

APPENDIX G

Section 33

Outfall 006, January 5, 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: Routine Outfall 006

Sampled: 01/05/08
Received: 01/05/08
Issued: 02/21/08 13:58

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

ADDITIONAL INFORMATION: This final report includes initial and re-analysis of Nitrate+Nitrite. Please see case narrative.

LABORATORY ID

IRA0398-01

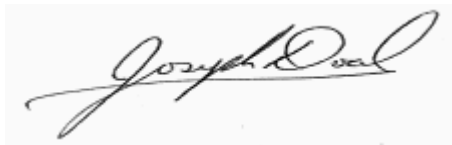
CLIENT ID

Outfall 006

MATRIX

Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
Received: 01/05/08

CORRECTIVE ACTION REPORT

Department: Wet Chemistry

Date: 02/18/2008

Method: EPA 300.0

Matrix: Water

QC Batch: 8A06026

Identification and Definition of Problem:

The nitrate results for IRA0398-01 and IRA0400-01 were reported incorrectly.

Determination of the Cause of the Problem:

The nitrate results were reported from a nitric acid-preserved container due to analyst error

Corrective Action Taken:

Nitrate results for samples IRA0398-01 and IRA0400-01 have been revised to include results from the unpreserved containers provided (sample suffix RE1), albeit outside the method-specified holding time, as well as the original results from the incorrect containers. Results have been qualified to note holding time exceedance. All personnel involved with the incorrect analysis have been retrained and disciplinary taken.

Quality Assurance Approval:



Dave Dawes

Date: 02/20/2008 04:01 PM

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08

Received: 01/05/08

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0398-01 (Outfall 006 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 8A07054 | 0.20 | 2.0 | 0.37 | 1 | 01/07/08 | 01/08/08 | J |
| Cadmium | EPA 200.8 | 8A07054 | 0.11 | 1.0 | 0.14 | 1 | 01/07/08 | 01/08/08 | J |
| Copper | EPA 200.8 | 8A07054 | 0.75 | 2.0 | 1.9 | 1 | 01/07/08 | 01/08/08 | J |
| Lead | EPA 200.8 | 8A07054 | 0.30 | 1.0 | 0.70 | 1 | 01/07/08 | 01/08/08 | J |
| Thallium | EPA 200.8 | 8A07054 | 0.20 | 1.0 | ND | 1 | 01/07/08 | 01/08/08 | |

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NPDES - 1372

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08

Received: 01/05/08

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0398-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 8A08129 | 0.20 | 2.0 | 0.35 | 1 | 01/08/08 | 01/08/08 | J |
| Cadmium | EPA 200.8-Diss | 8A08129 | 0.11 | 1.0 | ND | 1 | 01/08/08 | 01/08/08 | |
| Copper | EPA 200.8-Diss | 8A08129 | 0.75 | 2.0 | ND | 1 | 01/08/08 | 01/08/08 | |
| Lead | EPA 200.8-Diss | 8A08129 | 0.30 | 1.0 | ND | 1 | 01/08/08 | 01/08/08 | |
| Thallium | EPA 200.8-Diss | 8A08129 | 0.20 | 1.0 | ND | 1 | 01/08/08 | 01/08/08 | |

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IRA0398 <Page 4 of 15>
NPDES - 1373

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
 Received: 01/05/08

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0398-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | EPA 1664A | 8A07065 | 1.3 | 4.8 | ND | 1 | 01/07/08 | 01/07/08 | |
| Chloride | EPA 300.0 | 8A06026 | 5.0 | 10 | 110 | 20 | 01/06/08 | 01/06/08 | |
| Nitrate/Nitrite-N | EPA 300.0 | 8A06026 | 15 | 26 | 420 | 100 | 01/06/08 | 01/06/08 | A-01 |
| Sulfate | EPA 300.0 | 8A06026 | 4.0 | 10 | 21 | 20 | 01/06/08 | 01/06/08 | |
| Total Dissolved Solids | SM2540C | 8A08083 | 10 | 10 | 370 | 1 | 01/08/08 | 01/08/08 | |
| Sample ID: IRA0398-01RE1 (Outfall 006 - Water) | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Nitrate/Nitrite-N | EPA 300.0 | 8B18046 | 0.15 | 0.26 | 1.2 | 1 | 01/18/08 | 02/18/08 | H |

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MWH-Pasadena/Boeing
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Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08

Received: 01/05/08

Metals by EPA 200 Series Methods

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0398-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Mercury, Dissolved | EPA 245.1 | W8A0148 | 0.050 | 0.20 | ND | 1 | 01/08/08 | 01/09/08 | |
| Mercury, Total | EPA 245.1 | W8A0148 | 0.050 | 0.20 | ND | 1 | 01/08/08 | 01/09/08 | |

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IRA0398 <Page 6 of 15>
NPDES - 1375

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08

Received: 01/05/08

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 (IRA0398-01) - Water | | | | | |
| EPA 300.0 | 2 | 01/05/2008 10:45 | 01/05/2008 19:00 | 01/06/2008 07:00 | 01/06/2008 10:08 |
| Sample ID: Outfall 006 (IRA0398-01RE1) - Water | | | | | |
| EPA 300.0 | 2 | 01/05/2008 10:45 | 01/05/2008 19:00 | 01/18/2008 07:00 | 02/18/2008 11:35 |

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IRA0398 <Page 7 of 15>
NPDES - 1376

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
Received: 01/05/08

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: 8A07054 Extracted: 01/07/08 | | | | | | | | | | | |
| Blank Analyzed: 01/07/2008-01/08/2008 (8A07054-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: 01/07/2008-01/08/2008 (8A07054-BS1) | | | | | | | | | | | |
| Antimony | 88.8 | 2.0 | 0.20 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Cadmium | 89.4 | 1.0 | 0.11 | ug/l | 80.0 | | 112 | 85-115 | | | |
| Copper | 89.2 | 2.0 | 0.75 | ug/l | 80.0 | | 112 | 85-115 | | | |
| Lead | 88.5 | 1.0 | 0.30 | ug/l | 80.0 | | 111 | 85-115 | | | |
| Thallium | 86.1 | 1.0 | 0.20 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 01/07/2008-01/08/2008 (8A07054-MS1) Source: IRA0401-01 | | | | | | | | | | | |
| Antimony | 89.1 | 2.0 | 0.20 | ug/l | 80.0 | 1.27 | 110 | 70-130 | | | |
| Cadmium | 84.7 | 1.0 | 0.11 | ug/l | 80.0 | 0.935 | 105 | 70-130 | | | |
| Copper | 83.7 | 2.0 | 0.75 | ug/l | 80.0 | 3.32 | 101 | 70-130 | | | |
| Lead | 83.6 | 1.0 | 0.30 | ug/l | 80.0 | 0.923 | 103 | 70-130 | | | |
| Thallium | 88.7 | 1.0 | 0.20 | ug/l | 80.0 | ND | 111 | 70-130 | | | |
| Matrix Spike Analyzed: 01/07/2008-01/08/2008 (8A07054-MS2) Source: IRA0399-01 | | | | | | | | | | | |
| Antimony | 85.0 | 2.0 | 0.20 | ug/l | 80.0 | 1.00 | 105 | 70-130 | | | |
| Cadmium | 85.6 | 1.0 | 0.11 | ug/l | 80.0 | ND | 107 | 70-130 | | | |
| Copper | 88.1 | 2.0 | 0.75 | ug/l | 80.0 | 5.80 | 103 | 70-130 | | | |
| Lead | 82.6 | 1.0 | 0.30 | ug/l | 80.0 | 2.27 | 100 | 70-130 | | | |
| Thallium | 86.9 | 1.0 | 0.20 | ug/l | 80.0 | ND | 109 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/07/2008-01/08/2008 (8A07054-MSD1) Source: IRA0401-01 | | | | | | | | | | | |
| Antimony | 87.9 | 2.0 | 0.20 | ug/l | 80.0 | 1.27 | 108 | 70-130 | 1 | 20 | |
| Cadmium | 84.2 | 1.0 | 0.11 | ug/l | 80.0 | 0.935 | 104 | 70-130 | 1 | 20 | |
| Copper | 83.2 | 2.0 | 0.75 | ug/l | 80.0 | 3.32 | 100 | 70-130 | 1 | 20 | |
| Lead | 83.1 | 1.0 | 0.30 | ug/l | 80.0 | 0.923 | 103 | 70-130 | 1 | 20 | |
| Thallium | 88.4 | 1.0 | 0.20 | ug/l | 80.0 | ND | 110 | 70-130 | 0 | 20 | |

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
 Received: 01/05/08

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: 8A08129 Extracted: 01/08/08 | | | | | | | | | | | |
| Blank Analyzed: 01/08/2008 (8A08129-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: 01/08/2008 (8A08129-BS1) | | | | | | | | | | | |
| Antimony | 78.0 | 2.0 | 0.20 | ug/l | 80.0 | | 98 | 85-115 | | | |
| Cadmium | 79.9 | 1.0 | 0.11 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Copper | 76.8 | 2.0 | 0.75 | ug/l | 80.0 | | 96 | 85-115 | | | |
| Lead | 85.3 | 1.0 | 0.30 | ug/l | 80.0 | | 107 | 85-115 | | | |
| Thallium | 86.4 | 1.0 | 0.20 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Matrix Spike Analyzed: 01/08/2008 (8A08129-MS1) Source: IRA0393-01 | | | | | | | | | | | |
| Antimony | 79.2 | 2.0 | 0.20 | ug/l | 80.0 | 0.570 | 98 | 70-130 | | | |
| Cadmium | 76.6 | 1.0 | 0.11 | ug/l | 80.0 | ND | 96 | 70-130 | | | |
| Copper | 76.2 | 2.0 | 0.75 | ug/l | 80.0 | 2.23 | 92 | 70-130 | | | |
| Lead | 83.2 | 1.0 | 0.30 | ug/l | 80.0 | ND | 104 | 70-130 | | | |
| Thallium | 84.3 | 1.0 | 0.20 | ug/l | 80.0 | ND | 105 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/08/2008 (8A08129-MSD1) Source: IRA0393-01 | | | | | | | | | | | |
| Antimony | 79.1 | 2.0 | 0.20 | ug/l | 80.0 | 0.570 | 98 | 70-130 | 0 | 20 | |
| Cadmium | 76.4 | 1.0 | 0.11 | ug/l | 80.0 | ND | 96 | 70-130 | 0 | 20 | |
| Copper | 76.0 | 2.0 | 0.75 | ug/l | 80.0 | 2.23 | 92 | 70-130 | 0 | 20 | |
| Lead | 82.9 | 1.0 | 0.30 | ug/l | 80.0 | ND | 104 | 70-130 | 0 | 20 | |
| Thallium | 83.6 | 1.0 | 0.20 | ug/l | 80.0 | ND | 104 | 70-130 | 1 | 20 | |

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
 Received: 01/05/08

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: 8A06026 Extracted: 01/06/08 | | | | | | | | | | | |
| Blank Analyzed: 01/06/2008 (8A06026-BLK1) | | | | | | | | | | | |
| Chloride | ND | 0.50 | 0.25 | mg/l | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.15 | mg/l | | | | | | | |
| Sulfate | 0.320 | 0.50 | 0.20 | mg/l | | | | | | | J |
| LCS Analyzed: 01/06/2008 (8A06026-BS1) | | | | | | | | | | | |
| Chloride | 4.53 | 0.50 | 0.25 | mg/l | 5.00 | | 91 | 90-110 | | | |
| Sulfate | 9.97 | 0.50 | 0.20 | mg/l | 10.0 | | 100 | 90-110 | | | |
| Matrix Spike Analyzed: 01/06/2008 (8A06026-MS1) Source: IRA0399-01 | | | | | | | | | | | |
| Chloride | 12.9 | 0.50 | 0.25 | mg/l | 5.00 | 7.84 | 101 | 80-120 | | | |
| Sulfate | 22.3 | 0.50 | 0.20 | mg/l | 10.0 | 12.0 | 103 | 80-120 | | | |
| Matrix Spike Dup Analyzed: 01/06/2008 (8A06026-MSD1) Source: IRA0399-01 | | | | | | | | | | | |
| Chloride | 12.6 | 0.50 | 0.25 | mg/l | 5.00 | 7.84 | 94 | 80-120 | 3 | 20 | |
| Sulfate | 21.6 | 0.50 | 0.20 | mg/l | 10.0 | 12.0 | 96 | 80-120 | 3 | 20 | |
| Batch: 8A07065 Extracted: 01/07/08 | | | | | | | | | | | |
| Blank Analyzed: 01/07/2008 (8A07065-BLK1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | ND | 5.0 | 1.4 | mg/l | | | | | | | |
| LCS Analyzed: 01/07/2008 (8A07065-BS1) MNR1 | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 17.9 | 5.0 | 1.4 | mg/l | 20.2 | | 89 | 78-114 | | | |
| LCS Dup Analyzed: 01/07/2008 (8A07065-BSD1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 18.6 | 5.0 | 1.4 | mg/l | 20.2 | | 92 | 78-114 | 4 | 11 | |

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 Project Manager

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
 Received: 01/05/08

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: 8A08083 Extracted: 01/08/08</u> | | | | | | | | | | | |
| Blank Analyzed: 01/08/2008 (8A08083-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/08/2008 (8A08083-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 992 | 10 | 10 | mg/l | 1000 | | 99 | 90-110 | | | |
| Duplicate Analyzed: 01/08/2008 (8A08083-DUP1) | | | | | | | | | | | |
| Total Dissolved Solids | 1930 | 10 | 10 | mg/l | | Source: IRA0479-01 1940 | | | 0 | 10 | |
| <u>Batch: 8B18046 Extracted: 02/18/08</u> | | | | | | | | | | | |
| Blank Analyzed: 02/18/2008 (8B18046-BLK1) | | | | | | | | | | | |
| Nitrate/Nitrite-N | ND | 0.26 | 0.15 | mg/l | | | | | | | |

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 Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
 Received: 01/05/08

METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: W8A0148 Extracted: 01/08/08 | | | | | | | | | | | |
| Blank Analyzed: 01/09/2008 (W8A0148-BLK1) | | | | | | | | | | | |
| Mercury, Dissolved | ND | 0.20 | 0.050 | ug/l | | | | | | | |
| Mercury, Total | ND | 0.20 | 0.050 | ug/l | | | | | | | |
| LCS Analyzed: 01/09/2008 (W8A0148-BS1) | | | | | | | | | | | |
| Mercury, Dissolved | 0.965 | 0.20 | 0.050 | ug/l | 1.00 | | 96 | 85-115 | | | |
| Mercury, Total | 0.965 | 0.20 | 0.050 | ug/l | 1.00 | | 96 | 85-115 | | | |
| Matrix Spike Analyzed: 01/09/2008 (W8A0148-MS1) Source: 7120722-01 | | | | | | | | | | | |
| Mercury, Dissolved | 1.97 | 0.40 | 0.10 | ug/l | 2.00 | ND | 98 | 70-130 | | | |
| Mercury, Total | 1.97 | 0.40 | 0.10 | ug/l | 2.00 | ND | 98 | 70-130 | | | |
| Matrix Spike Analyzed: 01/09/2008 (W8A0148-MS2) Source: 7120722-03 | | | | | | | | | | | |
| Mercury, Dissolved | 1.88 | 0.40 | 0.10 | ug/l | 2.00 | ND | 94 | 70-130 | | | |
| Mercury, Total | 1.88 | 0.40 | 0.10 | ug/l | 2.00 | ND | 94 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/09/2008 (W8A0148-MSD1) Source: 7120722-01 | | | | | | | | | | | |
| Mercury, Dissolved | 1.92 | 0.40 | 0.10 | ug/l | 2.00 | ND | 96 | 70-130 | 2 | 20 | |
| Mercury, Total | 1.92 | 0.40 | 0.10 | ug/l | 2.00 | ND | 96 | 70-130 | 2 | 20 | |
| Matrix Spike Dup Analyzed: 01/09/2008 (W8A0148-MSD2) Source: 7120722-03 | | | | | | | | | | | |
| Mercury, Dissolved | 1.96 | 0.40 | 0.10 | ug/l | 2.00 | ND | 98 | 70-130 | 4 | 20 | |
| Mercury, Total | 1.96 | 0.40 | 0.10 | ug/l | 2.00 | ND | 98 | 70-130 | 4 | 20 | |

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
Received: 01/05/08

DATA QUALIFIERS AND DEFINITIONS

- A-01** Please see Corrective Action Report.
- H** Sample analysis performed past method-specified holding time.
- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Irvine

Joseph Doak
Project Manager

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

IRA0398 <Page 13 of 15>
NPDES - 1382

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

Project ID: Routine Outfall 006

Report Number: IRA0398

Sampled: 01/05/08
Received: 01/05/08

Certification Summary

TestAmerica Irvine

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| EDD + Level 4 | Water | | |
| EPA 1664A | Water | | |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 300.0 | 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

Aquatic Testing Laboratories-SUB *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnrc
Samples: IRA0398-01

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec
Samples: IRA0398-01

Analysis Performed: Gross Alpha
Samples: IRA0398-01

Analysis Performed: Gross Beta
Samples: IRA0398-01

Analysis Performed: Radium, Combined
Samples: IRA0398-01

Analysis Performed: Strontium 90
Samples: IRA0398-01

Analysis Performed: Tritium
Samples: IRA0398-01

Analysis Performed: Uranium, Combined
Samples: IRA0398-01

TestAmerica Irvine

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

Project ID: Routine Outfall 006

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Sampled: 01/05/08
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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: IRA0398-01

Weck Laboratories, Inc

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

Method Performed: EPA 245.1
Samples: IRA0398-01

TestAmerica Irvine

Joseph Doak
Project Manager

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IRAO 398
IRAO 398

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

| Client Name/Address | | Project | | ANALYSIS REQUIRED | | Field readings: | | | | | | | | | | | |
|---|-------------------|--|--------------|---|-------------------|---|------------------|--|-------------------------|--|---|--|-------------------------------------|--|-------------------------------------|---------------------------|---------------------------|
| MWH-Arcadia 618 Michilinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak | | Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2 | | Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl | | Temp = 12.0 pH = 7.8 Time of readings = 10:45 | | | | | | | | | | | |
| Project Manager: Bronwyn Kelly Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Project: Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2 | | Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl | | Comments | | | | | | | | | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Chronic Toxicity | TDS | Oil & Grease (1664-HEM) | TCDD (and all congeners) | CI, SO ₄ , NO ₃ +NO ₂ -N | Gross Alpha(900), Gross Beta(900), 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) | Unfiltered and unpreserved analysis | Only test if second rain event of the year | Filter w/in 24hrs of receipt at lab | Turn around Time: (check) | Sample Integrity: (check) |
| Outfall 006 | W | 1L Poly | 1 | 1-5-08 10:45 | HNO ₃ | 1A | | | | | | | | | | 24 Hours | Intact |
| Outfall 006-Dup | W | 1L Poly | 1 | | HNO ₃ | 1B | | | | | | | | | | 48 Hours | Intact |
| Outfall 006 | W | 1L Amber | 2 | | None | 2A, 2B | | | | | | | | | | 72 Hours | Intact |
| Outfall 006 | W | 1L Amber | 2 | | HCl | 3A, 3B | | | X | | | | | | | | On Ice: 3 |
| Outfall 006 | W | 500 ml Poly | 2 | | None | 4A, 4B | | | | | X | | | | | | |
| Outfall 006 | W | 500 ml Poly | 1 | | None | 5 | | X | | | | | | | | | |
| Outfall 006 | W | 2.5 Gal Cube 500 ml Amber | 1 | | None | 6A | | | | | | X | | | | | |
| Outfall 006 | W | 500 ml Amber | 1 | | None | 6B | | | | | | | | | | | |
| Outfall 006 | W | 1 Gal Poly | 1 | 1-5-08 10:45 | None | 7 | | | | | | | | | | | |
| Outfall 006 | W | 1L Poly | 1 | | None | 8 | | | | | | | | | | | |
| Relinquished By | Robert Bam | Date/Time | 1-5-08 | Received By | Shirley Green TAI | Date/Time | 01/05/08 1535 | Turn around Time: (check) 5 Days 48 Hours 72 Hours | | Sample Integrity: (check) Normal Intact | | Unfiltered and unpreserved analysis Only test if second rain event of the year | | Filter w/in 24hrs of receipt at lab | | On Ice: 3 | |
| Relinquished By | Shirley Green TAF | Date/Time | 1/05/08 1900 | Received By | Amyda Green | Date/Time | 1/5/08 1900 | | | | | | | | | | |
| Relinquished By | | Date/Time | | Received By | | Date/Time | | | | | | | | | | | |

1/5/08
10:45
1535
1900

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: January 13, 2008
Client: TestAmerica, Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-08010504
Sample I.D.: IRA0398-01 (Outfall 006)

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

Date Sampled: 01/05/08
Date Received: 01/05/08
Temp. Received: 10°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 01/06/08 to 01/12/08

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

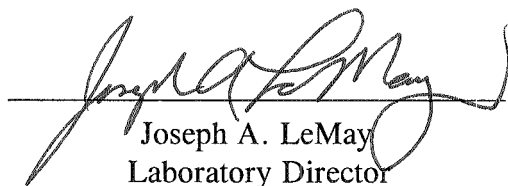
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

Result Summary:

| | <u>NOEC</u> | <u>TU_c</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

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-08010504-001
Client/ID: Test America – Outfall 006

Date Tested: 01/06/08 to 01/12/08

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-080106.

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: 6 days.
Statistics: ToxCalc computer program.

RESULTS SUMMARY

| Sample Concentration | Percent Survival | Mean Number of Young Per Female |
|---|------------------|---------------------------------|
| Control | 100% | 19.4 |
| 100% Sample | 100% | 22.4 |
| * 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 (19.4 young) |
| ≥ 60% surviving controls had 3 broods | Pass (80% with 3 broods) |
| PMSD < 47% for reproduction; if > 47% and no toxicity at IWC, the test must be repeated | Pass (PMSD = 18.6%) |
| 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-Survival Day 6

Start Date: 1/6/2008 13:00 Test ID: 8010504c Sample ID: Outfall 006
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/5/2008 10:45 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

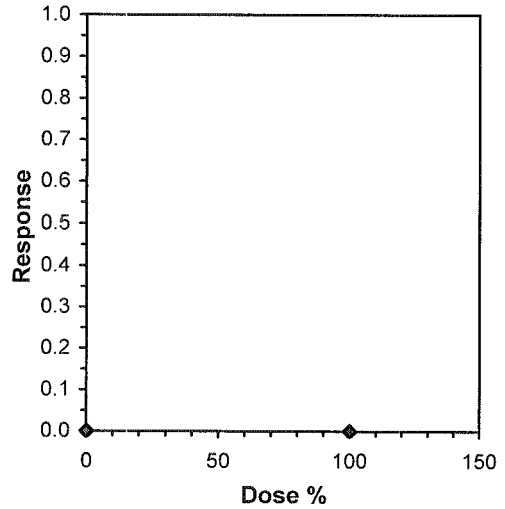
Comments:

| 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 Resp | Total | N | Fisher's Exact P | 1-Tailed Critical | Isotonic Mean | N-Mean |
|-----------|--------|--------|------|----------|-------|----|------------------|-------------------|---------------|--------|
| D-Control | 1.0000 | 1.0000 | 0 | 10 | 10 | 10 | | | 1.0000 | 1.0000 |
| 100 | 1.0000 | 1.0000 | 0 | 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 | | | | |

| Point | % | SD | Linear Interpolation (200 Resamples) | |
|-------|------|----|--------------------------------------|------|
| | | | 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: 1/6/2008 13:00 Test ID: 8010504c Sample ID: Outfall 006
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/5/2008 10:45 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

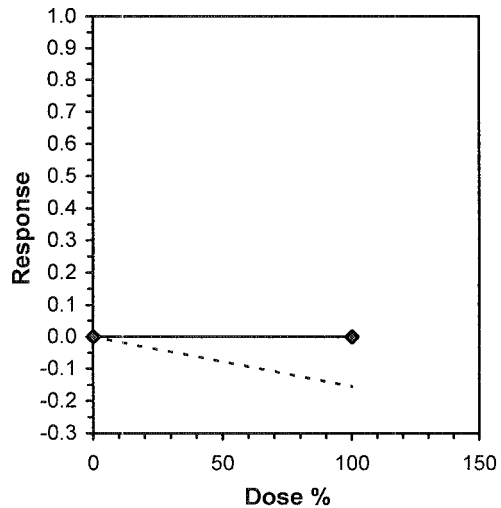
Comments:

| Conc-% | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 24.000 | 17.000 | 19.000 | 11.000 | 20.000 | 16.000 | 20.000 | 19.000 | 25.000 | 23.000 |
| 100 | 19.000 | 27.000 | 18.000 | 24.000 | 31.000 | 13.000 | 22.000 | 25.000 | 20.000 | 25.000 |

| Conc-% | Mean | N-Mean | Transform: Untransformed | | | | | N | t-Stat | 1-Tailed Critical | MSD | Isotonic | |
|-----------|--------|--------|--------------------------|--------|--------|--------|------|--------|--------|-------------------|--------|----------|--|
| | | | Mean | Min | Max | CV% | Mean | | | | | N-Mean | |
| D-Control | 19.400 | 1.0000 | 19.400 | 11.000 | 25.000 | 21.350 | 10 | | | | 20.900 | 1.0000 | |
| 100 | 22.400 | 1.1546 | 22.400 | 13.000 | 31.000 | 22.880 | 10 | -1.440 | 1.734 | 3.613 | 20.900 | 1.0000 | |

| Auxiliary Tests | Statistic | Critical | Skew | Kurt | | |
|--|-----------|----------|---------|---------|---------|-------|
| Shapiro-Wilk's Test indicates normal distribution (p > 0.05) | 0.97752 | 0.905 | -0.3274 | 0.0654 | | |
| F-Test indicates equal variances (p = 0.54) | 1.53109 | 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 | 3.61344 | 0.18626 | 45 | 21.7111 | 0.16712 | 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-08010504

Client ID: TestAmerica - Outfall 006

Start Date: 01/06/2008

| | | 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: | | h | h | h | h | h | h | h | h | h | h | h | h | - | - |
| Time of Readings: | | 1300 | 1400 | 1400 | 1300 | 1300 | 1330 | 1330 | 1300 | 1300 | 1300 | 1300 | 1300 | - | - |
| Control | DO | 7.5 | 7.7 | 7.3 | 8.0 | 7.2 | 7.7 | 7.2 | 7.5 | 7.8 | 8.0 | 7.8 | 8.0 | - | - |
| | pH | 7.5 | 7.4 | 7.4 | 7.2 | 7.3 | 7.3 | 7.2 | 7.4 | 7.4 | 7.4 | 7.4 | 7.5 | - | - |
| | Temp | 24.2 | 25.1 | 25.5 | 25.0 | 24.2 | 24.9 | 24.6 | 24.7 | 24.6 | 24.6 | 24.4 | 25.1 | - | - |
| 100% | DO | 9.0 | 6.3 | 9.1 | 6.4 | 4.5 | 7.8 | 9.9 | 7.2 | 9.7 | 8.1 | 10.0 | 8.1 | - | - |
| | pH | 7.3 | 7.3 | 7.2 | 7.2 | 7.2 | 7.4 | 7.2 | 7.3 | 7.2 | 7.4 | 7.3 | 7.4 | - | - |
| | Temp | 24.8 | 25.1 | 25.2 | 25.2 | 24.9 | 25.0 | 24.4 | 24.8 | 24.4 | 24.9 | 24.9 | 25.0 | - | - |

| Additional Parameters | Control | 100% Sample |
|--------------------------------------|---------|-------------|
| Conductivity (umohms) | 350 | 538 |
| Alkalinity (mg/l CaCO ₃) | 66 | 82 |
| Hardness (mg/l CaCO ₃) | 98 | 130 |
| Ammonia (mg/l NH ₃ -N) | 2.0-1 | 0.2 |

| Source of Neonates | | | | | | | | | | | |
|--------------------|----|----|----|----|----|----|----|----|----|----|--|
| Replicate: | A | B | C | D | E | F | G | H | I | J | |
| Brood ID: | 3I | 3G | 16 | 1I | 2J | 3F | 1H | 2D | 1C | 2I | |

| 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 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 3 | 3 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 11 | 10 | h |
| | 4 | 0 | 0 | 3 | 4 | 3 | 4 | 0 | 2 | 0 | 2 | 18 | 10 | h |
| | 5 | 8 | 6 | 6 | 7 | 7 | 0 | 6 | 7 | 9 | 8 | 64 | 10 | h |
| | 6 | 13 | 9 | 10 | 0 | 10 | 12 | 11 | 10 | 13 | 13 | 101 | 10 | h |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 24 | 17 | 19 | 11 | 20 | 16 | 20 | 19 | 25 | 23 | 194 | 10 | h |
| 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 3 | 3 | 0 | 3 | 4 | 5 | 0 | 4 | 0 | 0 | 19 | 10 | h | |
| | 4 | 0 | 4 | 6 | 0 | 0 | 4 | 4 | 7 | 2 | 3 | 30 | 10 | h |
| | 5 | 6 | 9 | 9 | 8 | 10 | 9 | 8 | 14 | 8 | 9 | 90 | 10 | h |
| | 6 | 10 | 14 | 0 | 12 | 16 | 0 | 10 | 12 | 10 | 13 | 85 | 10 | h |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 19 | 27 | 18 | 24 | 31 | 13 | 22 | 25 | 20 | 25 | 224 | 10 | h |

Circled fourth brood not used in statistical analysis.

