0.0645	0.7629	1.0101	0.4008
IC50	1.0440	0.0882	0.8903	1.2112	0.2244



Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 11.2



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
Control	1	0	0	0	0	0	0	0	0	0	0	0	10	R
	2	0	0	0	0	0	0	0	0	0	0	0	10	R
	3	5	0	4	4	3	4	4	4	3	4	35	10	R
	4	0	5	0	0	0	9	10	7	9	9	49	10	R
	5	8	8	12	11	10	0	16	14	14	11	104	10	R
	6	0	0	0	0	0	17	(17)	(15)	(17)	(12)	17	10	R
	7	17	16	14	17	16	(15)	0	0	0	0	80	10	R
	Total	30	29	30	32	29	30	30	25	26	24	285	10	R
0.25 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	0	4	4	4	5	3	4	0	4	3	31	10	R
	4	0	0	0	0	9	8	11	10	9	0	47	10	R
	5	11	8	8	10	13	0	13	11	12	8	94	10	R
	6	18	17	19	17	(15)	16	(13)	0	(17)	16	103	10	R
	7	19	0	(7)	(16)	0	(17)	0	15	0	(15)	34	10	R
	Total	38	29	31	31	27	27	28	36	25	27	309	10	R
0.5 g/l	1	0	0	0	0	0	0	0	0	0	0	10	R	
	2	0	0	0	0	0	0	0	0	0	0	10	R	
	3	2	0	3	0	3	3	0	0	4	3	18	10	R
	4	0	4	4	2	5	0	6	4	6	5	36	10	R
	5	7	5	0	0	0	7	8	6	8	0	41	10	R
	6	18	17	19	12	17	0	16	0	0	0	99	10	R
	7	0	0	0	14	(16)	15	0	15	(14)	17	61	10	R
	Total	27	26	26	28	25	25	30	25	18	25	255	10	R

Circled fourth brood not used in statistical analysis.

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

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

Sample	Day	Number of Young Produced										Total Live Young	No. Live Adults	Analyst Initials
		A	B	C	D	E	F	G	H	I	J			
1.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	10	L
	2	0	0	0	0	0	0	0	0	0	0	0	10	
	3	3 0	0	2	3	3	0	0	2	2	0	15	10	
	4	0	2	5	2	4	0	0	3	3	0	19	10	
	5	5	4	0	0	0	0	4	0	0	0	19	10	
	6	0	0	0	14	17	0	0	0	0	4	35	10	
	7	16	7	8	0	0	2	7	8	6	7	66	10	
	Total	24	13	15	19	24	13	11	13	11	11	154	10	
2.0 g/l	1	0	0	0	0	0	0	0	0	0	0	10	L	
	2	0	0	0	0	0	0	0	0	0	0	10		
	3	0	0	0	0	0	0	0	0	0	0	10		
	4	0	0	0	0	0	0	0	0	0	0	10		
	5	0	0	0	0	0	0	0	0	0	0	10		
	6	0	0	2	0	0	0	0	3	0	0	5		10
	7	3	3	0	3	2	3	4	1	2	3	24		10
	Total	3	3	2	3	2	3	4	4	2	3	29		10
4.0 g/l	1	0	0	0	0	0	0	0	0	0	0	0	L	
	2	-	-	-	-	-	-	-	-	-	-	-		
	3	-	-	-	-	-	-	-	-	-	-	-		
	4	-	-	-	-	-	-	-	-	-	-	-		
	5	-	-	-	-	-	-	-	-	-	-	-		
	6	-	-	-	-	-	-	-	-	-	-	-		
	7	-	-	-	-	-	-	-	-	-	-	-		
	Total	0	0	0	0	0	0	0	0	0	0	0		0

Circled fourth brood not used in statistical analysis.

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

CARIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-100207

Start Date: 02/07/2010

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Analyst Initials:		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]		[Signature]	
Time of Readings:		1500	1430	1430	1500	1500	1400	1400	1400	1500	1500	1600	1600	1600	1400
Control	DO	8.3	8.3	8.1	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	7.9	8.0	8.0
	pH	7.7	8.0	8.2	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.6
	Temp	24.3	24.2	24.7	25.0	25.7	25.1	24.4	24.0	25.7	24.8	25.4	25.2	25.9	24.5
0.25 g/l	DO	8.4	8.4	8.2	8.4	8.2	8.3	8.3	8.2	8.4	8.2	8.1	8.0	8.0	7.9
	pH	8.0	7.8	8.0	8.0	8.0	7.8	8.0	7.8	7.7	7.7	7.7	7.8	7.5	7.5
	Temp	24.4	24.2	24.6	25.1	25.8	25.2	24.5	24.2	25.7	24.9	25.4	25.3	25.9	25.0
0.5 g/l	DO	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.1	8.4	8.2	8.1	8.0	8.0	8.1
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.5
	Temp	24.4	24.6	24.4	25.2	25.8	25.4	24.5	24.2	25.7	25.0	25.5	25.4	25.8	24.7
1.0 g/l	DO	8.3	8.4	8.4	8.3	8.3	8.2	8.3	8.1	8.3	8.3	8.2	7.9	8.0	8.0
	pH	7.9	7.8	7.8	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6
	Temp	24.4	24.6	24.5	25.2	25.9	25.4	24.6	24.1	25.8	25.0	25.6	25.4	25.8	24.4
2.0 g/l	DO	8.2	8.0	8.4	8.5	8.3	8.2	8.3	8.1	8.3	8.3	8.2	8.1	8.0	8.3
	pH	7.9	7.8	7.7	8.0	8.1	7.8	7.8	7.8	7.7	7.7	7.8	7.8	7.7	7.6
	Temp	24.6	24.8	24.5	25.2	26.0	25.3	24.8	24.1	25.9	25.1	25.8	25.3	25.6	24.7
4.0 g/l	DO	8.3	8.0	-	-	-	-	-	-	-	-	-	-	-	-
	pH	8.1	7.7	-	-	-	-	-	-	-	-	-	-	-	-
	Temp	24.5	25.1	-	-	-	-	-	-	-	-	-	-	-	-

