

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

Accrediting Authority	Certificate Number
State of Alaska, DEC	CA413-2008
State of Arizona	AZ0639
State of Arkansas, DEQ	08-043-0
State of Arkansas, DOH	Reciprocity through CA
State of California – NELAP Primary AA	02102CA
State of Colorado	N/A
State of Connecticut	PH-0182
State of Florida, DEP	E87777
State of Indiana Department of Health	C-CA-02
Commonwealth of Kentucky	90063
State of Louisiana, Health and Hospitals	LA08000
State of Louisiana, DEQ	01977
State of Maine	2008024
State of Michigan	9932
State of Mississippi	Reciprocity through CA
Naval Facilities Engineering Service Center	NFESC413
State of Nevada	CA004132007A
State of New Jersey	CA003
State of New Mexico	Reciprocity through CA
State of New York, DOH	11411
State of North Carolina	06700
State of North Dakota, DOH	R-078
State of Oklahoma	D9919
State of Oregon	CA200001-006
State of Pennsylvania	68-00490
State of South Carolina	87002001
State of Tennessee	TN02996
State of Texas	T104704189-08-TX
U.S. Army Corps of Engineers	N/A
State of Utah	CA16400
Commonwealth of Virginia	00013
State of Washington	C1285
State of Wisconsin	998036160
State of Wyoming	8TMS-Q

SUBCONTRACT ORDER

TestAmerica Irvine

IRL1714

31268


SENDING LABORATORY:

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

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB
1104 Windfield Way
El Dorado Hills, CA 95762
Phone : (916) 673-1520
Fax: (916) 673-0106
Project Location: CA - CALIFORNIA
Receipt Temperature: 1.4 °C Ice: (Y) / N

Analysis	Units	Due	Expires	Comments
Sample ID: IRL1714-01	Water		Sampled: 12/15/08 11:30	
1613-Dioxin-HR-Alta	ug/l	12/22/08	12/22/08 11:30	J flags, 17 congeners, no TEQ, ug/L, sub=Vista
EDD + Level 4	N/A	12/22/08	01/12/09 11:30	Excel EDD email to pm, Include Std logs for Lvl IV
<i>Containers Supplied:</i>				
1 L Amber (C)	1 L Amber (D)			


Released By

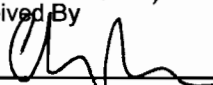
12/16/08 17:00
Date/Time

Fed Ex
Received By

12/16/08 17:00
Date/Time

Released By

Date/Time


Received By

12/17/08 09:35
Date/Time

SAMPLE LOG-IN CHECKLIST



Vista Project #: 31268 TAT 5 days

Samples Arrival:	Date/Time 12/17/08 0918	Initials: CV	Location: WR-2
			Shelf/Rack: NA
Logged In:	Date/Time 12/17/08 0935	Initials: CV	Location: WR-2
			Shelf/Rack: C-3
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> Cal
		<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
	<input type="radio"/> Other		
Preservation:	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
		<input type="radio"/> None	
Temp °C	1.4°	Time:	0927
		Thermometer ID:	IR-2

	YES	NO	NA
Adequate Sample Volume Received? (A+S bottles)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Airbill			
Trk #	7961 9099 8504		
Sample Container Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
COC Anomaly/Sample Acceptance Form completed?		<input checked="" type="checkbox"/>	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			<input checked="" type="checkbox"/>
Na ₂ S ₂ O ₃ Preservation Documented?			<input checked="" type="checkbox"/>
	COC	Sample Container	None
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
		<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose

Comments:

APPENDIX G

Section 3

Outfall 004 - BMP Effectiveness, December 15, 2008

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: BMP Effectiveness
Monitoring Program

Sampled: 12/15/08
Received: 12/16/08
Issued: 12/29/08 14:48

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

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IRL1894-01	004 EFF-1	Water
IRL1894-02	004 EFF-2	Water
IRL1894-03	004 EFF-3	Water
IRL1894-04	004 EFF-4	Water
IRL1894-05	004 EFF-5	Water
IRL1894-06	004 EFF-6	Water
IRL1894-07	004 EFF-7	Water
IRL1894-08	004 EFF-8	Water
IRL1894-09	004 EFF-9	Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: BMP Effectiveness
 Monitoring Program
 Report Number: IRL1894

Sampled: 12/15/08
 Received: 12/16/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1894-01 (004 EFF-1 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.93	1	12/26/08	12/26/08	
Sample ID: IRL1894-02 (004 EFF-2 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.96	1	12/26/08	12/26/08	
Sample ID: IRL1894-03 (004 EFF-3 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.94	1	12/26/08	12/26/08	
Sample ID: IRL1894-04 (004 EFF-4 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.93	1	12/26/08	12/26/08	
Sample ID: IRL1894-05 (004 EFF-5 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.94	1	12/26/08	12/26/08	
Sample ID: IRL1894-06 (004 EFF-6 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.95	1	12/26/08	12/26/08	
Sample ID: IRL1894-07 (004 EFF-7 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.95	1	12/26/08	12/26/08	
Sample ID: IRL1894-08 (004 EFF-8 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.94	1	12/26/08	12/26/08	
Sample ID: IRL1894-09 (004 EFF-9 - Water)									
Reporting Units: g/cc									
Density	Displacement	8L26049	N/A	NA	0.94	1	12/26/08	12/26/08	
Sample ID: IRL1894-01 (004 EFF-1 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	27	1	12/29/08	12/29/08	

TestAmerica Irvine

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 Project Manager

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 Arcadia, CA 91007
 Attention: Bronwyn Kelly

Project ID: BMP Effectiveness
 Monitoring Program
 Report Number: IRL1894

Sampled: 12/15/08
 Received: 12/16/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRL1894-02 (004 EFF-2 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	14	1	12/29/08	12/29/08	
Sample ID: IRL1894-03 (004 EFF-3 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	12	1	12/29/08	12/29/08	
Sample ID: IRL1894-04 (004 EFF-4 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	15	1	12/29/08	12/29/08	
Sample ID: IRL1894-05 (004 EFF-5 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	16	1	12/29/08	12/29/08	
Sample ID: IRL1894-06 (004 EFF-6 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	14	1	12/29/08	12/29/08	
Sample ID: IRL1894-07 (004 EFF-7 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	ND	1	12/29/08	12/29/08	
Sample ID: IRL1894-08 (004 EFF-8 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	ND	1	12/29/08	12/29/08	
Sample ID: IRL1894-09 (004 EFF-9 - Water)									
Reporting Units: mg/l									
Sediment	ASTM D3977	8L29067	10	10	17	1	12/29/08	12/29/08	