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

TestAmerica Irvine
IRA0398

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: California
Receipt Temperature: 17 °C Ice: Y / N

| Analysis | Units | Due | Expires | Comments |
|--|-------|----------|----------------|--|
| Sample ID: IRA0398-01 | Water | | | Sampled: 01/05/08 10:45 ph=7.8, temp=53.60 |
| Bioassay-7 dy Chmic | N/A | 01/16/08 | 01/06/08 22:45 | Cerio, EPA/821-R02-013, Sub to Aquatic testing |
| Containers Supplied: 1 gal Poly (M) | | | | |

~~Released By _____ Date/Time _____~~

Received By [Signature] Date/Time 1-5-08 1700

Released By _____ Date/Time _____

Received By _____ Date/Time _____ Page 1 of 1

CHAIN OF CUSTODY FORM

| Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 Test America Contact: Joseph Doak | | Project: Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2 | | ANALYSIS REQUIRED | | | | | | | | | | | | | | | | | | | |
|---|---------------|--|------------|---|------------------|--------------------------|---|--------------------------|-------------------------|---|-----|--|------------------|--|--|--|--|--|--|--|--|----------|--|
| Project Manager: Bronwyn Kelly Sampler: <i>MARISCAL, J. BARRERA</i> | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl | | TCDD (and all congeners) | | Oil & Grease (1664-HEM) | | CI, SO ₄ , NO ₃ +NO ₂ -N | | TDS | | 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) | | Chronic Toxicity | | Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl | | Field readings: Temp = 12 cel. = 53.60 pH = 7.8 Time of readings = 1045 | | Comments | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Total Recoverable Metals: Sb, Cd, Cu, Pb, Hg, Tl | TCDD (and all congeners) | Oil & Grease (1664-HEM) | CI, SO ₄ , NO ₃ +NO ₂ -N | TDS | 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) | Chronic Toxicity | Total Dissolved Metals: Sb, Cd, Cu, Pb, Hg, Tl | Field readings: Temp = 12 cel. = 53.60 pH = 7.8 Time of readings = 1045 | Comments | | | | | | | |
| Outfall 006 | W | 1L Poly | 1 | 1-5-08 1045 | HNO ₃ | 1A | X | | | | | | | | | | | | | | | | |
| Outfall 006-Dup | W | 1L Poly | 1 | | HNO ₃ | 1B | X | | | | | | | | | | | | | | | | |
| Outfall 006 | W | 1L Amber | 2 | | None | 2A, 2B | | X | | | | | | | | | | | | | | | |
| Outfall 006 | W | 1L Amber | 2 | | HCl | 3A, 3B | | | X | | | | | | | | | | | | | | |
| Outfall 006 | W | 500 ml Poly | 2 | | None | 4A, 4B | | | | X | | | | | | | | | | | | | |
| Outfall 006 | W | 500 ml Poly | 1 | | None | 5 | | | | | X | | | | | | | | | | | | |
| Outfall 006 | W | 2.5 Gal Cube 500 ml Amber | 1 | | None | 6A | | | | | | X | | | | Unfiltered and unpreserved analysis | | | | | | | |
| Outfall 006 | W | 1 Gal Poly | 1 | | None | 7 | | | | | | | X | | | Only test if second rain event of the year | | | | | | | |
| Outfall 006 | W | 1L Poly | 1 | 1-5-08 1045 | None | 8 | | | | | | | | X | | Filter w/in 24hrs of receipt at lab | | | | | | | |
| Relinquished By <i>Rubin Ben</i> | | | | Date/Time: 1-5-08 | | | | | | | | | | | | | Turn around Time: (check) 24 Hours _____ 5 Days _____ | | | | | | |
| Relinquished By <i>Shirley</i> | | | | Date/Time: 1-5-08 | | | | | | | | | | | | | 48 Hours _____ 10 Days _____ | | | | | | |
| Relinquished By <i>Shirley</i> | | | | Date/Time: 1-5-08 | | | | | | | | | | | | | 72 Hours _____ Normal _____ | | | | | | |
| | | | | Date/Time: | | | | | | | | | | | | | Sample Integrity: (check) Intact _____ On Ice: _____ | | | | | | |



***REFERENCE
TOXICANT
DATA***

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-080106

Date Tested: 01/06/08 to 01/12/08

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: 6 days.
 Statistics: ToxCalc computer program.

RESULTS SUMMARY

| Sample Concentration | Percent Survival | | Mean Number of Young Per Female | |
|----------------------|------------------|---|---------------------------------|----|
| | | | | |
| Control | 100% | | 20.5 | |
| 0.25 g/l | 100% | | 19.5 | |
| 0.5 g/l | 100% | | 19.5 | |
| 1.0 g/l | 100% | | 14.0 | * |
| 2.0 g/l | 80% | | 3.2 | * |
| 4.0 g/l | 0% | * | 0 | ** |

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

CHRONIC TOXICITY

| | |
|-------------------|----------|
| Survival LC50 | 2.5 g/l |
| Reproduction IC25 | 0.88 g/l |

QA/QC TEST ACCEPTABILITY

| Parameter | Result |
|---|---------------------------------------|
| Control survival ≥80% | Pass (100% Survival) |
| ≥15 young per surviving control female | Pass (20.5 young) |
| ≥60% surviving controls had 3 broods | Pass (90% with 3 broods) |
| PMSD <47% for reproduction | Pass (PMSD = 19.1%) |
| Stat. sig. diff. conc. relative difference >13% | Pass (Stat. sig. diff. conc. = 31.7%) |
| Concentration response relationship acceptable | Pass (Response curve normal) |

Ceriodaphnia Survival and Reproduction Test-Survival Day 6

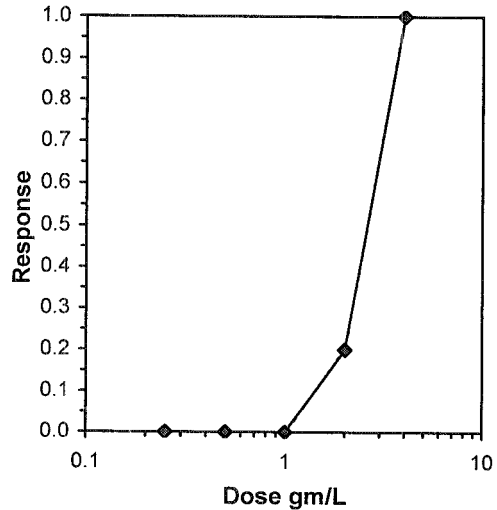
Start Date: 1/6/2008 13:00 Test ID: RT-080106c Sample ID: REF-Ref Toxicant
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/6/2008 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia
 Comments:

| 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 | 0.0000 | 0.0000 |
| 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 | 0.8000 | 0.8000 | 2 | 8 | 10 | 10 | 0.2368 | 0.0500 | 2 | 10 |
| 4 | 0.0000 | 0.0000 | 10 | 0 | 10 | 10 | | | 10 | 10 |

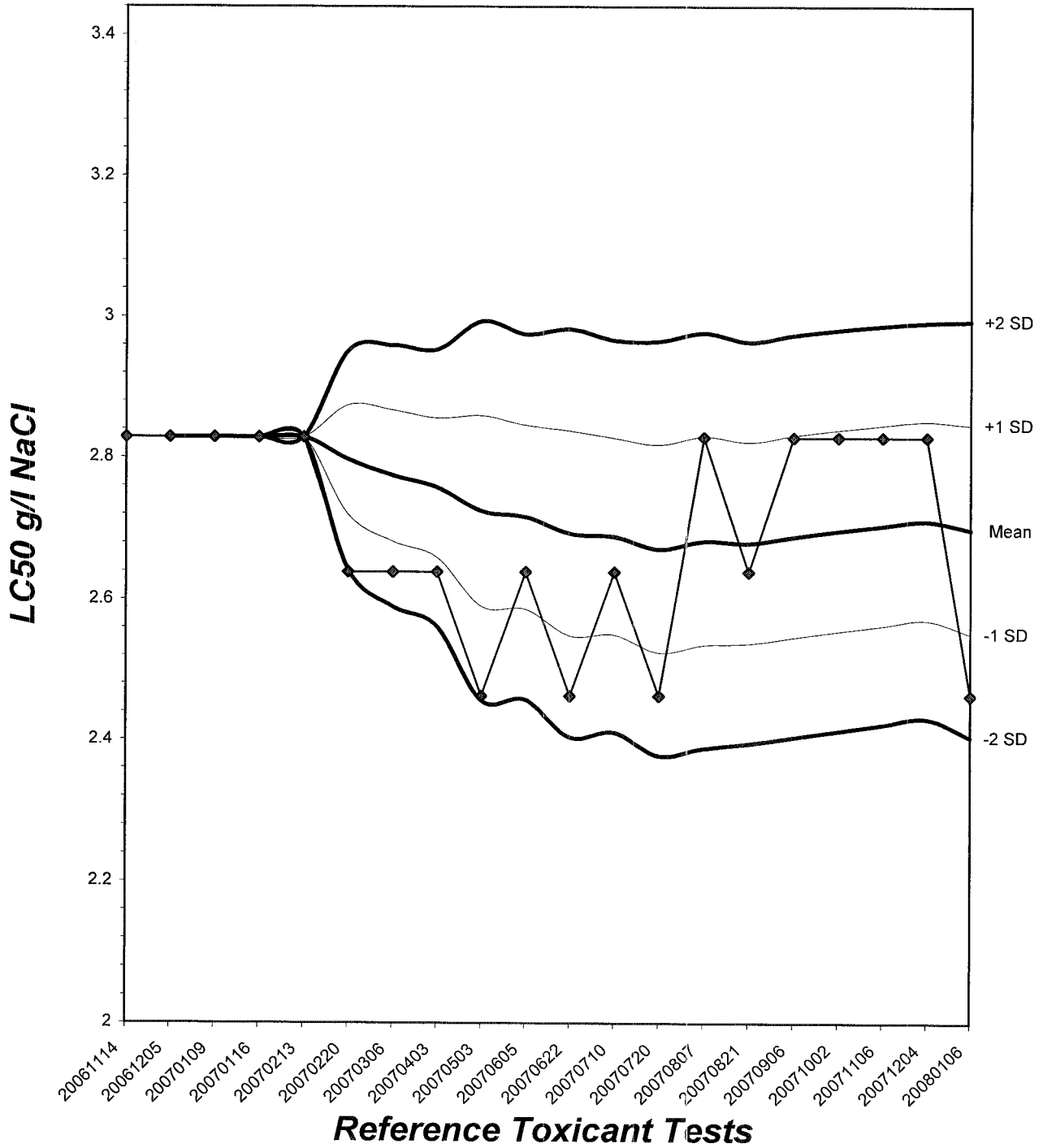
| Hypothesis Test (1-tail, 0.05) | NOEC | LOEC | ChV | TU |
|--------------------------------|------|------|---------|----|
| Fisher's Exact Test | 2 | 4 | 2.82843 | |
| Treatments vs D-Control | | | | |

| Trimmed Spearman-Kärber | | | |
|-------------------------|--------|--------|--------|
| Trim Level | EC50 | 95% CL | |
| 0.0% | 2.4623 | 2.0663 | 2.9342 |
| 5.0% | 2.5108 | 2.0545 | 3.0683 |
| 10.0% | 2.5519 | 1.9976 | 3.2599 |
| 20.0% | 2.5937 | 2.2616 | 2.9745 |
| Auto-0.0% | 2.4623 | 2.0663 | 2.9342 |



Ceriodaphnia dubia Chronic Survival Laboratory Control Chart

CV% = 5.46



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/6/2008 13:00 Test ID: RT-080106c Sample ID: REF-Ref Toxicant
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/6/2008 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia
 Comments:

| Conc-gm/L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 23.000 | 11.000 | 21.000 | 21.000 | 23.000 | 20.000 | 19.000 | 22.000 | 20.000 | 25.000 |
| 0.25 | 12.000 | 24.000 | 19.000 | 22.000 | 9.000 | 20.000 | 21.000 | 21.000 | 22.000 | 25.000 |
| 0.5 | 21.000 | 19.000 | 21.000 | 22.000 | 16.000 | 12.000 | 22.000 | 21.000 | 22.000 | 19.000 |
| 1 | 19.000 | 9.000 | 9.000 | 19.000 | 14.000 | 10.000 | 16.000 | 17.000 | 19.000 | 8.000 |
| 2 | 8.000 | 2.000 | 2.000 | 5.000 | 4.000 | 3.000 | 3.000 | 5.000 | 0.000 | 0.000 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Conc-gm/L | Mean | N-Mean | Transform: Untransformed | | | | | Rank Sum | 1-Tailed Critical | Isotonic | |
|-----------|--------|--------|--------------------------|--------|--------|--------|----|----------|-------------------|----------|--------|
| | | | Mean | Min | Max | CV% | N | | | Mean | N-Mean |
| D-Control | 20.500 | 1.0000 | 20.500 | 11.000 | 25.000 | 18.432 | 10 | | | 20.500 | 1.0000 |
| 0.25 | 19.500 | 0.9512 | 19.500 | 9.000 | 25.000 | 26.177 | 10 | 102.00 | 76.00 | 19.500 | 0.9512 |
| 0.5 | 19.500 | 0.9512 | 19.500 | 12.000 | 22.000 | 16.617 | 10 | 94.50 | 76.00 | 19.500 | 0.9512 |
| *1 | 14.000 | 0.6829 | 14.000 | 8.000 | 19.000 | 32.819 | 10 | 62.50 | 76.00 | 14.000 | 0.6829 |
| *2 | 3.200 | 0.1561 | 3.200 | 0.000 | 8.000 | 76.263 | 10 | 55.00 | 76.00 | 3.200 | 0.1561 |
| 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) | 0.91281 | 0.947 | -0.9793 |
| Bartlett's Test indicates equal variances (p = 0.25) | 5.39 | 13.2767 | 0.67912 |