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

Additional Parameters	Control			High Concentration		
	Day 1	Day 3	Day 5	Day 1	Day 3	Day 5
Conductivity (µS)	349	335	341	6240	3390	3510
Alkalinity (mg/l CaCO ₃)	67	68	67	67	68	68
Hardness (mg/l CaCO ₃)	90	93	92	90	92	92

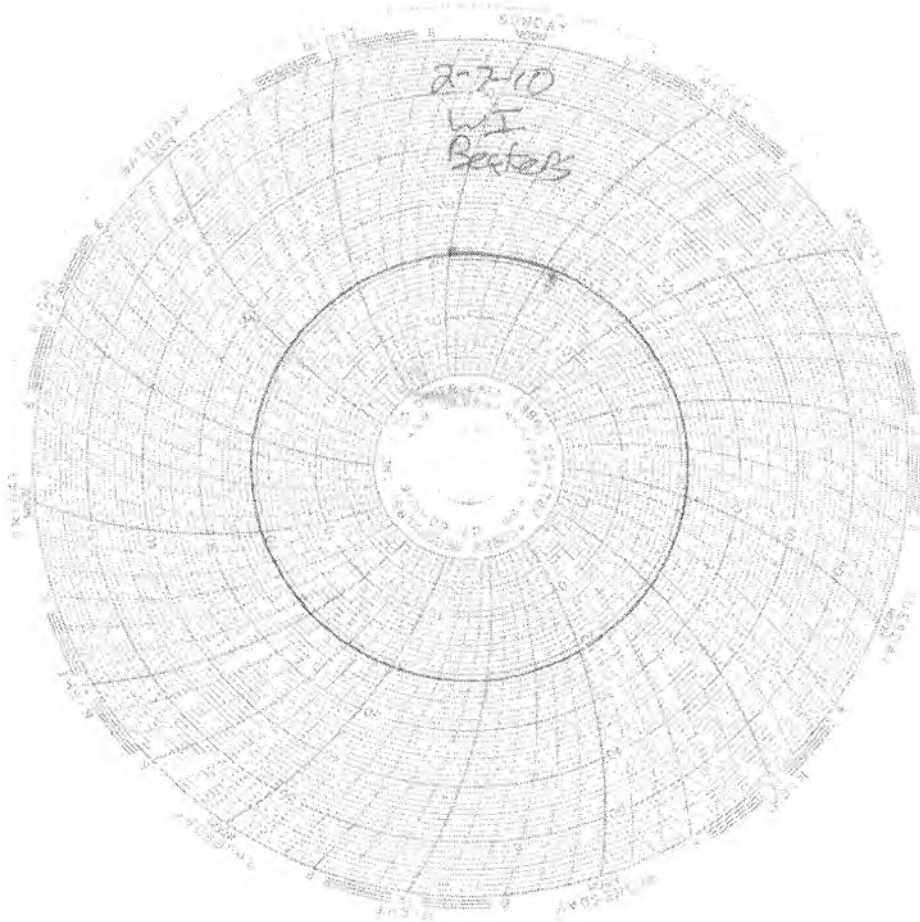
Source of Neonates										
Replicate:	A	B	C	D	E	F	G	H	I	J
Brood ID:	3A	3B	2C	2D	1E	1F	3G	2H	3I	1J

Test Temperature Chart

Test No: RT-100207

Date Tested: 02/07/10 to 02/14/10

Acceptable Range: 25+/- 1°C





TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

REVISED

PROJECT NO. ITB0887

MWH-Pasadena Boeing

Lot #: F0B090486

Joseph Doak

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

TESTAMERICA LABORATORIES, INC.


Kay Clay
Project Manager

March 17, 2010

Case Narrative
LOT NUMBER: F0B090486

Revised 03-17-10

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on February 9, 2010. This sample is associated with your MWH-Pasadena Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. **TestAmerica St. Louis' Florida certification number is E87689.** The case narrative is an integral part of this report.

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

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

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

Observations/Nonconformances

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

There are no observations or nonconformances associated with the analysis in this lot.

*and
122*

SUBCONTRACT ORDER

**TestAmerica Irvine
ITB0887 -**


Revised

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Phone : (314) 298-8566
Fax: (314) 298-8757

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: ITB0887-04	Water	Sampled: 02/06/10 06:40		
Gamma Spec-O	02/17/10 12:00	02/06/11 06:40		Out St Louis, k-40 and cs-137 only, DO NOT FILTER!
Level 4 Data Package - Out	02/17/10 12:00	03/06/10 06:40		
Uranium, Combined-O	02/17/10 12:00	02/06/11 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	02/17/10 12:00	02/06/11 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
Radium, Combined-O	02/17/10 12:00	02/06/11 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	02/17/10 12:00	02/06/11 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	02/17/10 12:00	08/05/10 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
Gross Alpha-O	02/17/10 12:00	08/05/10 06:40		Out St Louis, Boeing permit, DO NOT FILTER!
<i>Containers Supplied:</i>				
2.5 gal Poly (U)	500 mL Amber (V)			