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: BMP Effectiveness
 Monitoring Program
 Report Number: IRL1894

Sampled: 12/15/08
 Received: 12/16/08

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8L26049 Extracted: 12/26/08											
Duplicate Analyzed: 12/26/2008 (8L26049-DUP1)						Source: IRL1894-01					
Density	0.924	NA	N/A	g/cc		0.928			0	20	
Duplicate Analyzed: 12/26/2008 (8L26049-DUP2)						Source: IRL1893-01					
Density	0.941	NA	N/A	g/cc		0.942			0	20	

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRL1894

Sampled: 12/15/08
Received: 12/16/08

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

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160
IRL1894 <Page 5 of 6>

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRL1894

Sampled: 12/15/08
Received: 12/16/08

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
ASTM D3977	Water		
Displacement	Water		

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

TestAmerica Irvine

Joseph Doak
Project Manager

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IRL 894

12/17
g
7:50

Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007				Project: Boeing BMP Effectiveness Monitoring Program				ANALYSIS REQUIRED													
Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: R Banaga				Phone Number: (626) 568-6691 Fax Number: (626) 568-6515				Field readings: Temp = NA pH = NA Time of readings = NA													
Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date/Time	Preservative	Bottle #	Suspended Sediment Concentration (SSC, ASTM-D3977-1997)										Comments				
004 EFF-1	W	500 mL Poly	1	12/15/08-0400	None	1	X														
004 EFF-2	W	500 mL Poly	1	12/15/08-0500	None	2	X														
004 EFF-3	W	500 mL Poly	1	12/15/08-0600	None	3	X														
004 EFF-4	W	500 mL Poly	1	12/15/08-0700	None	4	X														
004 EFF-5	W	500 mL Poly	1	12/15/08-0800	None	5	X														
004 EFF-6	W	500 mL Poly	1	12/15/08-0900	None	6	X														
004 EFF-7	W	500 mL Poly	1	12/15/08-1000	None	7	X														
004 EFF-8	W	500 mL Poly	1	12/15/08-1100	None	8	X														
004 EFF-9	W	500 mL Poly	1	12/15/08-1200	None	9	X														
Relinquished By: [Signature]				Date/Time: 12-16-08	Received By: [Signature]				Date/Time: 12/16/08	Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____											
Relinquished By: [Signature]				Date/Time: 12/16/08	Received By: [Signature]				Date/Time: 12/16/08	Sample Integrity: (check) Intact _____ Normal _____ X _____ On Ice: 1.9 (1.5)											
Relinquished By: [Signature]				Date/Time: 12/16/08	Received By: [Signature]				Date/Time: 12/16/08	Sample Integrity: (check) Intact _____ Normal _____ X _____ On Ice: 1.9 (1.5)											

#005

APPENDIX G

Section 4

Outfall 006, November 26, 2008

MEC^X Data Validation Reports



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRK2828

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: IRK2828
 Project Manager: B. Kelly
 Matrix: Water
 QC Level: IV
 No. of Samples: 1
 No. of Reanalyses/Dilutions: 0
 Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Outfall 006	IRK2828-01	F8L030234-001, D8K290116-001, 31223-001	Water	11/26/08 1330	245.1, 900.0, 901.1, 903.1, 904.0, 905.0, 906.0, 1613B, ASTM 5174-91

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at TestAmerica-Irvine above the temperature limit; however, the sample had insufficient time to cool during transport. The samples were received at TestAmerica-Denver and Vista below the temperature limit; however, the samples were not noted to be damaged or frozen. The samples were received at TestAmerica-St. Louis within the temperature limits. According to the case narrative for this SDG, the samples were received intact at all laboratories; however, a note on the TestAmerica-St. Louis sample receipt form indicated that the container leaked after receipt. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at TestAmerica-St. Louis, TestAmerica-Denver, and Vista. If necessary, the client ID was added to the sample result summary by the reviewer.

Data Qualifier Reference Table

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

Qualification Code Reference Table

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

Qualification Code Reference Table Cont.

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

III. Method Analyses

A. EPA METHOD 1613—Dioxin/Furans

Reviewed By: E. Wessling

Date Reviewed: December 29, 2008

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

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted and analyzed within one year of collection.
- Instrument Performance: Instrument performance criteria were met. Following are findings associated with instrument performance.
 - GC Column Performance: A Windows Defining Mix (WDM) containing the first and last eluting congeners of each descriptor and isomer specificity compounds was not analyzed prior to the initial calibration sequence or at the beginning of each analytical sequence; however, the first and last eluting congeners and isomer specificity compounds were added to the midpoint of the initial calibration and to the continuing calibration standards. 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 no target compound detects above the EDL with the exception of an EMPC peak within the HpCDD window. The peak was reported as a total

HpCDD. This same EMPC peak was present in the site sample. This peak was qualified as an estimated nondetect, "UJ."

- Blank Spikes and Laboratory Control Samples: Recoveries were within the acceptance criteria listed in Table 6 of Method 1613 for the OPR-1751.
- Field QC Samples: Field QC samples were evaluated and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.
- Internal Standards Performance: The labeled standard recoveries were within the acceptance criteria listed in Table 7 of Method 1613.
- Compound Identification: Compound identification was verified. The laboratory analyzed for polychlorinated dioxins/furans by EPA Method 1613.
- Compound Quantification and Reported Detection Limits: Compound quantitation was verified by recalculating any sample detects and a representative number of blank spike concentrations. The laboratory calculated and reported compound-specific detection limits. Any detects below the laboratory lower calibration level were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Any EMPC value was qualified as an estimated nondetect, "UJ." Nondetects are valid to the estimated detection limit (EDL).