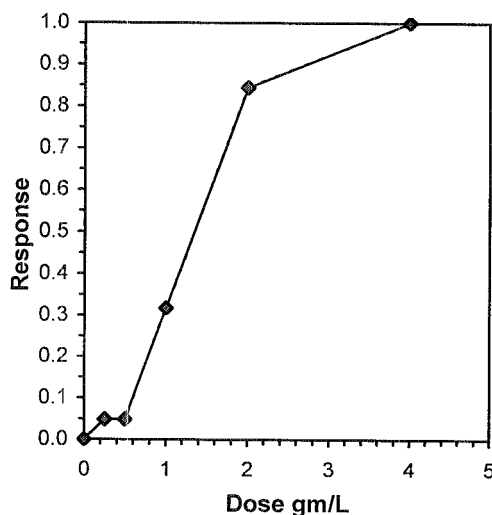
Hypothesis Test (1-tail, 0.05)

| NOEC | LOEC | ChV | TU |
|------|------|---------|----|
| 0.5 | 1 | 0.70711 | |

Steel's Many-One Rank Test
 Treatments vs D-Control

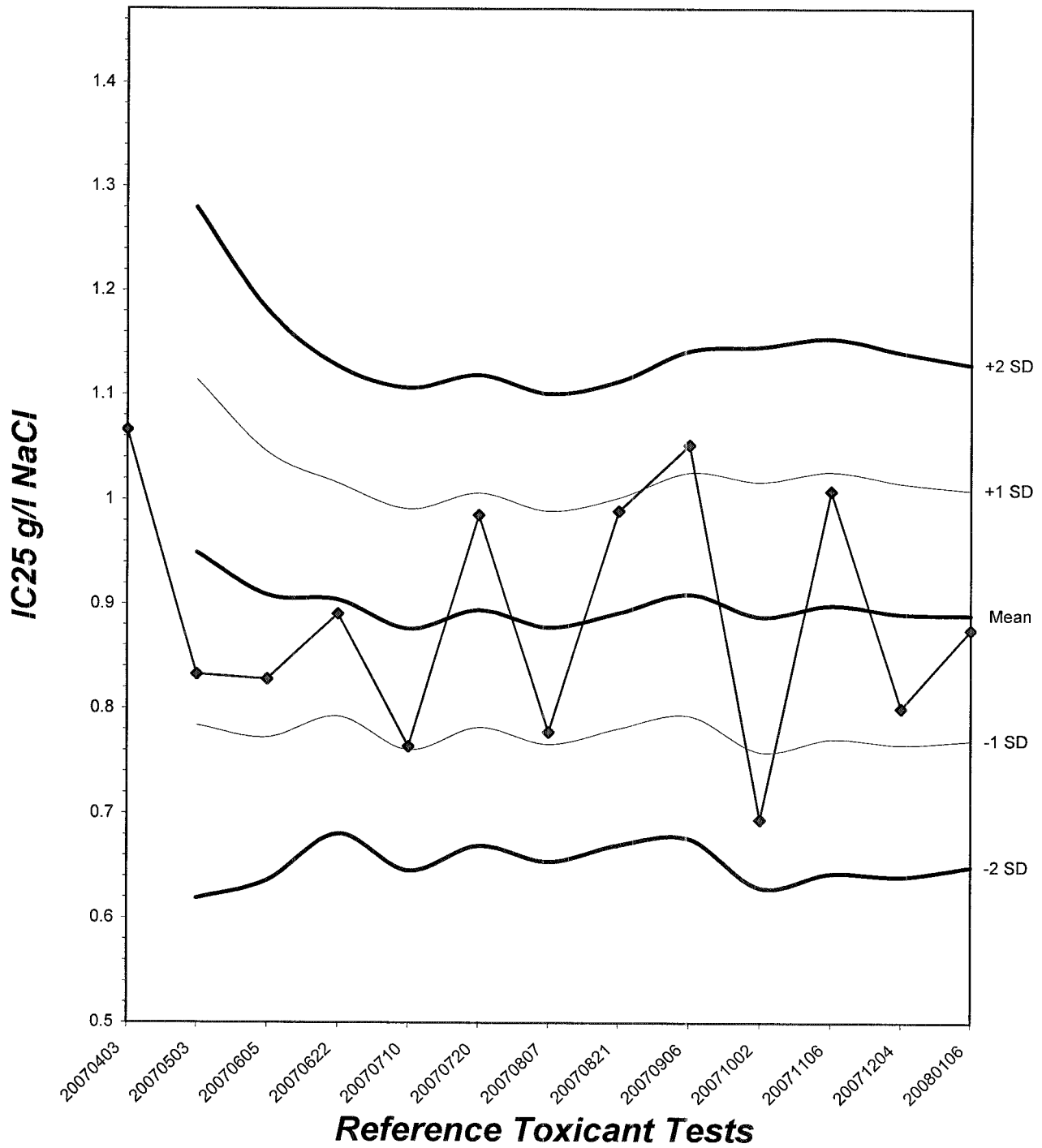
Linear Interpolation (200 Resamples)

| Point | gm/L | SD | 95% CL | Skew |
|-------|--------|--------|--------|--------|
| IC05 | 0.5023 | 0.1876 | 0.0809 | 0.6178 |
| IC10 | 0.5955 | 0.1768 | 0.1617 | 0.7497 |
| IC15 | 0.6886 | 0.1424 | 0.2426 | 0.9253 |
| IC20 | 0.7818 | 0.1259 | 0.4995 | 1.0352 |
| IC25 | 0.8750 | 0.1224 | 0.6413 | 1.1094 |
| IC40 | 1.1574 | 0.1139 | 0.9216 | 1.3331 |
| IC50 | 1.3472 | 0.0972 | 1.1197 | 1.4847 |



***Ceriodaphnia dubia* Chronic Reproduction Laboratory Control Chart**

CV% = 13.5



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-080106

Start Date: 01/06/2008

| 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 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 8 | 10 | |
| | 4 | 4 | 3 | 0 | 4 | 3 | 2 | 0 | 2 | 0 | 3 | 21 | 10 | |
| | 5 | 9 | 8 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 70 | 10 | |
| | 6 | 10 | 0 | 12 | 10 | 14 | 11 | 10 | 13 | 11 | 15 | 106 | 10 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 23 | 11 | 21 | 21 | 23 | 20 | 19 | 22 | 20 | 25 | 205 | 10 | |
| 0.25 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 3 | 0 | 11 | 10 | |
| | 4 | 4 | 0 | 2 | 0 | 3 | 6 | 4 | 2 | 0 | 3 | 24 | 10 | |
| | 5 | 8 | 8 | 7 | 5 | 6 | 0 | 7 | 6 | 7 | 8 | 62 | 10 | |
| | 6 | 0 | 13 | 10 | 14 | 0 | 12 | 10 | 13 | 12 | 14 | 98 | 10 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 12 | 24 | 19 | 22 | 9 | 20 | 21 | 21 | 22 | 25 | 195 | 10 | |
| 0.5 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 9 | 10 | |
| | 4 | 0 | 3 | 0 | 3 | 4 | 3 | 0 | 0 | 3 | 3 | 19 | 10 | |
| | 5 | 9 | 6 | 7 | 7 | 0 | 9 | 8 | 7 | 7 | 6 | 66 | 10 | |
| | 6 | 10 | 10 | 12 | 12 | 12 | 0 | 11 | 12 | 12 | 10 | 101 | 10 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 21 | 19 | 21 | 22 | 16 | 12 | 22 | 21 | 22 | 19 | 195 | 10 | |

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-080106

Start Date: 01/06/2008

| 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 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 5 | 10 | |
| | 4 | 3 | 2 | 2 | 3 | 0 | 0 | 3 | 2 | 0 | 2 | 17 | 10 | |
| | 5 | 5 | 7 | 7 | 4 | 5 | 7 | 5 | 4 | 7 | 6 | 57 | 10 | |
| | 6 | 11 | 0 | 0 | 12 | 9 | 0 | 8 | 11 | 10 | 0 | 61 | 10 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 19 | 9 | 9 | 19 | 14 | 10 | 16 | 17 | 19 | 8 | 140 | 10 | |
| 2.0 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | 0 | 0 | 9 | h | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 9 | | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 9 | | |
| | 4 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | - | 0 | 9 | | 9 |
| | 5 | 3 | 0 | 0 | 2 | 2 | 3 | 3 | 0 | - | 0 | 13 | | 9 |
| | 6 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 3 | - | X | 10 | | 8 |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | | - |
| | Total | 8 | 2 | 2 | 5 | 4 | 3 | 3 | 5 | 0 | 0 | 32 | | 8 |
| 4.0 g/l | 1 | X | X | X | X | X | X | X | X | X | 0 | 0 | h | |
| | 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.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-080106

Start Date: 01/06/2008

| | | 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] | | — — | |
| Time of Readings: | | 1300 | 1330 | 1330 | 1300 | 1300 | 1230 | 1230 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | — — |
| Control | DO | 7.6 | 7.2 | 7.4 | 7.7 | 7.4 | 7.6 | 7.4 | 7.5 | 8.2 | 7.8 | 7.9 | 7.7 | — | — |
| | pH | 7.6 | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 7.7 | 7.5 | 7.6 | 7.9 | 7.6 | — | — |
| | Temp | 24.3 | 25.1 | 25.4 | 24.8 | 24.1 | 24.9 | 24.9 | 25.1 | 24.4 | 25.0 | 24.6 | 25.1 | — | — |
| 0.25 g/l | DO | 7.5 | 7.3 | 7.5 | 7.5 | 7.5 | 7.7 | 7.3 | 7.4 | 8.2 | 7.8 | 7.9 | 7.7 | — | — |
| | pH | 7.6 | 7.3 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.4 | 7.6 | 7.5 | 7.6 | 7.7 | — | — |
| | Temp | 24.4 | 25.2 | 25.3 | 24.9 | 24.2 | 24.9 | 24.7 | 25.0 | 24.4 | 25.1 | 24.6 | 25.1 | — | — |
| 0.5 g/l | DO | 7.4 | 7.2 | 7.4 | 7.6 | 7.4 | 7.5 | 7.4 | 7.6 | 8.5 | 7.6 | 8.0 | 7.8 | — | — |
| | pH | 7.5 | 7.3 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.5 | 7.6 | 7.5 | 7.7 | 7.7 | — | — |
| | Temp | 24.3 | 25.1 | 25.3 | 24.9 | 24.1 | 25.2 | 24.6 | 24.9 | 24.4 | 24.9 | 24.4 | 24.9 | — | — |
| 1.0 g/l | DO | 7.5 | 7.2 | 7.6 | 7.7 | 7.3 | 7.8 | 7.4 | 7.4 | 8.4 | 7.8 | 7.7 | 7.7 | — | — |
| | pH | 7.5 | 7.3 | 7.6 | 7.5 | 7.4 | 7.2 | 7.3 | 7.5 | 7.6 | 7.6 | 7.5 | 7.6 | — | — |
| | Temp | 24.4 | 25.2 | 25.1 | 24.7 | 24.2 | 25.2 | 24.6 | 25.0 | 24.4 | 24.9 | 24.6 | 25.0 | — | — |
| 2.0 g/l | DO | 7.4 | 7.4 | 7.6 | 7.5 | 7.4 | 7.8 | 7.2 | 7.6 | 8.2 | 7.6 | 7.6 | 7.7 | — | — |
| | pH | 7.5 | 7.4 | 7.6 | 7.6 | 7.4 | 7.3 | 7.2 | 7.6 | 7.5 | 7.6 | 7.9 | 7.6 | — | — |
| | Temp | 24.5 | 25.1 | 25.0 | 24.6 | 24.2 | 25.3 | 24.8 | 25.2 | 24.4 | 24.8 | 24.6 | 25.1 | — | — |
| 4.0 g/l | DO | 7.5 | 7.8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | pH | 7.6 | 7.8 | — | — | — | — | — | — | — | — | — | — | — | — |
| | Temp | 24.3 | 24.6 | — | — | — | — | — | — | — | — | — | — | — | — |

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) | 350 | 348 | 305 | 6400 | 3100 |
| Alkalinity (mg/l CaCO ₃) | 66 | 65 | 63 | 65 | 66 | 64 |
| Hardness (mg/l CaCO ₃) | 98 | 97 | 98 | 98 | 97 | 98 |

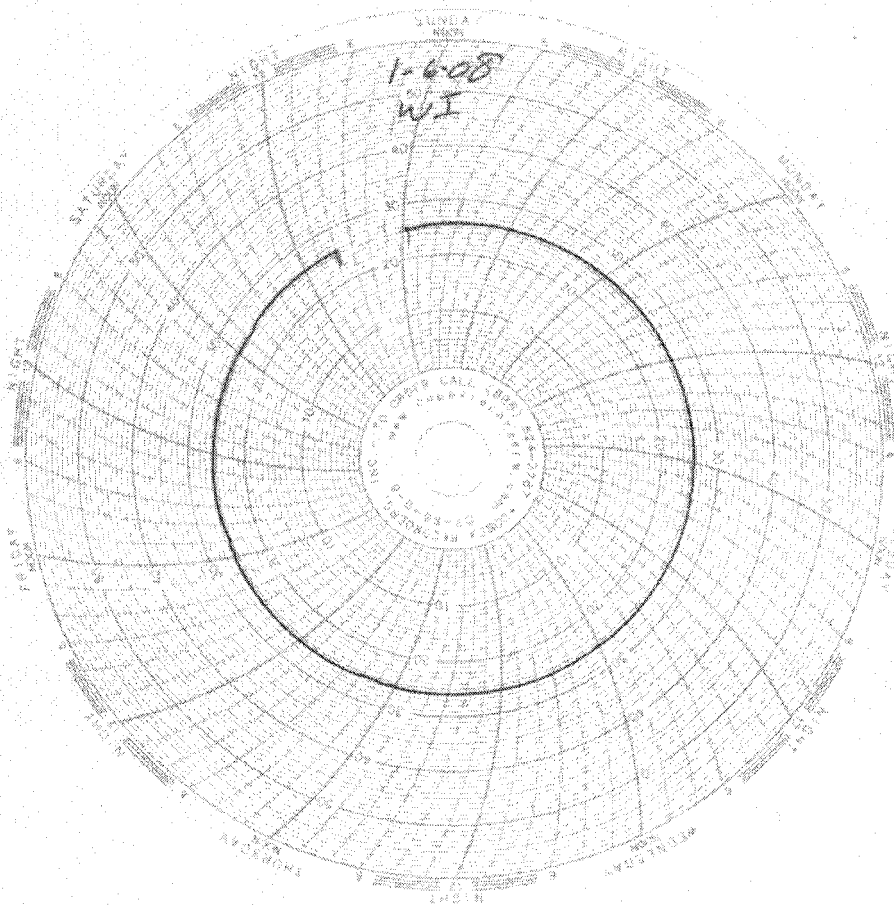
| Source of Neonates | | | | | | | | | | |
|--------------------|----|----|----|----|----|----|----|----|----|----|
| Replicate: | A | B | C | D | E | F | G | H | I | J |
| Brood ID: | 2B | 1B | 3C | 2C | 2A | 3D | 3E | 2F | 3F | 2G |