Released By	Date	Received By	Date
		<i>[Signature]</i>	2-9-10 1100
Released By	Date	Received By	Date

LABORATORY ORDER

TestAmerica Irvine

ITB0887

SENDING LABORATORY:

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

RECEIVING LABORATORY:

TestAmerica St. Louis
 13715 Rider Trail North
 Earth City, MO 63045
 Phone: (314) 298-8566
 Fax: (314) 298-8757
 Project Location: CA - CALIFORNIA
 Receipt Temperature: _____ °C Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water) Sampled: 02/06/10 06:40

Gross Alpha-O	pCi/L	02/17/10	08/05/10 06:40	\$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Gross Beta-O	pCi/L	02/17/10	08/05/10 06:40	\$90.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Level 4 Data Package - Out	N/A	02/17/10	03/06/10 06:40	\$0.00	0%	
Radium, Combined-O	pCi/L	02/17/10	02/06/11 06:40	\$200.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Strontium 90-O	pCi/L	02/17/10	02/06/11 06:40	\$140.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Tritium-O	pCi/L	02/17/10	02/06/11 06:40	\$80.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!
Uranium, Combined-O	pCi/L	02/17/10	02/06/11 06:40	\$100.00	50%	Out St Louis, Boeing permit, DO NOT FILTER!

Containers Supplied:

2.5 gal Poly (U) 500 mL Amber (V)

Margaret Sawyer 2/8/10 17:00
 Released By Date/Time

FedEx 2/8/10 17:00
 Received By Date/Time



470, 482	489
473, 484	491
475, 485	494
476, 486	495

CONDITION UPON RECEIPT FORM

Client: TA Irvine

Quote No: 77635, 55044

COC/RFA No: below

122

Initiated By: EV

Date: 2-9-10

Time: 1100

Shipping Information

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

Shipping # (s):*		Sample Temperature (s):**	
1. <u>4289 2133 2309 MRB</u>	6. _____	1. <u>ambient</u>	6. _____
2. _____	7. _____	2. _____	7. _____
3. _____	8. _____	3. _____	8. _____
4. _____	9. _____	4. _____	9. _____
5. _____	10. _____	5. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

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

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

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

Notes: ITB0887 ITB0773

95	36	
88 SN 2.9.10	97	Revised chains were not relinquished for Boeing project.
94	98	
88	99	
92	0800	
86	0590	ITB0800 label time is 1315;
85	0602	c-o-c reads 1254
96		

Corrective Action:

- Client Contact Name: _____
 - Sample(s) processed "as is"
 - Sample(s) on hold until: _____
- Project Management Review: Jayma Pohl

Informed by: _____
 If released, notify: _____
 Date: 2-16-10

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

METHODS SUMMARY

FOB090486

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Gamma Spectroscopy - Cesium-137 & Hits	EPA 901.1 MOD	
Gross Alpha/Beta EPA 900	EPA 900.0 MOD	EPA 900.0
H-3 by Distillation & LSC	EPA 906.0 MOD	
Radium-226 by GFPC	EPA 903.0 MOD	
Radium-228 by GFPC	EPA 904 MOD	
Strontium 90 by GFPC	EPA 905 MOD	
Total Uranium By Laser Ph osphorimetry	ASTM 5174-91	

References:

ASTM Annual Book Of ASTM Standards.

EPA "EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984

SAMPLE SUMMARY

FOB090486

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LVF6M	001	ITB0887-04	02/06/10	06:40

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

TestAmerica Irvine

Client Sample ID: ITB0887-04

Radiochemistry

Lab Sample ID: FOB090486-001
 Work Order: LVF6M
 Matrix: WATER

Date Collected: 02/06/10 0640
 Date Received: 02/09/10 1100

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD							
				pCi/L		Batch # 0042136	Yld %
Cesium 137	1.3	U	8.1	20.0	15	02/11/10	02/19/10
Potassium 40	-180	U	810		290	02/11/10	02/19/10
Gross Alpha/Beta EPA 900							
				pCi/L		Batch # 0043108	Yld %
Gross Alpha	6.9		1.9	3.0	1.6	02/10/10	02/19/10
Gross Beta	8.1		1.3	4.0	1.2	02/10/10	02/19/10
SR-90 BY GFPC EPA-905 MOD							
				pCi/L		Batch # 0041162	Yld % 47
Strontium 90	-0.24	U	0.34	3.00	0.64	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD							
				pCi/L		Batch # 0049035	Yld %
Tritium	65	U	65	500	96	02/18/10	02/18/10
Total Uranium by KPA ASTM 5174-91							
				pCi/L		Batch # 0053280	Yld %
Total Uranium	0.369	J	0.042	0.693	0.21	02/23/10	02/26/10
Radium 226 by EPA 903.0 MOD							
				pCi/L		Batch # 0041160	Yld % 73
Radium (226)	0.06	U	0.12	1.00	0.21	02/10/10	02/26/10
Radium 228 by GFPC EPA 904 MOD							
				pCi/L		Batch # 0060257	Yld % 89
Radium 228	0.18	U	0.25	1.00	0.41	03/01/10	03/05/10