B. EPA METHOD 245.1—Metals and Mercury

Reviewed By: P. Meeks

Date Reviewed: December 12, 2008

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Method 245.1*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- Holding Times: The analytical holding time, 28 days for mercury, was met.
- Tuning: Not applicable to this method.
- Calibration: Calibration criteria were met. The mercury initial calibration r^2 value was ≥ 0.995 and all initial and continuing calibration recoveries were within 85-115%. The CRA

and check standard was recovered below the control limit of 70-130%, at 68.5%; therefore, nondetected total and dissolved mercury in the sample were qualified as estimated, "UJ."

- Blanks: There were no applicable detects in the method blanks or CCBs.
- Interference Check Samples: Not applicable to this method.
- Blank Spikes and Laboratory Control Samples: The recovery was within the 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: Not applicable to this method.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summaries were verified against the raw data. No transcription errors or calculation errors were noted. Detects reported below 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.

C. VARIOUS EPA METHODS — Radionuclides

Reviewed By: P. Meeks

Date Reviewed: January 13, 2009

The sample listed in Table 1 for this analysis was 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 (07/02)*.

- Holding Times: The tritium sample was analyzed within 180 days of collection. All remaining aliquots were prepared beyond the five-day holding time for unpreserved samples; therefore, results for all analytes except tritium were qualified as estimated, "J," for detects and, "UJ," for nondetects.
- 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 estimated, "J." The remaining detector efficiencies were greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. The strontium-90, radium-226 and radium-228 chemical yields were greater than 50% and 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: There were no analytes detected in the method blanks or KPA CCBs.
- Blank Spikes and Laboratory Control Samples: All recoveries and the radium-226, radium-228, and strontium-90 RPDs were within the laboratory-established control limits.
- Laboratory Duplicates: Laboratory duplicate analyses were performed on the sample in this SDG for gross alpha, gross beta, tritium, cesium-137 and potassium-40. All RPDs were within the laboratory-established control limits. Method precision was evaluated based on LCS/LCSD results for radium-226, radium-228, and strontium-90.
- Matrix Spike/Matrix Spike Duplicate: Matrix spike or MS/MSD analyses were performed on the sample in this SDG for gross alpha and gross beta. The recoveries were within the laboratory-established control limits. The recovery was within the laboratory-established control limits. Method accuracy for the remaining analytes was evaluated based on LCS/LCSD 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. Detects reported below 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.

Sample ID: IRK2828-01		Outfall 000		EPA Method 1613			
Client Data		Sample Data		Laboratory Data			
Name:	Test America-Irvine, CA	Matrix:	Aqueous	Lab Sample:	31223-001		
Project:	IRK2828	Sample Size:	0.999 L	QC Batch No.:	1751		
Date Collected:	26-Nov-08			Date Analyzed DB-5:	11-Dec-08		
Time Collected:	1330			Date Analyzed DB-225:	N/A		
Analyte	Conc. (ug/L)	DL ^a	EMPC ^b	Labeled Standard	%R	LCL-UCL ^d	Qualifiers
2,3,7,8-TCDD	ND	0.00000111		IS 13C-2,3,7,8-TCDD	81.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.00000217		13C-1,2,3,7,8-PeCDD	71.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.00000381		13C-1,2,3,4,7,8-HxCDD	73.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.00000339		13C-1,2,3,6,7,8-HxCDD	79.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.00000333		13C-1,2,3,4,6,7,8-HpCDD	81.6	23 - 140	
1,2,3,4,6,7,8-HpCDD	ND	0.0000111		13C-OCDD	66.0	17 - 157	
OCDD	0.0000502			13C-2,3,7,8-TCDF	83.5	24 - 169	
2,3,7,8-TCDF	ND	0.00000852		13C-1,2,3,7,8-PeCDF	72.7	24 - 185	
1,2,3,7,8-PeCDF	ND	0.00000129		13C-2,3,4,7,8-PeCDF	72.0	21 - 178	
2,3,4,7,8-PeCDF	ND	0.00000145		13C-1,2,3,4,7,8-HxCDF	72.1	26 - 152	
1,2,3,4,7,8-HxCDF	ND	0.000000921		13C-1,2,3,6,7,8-HxCDF	70.1	26 - 123	
1,2,3,6,7,8-HxCDF	ND	0.00000105		13C-2,3,4,6,7,8-HxCDF	71.8	28 - 136	
2,3,4,6,7,8-HxCDF	ND	0.00000106		13C-1,2,3,7,8,9-HxCDF	75.9	29 - 147	
1,2,3,7,8,9-HxCDF	ND	0.00000142		13C-1,2,3,4,6,7,8-HpCDF	69.2	28 - 143	
1,2,3,4,6,7,8-HpCDF	ND	0.00000184		13C-1,2,3,4,7,8,9-HpCDF	75.0	26 - 138	
1,2,3,4,7,8,9-HpCDF	ND	0.00000240		13C-OCDF	66.3	17 - 157	
OCDF	ND	0.00000491		CRS 37Cl-2,3,7,8-TCDD	87.5	35 - 197	
Totals							
Total TCDD	ND	0.00000163		Footnotes			
Total PeCDD	ND	0.00000217		a. Sample specific estimated detection limit.			
Total HxCDD	ND	0.00000351		b. Estimated maximum possible concentration.			
Total HpCDD	ND	0.00000351	0.00000833	c. Method detection limit.			
Total TCDF	ND	0.000000852		d. Lower control limit - upper control limit.			
Total PeCDF	ND	0.00000137					
Total HxCDF	ND	0.00000110					
Total HpCDF	ND	0.00000209					

Analyst: MAS Approved By: William J. Luksemburg 12-Dec-2008 10:50

LEVEL IV

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	8336128	0.027	0.2	ND	1	12/01/08	12/01/08	

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

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IRK2828 <Page 5 of 17>

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

Project ID: Semi-Annual Outfall 006
Report Number: IRK2828

Sampled: 11/26/08
Received: 11/26/08

MCAWW 245.1 Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	UJ/III	MCAWW 245.1 Diss	8336136	0.027	0.2	ND	1	12/01/08	12/01/08