Laboratory Temperature Chart

QA/QC Batch No: RT-080106

Date Tested: 01/06/08 to 01/12/08

Acceptable Range: 25+/- 1°C





February 20, 2008

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

Reference: Test America Project Nos. IRA0393, IRA0398, IRA0399, IRA0400, IRA0906
Eberline Services NELAP Cert #01120CA
Eberline Services Reports R801023-8676, R801024-8677, R801025-8678
R801029-8679, R801048-8680

Dear Mr. Doak:

Enclosed are results from the analyses of five water samples. Four of the samples were received at Eberline Services on January 8, and one on January 12, 2008. The samples were analyzed according to the accompanying Test America Subcontract Order Forms, the requested analyses were: gross alpha/gross beta (EPA 900.0), tritium (H-3, EPA906.0), Sr-90 (EPA905.0), Ra-226 (EPA903.1), Ra-228 (EPA 904.0), total uranium (ASTM D-5174), and gamma spectroscopy (EPA901.1, K-40 and Cs-137). Batch quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spike analyses (gross alpha/gross beta, H-3, Ra-226, Total-U only). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

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

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Reports/CoC's
Invoices

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


NPDES - 1403

Eberline Services

ANALYSIS RESULTS

| | |
|--|--|
| SDG <u>8677</u> Work Order <u>R801024-01</u> Received Date <u>01/08/08</u> | Client <u>TA IRVINE</u> Contract <u>PROJECT# IRA0398</u> Matrix <u>WATER</u> |
|--|--|

| Client | Lab | | | | | | |
|------------------|------------------|------------------|-----------------|----------------|---------------------|--------------|------------|
| <u>Sample ID</u> | <u>Sample ID</u> | <u>Collected</u> | <u>Analyzed</u> | <u>Nuclide</u> | <u>Results ± 2σ</u> | <u>Units</u> | <u>MDA</u> |
| IRA0398-01 | 8677-001 | 01/05/08 | 01/21/08 | GrossAlpha | -0.498 ± 1.4 | pCi/L | 2.4 |
| | | | 01/21/08 | Gross Beta | 9.99 ± 1.2 | pCi/L | 1.6 |
| | | | 01/23/08 | Ra-228 | 0.018 ± 0.21 | pCi/L | 0.44 |
| | | | 01/12/08 | K-40 (G) | 22.0 ± 12 | pCi/L | 9.4 |
| | | | 01/12/08 | Cs-137 (G) | U | pCi/L | 0.89 |
| | | | 01/23/08 | H-3 | -63.3 ± 86 | pCi/L | 150 |
| | | | 01/25/08 | Ra-226 | 0.077 ± 0.38 | pCi/L | 0.76 |
| | | | 01/28/08 | Sr-90 | -0.087 ± 0.41 | pCi/L | 0.96 |
| | | | 02/15/08 | Total U | 0.301 ± 0.035 | pCi/L | 0.021 |

| |
|--|
| Certified by <u></u> Report Date <u>02/19/08</u> Page 1 |
|--|

Eberline Services

QC RESULTS

| | |
|--|--|
| SDG <u>8677</u> Work Order <u>R801024-01</u> Received Date <u>01/08/08</u> | Client <u>TA IRVINE</u> Contract <u>PROJECT# IRA0398</u> Matrix <u>WATER</u> |
|--|--|

| Lab | Sample ID | Nuclide | Results | Units | Amount Added | MDA | Evaluation |
|------------|-----------|------------|-------------|----------|--------------|-------|---------------|
| <u>LCS</u> | | | | | | | |
| | 8676-002 | GrossAlpha | 13.0 ± 0.93 | pCi/Smpl | 10.1 | 0.43 | 129% recovery |
| | | Gross Beta | 9.21 ± 0.38 | pCi/Smpl | 9.41 | 0.29 | 98% recovery |
| | | Ra-228 | 7.16 ± 0.54 | pCi/Smpl | 7.97 | 0.85 | 90% recovery |
| | | Co-60 (G) | 220 ± 17 | pCi/Smpl | 228 | 11 | 96% recovery |
| | | Cs-137 (G) | 256 ± 14 | pCi/Smpl | 236 | 9.8 | 108% recovery |
| | | H-3 | 189 ± 14 | pCi/Smpl | 203 | 15 | 93% recovery |
| | | Ra-226 | 4.87 ± 0.23 | pCi/Smpl | 4.46 | 0.083 | 109% recovery |
| | | Sr-90 | 8.90 ± 0.73 | pCi/Smpl | 9.40 | 0.33 | 95% recovery |
| | | Total U | 1.05 ± 0.12 | pCi/Smpl | 1.13 | 0.004 | 93% recovery |

| <u>BLANK</u> | | | | | | | |
|--------------|----------|------------|--------------------|----------|----|---------|------|
| | 8676-003 | GrossAlpha | 0.067 ± 0.16 | pCi/Smpl | NA | 0.27 | <MDA |
| | | Gross Beta | -0.079 ± 0.26 | pCi/Smpl | NA | 0.44 | <MDA |
| | | Ra-228 | -0.491 ± 0.26 | pCi/Smpl | NA | 0.79 | <MDA |
| | | K-40 (G) | U | pCi/Smpl | NA | 220 | <MDA |
| | | Cs-137 (G) | U | pCi/Smpl | NA | 8.0 | <MDA |
| | | H-3 | -1.49 ± 8.7 | pCi/Smpl | NA | 15 | <MDA |
| | | Ra-226 | -0.012 ± 0.035 | pCi/Smpl | NA | 0.083 | <MDA |
| | | Sr-90 | -0.030 ± 0.18 | pCi/Smpl | NA | 0.45 | <MDA |
| | | Total U | 0.00E 00 ± 1.8E-04 | pCi/Smpl | NA | 4.2E-04 | <MDA |

| <u>DUPLICATES</u> | | | | <u>ORIGINALS</u> | | | | | |
|-------------------|------------|---------------|-------|------------------|--------------|-------|-----|----------|--------|
| Sample ID | Nuclide | Results ± 2σ | MDA | Sample ID | Results ± 2σ | MDA | RPD | 3σ (Tot) | Eval |
| 8676-004 | GrossAlpha | -0.027 ± 1.1 | 1.9 | 8676-001 | 0.784 ± 2.0 | 2.8 | - | 0 | satis. |
| | Gross Beta | 62.4 ± 2.4 | 2.4 | | 62.4 ± 2.4 | 2.1 | 0 | 43 | satis. |
| | K-40 (G) | U | 32 | | 62.0 ± 8.4 | 5.3 | 64 | 108 | satis. |
| | Cs-137 (G) | U | 1.1 | | U | 0.54 | - | 0 | satis. |
| | H-3 | -71.6 ± 86 | 150 | | -15.1 ± 88 | 150 | - | 0 | satis. |
| | Ra-226 | -0.062 ± 0.36 | 0.71 | | 0.081 ± 0.44 | 0.81 | - | 0 | satis. |
| | Sr-90 | -0.067 ± 0.35 | 0.86 | | 0.063 ± 0.44 | 1.0 | - | 0 | satis. |
| | Total U | 2.58 ± 0.29 | 0.021 | | 2.58 ± 0.29 | 0.021 | 0 | 31 | satis. |
| 8677-002 | Ra-228 | 0.008 ± 0.15 | 0.41 | 8677-001 | 0.018 ± 0.21 | 0.44 | - | 0 | satis. |

Certified by _____

Report Date 02/19/08

Page 2


Eberline Services

| | |
|-------------------------------|----------------------------------|
| SDG <u>8677</u> | Client <u>TA IRVINE</u> |
| Work Order <u>R801024-01</u> | Contract <u>PROJECT# IRA0398</u> |
| Received Date <u>01/08/08</u> | Matrix <u>WATER</u> |

Eberline Services

| | |
|-------------------------------|----------------------------------|
| SDG <u>8677</u> | Client <u>TA IRVINE</u> |
| Work Order <u>R801024-01</u> | Contract <u>PROJECT# IRA0398</u> |
| Received Date <u>01/08/08</u> | Matrix <u>WATER</u> |

| | | | | | | | | |
|----------|------------|-------------|------|----------|--------------|-------|-------|-----|
| 8676-005 | GrossAlpha | 154 ± 8.1 | 2.8 | 8676-001 | 0.784 ± 2.0 | 2.8 | 115 | 133 |
| | Gross Beta | 161 ± 3.3 | 1.5 | | 62.4 ± 2.4 | 2.1 | 102 | 97 |
| | H-3 | 15700 ± 510 | 260 | | -15.1 ± 88 | 150 | 16100 | 98 |
| | Ra-226 | 116 ± 4.3 | 0.75 | | 0.081 ± 0.44 | 0.81 | 112 | 103 |
| | Total U | 111 ± 14 | 2.1 | | 2.58 ± 0.29 | 0.021 | 113 | 96 |

Certified by 
Report Date 02/19/08
Page 3


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:

Eberline Services - SUB
 2030 Wright Avenue
 Richmond, CA 94804
 Phone : (510) 235-2633
 Fax: (510) 235-0438
 Project Location: California
 Receipt Temperature: 4.0 °C Ice: (Y) / N

| Analysis | Units | Due | Expires | Comments |
|--|------------------|----------|----------------|---------------------------------------|
| Sample ID: IRA0398-01 Water Sampled: 01/05/08 10:45 pH=7.8, temp=53.60 | | | | |
| Gamma Spec-O | mg/kg | 01/16/08 | 01/04/09 10:45 | Out to Eberline, K-40 and CS-137 only |
| Gross Alpha-O | pCi/L | 01/16/08 | 07/03/08 10:45 | Out to Eberline |
| Gross Beta-O | pCi/L | 01/16/08 | 07/03/08 10:45 | Out to eberline |
| Level 4 Data Package - Out | N/A | 01/16/08 | 02/02/08 10:45 | |
| Radium, Combined-O | pCi/L | 01/16/08 | 01/04/09 10:45 | Out to Eberline |
| Strontium 90-O | pCi/L | 01/16/08 | 01/04/09 10:45 | Out to Eberline |
| Tritium-O | pCi/L | 01/16/08 | 01/04/09 10:45 | Out to Eberline |
| Uranium, Combined-O | pCi/L | 01/16/08 | 01/04/09 10:45 | Out to Eberline |
| <i>Containers Supplied:</i> | | | | |
| 2.5 gal Poly (K) | 500 mL Amber (L) | | | |


 Released By _____ Date/Time 1/7/08 1700

Feder
 Received By _____ Date/Time 1/7/08 1700

Released By _____ Date/Time _____

M. Gray
 Received By _____ Date/Time 01/08/08 09:30

January 23, 2008

Vista Project I.D.: 30121

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

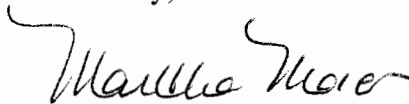
Dear Mr. Doak,

Enclosed are the results for the one aqueous samples received at Vista Analytical Laboratory on January 08, 2008 under your Project Name "IRA0398". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

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

Sincerely,



Martha M. Maier
Laboratory Director



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



Section I: Sample Inventory Report

Date Received: 1/8/2008

Vista Lab. ID

Client Sample ID

30121-001

IRA0398-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 9886 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 19-Jan-08 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 17-Jan-08 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.00000111 | | | IS 13C-2,3,7,8-TCDD | 85.7 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.00000171 | | | 13C-1,2,3,7,8-PeCDD | 76.8 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000174 | | | 13C-1,2,3,4,7,8-HxCDD | 75.3 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000184 | | | 13C-1,2,3,6,7,8-HxCDD | 75.1 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000172 | | | 13C-1,2,3,4,6,7,8-HpCDD | 87.8 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000243 | | | 13C-OCDD | 70.8 | 17 - 157 | | |
| OCDD | ND | 0.00000780 | | | 13C-2,3,7,8-TCDF | 83.6 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.00000116 | | | 13C-1,2,3,7,8-PeCDF | 72.8 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.00000159 | | | 13C-2,3,4,7,8-PeCDF | 75.3 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.00000156 | | | 13C-1,2,3,4,7,8-HxCDF | 72.9 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000815 | | | 13C-1,2,3,6,7,8-HxCDF | 73.2 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000832 | | | 13C-2,3,4,6,7,8-HxCDF | 76.3 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000894 | | | 13C-1,2,3,7,8,9-HxCDF | 79.4 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000120 | | | 13C-1,2,3,4,6,7,8-HpCDF | 88.5 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.000000977 | | | 13C-1,2,3,4,7,8,9-HpCDF | 86.1 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000133 | | | 13C-OCDF | 72.3 | 17 - 157 | | |
| OCDF | ND | 0.00000313 | | | CRS 37Cl-2,3,7,8-TCDD | 105 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.00000111 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000373 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000177 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000314 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.00000116 | | | | | | | |
| Total PeCDF | ND | 0.00000157 | | | | | | | |
| Total HxCDF | ND | 0.000000928 | | | | | | | |
| Total HpCDF | ND | 0.00000114 | | | | | | | |

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 08:41

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|-----------|
| Matrix: | Aqueous | QC Batch No.: | 9886 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 17-Jan-08 | Date Analyzed DB-5: | 19-Jan-08 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | Qualifier |
| 2,3,7,8-TCDD | 10.0 | 10.4 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 76.2 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 52.4 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 68.3 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 52.8 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 66.2 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 51.4 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 66.8 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 52.3 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 87.2 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 51.7 | 35 - 70 | 13C-OCDD | 70.1 | 17 - 157 | |
| OCDD | 100 | 103 | 78 - 144 | 13C-2,3,7,8-TCDF | 74.1 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 9.71 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 64.3 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 50.9 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 67.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 51.2 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 62.5 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 51.5 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 63.5 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 52.2 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 66.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 52.3 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 69.3 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 51.7 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 76.7 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 50.6 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 85.4 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 51.2 | 39 - 69 | 13C-OCDF | 71.9 | 17 - 157 | |
| OCDF | 100 | 104 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 84.4 | 35 - 197 | |