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

METHOD BLANK REPORT

Radiochemistry

Client Lot ID: F0B090486
 Matrix: WATER

Parameter	Result	Qual	Total Uncert. (2 σ +/-)	RL	MDC	Prep Date	Lab Sample ID Analysis Date
Radium 228 by GFPC EPA 904 MOD							
Radium 228	0.08	U	0.23	1.00	0.39	03/01/10	F0C010000-257B
Radium 226 by EPA 903.0 MOD							
Radium (226)	0.092	U	0.095	1.00	0.14	02/10/10	F0B100000-160B
SR-90 BY GFPC EPA-905 MOD							
Strontium 90	-0.15	U	0.20	3.00	0.38	02/10/10	F0B100000-162B
Gamma Cs-137 & Hits by EPA 901.1 MOD							
Cesium 137	1.8	U	7.7	20.0	14	02/11/10	F0B110000-136B
Potassium 40	-80	U	620		210	02/11/10	02/19/10
Gross Alpha/Beta EPA 900							
Gross Alpha	-0.28	U	0.35	2.00	0.87	02/10/10	F0B120000-108B
Gross Beta	-0.23	U	0.62	4.00	1.1	02/10/10	02/19/10
TRITIUM (Distill) by EPA 906.0 MOD							
Tritium	165	J	85	500	95	02/18/10	F0B180000-035B
Total Uranium by KPA ASTM 5174-91							
Total Uranium	0.0460	U	0.0057	0.693	0.21	02/23/10	F0B220000-280B

NOTE (S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Laboratory Control Sample Report

Radiochemistry

Client Lot ID: FOB090486
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 σ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
Radium 226 by EPA 903.0 MOD			pCi/L	903.0 MOD			FOB100000-160C
Radium (226)	11.3	10.4	1.1	0.2	97	93	(68 - 136)
	Batch #:	0041160		Analysis Date:	02/26/10		
SR-90 BY GFPC EPA-905 MOD			pCi/L	905 MOD			FOB100000-162C
Strontium 90	6.80	6.82	0.77	0.34	83	100	(80 - 130)
	Batch #:	0041162		Analysis Date:	02/19/10		
Gamma Cs-137 & Hits by EPA 901.1 MOD			pCi/L	901.1 MOD			FOB110000-136C
Americium 241	141000	140000	11000	500		99	(87 - 110)
Cesium 137	53100	52900	3000	200		100	(90 - 110)
Cobalt 60	87900	88000	5000	200		100	(89 - 110)
	Batch #:	0042136		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			FOB120000-108C
Gross Beta	68.0	71.6	6.0	1		105	(58 - 133)
	Batch #:	0043108		Analysis Date:	02/19/10		
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			FOB120000-108C
Gross Alpha	49.4	34.8	4.3	1.2		70	(62 - 134)
	Batch #:	0043108		Analysis Date:	02/19/10		
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			FOB180000-035C
Tritium	4530	4440	460	90		98	(85 - 112)
	Batch #:	0049035		Analysis Date:	02/18/10		
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			FOB220000-280C
Total Uranium	27.7	30.2	3.6	0.2		109	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		
Total Uranium by KPA ASTM 5174-91			pCi/L	5174-91			FOB220000-280C
Total Uranium	5.54	5.97	0.61	0.21		108	(90 - 120)
	Batch #:	0053280		Analysis Date:	02/26/10		

Laboratory Control Sample/LCS Duplicate Report

Radiochemistry

Client Lot ID: F0B090486
 Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2σ+/-)	% Yld	% Rec	Lab Sample ID	
						QC Control Limits	Precision
Radium 228 by GFPC EPA 904 MOD			pCi/L	904 MOD		F0C010000-257C	
Radium 228	6.40	6.23	0.74	87	97	(60 - 142)	
	Spk 2 6.40	6.35	0.77	84	99	(60 - 142)	
	Batch #: 0060257			Analysis Date: 03/05/10			

MATRIX SPIKE REPORT

Radiochemistry

Client Lot Id: FOB090473
 Matrix: WATER

Date Sampled: 02/05/10
 Date Received: 02/09/10

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L	906.0 MOD			FOB090473-001		
Tritium	4530	4650	470		122	77		100	(62 - 147)
	Batch #:	0049035		Analysis Date:	02/18/10				
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			FOB090470-001		
Gross Alpha	49.4	47.2	5.2		2.00	0.88		91	(35 - 150)
	Batch #:	0043108		Analysis Date:	02/18/10				
Gross Alpha/Beta EPA 900			pCi/L	900.0 MOD			FOB090470-001		
Gross Beta	68.0	79.0	6.6		3.9	1.2		110	(54 - 150)
	Batch #:	0043108		Analysis Date:	02/18/10				

NOTE(S)

Data are incomplete without the case narrative.

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

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: FOB090470
 Matrix: WATER

Date Sampled: 02/07/10 1143
 Date Received: 02/09/10 1100

Parameter	Spike Amount	SPIKE Result	Total Uncert. (2σ+/-)	Spike Yld	SAMPLE Result	Total Uncert. (2σ+/-)	QC Sample ID		QC Control Limits
							% Yld	%Rec	
Total Uranium by KPA ASTM 5			pCi/L	5174-91		FOB090470-001			
Total Uranium	27.7	29.7	3.1	0.566	J	0.068	105		(62 - 150)
Spk2	27.7	30.0	3.1	0.566	J	0.068	106		(62 - 150)
							Precision:	1	%RPD
Batch #:			0053280	Analysis date:		02/26/10			

NOTE (S)

DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: FOB090486
 Matrix: WATER

Date Sampled: 02/05/10
 Date Received: 02/09/10

Parameter	SAMPLE Result		Total Uncert. (2σ+/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ+/-)	% Yld	QC Sample ID Precision
Radium 226 by EPA 903.0 MOD					903.0 MOD			FOB090467-001
Radium (226)	0.089 U		0.098	92	0.07 U	0.16	92	31 %RPD
	Batch #:		0041160 (Sample)		0041160 (Duplicate)			
Gamma Cs-137 & Hits by EPA 901.1 MOD					901.1 MOD			FOB090470-001
Cesium 137	-2.9 U		9.0		1.2 U	7.8		479 %RPD
Potassium 40	-100 U		43000		-50 U	230		93 %RPD
	Batch #:		0042136 (Sample)		0042136 (Duplicate)			
Gross Alpha/Beta EPA 900					900.0 MOD			FOB090470-001
Gross Alpha	2.00 J		0.88		0.84 U	0.66		82 %RPD
Gross Beta	3.9 J		1.2		3.2 J	1.1		20 %RPD
	Batch #:		0043108 (Sample)		0043108 (Duplicate)			
TRITIUM (Distill) by EPA 906.0 MOD					906.0 MOD			FOB090470-001
Tritium	114 J		75		80 U	66		35 %RPD
	Batch #:		0049035 (Sample)		0049035 (Duplicate)			
SR-90 BY GFPC EPA-905 MOD					905 MOD			FOB090475-001
Strontium 90	-0.05 U		0.23	72	-0.15 U	0.23	69	97 %RPD
	Batch #:		0041162 (Sample)		0041162 (Duplicate)			

NOTE (S)

Data are incomplete without the case narrative.

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

SUBCONTRACT ORDER
TestAmerica Irvine
ITB0887

987726

SENDING LABORATORY:

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

RECEIVING LABORATORY:

Truesdail Laboratories-SUB
14201 Franklin Avenue
Tustin, CA 92680
Phone: (714) 730-6239
Fax: (714) 730-6462
Project Location: CA - CALIFORNIA
Receipt Temperature: _____ °C Ice: Y / N

Rec'd 02/08/10
s9c 987726

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

Analysis	Units	Expires	Comments
----------	-------	---------	----------

Sample ID: ITB0887-04 (Outfall 001 (Composite) - Water) Sampled: 02/06/10 06:40

Hydrazine-OUT	ug/l	02/09/10 06:40	Sub Truesdail for Monomethylhydrazine, J flags Level 4 Data Package <i>JK</i> 2/10/10
---------------	------	----------------	---

Containers Supplied:

1 L Amber (W) 1 L Amber (X)

ALERT !!
Level IV QC

**For Sample Conditions
See Form Attached**

Maryetta Sub...
Released By _____ Date/Time _____

L. Straburine 2/8/10 16:00
Received By _____ Date/Time _____

Released By _____ Date/Time _____

Received By _____ Date/Time _____

TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: Test America - Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614-5817

REPORT


Attention: Joseph Doak
Sample: Water / 1 Sample
Project Name: ITB0887
Project Number: ITB0887
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines

Laboratory No: 987726
Report Date: February 11, 2010
Sampling Date: February 6, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Units: µg/L
Reported By: JS

Analytical Results

Sample ID	Sample Description	Sample Amount (mL)	Dilution Factor	Monomethyl Hydrazine	u-Dimethyl Hydrazine	Hydrazine	Qualifier Codes
708690-MB	Method Blank	100	1	ND	ND	ND	None
987726	ITB0887-04	100	1	0.857	1.42	0.452	None
MDL				5.0	5.0	1.00	
PQL				5.0	5.0	1.00	
Sample Reporting Limits							

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

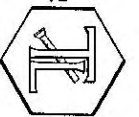

Linda Saetern, Project Manager
Analytical Services, Truesdail Laboratories, Inc.

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

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Client: Test America - Irvine
 17461 Derian Avenue, Suite 100
 Irvine, CA 92614-5817

Client Contact: Joseph Doak
Sample: Water / 1 Sample
Project Number: ITB0887
Method Number: EPA 8315 (Modified)
Investigation: Hydrazines
Run Batch No.: Extraction: 5138; Analysis: 678

QC Lab. No.: 708690
Project Lab. No.: 987726
Spiked Sample ID: 987712
Report Date: February 11, 2010
Sampling Date: February 6, 2010
Receiving Date: February 8, 2010
Extraction Date: February 8, 2010
Analysis Date: February 9, 2010
Reported By: JS

Quality Control/Quality Assurance Calibration Report

Parameter	Theoretical	Measured	Percent Recovery	Control Limits	Flag
	Value (ug/L)	Value (ug/L)			
Monomethyl Hydrazine	25.0	25.1	100	85-115	PASS
u-Dimethyl Hydrazine	25.0	25.7	103	85-115	PASS
Hydrazine	5.0	4.76	95.2	85-115	PASS

Parameter	Theoretical	Measured	Percent Recovery	Control Limits	Flag
	Value (ug/L)	Value (ug/L)			
Monomethyl Hydrazine	50.0	46.4	92.7	85-115	PASS
u-Dimethyl Hydrazine	50.0	48.0	96.0	85-115	PASS
Hydrazine	10.0	10.2	102	85-115	PASS

LCS/LCSD

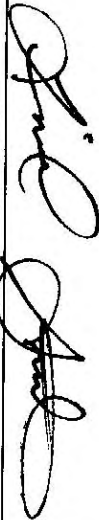
Parameter	Spiked Conc.	Recovered Concentration	MB	Percent Recovery (%)	LCS/LCSD	RPD	Flag	%D	Control Limits
	ug/L	ug/L							
Monomethyl Hydrazine	50.0	52.3	50.8	0.0	105	102	2.93%	PASS	20
u-Dimethyl Hydrazine	50.0	53.4	51.6	0.0	107	103	3.30%	PASS	20
Hydrazine	10.0	11.3	11.0	0.0	113	110	2.77%	PASS	20

Quality Control/Quality Assurance Spikes Report

MS/MSD

Parameter	Recovered Concentration	Percent Recovery (%)	MS/MSD	RPD	Flag	%D	Accuracy
	MSD Sample						
Monomethyl Hydrazine	41.5	40.8	0.00	83.0	81.7	1.55%	PASS
u-Dimethyl Hydrazine	44.9	45.7	0.00	89.7	91.4	1.91%	PASS
Hydrazine	10.3	10.7	0.00	103	107	3.33%	PASS

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


 Linda Saetern, Project Manager
 Analytical Services, Truesdail Laboratories, Inc.