LEVEL IV

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Project Manager

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IRK2828 <Page 6 of 17>

TestAmerica Irvine

Client Sample ID: IRK2828-01

Radiochemistry

OUTFALL 006

Lab Sample ID: F8L030234-001
 Work Order: K3089
 Matrix: WATER

Date Collected: 11/26/08 1330
 Date Received: 11/29/08 0915

Parameter	Result	Qual	Total Uncert. (2 σ+/-)	RL	mdc	Prep Date	Analysis Date
Gamma Cs-137 & Hits by EPA 901.1 MOD							
Cesium 137	UJ/H 1.1	U	5.3	20.0	10	12/09/08	12/21/08
Potassium 40	↓ ↓ -100	U	3100		300	12/09/08	12/21/08
Gross Alpha/Beta EPA 900							
Gross Alpha	J/H,C 2.9	J	1.2	3.0	1.1	12/04/08	12/07/08
Gross Beta	J/H 8.1		1.5	4.0	1.6	12/04/08	12/07/08
Radium 226 by EPA 903.0 MOD							
Radium (226)	J/H 0.119	J	0.074	1.00	0.091	12/03/08	12/26/08
Radium 228 by GFPC EPA 904 MOD							
Radium 228	UJ/H 0.41	U	0.69	1.00	1.2	12/03/08	12/24/08
TRITIUM (Distill) by EPA 906.0 MOD							
Tritium	U 50	U	170	500	290	12/17/08	12/19/08
SR-90 BY GFPC EPA-905 MOD							
Strontium 90	UJ/H 0.33	U	0.28	3.00	0.44	12/03/08	12/15/08
Total Uranium by KPA ASTM 5174-91							
Total Uranium	UJ/H 0.213	U	0.022	0.693	0.21	12/10/08	12/12/08

KKS 1/29/09

NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

J Result is greater than sample detection limit but less than stated reporting limit.

APPENDIX G

Section 5

Outfall 006, November 26, 2008

Test America Analytical Laboratory Report

LABORATORY REPORT

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

Project: Semi-Annual Outfall 006

Sampled: 11/26/08
Received: 11/26/08
Issued: 01/29/09 13:19

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, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This report has been revised to correct the Total Uranium units to pCi/L per client request (the original incorrect report from TestAmerica St. Louis Laboratory has been removed).

LABORATORY ID
IRK2828-01

CLIENT ID
Outfall 006

MATRIX
Water

Reviewed By:



TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Antimony	EPA 200.8	8L03086	0.20	2.0	0.37	1	12/03/08	12/06/08	J
Cadmium	EPA 200.8	8L03086	0.11	1.0	0.22	1	12/03/08	12/06/08	J
Copper	EPA 200.8	8L03086	0.75	2.0	2.7	1	12/03/08	12/06/08	B
Lead	EPA 200.8	8L03086	0.30	1.0	1.5	1	12/03/08	12/06/08	
Thallium	EPA 200.8	8L03086	0.20	1.0	ND	1	12/03/08	12/06/08	

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Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

DISSOLVED METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/l									
Antimony	EPA 200.8-Diss	8L03087	0.20	2.0	0.36	1	12/03/08	12/07/08	J
Cadmium	EPA 200.8-Diss	8L03087	0.11	1.0	0.36	1	12/03/08	12/07/08	J
Copper	EPA 200.8-Diss	8L03087	0.75	2.0	1.1	1	12/03/08	12/07/08	J
Lead	EPA 200.8-Diss	8L03087	0.30	1.0	ND	1	12/03/08	12/07/08	
Thallium	EPA 200.8-Diss	8L03087	0.20	1.0	ND	1	12/03/08	12/07/08	

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: mg/l									
Hexane Extractable Material (Oil & Grease)	EPA 1664A	8L09056	1.4	4.9	2.9	1	12/09/08	12/09/08	J
Chloride	EPA 300.0	8K26165	5.0	10	44	20	11/26/08	11/27/08	
Nitrate/Nitrite-N	EPA 300.0	8K26165	3.0	5.2	6.4	20	11/26/08	11/27/08	
Sulfate	EPA 300.0	8K26165	0.20	0.50	47	1	11/26/08	11/27/08	
Total Dissolved Solids	SM2540C	8L01069	10	10	280	1	12/01/08	12/01/08	
Sample ID: IRK2828-01 (Outfall 006 - Water)									
Reporting Units: ug/l									
Perchlorate	EPA 314.0	8L03056	0.90	4.0	ND	1	12/03/08	12/03/08	