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 08:41

| Sample ID: IRA0398-01 | | | | | EPA Method 1613 | | | |
|-----------------------|-------------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine, CA | | Matrix: | Aqueous | Lab Sample: | 30121-001 | Date Received: | 8-Jan-08 |
| Project: | IRA0398 | | Sample Size: | 0.991 L | QC Batch No.: | 9886 | Date Extracted: | 17-Jan-08 |
| Date Collected: | 5-Jan-08 | | | | Date Analyzed DB-5: | 19-Jan-08 | Date Analyzed DB-225: | NA |
| Time Collected: | 1045 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000105 | | | IS 13C-2,3,7,8-TCDD | 80.8 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000452 | | | 13C-1,2,3,7,8-PeCDD | 75.1 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000245 | | | 13C-1,2,3,4,7,8-HxCDD | 73.4 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000253 | | | 13C-1,2,3,6,7,8-HxCDD | 71.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000239 | | | 13C-1,2,3,4,6,7,8-HpCDD | 83.4 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000627 | | | 13C-OCDD | 69.6 | 17 - 157 | |
| OCDD | 0.0000273 | | | J | 13C-2,3,7,8-TCDF | 81.2 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.000000833 | | | 13C-1,2,3,7,8-PeCDF | 70.2 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000169 | | | 13C-2,3,4,7,8-PeCDF | 72.8 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000156 | | | 13C-1,2,3,4,7,8-HxCDF | 70.7 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000631 | | | 13C-1,2,3,6,7,8-HxCDF | 71.4 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000635 | | | 13C-2,3,4,6,7,8-HxCDF | 72.6 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000687 | | | 13C-1,2,3,7,8,9-HxCDF | 79.0 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.000000930 | | | 13C-1,2,3,4,6,7,8-HpCDF | 83.2 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000131 | | | 13C-1,2,3,4,7,8,9-HpCDF | 76.5 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000189 | | | 13C-OCDF | 69.2 | 17 - 157 | |
| OCDF | ND | 0.00000323 | | | CRS 37Cl-2,3,7,8-TCDD | 90.9 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000105 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000146 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000245 | | | c. Method detection limit. | | | |
| Total HpCDD | ND | | 0.00000307 | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.000000833 | | | | | | |
| Total PeCDF | ND | 0.00000162 | | | | | | |
| Total HxCDF | ND | 0.000000717 | | | | | | |
| Total HpCDF | ND | 0.00000156 | | | | | | |

Analyst: MAS

Approved By: Martha M. Maier 23-Jan-2008 08:41

APPENDIX

DATA QUALIFIERS & ABBREVIATIONS

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

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

CERTIFICATIONS

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRA0398

30121

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

1.6°C


Ice: Y / N

| Analysis | Units | Due | Expires | Comments |
|-----------------------------|---------------|----------|-------------------------|--|
| Sample ID: IRA0398-01 | Water | | Sampled: 01/05/08 10:45 | ph=7.8, temp=53.60 |
| 1613-Dioxin-HR-Alta | ug/l | 01/16/08 | 01/12/08 10:45 | J flags, 17 congeners, no TEQ, ug/L, sub=Vista |
| <i>Containers Supplied:</i> | | | | |
| 1 L Amber (C) | 1 L Amber (D) | | | |

 1/7/08 1700
Released By _____ Date/Time _____

Released By _____ Date/Time _____

FedEx 1/7/08 1700
Received By _____ Date/Time _____

 1/8/08 1019
Received By _____ Date/Time _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 30121

TAT Standard

| | | | |
|-------------------------|---------------------------------|-------------------------|-----------------------------|
| Samples Arrival: | Date/Time <u>1/8/08 0909</u> | Initials: <u>UBB</u> | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>N/A</u> |
| Logged In: | Date/Time <u>1/8/08 1151</u> | Initials: <u>UBB</u> | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>C3</u> |
| Delivered By: | <u>FedEx</u> | UPS | Cal |
| | | DHL | Hand Delivered |
| | | | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice |
| | | | None |
| Temp °C | <u>1.6°C</u> | Time: | <u>0929</u> |
| | | | Thermometer ID: IR-1 |

| | YES | NO | NA |
|--|-----------------------|---------------|------------------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | | | |
| Trk # | <u>7926 2674 3476</u> | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | COC | Sample Container |
| | | <u>Client</u> | <u>None</u> |
| Shipping Container | Vista | Retain | Dispose |
| | | <u>Return</u> | |

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine

IRA0398

8010769


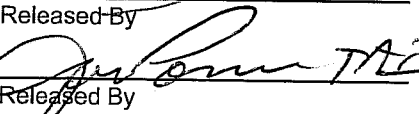
SENDING LABORATORY:


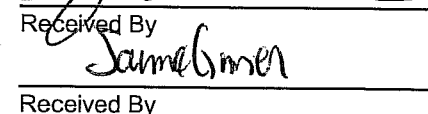
TestAmerica Irvine
17461 Derian Avenue, Suite 100
Irvine, CA 92614
Phone: (949) 261-1022
Fax: (949) 260-3297
Project Manager: Joseph Doak

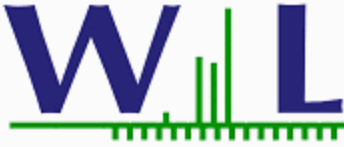
RECEIVING LABORATORY:

Weck Laboratories, Inc-SUB
14859 E. Clark Avenue
City of Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634
Project Location: California
Receipt Temperature: 31 °C Ice: D / N

| Analysis | Units | Due | Expires | Comments |
|-----------------------------|-----------------|----------|----------------|--|
| Sample ID: IRA0398-01 | Water | | | Sampled: 01/05/08 10:45 ph=7.8, temp=53.60 |
| Level 4 + EDD-OUT | N/A | 01/16/08 | 02/02/08 10:45 | Sub to Weck, transfer file EDD |
| Level 4 Data Package - Weck | N/A | 01/16/08 | 02/02/08 10:45 | Out to Weck |
| Mercury - 245.1, Diss -OUT | mg/l | 01/16/08 | 02/02/08 10:45 | Weck, Boeing, J flags |
| Mercury - 245.1-OUT | mg/l | 01/16/08 | 02/02/08 10:45 | Weck, Boeing, permit, J flags, if result>ND, call TA |
| <i>Containers Supplied:</i> | | | | |
| 125 mL Poly w/HNO3 | 125 mL Poly (O) | | | |
| (N) | | | | |


 Released By _____ Date/Time 1/7/08 0900

 Released By _____ Date/Time 1/7/08 1420


 Received By _____ Date/Time 1/7/08 0900

 Received By _____ Date/Time 1/7/08 1420



CERTIFICATE OF ANALYSIS

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

Phone: (949) 261-1022

Fax: (949) 260-3297

Report Date: 01/10/08 08:44

Received Date: 01/07/08 14:20

Turn Around: 7 days

Work Order #: 8010769

Client Project: IRA0398

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

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

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 01/07/08 14:20 with the Chain of Custody document. The samples were received in good condition. The samples were received at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager





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

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

Report ID: 8010769
Project ID: IRA0398

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:44

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Sample Comments | Laboratory | Matrix | Date Sampled |
|------------|-------------|-----------------|------------|--------|----------------|
| IRA0398-01 | Client | | 8010769-01 | Water | 01/05/08 10:45 |



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

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

Report ID: 8010769
Project ID: IRA0398

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:44

IRA0398-01 8010769-01 (Water)

Date Sampled: 01/05/08 10:45

Metals by EPA 200 Series Methods

| Analyte | Result | MDL | Units | Reporting Limit | Dilution Factor | Method | Batch Number | Date Prepared | Date Analyzed | Data Qualifiers |
|--------------------|--------|-------|-------|-----------------|-----------------|-----------|--------------|---------------|---------------|-----------------|
| Mercury, Dissolved | ND | 0.050 | ug/l | 0.20 | 1 | EPA 245.1 | W8A0148 | 01/08/08 | 01/09/08 | jlp |
| Mercury, Total | ND | 0.050 | ug/l | 0.20 | 1 | EPA 245.1 | W8A0148 | 01/08/08 | 01/09/08 | jlp |



Weck Laboratories, Inc.
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Irvine CA, 92614

Report ID: 8010769
Project ID: IRA0398

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:44

QUALITY CONTROL SECTION



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

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

Report ID: 8010769
 Project ID: IRA0398

Date Received: 01/07/08 14:20
 Date Reported: 01/10/08 08:44

Metals by EPA 200 Series Methods - Quality Control

%REC

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

Batch W8A0148 - EPA 245.1

Blank (W8A0148-BLK1)

Analyzed: 01/09/08

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

LCS (W8A0148-BS1)

Analyzed: 01/09/08

| | | | | | | | | | | |
|--------------------|-------|------|------|------|--|----|--------|--|--|--|
| Mercury, Dissolved | 0.965 | 0.20 | ug/l | 1.00 | | 96 | 85-115 | | | |
| Mercury, Total | 0.965 | 0.20 | ug/l | 1.00 | | 96 | 85-115 | | | |

Matrix Spike (W8A0148-MS1)

Source: 7120722-01

Analyzed: 01/09/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|----|----|--------|--|--|--|
| Mercury, Dissolved | 1.97 | 0.40 | ug/l | 2.00 | ND | 98 | 70-130 | | | |
| Mercury, Total | 1.97 | 0.40 | ug/l | 2.00 | ND | 98 | 70-130 | | | |

Matrix Spike (W8A0148-MS2)

Source: 7120722-03

Analyzed: 01/09/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|----|----|--------|--|--|--|
| Mercury, Dissolved | 1.88 | 0.40 | ug/l | 2.00 | ND | 94 | 70-130 | | | |
| Mercury, Total | 1.88 | 0.40 | ug/l | 2.00 | ND | 94 | 70-130 | | | |

Matrix Spike Dup (W8A0148-MSD1)

Source: 7120722-01

Analyzed: 01/09/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|----|----|--------|---|----|--|
| Mercury, Dissolved | 1.92 | 0.40 | ug/l | 2.00 | ND | 96 | 70-130 | 2 | 20 | |
| Mercury, Total | 1.92 | 0.40 | ug/l | 2.00 | ND | 96 | 70-130 | 2 | 20 | |

Matrix Spike Dup (W8A0148-MSD2)

Source: 7120722-03

Analyzed: 01/09/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|----|----|--------|---|----|--|
| Mercury, Dissolved | 1.96 | 0.40 | ug/l | 2.00 | ND | 98 | 70-130 | 4 | 20 | |
| Mercury, Total | 1.96 | 0.40 | ug/l | 2.00 | ND | 98 | 70-130 | 4 | 20 | |



Weck Laboratories, Inc.
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Industry, CA 91745
Phone 626.336.2139 Fax 626.336.2634

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

Report ID: 8010769
Project ID: IRA0398

Date Received: 01/07/08 14:20
Date Reported: 01/10/08 08:44

Notes and Definitions

| | |
|-------|---|
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |

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

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

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

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

APPENDIX G

Section 34

Outfall 006 – BMP Effectiveness, January 4-5, 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: 01/04/08-01/05/08

Received: 01/07/08

Issued: 01/16/08 13:40

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 4 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

| LABORATORY ID | CLIENT ID | MATRIX |
|---------------|------------|--------|
| IRA0414-01 | 006 EFF-1 | Water |
| IRA0414-02 | 006 EFF-2 | Water |
| IRA0414-03 | 006 EFF-3 | Water |
| IRA0414-04 | 006 EFF-4 | Water |
| IRA0414-05 | 006 EFF-5 | Water |
| IRA0414-06 | 006 EFF-6 | Water |
| IRA0414-07 | 006 EFF-7 | Water |
| IRA0414-08 | 006 EFF-8 | Water |
| IRA0414-09 | 006 EFF-9 | Water |
| IRA0414-10 | 006 EFF-10 | Water |
| IRA0414-11 | 006 EFF-11 | Water |
| IRA0414-12 | 006 EFF-12 | Water |
| IRA0414-13 | 006 INF-1 | Water |
| IRA0414-14 | 006 INF-2 | Water |
| IRA0414-15 | 006 INF-3 | Water |
| IRA0414-16 | 006 INF-4 | Water |
| IRA0414-17 | 010 EFF-1 | Water |
| IRA0414-18 | 010 EFF-2 | Water |
| IRA0414-19 | 010 EFF-3 | Water |
| IRA0414-20 | 010 EFF-4 | Water |
| IRA0414-21 | 010 EFF-5 | Water |
| IRA0414-22 | 010 EFF-6 | Water |
| IRA0414-23 | 010 EFF-7 | Water |

TestAmerica Irvine

Joseph Doak
Project Manager

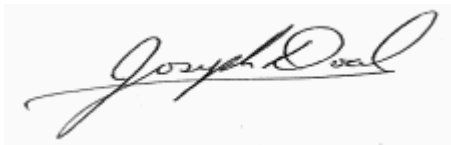
MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

| LABORATORY ID | CLIENT ID | MATRIX |
|---------------|------------|--------|
| IRA0414-24 | 010 EFF-8 | Water |
| IRA0414-25 | 010 EFF-9 | Water |
| IRA0414-26 | 010 EFF-10 | Water |
| IRA0414-27 | 010 EFF-11 | Water |
| IRA0414-28 | 010 EFF-12 | Water |
| IRA0414-29 | 010 EFF-13 | Water |
| IRA0414-30 | 010 EFF-14 | Water |
| IRA0414-31 | 010 EFF-15 | Water |
| IRA0414-32 | 010 EFF-16 | Water |
| IRA0414-33 | 010 EFF-17 | Water |
| IRA0414-34 | 010 INF-1 | Water |
| IRA0414-35 | 010 INF-2 | Water |
| IRA0414-36 | 010 INF-3 | Water |
| IRA0414-37 | 010 INF-4 | Water |
| IRA0414-38 | 010 INF-5 | Water |
| IRA0414-39 | 010 INF-6 | Water |
| IRA0414-40 | 010 INF-7 | Water |
| IRA0414-41 | 010 INF-8 | Water |
| IRA0414-42 | 010 INF-9 | Water |
| IRA0414-43 | 010 INF-10 | Water |
| IRA0414-44 | 010 INF-11 | Water |
| IRA0414-45 | 010 INF-12 | Water |
| IRA0414-46 | 010 INF-13 | Water |
| IRA0414-47 | 010 INF-14 | Water |

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

IRA0414 <Page 2 of 16>
NPDES - 1428

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-01 (006 EFF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-01 (006 EFF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 48 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 48 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-02 (006 EFF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-02 (006 EFF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 42 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 42 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-03 (006 EFF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-03 (006 EFF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 42 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 42 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-04 (006 EFF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-04 (006 EFF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 29 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 29 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-05 (006 EFF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-05 (006 EFF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 30 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 30 | 1 | 1/7/2008 | 1/7/2008 | |