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

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APPENDIX G

Section 5

Outfall 002 - January 18 & 19, 2010

MEC^X Data Validation Report

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DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ITA1330

Prepared by

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

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES
 Contract Task Order: 1261.100D.00
 Sample Delivery Group: ITA1330
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 2
 No. of Reanalyses/Dilutions: 1
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 002 (Composite)	ITA1330-02	F0A210540-001, G0A210526-001	Water	1/19/2010 11:56:00 AM	ASTM 5174-91, 180.1, 200.7, 200.7 (Diss), 200.8, 200.8 (Diss), 245.1, 245.1 (Diss), 1613B, 900.0 MOD, EPA 901.1 MOD, 903.0 MOD, 904 MOD, 905 MOD, 906.0 MOD, 1613B, SM 2540D
Outfall 002 (Composite)	ITA1330-02RE1	G0A210526-001	WATER	1/19/2010 11:56:00 AM	1613B
Outfall 002 (Grab)	ITA1330-01	N/A	Water	1/18/2010 1:00:00 PM	120.1, SM2540F

II. Sample Management

No anomalies were observed regarding sample management. The sample receipt temperature was not noted by TestAmerica-St Louis; however, due to the nonvolatile nature of the analytes, no qualifications were required. The samples in this SDG were received at the remaining laboratories within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were present upon receipt at TestAmerica-West Sacramento and TestAmerica-St. Louis. As the samples were delivered to the remaining laboratories by courier, no custody seals were necessary. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	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: L. Calvin

Date Reviewed: February 25, 2010

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 (9/05)*.

- 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 analyzed with the initial calibration sequence and at the beginning of each analytical sequence. 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 $\leq 20\%$ for the 16 native compounds (calibration by isotope dilution) and $\leq 35\%$ for the one native and all labeled compounds (calibration by internal standard). The relative retention times and ion abundance ratios were within the 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 detects between the EDL and the RL for all compounds except 2,3,7,8-TCDF, total TCDF, all of the HxCDD isomers, and total HxCDD. Any sample detects for individual target compound isomers present at concentrations less than five times the method blank concentrations were qualified as nondetected, "U," at the RL. Results for totals were qualified as nondetected, "U," if all peaks comprising the total were

present in the method blank at less than five times the blank concentrations. Several detects in the method blank did not meet ratio criteria and were reported as EMPCs; however, due to the extent of contamination present in the method blank, it was the reviewer's professional opinion that those results be utilized to qualify applicable sample results. Results for totals that included peaks meeting ratio criteria that were not present in the method blank were qualified as estimated, "J," as only a portion of the total was considered method blank contamination.

- Blank Spikes and Laboratory Control Samples: OPR 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. A confirmation analysis was performed for 2,3,7,8-TCDF. The confirmation result was rejected, "R," in favor of the original result.
- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating a representative number of reportable sample detects. The laboratory calculated and reported compound-specific detection limits. Any reported totals not qualified as nondetects for method blank contamination that included EMPCs were qualified as estimated, "J." Any detects between the estimated detection limit (EDL) and the reporting limit (RL) were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Nondetects are valid to the EDL.

B. EPA METHODS 200.7, 200.8, and 245.1—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: February 25, 2010

The sample listed in Table 1 for these analyses were 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 Methods 200.7, 200.8, 245.1*, and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times, six months for ICP and ICP-MS metals and 28 days for mercury, were met.
- Tuning: The mass calibration and resolution checks criteria were met. All tuning solution %RSDs were $\leq 5\%$, and all masses of interest were calibrated to ≤ 0.1 amu and ≤ 0.9 amu at 10% peak height.
- Calibration: Calibration criteria were met. Mercury initial calibration r^2 values were ≥ 0.995 and all initial and continuing calibration recoveries were within 90-110% for the ICP and ICP-MS metals and 85-115% for mercury. CRDL/CRI recoveries were within the control limits of 70-130%.
- Blanks: Nickel was detected in the dissolved method blank; therefore, nickel detected in the dissolved fraction was qualified as nondetected, "U," at the reporting limit. Cadmium was detected in a CCB bracketing the dissolved fraction; therefore, cadmium detected in the dissolved fraction was qualified as nondetected, "U," at the reporting limit. Method blanks and CCBs had no other applicable detects.
- Interference Check Samples: Recoveries were within the method- (6010B) or laboratory- (6020) established control limits. Most analytes were detected in the ICP-MS ICSA but the reviewer was not able to determine if the detects in the sample were due to method interference. There were no target compounds present in the ICP ICSA solution at concentrations indicative of matrix interference.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.
- 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 on the sample in this SDG.