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08
 Received: 11/26/08

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
2,3,7,8-TCDD	1613-Dioxin-HR Alta	1751	0.0000011	0.00000501	ND	1	12/09/08	12/11/08	
1,2,3,7,8-PeCDD	1613-Dioxin-HR Alta	1751	0.000002170	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,4,7,8-HxCDD	1613-Dioxin-HR Alta	1751	0.000003810	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,6,7,8-HxCDD	1613-Dioxin-HR Alta	1751	0.000003390	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,7,8,9-HxCDD	1613-Dioxin-HR Alta	1751	0.000003330	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,4,6,7,8-HpCDD	1613-Dioxin-HR Alta	1751	0.0000111	0.0000250	ND	1	12/09/08	12/11/08	
OCDD	1613-Dioxin-HR Alta	1751	0.000002450	0.0000501	0.0000502	1	12/09/08	12/11/08	
2,3,7,8-TCDF	1613-Dioxin-HR Alta	1751	0.000000850	0.00000501	ND	1	12/09/08	12/11/08	
1,2,3,7,8-PeCDF	1613-Dioxin-HR Alta	1751	0.000001290	0.0000250	ND	1	12/09/08	12/11/08	
2,3,4,7,8-PeCDF	1613-Dioxin-HR Alta	1751	0.000001450	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,4,7,8-HxCDF	1613-Dioxin-HR Alta	1751	0.000000920	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,6,7,8-HxCDF	1613-Dioxin-HR Alta	1751	0.000001050	0.0000250	ND	1	12/09/08	12/11/08	
2,3,4,6,7,8-HxCDF	1613-Dioxin-HR Alta	1751	0.000001060	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,7,8,9-HxCDF	1613-Dioxin-HR Alta	1751	0.000001420	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,4,6,7,8-HpCDF	1613-Dioxin-HR Alta	1751	0.000001840	0.0000250	ND	1	12/09/08	12/11/08	
1,2,3,4,7,8,9-HpCDF	1613-Dioxin-HR Alta	1751	0.0000024	0.0000250	ND	1	12/09/08	12/11/08	
OCDF	1613-Dioxin-HR Alta	1751	0.000004910	0.0000501	ND	1	12/09/08	12/11/08	
Total TCDD	1613-Dioxin-HR Alta	1751	0.000001110	0.00000501	ND	1	12/09/08	12/11/08	
Total PeCDD	1613-Dioxin-HR Alta	1751	0.00000217	0.0000250	ND	1	12/09/08	12/11/08	
Total HxCDD	1613-Dioxin-HR Alta	1751	0.00000333	0.0000250	ND	1	12/09/08	12/11/08	
Total HpCDD	1613-Dioxin-HR Alta	1751	0.0000111	0.0000250	ND	1	12/09/08	12/11/08	
Total TCDF	1613-Dioxin-HR Alta	1751	0.000000850	0.00000501	ND	1	12/09/08	12/11/08	
Total PeCDF	1613-Dioxin-HR Alta	1751	0.00000129	0.0000250	ND	1	12/09/08	12/11/08	
Total HxCDF	1613-Dioxin-HR Alta	1751	0.000000920	0.0000250	ND	1	12/09/08	12/11/08	
Total HpCDF	1613-Dioxin-HR Alta	1751	0.00000184	0.0000250	ND	1	12/09/08	12/11/08	

Surrogate: 13C-2,3,7,8-TCDD (25-164%)	81.5 %
Surrogate: 13C-1,2,3,7,8-PeCDD (25-181%)	71.9 %
Surrogate: 13C-1,2,3,4,7,8-HxCDD (32-141%)	73 %
Surrogate: 13C-1,2,3,6,7,8-HxCDD (28-130%)	79.4 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD (23-140%)	81.6 %
Surrogate: 13C-OCDD (17-157%)	66 %
Surrogate: 13C-2,3,7,8-TCDF (24-169%)	83.5 %
Surrogate: 13C-1,2,3,7,8-PeCDF (24-185%)	72.7 %
Surrogate: 13C-2,3,4,7,8-PeCDF (21-178%)	72 %
Surrogate: 13C-1,2,3,4,7,8-HxCDF (26-152%)	72.1 %
Surrogate: 13C-1,2,3,6,7,8-HxCDF (26-123%)	70.1 %
Surrogate: 13C-2,3,4,6,7,8-HxCDF (28-136%)	71.8 %
Surrogate: 13C-1,2,3,7,8,9-HxCDF (29-147%)	75.9 %
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF (28-143%)	69.2 %
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF (26-138%)	75 %
Surrogate: 13C-OCDF (17-157%)	66.3 %

TestAmerica Irvine

Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

DIOXIN (EPA 1613)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Surrogate: 37Cl-2,3,7,8-TCDD (35-197%)					87.5 %				

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Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

MCAWW 245.1

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury	MCAWW 245.1	8336128	0.027	0.2	ND	1	12/01/08	12/01/08	

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Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

MCAWW 245.1 Diss

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRK2828-01 (Outfall 006 - Water) - cont.									
Reporting Units: ug/L									
Mercury-diss	MCAWW 245.1 Diss	8336136	0.027	0.2	ND	1	12/01/08	12/01/08	

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Trupti Mistry For Joseph Doak
Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Outfall 006 (IRK2828-01) - Water EPA 300.0	2	11/26/2008 13:30	11/26/2008 20:45	11/26/2008 22:00	11/27/2008 04:43

TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager

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187
IRK2828 <Page 9 of 22>

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08
 Received: 11/26/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 8L03086 Extracted: 12/03/08											
Blank Analyzed: 12/08/2008 (8L03086-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	1.45	2.0	0.75	ug/l							J
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/06/2008-12/08/2008 (8L03086-BS1)											
Antimony	79.9	2.0	0.20	ug/l	80.0		100	85-115			
Cadmium	78.8	1.0	0.11	ug/l	80.0		98	85-115			
Copper	75.8	2.0	0.75	ug/l	80.0		95	85-115			
Lead	78.9	1.0	0.30	ug/l	80.0		99	85-115			
Thallium	79.4	1.0	0.20	ug/l	80.0		99	85-115			
Matrix Spike Analyzed: 12/06/2008 (8L03086-MS1) Source: IRK2649-01											
Antimony	82.2	2.0	0.20	ug/l	80.0	0.520	102	70-130			
Cadmium	77.9	1.0	0.11	ug/l	80.0	ND	97	70-130			
Copper	81.1	2.0	0.75	ug/l	80.0	1.49	99	70-130			
Lead	76.8	1.0	0.30	ug/l	80.0	ND	96	70-130			
Thallium	78.4	1.0	0.20	ug/l	80.0	0.227	98	70-130			
Matrix Spike Analyzed: 12/06/2008 (8L03086-MS2) Source: IRK2879-04											
Antimony	83.8	2.0	0.20	ug/l	80.0	0.362	104	70-130			
Cadmium	76.6	1.0	0.11	ug/l	80.0	0.791	95	70-130			
Copper	91.4	2.0	0.75	ug/l	80.0	3.23	110	70-130			
Lead	76.4	1.0	0.30	ug/l	80.0	2.29	93	70-130			
Thallium	76.6	1.0	0.20	ug/l	80.0	0.232	95	70-130			
Matrix Spike Dup Analyzed: 12/06/2008 (8L03086-MSD1) Source: IRK2649-01											
Antimony	84.8	2.0	0.20	ug/l	80.0	0.520	105	70-130	3	20	
Cadmium	79.7	1.0	0.11	ug/l	80.0	ND	100	70-130	2	20	
Copper	81.0	2.0	0.75	ug/l	80.0	1.49	99	70-130	0	20	
Lead	77.2	1.0	0.30	ug/l	80.0	ND	97	70-130	1	20	
Thallium	78.8	1.0	0.20	ug/l	80.0	0.227	98	70-130	1	20	