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: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-06 (006 EFF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-06 (006 EFF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 18 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 18 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-07 (006 EFF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-07 (006 EFF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 20 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 20 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-08 (006 EFF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-08 (006 EFF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 11 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 11 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-09 (006 EFF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-09 (006 EFF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 11 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07105 | 10 | 11 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-10 (006 EFF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-10 (006 EFF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 20 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 20 | 1 | 1/7/2008 | 1/7/2008 | |

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: IRA0414

Sampled: 01/04/08-01/05/08
 Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-11 (006 EFF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-11 (006 EFF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 38 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 38 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-12 (006 EFF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-12 (006 EFF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 29 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 29 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-13 (006 INF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-13 (006 INF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 120 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 120 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-14 (006 INF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-14 (006 INF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 110 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 110 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-15 (006 INF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-15 (006 INF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 73 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 73 | 1 | 1/7/2008 | 1/7/2008 | |

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: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-16 (006 INF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-16 (006 INF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 72 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 72 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-17 (010 EFF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-17 (010 EFF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 66 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 66 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-18 (010 EFF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-18 (010 EFF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 39 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 39 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-19 (010 EFF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-19 (010 EFF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 44 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 44 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-20 (010 EFF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08079 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-20 (010 EFF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16083 | 10 | 22 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 22 | 1 | 1/7/2008 | 1/7/2008 | |

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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: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-21 (010 EFF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-21 (010 EFF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 22 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 22 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-22 (010 EFF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-22 (010 EFF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 12 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 12 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-23 (010 EFF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-23 (010 EFF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 10 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A07106 | 10 | 10 | 1 | 1/7/2008 | 1/7/2008 | |
| Sample ID: IRA0414-24 (010 EFF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-24 (010 EFF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 10 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 10 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-25 (010 EFF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-25 (010 EFF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |

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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: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-26 (010 EFF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-26 (010 EFF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-27 (010 EFF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-27 (010 EFF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-28 (010 EFF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 0.99 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-28 (010 EFF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-29 (010 EFF-13 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-29 (010 EFF-13 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-30 (010 EFF-14 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-30 (010 EFF-14 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |

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Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-31 (010 EFF-15 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-31 (010 EFF-15 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-32 (010 EFF-16 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-32 (010 EFF-16 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-33 (010 EFF-17 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-33 (010 EFF-17 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | ND | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | ND | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-34 (010 INF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-34 (010 INF-1 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 170 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 170 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-35 (010 INF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-35 (010 INF-2 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 150 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 160 | 1 | 1/8/2008 | 1/8/2008 | |

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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: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-36 (010 INF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-36 (010 INF-3 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 270 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 270 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-37 (010 INF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-37 (010 INF-4 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 260 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 260 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-38 (010 INF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-38 (010 INF-5 - Water) | | | | Sampled: 01/04/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 510 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 510 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-39 (010 INF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-39 (010 INF-6 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 310 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 310 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-40 (010 INF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08080 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-40 (010 INF-7 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16085 | 10 | 280 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08116 | 10 | 280 | 1 | 1/8/2008 | 1/8/2008 | |

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-41 (010 INF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-41 (010 INF-8 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 140 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 140 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-42 (010 INF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-42 (010 INF-9 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 86 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 86 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-43 (010 INF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-43 (010 INF-10 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 71 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 71 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-44 (010 INF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-44 (010 INF-11 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 64 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 64 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-45 (010 INF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-45 (010 INF-12 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 56 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 56 | 1 | 1/8/2008 | 1/8/2008 | |

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

Project ID: BMP Effectiveness
 Monitoring Program
 Report Number: IRA0414

Sampled: 01/04/08-01/05/08
 Received: 01/07/08

INORGANICS

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------------|---------|-----------------|--------------------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA0414-46 (010 INF-13 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-46 (010 INF-13 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 53 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 53 | 1 | 1/8/2008 | 1/8/2008 | |
| Sample ID: IRA0414-47 (010 INF-14 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: g/cc | | | | | | | | |
| Density | Displacement | 8A08081 | NA | 1.0 | 1 | 1/8/2008 | 1/10/2008 | |
| Sample ID: IRA0414-47 (010 INF-14 - Water) | | | | Sampled: 01/05/08 | | | | |
| Reporting Units: mg/l | | | | | | | | |
| Sediment | ASTM D3977 | 8A16086 | 10 | 58 | 1 | 1/16/2008 | 1/16/2008 | |
| Total Suspended Solids | EPA 160.2 | 8A08117 | 10 | 58 | 1 | 1/8/2008 | 1/8/2008 | |

TestAmerica Irvine

Joseph Doak
 Project Manager

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

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

Project ID: BMP Effectiveness
 Monitoring Program
 Report Number: IRA0414

Sampled: 01/04/08-01/05/08
 Received: 01/07/08

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------------|----------------------------|-----------|--------|-----|-----------|-----------------|
| Batch: 8A07105 Extracted: 01/07/08 | | | | | | | | | | |
| Blank Analyzed: 01/07/2008 (8A07105-BLK1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/07/2008 (8A07105-BS1) | | | | | | | | | | |
| Total Suspended Solids | 965 | 10 | mg/l | 1000 | | 96 | 85-115 | | | |
| Duplicate Analyzed: 01/07/2008 (8A07105-DUP1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | Source: IRA0401-01 ND | | | | 10 | |
| Batch: 8A07106 Extracted: 01/07/08 | | | | | | | | | | |
| Blank Analyzed: 01/07/2008 (8A07106-BLK1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/07/2008 (8A07106-BS1) | | | | | | | | | | |
| Total Suspended Solids | 973 | 10 | mg/l | 1000 | | 97 | 85-115 | | | |
| Duplicate Analyzed: 01/07/2008 (8A07106-DUP1) | | | | | | | | | | |
| Total Suspended Solids | 11.0 | 10 | mg/l | | Source: IRA0414-23 10.0 | | | 10 | 10 | |
| Batch: 8A08079 Extracted: 01/08/08 | | | | | | | | | | |
| Duplicate Analyzed: 01/10/2008 (8A08079-DUP1) | | | | | | | | | | |
| Density | 1.00 | NA | g/cc | | Source: IRA0414-01 1.00 | | | 0 | 20 | |
| Batch: 8A08080 Extracted: 01/08/08 | | | | | | | | | | |
| Duplicate Analyzed: 01/10/2008 (8A08080-DUP1) | | | | | | | | | | |
| Density | 1.00 | NA | g/cc | | Source: IRA0414-21 1.00 | | | 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: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

METHOD BLANK/QC DATA

INORGANICS

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| Batch: 8A08081 Extracted: 01/08/08 | | | | | | | | | | |
| Duplicate Analyzed: 01/10/2008 (8A08081-DUP1) | | | | | | | | | | |
| Density | 1.00 | NA | g/cc | | 1.00 | | | 0 | 20 | |
| Source: IRA0414-41 | | | | | | | | | | |
| Batch: 8A08116 Extracted: 01/08/08 | | | | | | | | | | |
| Blank Analyzed: 01/08/2008 (8A08116-BLK1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/08/2008 (8A08116-BS1) | | | | | | | | | | |
| Total Suspended Solids | 991 | 10 | mg/l | 1000 | | 99 | 85-115 | | | |
| Duplicate Analyzed: 01/08/2008 (8A08116-DUP1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | ND | | | | 10 | |
| Source: IRA0414-30 | | | | | | | | | | |
| Batch: 8A08117 Extracted: 01/08/08 | | | | | | | | | | |
| Blank Analyzed: 01/08/2008 (8A08117-BLK1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/08/2008 (8A08117-BS1) | | | | | | | | | | |
| Total Suspended Solids | 993 | 10 | mg/l | 1000 | | 99 | 85-115 | | | |
| Duplicate Analyzed: 01/08/2008 (8A08117-DUP1) | | | | | | | | | | |
| Total Suspended Solids | ND | 10 | mg/l | | ND | | | | 10 | |
| Source: IRA0446-01 | | | | | | | | | | |

TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

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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IRA0414 <Page 15 of 16>
NPDES - 1441

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

Project ID: BMP Effectiveness
Monitoring Program
Report Number: IRA0414

Sampled: 01/04/08-01/05/08
Received: 01/07/08

Certification Summary

TestAmerica Irvine

| Method | Matrix | Nelac | California |
|--------------|--------|-------|------------|
| ASTM D3977 | Water | | |
| Displacement | Water | | |
| EPA 160.2 | 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

TestAmerica Irvine

Joseph Doak
Project Manager

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IR 00414

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

| Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 | | Project: Boeing BMP Effectiveness Monitoring Program | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | ANALYSIS REQUIRED | | Field readings: Temp = <u>N/A</u> pH = <u>N/A</u> Time of readings = <u>N/A</u> 1.0 x 1430.58 Comments | |
|--|---------------|--|------------|--|--------------|-------------------------------------|------------|---|--|
| Test America Contact: Joseph Doak Project Manager: Bronwyn Kelly Sampler: <u>J. MANASO</u> | | Suspended Sediment Concentration (SSC, ASTM- D3977-1997) | | Received By <u>Quinn Crowe</u> | | Date/Time: <u>01/06/08 12:10</u> | | Turn around Time: (check) 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal <input checked="" type="checkbox"/> | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Date/Time: | | |
| 006 EFF-1 | W | 500 mL Poly | 1 | 1/4/08 - 1940 | None | 1 | Date/Time: | | |
| 006 EFF-2 | W | 500 mL Poly | 1 | 1/4/08 - 2040 | None | 2 | Date/Time: | | |
| 006 EFF-3 | W | 500 mL Poly | 1 | 1/4/08 - 2140 | None | 3 | Date/Time: | | |
| 006 EFF-4 | W | 500 mL Poly | 1 | 1/4/08 - 2240 | None | 4 | Date/Time: | | |
| 006 EFF-5 | W | 500 mL Poly | 1 | 1/4/08 - 2340 | None | 5 | Date/Time: | | |
| 006 EFF-6 | W | 500 mL Poly | 1 | 1/5/08 - 0040 | None | 6 | Date/Time: | | |
| 006 EFF-7 | W | 500 mL Poly | 1 | 1/5/08 - 0140 | None | 7 | Date/Time: | | |
| 006 EFF-8 | W | 500 mL Poly | 1 | 1/5/08 - 0240 | None | 8 | Date/Time: | | |
| 006 EFF-9 | W | 500 mL Poly | 1 | 1/5/08 - 0340 | None | 9 | Date/Time: | | |
| 006 EFF-10 | W | 500 mL Poly | 1 | 1/5/08 - 0440 | None | 10 | Date/Time: | | |
| 006 EFF-11 | W | 500 mL Poly | 1 | 1/5/08 - 0540 | None | 11 | Date/Time: | | |
| 006 EFF-12 | W | 500 mL Poly | 1 | 1/5/08 - 0640 | None | 12 | Date/Time: | | |
| 006 EFF-13 | W | 500 mL Poly | 1 | | None | 13 | Date/Time: | | |
| 006 EFF-14 | W | 500 mL Poly | 1 | | None | 14 | Date/Time: | | |
| 006 EFF-15 | W | 500 mL Poly | 1 | | None | 15 | Date/Time: | | |
| 006 EFF-16 | W | 500 mL Poly | 1 | | None | 16 | Date/Time: | | |
| 006 EFF-17 | W | 500 mL Poly | 1 | | None | 17 | Date/Time: | | |
| 006 EFF-18 | W | 500 mL Poly | 1 | | None | 18 | Date/Time: | | |
| 006 EFF-19 | W | 500 mL Poly | 1 | | None | 19 | Date/Time: | | |
| 006 EFF-20 | W | 500 mL Poly | 1 | | None | 20 | Date/Time: | | |
| 006 EFF-21 | W | 500 mL Poly | 1 | | None | 21 | Date/Time: | | |
| 006 EFF-22 | W | 500 mL Poly | 1 | | None | 22 | Date/Time: | | |
| 006 EFF-23 | W | 500 mL Poly | 1 | | None | 23 | Date/Time: | | |
| 006 EFF-24 | W | 500 mL Poly | 1 | | None | 24 | Date/Time: | | |
| Relinquished By | 1-6-08 | | Date/Time: | 2:10 | | Date/Time: | | Date/Time: | |
| Relinquished By | TO HO LDRIDGE | | Date/Time: | TAT | | Date/Time: | | Date/Time: | |
| Relinquished By | Quinn Crowe | | Date/Time: | 01/06/08 1430 | | Date/Time: | | Date/Time: | |
| Relinquished By | Robyn Juarez | | Date/Time: | 1/07/08 0600 | | Date/Time: | | Date/Time: | |

CHAIN OF CUSTODY FORM

ANALYSIS REQUIRED

Field readings:
Temp = N/A
pH = N/A
Time of readings = N/A

Comments

Project: Boeing BMP Effectiveness Monitoring Program

Client Name/Address:
MWH-Arcadia
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007

Test America Contact: Joseph Doak
Project Manager: Bronwyn Kelly
R. SANCOS
Sampler: J. MANIS, A.C.