- **Internal Standards Performance:** All sample internal standard intensities were within 30-120% of the internal standard intensities measured in the initial calibration. All CCV and CCB internal standard intensities were within 80-120% of the internal standard intensities measured in the initial calibration. Chromium, manganese, nickel, copper, and zinc were not bracketed by an internal standard of lower mass; therefore, the results for these analytes were qualified as estimated, "J," for detects or, "UJ," for nondetects.
- **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. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

Cadmium and selenium were detected marginally above the control limit in the dissolved fraction but were not detected in the total fraction.

- **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. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: February 25, 2010

The sample listed in Table 1 for these analyses were validated based on the guidelines outlined in the *EPA Methods 900.0, 901.1, 903.1, 904.0, 905.0, and 906.0, ASTM Method D-5174*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- **Holding Times:** The tritium sample was analyzed within 180 days of collection. The aliquot for total uranium was prepared one day beyond 3x the five-day holding time for unpreserved samples; therefore, total uranium detected in the sample was qualified as estimated, "J." Aliquots for gross alpha and gross beta were prepared beyond the five-day analytical holding time for unpreserved samples; therefore, results for these analytes were qualified as estimated, "J," for detects and, "UJ," for nondetects. Aliquots for

radium-226, radium-228, strontium-90, and gamma spectroscopy were prepared within the five-day holding time for unpreserved aqueous samples.

- Calibration: The laboratory calibration information included the standard certificates and applicable preparation/dilutions logs for NIST-traceability.

The gross alpha detector efficiency was less than 20%; therefore, gross alpha detected in the sample was qualified as an estimated detect, "J." All remaining detector efficiencies were greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. All chemical yield were at least 40% and were considered acceptable. The gamma spectroscopy analytes were determined at the maximum photopeak energy. The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All KPA calibration check standard recoveries were within 90-110% and were deemed acceptable.

- Blanks: Tritium was detected in the method blank but was not detected in the site sample. There were no other analytes detected in the method blanks or KPA CCBs.
- Blank Spikes and Laboratory Control Samples: The recoveries and RPDs (radium-226, radium-228, strontium-90) were within laboratory-established control limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed for the sample in this SDG. Method accuracy was evaluated based on the LCS results.
- Sample Result Verification: An EPA Level IV review was performed for the sample in this data package. The sample results and MDAs reported on the sample result form were verified against the raw data and no calculation or transcription errors were noted. Any detects between the MDA and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. 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.

D. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: February 25, 2010

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0)*, *EPA Methods 120.1 and 180.1*, and *SM2540D*, *SM2540F* and the *National Functional Guidelines for Inorganic Data Review (7/02)*.

- Holding Times: Analytical holding times were met.
- Calibration: Calibration criteria were met. The conductivity and turbidity check standard recoveries were considered acceptable.
- Blanks: Method blanks and CCBs had no detects.
- Blank Spikes and Laboratory Control Samples: Recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: A laboratory duplicate analysis was performed for TSS. The RPD was within the laboratory-established control limit.
- Matrix Spike/Matrix Spike Duplicate: Not applicable to these analyses.
- 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. Turbidity was analyzed at a 5x dilution in order to report the analyte within the linear range of the calibration. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either “J+” or “J-”; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, “J,” and coded with “DNQ,” in order to comply with the NPDES permit. 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.

Validated Sample Result Forms: ITA1330

Analysis Method *ASTM 5174-91*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Uranium	7440-61-1	0.218	0.693	0.21	pCi/L	Jb	J	H, DNQ

Analysis Method *EPA 120.1*

Sample Name Outfall 002 (Grab) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1330-01 **Sample Date:** 1/18/2010 1:00:00 PM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Specific Conductance	NA	91	1.0	1.0	umhos/c			

Analysis Method *EPA 180.1*

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Turbidity	Turb	110	5.0	0.20	NTU			

Analysis Method *EPA 200.7*

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Barium	7440-39-3	0.056	0.010	0.0060	mg/l			
Iron	7439-89-6	2.0	0.040	0.015	mg/l			
Zinc	7440-66-6	14	20	6.0	ug/l	Ja	J	*III, DNQ

Analysis Method EPA 200.7-Diss

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Barium, dissolved	7440-39-3	0.039	0.010	0.0060	mg/l			
Iron, dissolved	7439-89-6	0.069	0.040	0.015	mg/l			
Zinc, dissolved	7440-66-6	ND	20	6.0	ug/l		UJ	*III

Analysis Method EPA 200.8

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic	7440-38-2	1.9	1.0	0.90	ug/l			
Beryllium	7440-41-7	0.14	0.50	0.10	ug/l	Ja	J	DNQ
Cadmium	7440-43-9	ND	1.0	0.10	ug/l		U	
Chromium	7440-47-3	3.3	2.0	0.90	ug/l		J	*III
Copper	7440-50-8	4.4	2.0	0.50	ug/l		J	*III
Lead	7439-92-1	2.0	1.0	0.20	ug/l			
Manganese	7439-96-5	86	1.0	0.70	ug/l		J	*III
Nickel	7440-02-0	3.3	2.0	0.50	ug/l		J	*III
Selenium	7782-49-2	ND	2.0	0.50	ug/l		U	