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Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08
 Received: 11/26/08

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: 8L03087 Extracted: 12/03/08											
Blank Analyzed: 12/06/2008 (8L03087-BLK1)											
Antimony	ND	2.0	0.20	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.30	ug/l							
Thallium	ND	1.0	0.20	ug/l							
LCS Analyzed: 12/06/2008 (8L03087-BS1)											
Antimony	85.8	2.0	0.20	ug/l	80.0		107	85-115			
Cadmium	82.7	1.0	0.11	ug/l	80.0		103	85-115			
Copper	84.8	2.0	0.75	ug/l	80.0		106	85-115			
Lead	79.7	1.0	0.30	ug/l	80.0		100	85-115			
Thallium	82.4	1.0	0.20	ug/l	80.0		103	85-115			
Matrix Spike Analyzed: 12/06/2008 (8L03087-MS1) Source: IRK2490-02											
Antimony	84.7	2.0	0.20	ug/l	80.0	0.428	105	70-130			
Cadmium	79.2	1.0	0.11	ug/l	80.0	ND	99	70-130			
Copper	77.4	2.0	0.75	ug/l	80.0	1.01	95	70-130			
Lead	74.9	1.0	0.30	ug/l	80.0	ND	94	70-130			
Thallium	77.4	1.0	0.20	ug/l	80.0	0.201	96	70-130			
Matrix Spike Analyzed: 12/07/2008 (8L03087-MS2) Source: IRK2847-01											
Antimony	83.3	2.0	0.20	ug/l	80.0	0.347	104	70-130			
Cadmium	76.8	1.0	0.11	ug/l	80.0	ND	96	70-130			
Copper	76.9	2.0	0.75	ug/l	80.0	1.71	94	70-130			
Lead	71.2	1.0	0.30	ug/l	80.0	ND	89	70-130			
Thallium	73.9	1.0	0.20	ug/l	80.0	0.206	92	70-130			
Matrix Spike Dup Analyzed: 12/06/2008 (8L03087-MSD1) Source: IRK2490-02											
Antimony	96.7	2.0	0.20	ug/l	80.0	0.428	120	70-130	13	20	
Cadmium	89.9	1.0	0.11	ug/l	80.0	ND	112	70-130	13	20	
Copper	89.0	2.0	0.75	ug/l	80.0	1.01	110	70-130	14	20	
Lead	85.3	1.0	0.30	ug/l	80.0	ND	107	70-130	13	20	
Thallium	88.4	1.0	0.20	ug/l	80.0	0.201	110	70-130	13	20	

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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: 8K26165 Extracted: 11/26/08											
Blank Analyzed: 11/27/2008 (8K26165-BLK1)											
Chloride	ND	0.50	0.25	mg/l							
Nitrate/Nitrite-N	ND	0.26	0.15	mg/l							
Sulfate	ND	0.50	0.20	mg/l							
LCS Analyzed: 11/27/2008 (8K26165-BS1)											
Chloride	4.60	0.50	0.25	mg/l	5.00		92	90-110			
Sulfate	9.39	0.50	0.20	mg/l	10.0		94	90-110			
Matrix Spike Analyzed: 11/27/2008 (8K26165-MS1) Source: IRK2828-01											
Chloride	89.3	10	5.0	mg/l	50.0	43.9	91	80-120			
Sulfate	135	10	4.0	mg/l	100	47.0	88	80-120			
Matrix Spike Analyzed: 11/27/2008 (8K26165-MS2) Source: IRK2848-01											
Chloride	60.1	10	5.0	mg/l	50.0	13.2	94	80-120			
Sulfate	105	10	4.0	mg/l	100	8.27	97	80-120			
Matrix Spike Dup Analyzed: 11/27/2008 (8K26165-MSD1) Source: IRK2828-01											
Chloride	88.7	10	5.0	mg/l	50.0	43.9	89	80-120	1	20	
Sulfate	139	10	4.0	mg/l	100	47.0	92	80-120	2	20	
Batch: 8L01069 Extracted: 12/01/08											
Blank Analyzed: 12/01/2008 (8L01069-BLK1)											
Total Dissolved Solids	ND	10	10	mg/l							
LCS Analyzed: 12/01/2008 (8L01069-BS1)											
Total Dissolved Solids	996	10	10	mg/l	1000		100	90-110			

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 8L01069 Extracted: 12/01/08											
Duplicate Analyzed: 12/01/2008 (8L01069-DUP1)						Source: IRK2818-01					
Total Dissolved Solids	192	10	10	mg/l		195			2	10	
Batch: 8L03056 Extracted: 12/03/08											
Blank Analyzed: 12/03/2008 (8L03056-BLK1)											
Perchlorate	ND	4.0	0.90	ug/l							
LCS Analyzed: 12/03/2008 (8L03056-BS1)											
Perchlorate	25.2	4.0	0.90	ug/l	25.0		101	85-115			
Matrix Spike Analyzed: 12/03/2008 (8L03056-MS1)						Source: IRL0164-01					
Perchlorate	25.8	4.0	0.90	ug/l	25.0	ND	103	80-120			
Matrix Spike Dup Analyzed: 12/03/2008 (8L03056-MSD1)						Source: IRL0164-01					
Perchlorate	26.1	4.0	0.90	ug/l	25.0	ND	104	80-120	1	20	
Batch: 8L09056 Extracted: 12/09/08											
Blank Analyzed: 12/09/2008 (8L09056-BLK1)											
Hexane Extractable Material (Oil & Grease)	ND	5.0	1.4	mg/l							
LCS Analyzed: 12/09/2008 (8L09056-BS1)											
Hexane Extractable Material (Oil & Grease)	19.4	5.0	1.4	mg/l	20.2		96	78-114			MNR1
LCS Dup Analyzed: 12/09/2008 (8L09056-BSD1)											
Hexane Extractable Material (Oil & Grease)	19.4	5.0	1.4	mg/l	20.2		96	78-114	0	11	

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 1751 Extracted: 12/09/08											
Blank Analyzed: 12/11/2008 (MB001)						Source:					
2,3,7,8-TCDD	ND	0.0000500	0.0000105	ug/L				50-150		25	
1,2,3,7,8-PeCDD	ND	0.0000250	0.0000167	ug/L				50-150		25	
1,2,3,4,7,8-HxCDD	ND	0.0000250	0.0000324	ug/L				50-150		25	
1,2,3,6,7,8-HxCDD	ND	0.0000250	0.0000316	ug/L				50-150		25	
1,2,3,7,8,9-HxCDD	ND	0.0000250	0.0000297	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDD	ND	0.0000250	0.0000531	ug/L				50-150		25	
OCDD	ND	0.0000500	0.0000127	ug/L				50-150		25	
2,3,7,8-TCDF	ND	0.0000500	0.0000080	ug/L				50-150		25	
1,2,3,7,8-PeCDF	ND	0.0000250	0.0000202	ug/L				50-150		25	
2,3,4,7,8-PeCDF	ND	0.0000250	0.0000222	ug/L				50-150		25	
1,2,3,4,7,8-HxCDF	ND	0.0000250	0.0000133	ug/L				50-150		25	
1,2,3,6,7,8-HxCDF	ND	0.0000250	0.0000143	ug/L				50-150		25	
2,3,4,6,7,8-HxCDF	ND	0.0000250	0.0000016	ug/L				50-150		25	
1,2,3,7,8,9-HxCDF	ND	0.0000250	0.0000216	ug/L				50-150		25	
1,2,3,4,6,7,8-HpCDF	ND	0.0000250	0.0000199	ug/L				50-150		25	
1,2,3,4,7,8,9-HpCDF	ND	0.0000250	0.0000024	ug/L				50-150		25	
OCDF	ND	0.0000500	0.0000046	ug/L				50-150		25	
Total TCDD	ND	0.0000500	0.0000105	ug/L				50-150		25	
Total PeCDD	ND	0.0000250	0.0000167	ug/L				50-150		25	
Total HxCDD	ND	0.0000250	0.0000297	ug/L				50-150		25	
Total HpCDD	ND	0.0000250	0.0000531	ug/L				50-150		25	
Total TCDF	ND	0.0000500	0.0000080	ug/L				50-150		25	
Total PeCDF	ND	0.0000250	0.0000202	ug/L				50-150		25	
Total HxCDF	ND	0.0000250	0.0000133	ug/L				50-150		25	
Total HpCDF	ND	0.0000250	0.0000199	ug/L				50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	0.00163			ug/L	2000		82	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	0.00144			ug/L	2000		72	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	0.00146			ug/L	2000		73	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	0.00161			ug/L	2000		80	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	0.00154			ug/L	2000		77	50-150			
Surrogate: 13C-OCDD	0.00246			ug/L	4000		62	50-150			
Surrogate: 13C-2,3,7,8-TCDF	0.00170			ug/L	2000		85	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	0.00141			ug/L	2000		71	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	0.00148			ug/L	2000		74	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	0.00136			ug/L	2000		68	50-150			

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 Attention: Bronwyn Kelly

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Report Number: IRK2828

Sampled: 11/26/08
 Received: 11/26/08

METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 1751 Extracted: 12/09/08											
Blank Analyzed: 12/11/2008 (MB001)											
Source:											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	0.00135			ug/L	2000		67	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	0.00146			ug/L	2000		73	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	0.00151			ug/L	2000		76	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	0.00135			ug/L	2000		67	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	0.00147			ug/L	2000		74	50-150			
Surrogate: 13C-OCDF	0.00243			ug/L	4000		61	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	0.000803			ug/L	800		100	50-150			
LCS Analyzed: 12/11/2008 (OPR001)											
Source:											
2,3,7,8-TCDD	9.24	5.00	0.840	ug/L	10		92	50-150		25	
1,2,3,7,8-PeCDD	47.8	25.0	1.59	ug/L	50		96	50-150		25	
1,2,3,4,7,8-HxCDD	47.7	25.0	1.18	ug/L	50		95	50-150		25	
1,2,3,6,7,8-HxCDD	48.5	25.0	1.69	ug/L	50		97	50-150		25	
1,2,3,7,8,9-HxCDD	47.8	25.0	1.18	ug/L	50		96	50-150		25	
1,2,3,4,6,7,8-HpCDD	46.5	25.0	2.01	ug/L	50		93	50-150		25	
OCDD	94.5	50.0	2.45	ug/L	100		95	50-150		25	
2,3,7,8-TCDF	9.29	5.00	0.970	ug/L	10		93	50-150		25	
1,2,3,7,8-PeCDF	44.8	25.0	1.09	ug/L	50		90	50-150		25	
2,3,4,7,8-PeCDF	44.8	25.0	1.48	ug/L	50		90	50-150		25	
1,2,3,4,7,8-HxCDF	46.0	25.0	1.06	ug/L	50		92	50-150		25	
1,2,3,6,7,8-HxCDF	46.8	25.0	0.730	ug/L	50		94	50-150		25	
2,3,4,6,7,8-HxCDF	46.2	25.0	1.26	ug/L	50		92	50-150		25	
1,2,3,7,8,9-HxCDF	46.5	25.0	0.940	ug/L	50		93	50-150		25	
1,2,3,4,6,7,8-HpCDF	47.4	25.0	1.70	ug/L	50		95	50-150		25	
1,2,3,4,7,8,9-HpCDF	48.2	25.0	0.960	ug/L	50		96	50-150		25	
OCDF	84.1	50.0	3.66	ug/L	100		84	50-150		25	
Surrogate: 13C-2,3,7,8-TCDD	70.4			ug/L	100		70	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDD	60.3			ug/L	100		60	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDD	66.5			ug/L	100		67	50-150			
Surrogate: 13C-1,2,3,6,7,8-HxCDD	75.3			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDD	65.4			ug/L	100		65	50-150			
Surrogate: 13C-OCDD	89.0			ug/L	200		45	50-150			
Surrogate: 13C-2,3,7,8-TCDF	74.5			ug/L	100		75	50-150			
Surrogate: 13C-1,2,3,7,8-PeCDF	57.2			ug/L	100		57	50-150			
Surrogate: 13C-2,3,4,7,8-PeCDF	61.8			ug/L	100		62	50-150			
Surrogate: 13C-1,2,3,4,7,8-HxCDF	62.2			ug/L	100		62	50-150			