Analysis Method EPA 200.8-Diss

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Arsenic, dissolved	7440-38-2	ND	1.0	0.90	ug/l		U	
Beryllium, dissolved	7440-41-7	ND	0.50	0.10	ug/l		U	
Cadmium, dissolved	7440-43-9	ND	1.0	0.10	ug/l	Ja	U	B
Chromium, dissolved	7440-47-3	ND	2.0	0.90	ug/l		UJ	*III
Copper, dissolved	7440-50-8	2.6	2.0	0.50	ug/l		J	*III
Lead, dissolved	7439-92-1	0.26	1.0	0.20	ug/l	Ja	J	DNQ
Manganese, dissolved	7439-96-5	20	1.0	0.70	ug/l		J	*III
Nickel, dissolved	7440-02-0	ND	2.0	0.50	ug/l	Ja	UJ	*III, B
Selenium, dissolved	7782-49-2	0.65	2.0	0.50	ug/l	Ja	J	DNQ

Analysis Method *EPA 245.1*

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury	7439-97-6	ND	0.00020	0.00010	mg/l		U	

Analysis Method *EPA 245.1-Diss*

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Mercury, dissolved	7439-97-6	ND	0.00020	0.00010	mg/l	C	U	

Analysis Method *EPA 900.0 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Gross Alpha	12587-46-1	3.9	3	2.3	pCi/L		J	H, C
Gross Beta	12587-47-2	9.5	4	1.8	pCi/L		J	H

Analysis Method *EPA 901.1 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Cesium 137	10045-97-3	0	20	6.3	pCi/L	U	U	
Potassium 40	13966-00-2	-60	0	290	pCi/L	U	U	

Analysis Method *EPA 903.0 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium (226)	13982-63-3	0.017	1	0.19	pCi/L	U	U	

Analysis Method *EPA 904 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Radium 228	15262-20-1	0.62	1	0.95	pCi/L	U	U	

Analysis Method *EPA 905 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Strontium-90	10098-97-2	0.09	3	0.7	pCi/L	U	U	

Analysis Method *EPA 906.0 MOD*

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV

Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Tritium	10028-17-8	36	500	140	pCi/L	U	U	

Analysis Method EPA-5 1613B

Sample Name Outfall 002 (Composite) **Matrix Type:** WATER **Validation Level:** IV
Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,2,3,4,6,7,8-HpCDD	35822-46-9	5.7e-005	0.000048	0.00001	ug/L	Ba		
1,2,3,4,6,7,8-HpCDF	67562-39-4	ND	0.000048	0.000001	ug/L	J, Ba	U	B
1,2,3,4,7,8,9-HpCDF	55673-89-7	ND	0.000048	0.000002	ug/L	J, Ba	U	B
1,2,3,4,7,8-HxCDD	39227-28-6	ND	0.000048	0.000008	ug/L		U	
1,2,3,4,7,8-HxCDF	70648-26-9	ND	0.000048	0.000000	ug/L	J, Ba	U	B
1,2,3,6,7,8-HxCDD	57653-85-7	ND	0.000048	0.000008	ug/L		U	
1,2,3,6,7,8-HxCDF	57117-44-9	ND	0.000048	0.000000	ug/L	J, Ba	U	B
1,2,3,7,8,9-HxCDD	19408-74-3	ND	0.000048	0.000007	ug/L		U	
1,2,3,7,8,9-HxCDF	72918-21-9	ND	0.000048	0.000000	ug/L	J, Ba	U	B
1,2,3,7,8-PeCDD	40321-76-4	ND	2.5e-006	0.000003	ug/L	J, Q, Ba	U	B
1,2,3,7,8-PeCDF	57117-41-6	ND	1.4e-006	0.000000	ug/L	J, Q, Ba	U	B
2,3,4,6,7,8-HxCDF	60851-34-5	ND	0.000048	0.000000	ug/L	J, Ba	U	B
2,3,4,7,8-PeCDF	57117-31-4	ND	1.9e-006	0.000000	ug/L	J, Q, Ba	U	B
2,3,7,8-TCDD	1746-01-6	ND	0.0000096	0.000001	ug/L		U	
2,3,7,8-TCDF	51207-31-9	ND	4.4e-007	0.000000	ug/L	J, Q, Ba	U	B
2,3,7,8-TCDF	51207-31-9	ND	0.0000096	0.000005	ug/L		R	D
OCDD	3268-87-9	0.00072	0.000096	0.000006	ug/L	Ba		
OCDF	39001-02-0	ND	0.000096	0.000001	ug/L	J, Ba	U	B
Total HpCDD	37871-00-4	0.00011	0.000048	0.00001	ug/L	Ba	J	B
Total HpCDF	38998-75-3	4e-005	0.000048	0.000001	ug/L	J, Ba	J	B, DNQ
Total HxCDD	34465-46-8	ND	0.000048	0.000007	ug/L		U	
Total HxCDF	55684-94-1	2.1e-005	2.1e-005	0.000000	ug/L	J, Q, Ba	J	B, *III, DNQ
Total PeCDD	36088-22-9	ND	2.5e-006	0.000003	ug/L	J, Q, Ba	U	B
Total PeCDF	30402-15-4	ND	3.3e-006	0.000000	ug/L	J, Q, Ba	U	B
Total TCDD	41903-57-5	ND	0.0000096	0.000001	ug/L		U	
Total TCDF	55722-27-5	ND	4.4e-007	0.000000	ug/L	J, Q, Ba	U	B

Analysis Method SM 2540D

Sample Name Outfall 002 (Composite) **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ITA1330-02 **Sample Date:** 1/19/2010 11:56:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Suspended Solids	TSS	49	10	1.0	mg/l			

Analysis Method **SM2540F**

Sample Name	Outfall 002 (Grab)	Matrix Type:	Water	Validation Level:	IV
Lab Sample Name:	ITA1330-01	Sample Date:	1/18/2010 1:00:00 PM		

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Total Settleable Solids	Set Solids	0.30	0.10	0.10	ml/l			

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