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METHOD BLANK/QC DATA

DIOXIN (EPA 1613)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 1751 Extracted: 12/09/08											
LCS Analyzed: 12/11/2008 (OPR001)											
Surrogate: 13C-1,2,3,6,7,8-HxCDF	63.7			ug/L	100		64	50-150			
Surrogate: 13C-2,3,4,6,7,8-HxCDF	65.7			ug/L	100		66	50-150			
Surrogate: 13C-1,2,3,7,8,9-HxCDF	66.9			ug/L	100		67	50-150			
Surrogate: 13C-1,2,3,4,6,7,8-HpCDF	59.7			ug/L	100		60	50-150			
Surrogate: 13C-1,2,3,4,7,8,9-HpCDF	55.5			ug/L	100		56	50-150			
Surrogate: 13C-OCDF	83.9			ug/L	200		42	50-150			
Surrogate: 37Cl-2,3,7,8-TCDD	30.7			ug/L	40		77	50-150			

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METHOD BLANK/QC DATA

MCAWW 245.1

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8336128 Extracted: 12/01/08											
Matrix Spike Dup Analyzed: 12/01/2008 (D8K290110001D)						Source: D8K290110001					
Mercury	5.41	0.2	0.027	ug/L	5	ND	108	90-110	0	10	
Matrix Spike Analyzed: 12/01/2008 (D8K290110001S)						Source: D8K290110001					
Mercury	5.41	0.2	0.027	ug/L	5	ND	108	90-110	0	10	
Blank Analyzed: 12/01/2008 (D8L010000128B)						Source:					
Mercury	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/01/2008 (D8L010000128C)						Source:					
Mercury	5.27	0.2	0.027	ug/L	5		105	90-110			

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METHOD BLANK/QC DATA

MCAWW 245.1 Diss

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8336136 Extracted: 12/01/08											
Matrix Spike Dup Analyzed: 12/01/2008 (D8K290110001D)						Source: D8K290110001					
Mercury-diss	5.33	0.2	0.027	ug/L	5	ND	107	90-110	2	10	
Matrix Spike Analyzed: 12/01/2008 (D8K290110001S)						Source: D8K290110001					
Mercury-diss	5.43	0.2	0.027	ug/L	5	ND	109	90-110	2	10	
Blank Analyzed: 12/01/2008 (D8L010000136B)						Source:					
Mercury-diss	ND	0.2	0.027	ug/L				-			
LCS Analyzed: 12/01/2008 (D8L010000136C)						Source:					
Mercury-diss	5.16	0.2	0.027	ug/L	5		103	90-110			

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Compliance Check

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

LabNumber	Analysis	Analyte	Units	Result	MRL	Compliance Limit
IRK2828-01	1664-HEM	Hexane Extractable Material (Oil & Greas	mg/l	2.93	4.9	15
IRK2828-01	Antimony-200.8	Antimony	ug/l	0.37	2.0	6
IRK2828-01	Cadmium-200.8	Cadmium	ug/l	0.22	1.0	4
IRK2828-01	Chloride - 300.0	Chloride	mg/l	44	10	150
IRK2828-01	Copper-200.8	Copper	ug/l	2.67	2.0	14
IRK2828-01	Lead-200.8	Lead	ug/l	1.54	1.0	5.2
IRK2828-01	Nitrogen, NO3+NO2 -N	Nitrate/Nitrite-N	mg/l	6.44	5.2	10
IRK2828-01	Perchlorate 314.0-DEFAULT	Perchlorate	ug/l	0	4.0	6
IRK2828-01	Sulfate-300.0	Sulfate	mg/l	47	0.50	250
IRK2828-01	TDS - SM 2540C	Total Dissolved Solids	mg/l	284	10	850
IRK2828-01	Thallium-200.8	Thallium	ug/l	0.067	1.0	2

TestAmerica Irvine

Trupti Mistry For Joseph Doak
 Project Manager

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

Project ID: Semi-Annual Outfall 006

Report Number: IRK2828

Sampled: 11/26/08

Received: 11/26/08

DATA QUALIFIERS AND DEFINITIONS

- B** Analyte was detected in the associated Method Blank.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Certification Summary

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Method	Matrix	Nelac	California
EPA 1664A	Water	X	X
EPA 200.8-Diss	Water	X	X
EPA 200.8	Water	X	X
EPA 300.0	Water	X	X
EPA 314.0	Water	X	X
SM2540C	Water	X	

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

Subcontracted Laboratories

Alta Analytical Perspectives

2714 Exchange Drive - Wilmington, NC 28405

Method Performed: 1613-Dioxin-HR Alta
Samples: IRK2828-01

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chnric
Samples: IRK2828-01

TestAmerica Denver

4955 Yarrow Street - Arvada, CO 80002

Method Performed: MCAWW 245.1
Samples: IRK2828-01

Method Performed: MCAWW 245.1 Diss
Samples: IRK2828-01

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TestAmerica St. Louis

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gamma Spec
Samples: IRK2828-01

Analysis Performed: Gross Alpha
Samples: IRK2828-01

Analysis Performed: Gross Beta
Samples: IRK2828-01

Analysis Performed: Radium, Combined
Samples: IRK2828-01

Analysis Performed: Strontium 90
Samples: IRK2828-01

Analysis Performed: Tritium
Samples: IRK2828-01

Analysis Performed: Uranium, Combined
Samples: IRK2828-01

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

1104 Windfield Way - El Dorado Hills, CA 95762

Analysis Performed: 1613-Dioxin-HR-Alta
Samples: IRK2828-01

TestAmerica Irvine

Trupti Mistry For Joseph Doak
Project Manager