Phone Number: (626) 568-6691
Fax Number: (626) 568-6515

Sample Description Matrix

| Sample Description | Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Turn around Time (check) | Sample Integrity (check) |
|--------------------|--------|----------------|------------|--------------------|--------------|----------|--------------------------|--------------------------|
| 006 INF-1 | W | 500 mL Poly | 1 | 1/4/08 - 1910 | None | 1 | 24 Hours | Intact |
| 006 INF-2 | W | 500 mL Poly | 1 | 1/4/08 - 2010 | None | 2 | 48 Hours | Normal |
| 006 INF-3 | W | 500 mL Poly | 1 | 1/4/08 - 2110 | None | 3 | 72 Hours | Normal |
| 006 INF-4 | W | 500 mL Poly | 1 | 1/4/08 - 2210 | None | 4 | 24 Hours | Intact |
| 006 INF-5 | W | 500 mL Poly | 1 | | None | 5 | 48 Hours | Normal |
| 006 INF-6 | W | 500 mL Poly | 1 | | None | 6 | 72 Hours | Normal |
| 006 INF-7 | W | 500 mL Poly | 1 | | None | 7 | 24 Hours | Intact |
| 006 INF-8 | W | 500 mL Poly | 1 | | None | 8 | 48 Hours | Normal |
| 006 INF-9 | W | 500 mL Poly | 1 | | None | 9 | 72 Hours | Normal |
| 006 INF-10 | W | 500 mL Poly | 1 | | None | 10 | 24 Hours | Intact |
| 006 INF-11 | W | 500 mL Poly | 1 | | None | 11 | 48 Hours | Normal |
| 006 INF-12 | W | 500 mL Poly | 1 | | None | 12 | 72 Hours | Normal |
| 006 INF-13 | W | 500 mL Poly | 1 | | None | 13 | 24 Hours | Intact |
| 006 INF-14 | W | 500 mL Poly | 1 | | None | 14 | 48 Hours | Normal |
| 006 INF-15 | W | 500 mL Poly | 1 | | None | 15 | 72 Hours | Normal |
| 006 INF-16 | W | 500 mL Poly | 1 | | None | 16 | 24 Hours | Intact |
| 006 INF-17 | W | 500 mL Poly | 1 | | None | 17 | 48 Hours | Normal |
| 006 INF-18 | W | 500 mL Poly | 1 | | None | 18 | 72 Hours | Normal |
| 006 INF-19 | W | 500 mL Poly | 1 | | None | 19 | 24 Hours | Intact |
| 006 INF-20 | W | 500 mL Poly | 1 | | None | 20 | 48 Hours | Normal |
| 006 INF-21 | W | 500 mL Poly | 1 | | None | 21 | 72 Hours | Normal |
| 006 INF-22 | W | 500 mL Poly | 1 | | None | 22 | 24 Hours | Intact |
| 006 INF-23 | W | 500 mL Poly | 1 | | None | 23 | 48 Hours | Normal |
| 006 INF-24 | W | 500 mL Poly | 1 | | None | 24 | 72 Hours | Normal |

Relinquished By: [Signature] Date/Time: 1-6-08 12:12

Received By: [Signature] Date/Time: 01/06/08 14:30

Relinquished By: [Signature] Date/Time: 12:12

Received By: [Signature] Date/Time: 12:10

Relinquished By: [Signature] Date/Time: 01/06/08 14:30

Received By: [Signature] Date/Time: 12:10

Relinquished By: [Signature] Date/Time: 01/06/08 14:30

Received By: [Signature] Date/Time: 12:10

Relinquished By: [Signature] Date/Time: 01/06/08 14:30

Received By: [Signature] Date/Time: 12:10

Relinquished By: [Signature] Date/Time: 01/06/08 14:30

Received By: [Signature] Date/Time: 12:10

Relinquished By: [Signature] Date/Time: 01/06/08 14:30

Received By: [Signature] Date/Time: 12:10

| | | | | | | | |
|--|-----------------------|--|----------------------|---|---------------------|---|-----------------------|
| Client Name/Address: MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007 | | Project: Boeing BMP Effectiveness Monitoring Program | | ANALYSIS REQUIRED | | Field readings: Temp = <i>N/A</i> pH = <i>N/A</i> Time of readings = <i>NH</i> | |
| Test America Contact: Joseph Doak | | Phone Number: (626) 568-6691 Fax Number: (626) 568-6515 | | Suspended Sediment Concentration (SSC, ASTM-D3977-1997) | | Comments | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | |
| 010 EFF-1 | W | 500 mL Poly | 1 | 1/4/08 - 1945 | None | 1 | |
| 010 EFF-2 | W | 500 mL Poly | 1 | 1/4/08 - 2045 | None | 2 | |
| 010 EFF-3 | W | 500 mL Poly | 1 | 1/4/08 - 2145 | None | 3 | |
| 010 EFF-4 | W | 500 mL Poly | 1 | 1/4/08 - 2245 | None | 4 | |
| 010 EFF-5 | W | 500 mL Poly | 1 | 1/4/08 - 2345 | None | 5 | |
| 010 EFF-6 | W | 500 mL Poly | 1 | 1/5/08 - 0045 | None | 6 | |
| 010 EFF-7 | W | 500 mL Poly | 1 | 1/5/08 - 0145 | None | 7 | |
| 010 EFF-8 | W | 500 mL Poly | 1 | 1/5/08 - 0245 | None | 8 | |
| 010 EFF-9 | W | 500 mL Poly | 1 | 1/5/08 - 0345 | None | 9 | |
| 010 EFF-10 | W | 500 mL Poly | 1 | 1/5/08 - 0445 | None | 10 | |
| 010 EFF-11 | W | 500 mL Poly | 1 | 1/5/08 - 0545 | None | 11 | |
| 010 EFF-12 | W | 500 mL Poly | 1 | 1/5/08 - 0645 | None | 12 | |
| 010 EFF-13 | W | 500 mL Poly | 1 | 1/5/08 - 0745 | None | 13 | |
| 010 EFF-14 | W | 500 mL Poly | 1 | 1/5/08 - 0845 | None | 14 | |
| 010 EFF-15 | W | 500 mL Poly | 1 | 1/5/08 - 0945 | None | 15 | |
| 010 EFF-16 | W | 500 mL Poly | 1 | 1/5/08 - 1045 | None | 16 | |
| 010 EFF-17 | W | 500 mL Poly | 1 | 1/5/08 - 1145 | None | 17 | |
| 010 EFF-18 | W | 500 mL Poly | 1 | | None | 18 | |
| 010 EFF-19 | W | 500 mL Poly | 1 | | None | 19 | |
| 010 EFF-20 | W | 500 mL Poly | 1 | | None | 20 | |
| 010 EFF-21 | W | 500 mL Poly | 1 | | None | 21 | |
| 010 EFF-22 | W | 500 mL Poly | 1 | | None | 22 | |
| 010 EFF-23 | W | 500 mL Poly | 1 | | None | 23 | |
| 010 EFF-24 | W | 500 mL Poly | 1 | | None | 24 | |
| Relinquished By | <i>J. Doak</i> | Date/Time | <i>1-8-08</i> | Received By | <i>Spilio Louie</i> | Date/Time | <i>01/06/08 12:10</i> |
| Relinquished By | <i>TS: HAD FRIDGE</i> | Date/Time | <i>12:10</i> | Received By | <i>Spilio Louie</i> | Date/Time | <i>01/06/08 12:10</i> |
| Relinquished By | <i>Spilio Louie</i> | Date/Time | <i>01/06/08 1:30</i> | Received By | | Date/Time | |
| Turn around Time: (check) | | 24 Hours | | 48 Hours | | 72 Hours | |
| Sample Integrity: (check) | | Intact | | Normal | | On Ice: | |

| 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 | | Phone Number: (626) 568-6691 | | Field readings: Temp = <i>N/A</i> | | | |
| Project Manager: Bronwyn Kelly | | Fax Number: (626) 568-6515 | | pH = <i>N/A</i> | | | |
| Sampler: J. MARISSA | | Suspended Sediment Concentration (SSC, ASTM-D3977-1997) | | Time of readings = <i>N/A</i> | | | |
| Sample Description | Sample Matrix | Container Type | # of Cont. | Sampling Date/Time | Preservative | Bottle # | Comments |
| 010 INF-1 | W | 500 mL Poly | 1 | 1/4/08 - 1930 | None | 1 | |
| 010 INF-2 | W | 500 mL Poly | 1 | 1/4/08 - 2030 | None | 2 | |
| 010 INF-3 | W | 500 mL Poly | 1 | 1/4/08 - 2130 | None | 3 | |
| 010 INF-4 | W | 500 mL Poly | 1 | 1/4/08 - 2230 | None | 4 | |
| 010 INF-5 | W | 500 mL Poly | 1 | 1/4/08 - 2330 | None | 5 | |
| 010 INF-6 | W | 500 mL Poly | 1 | 1/5/08 - 0030 | None | 6 | |
| 010 INF-7 | W | 500 mL Poly | 1 | 1/5/08 - 0130 | None | 7 | |
| 010 INF-8 | W | 500 mL Poly | 1 | 1/5/08 - 0230 | None | 8 | |
| 010 INF-9 | W | 500 mL Poly | 1 | 1/5/08 - 0330 | None | 9 | |
| 010 INF-10 | W | 500 mL Poly | 1 | 1/5/08 - 0430 | None | 10 | |
| 010 INF-11 | W | 500 mL Poly | 1 | 1/5/08 - 0530 | None | 11 | |
| 010 INF-12 | W | 500 mL Poly | 1 | 1/5/08 - 0630 | None | 12 | |
| 010 INF-13 | W | 500 mL Poly | 1 | 1/5/08 - 0730 | None | 13 | |
| 010 INF-14 | W | 500 mL Poly | 1 | 1/5/08 - 0830 | None | 14 | |
| 010 INF-15 | W | 500 mL Poly | 1 | 1/5/08 - 0830 | None | 15 | |
| 010 INF-16 | W | 500 mL Poly | 1 | | None | 16 | |
| 010 INF-17 | W | 500 mL Poly | 1 | | None | 17 | |
| 010 INF-18 | W | 500 mL Poly | 1 | | None | 18 | |
| 010 INF-19 | W | 500 mL Poly | 1 | | None | 19 | |
| 010 INF-20 | W | 500 mL Poly | 1 | | None | 20 | |
| 010 INF-21 | W | 500 mL Poly | 1 | | None | 21 | |
| 010 INF-22 | W | 500 mL Poly | 1 | | None | 22 | |
| 010 INF-23 | W | 500 mL Poly | 1 | | None | 23 | |
| 010 INF-24 | W | 500 mL Poly | 1 | | None | 24 | |
| Relinquished By <i>J. Doak</i> | Date/Time: <i>1-6-08</i> | Received By <i>Shulman</i> | Date/Time: <i>12-10</i> | Turn around Time: (check) 24 Hours <input type="checkbox"/> 5 Days <input type="checkbox"/> 48 Hours <input type="checkbox"/> 10 Days <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Normal <input type="checkbox"/> | | | |
| Relinquished By <i>J. Doak</i> | Date/Time: <i>1/10/08</i> | Received By <i>Shulman</i> | Date/Time: <i>1/10/08</i> | Sample Integrity: (check) Intact <input type="checkbox"/> On Ice: <input checked="" type="checkbox"/> | | | |

APPENDIX G

Section 35

Outfall 006, January 24, 2008

MEC^X Data Validation Reports



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: IRA2349

Prepared by

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

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES
 Contract Task Order: 1261.100D.00
 Sample Delivery Group: IRA2349
 Project Manager: B. Kelly
 Matrix: Soil
 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 | IRA2349-01 | 30202-001, 8012534-01 | Water | 01/24/08 0900 | 200.8, 245.1, 900.0, 901.1, 903.0, 904.0, 905.0, 906.0, 1613, ASTM D-5174 |

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at TestAmerica-Irvine and Vista within the temperature limits of 4°C ±2°C. The sample was received above the temperature limit at Weck; however, mercury is not considered volatile. The sample was received above the temperature limit at Eberline; however, radiological samples are not required to be chilled. According to the case narrative for this SDG, the sample was received intact at all laboratories. The COCs were appropriately signed and dated by field and/or laboratory personnel. As the sample was couriered to TestAmerica-Irvine, custody seals were not required. Custody seals were intact upon arrival at Eberline and Vista. No custody seals were present upon receipt at Weck. 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: K. Shadowlight
Date Reviewed: March 1, 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.

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

B. EPA METHODS 200.8, 245.1—Metals and Mercury

Reviewed By: P. Meeks
Date Reviewed: March 4, 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 Methods 200.8 and 245.1*, and the *National Functional Guidelines for Inorganic Data Review (2/94)*.

- Holding Times: The analytical holding times, 6 months for 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-MS metals and 85-115% for mercury. The cadmium 0.2 ppb check standard was recovered

above the control limit at 139%; therefore, total cadmium detected in the sample was qualified as an estimated detect, "J." All remaining check standard recoveries were within the control limits of 70-130%

- Blanks: There were no applicable detects in the method blanks or CCBs.
- Interference Check Samples: ICESA/B analyses were performed in association with the total metals analyses only. Recoveries were within the method-established control limits. Most analytes were reported in the 6020 ICESA solution; however, the reviewer was not able to ascertain if the detection was indicative of matrix interference.
- Blank Spikes and Laboratory Control Samples: The recoveries were within laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analyses were performed.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the dissolved aliquot and a matrix spike analysis was performed on the total metals aliquot. All recoveries and RPDs were within the laboratory-established control limits. Evaluation of the mercury method accuracy was based on LCS results.
- Serial Dilution: No serial dilution analyses were performed.
- Internal Standards Performance: All sample internal standard intensities were within 30-120% of the internal standard intensities measured in the initial calibration. The bracketing CCV and CCB internal standard intensities were within 80-120% of the internal standard intensities measured in the initial calibration.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. Detects reported below the reporting limit were qualified as estimated, "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: March 5, 2008

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 (2/94)*.

- **Holding Times:** The tritium sample was analyzed within 180 days of collection. Aliquots for gross alpha, gross beta, radium-226, radium-228, strontium-90, and gamma spectroscopy were prepared within the five-day analytical holding time for unpreserved samples. The aliquot for total uranium was prepared within five days of collection.
- **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." The gross beta detector efficiency was greater than 20%.

The tritium aliquot was spiked for efficiency determination; therefore, no calibration was necessary. The tritium detector efficiency for the sample was at least 20% and was considered acceptable. The internal spike efficiency to default efficiency ratios was near 1, indicating that quenching was not significant.

The strontium chemical yield was at least 70% and was considered acceptable. The strontium continuing calibration results were within the laboratory control limits.

The radium-226 cell efficiencies were determined in September 2006. The radium-226 continuing calibration results were within the laboratory-established control limits. The radium-228 calibration utilized actinium-228 and was verified in February 2001. The radium-228 tracer, yttrium oxalate yields were greater than 70%.

The gamma spectroscopy geometry-specific, detector efficiencies were determined in September 1999 and February 2007. All analytes were determined at the maximum photopeak energy.

The kinetic phosphorescence analyzer (KPA) was calibrated immediately prior to the sample analysis. All calibration check standard recoveries were within 90-110% and were deemed acceptable.

- **Blanks:** There were no analytes detected in the method blanks.
- **Blank Spikes and Laboratory Control Samples:** The recoveries were within laboratory-established control limits.

- Laboratory Duplicates: No laboratory duplicate analysis 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. 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.

EPA Method 1613

Sample ID: IRA2349-01 *Outfall 006*

Client Data
 Name: Test America-Irvine, CA
 Project: IRA2349
 Date Collected: 24-Jan-08
 Time Collected: 0930

Sample Data
 Matrix: Aqueous
 Sample Size: 1.00 L

Laboratory Data
 Lab Sample: 30201-001
 QC Batch No.: 9917
 Date Analyzed DB-5: 6-Feb-08
 Date Received: 26-Jan-08
 Date Extracted: 31-Jan-08
 Date Analyzed DB-225: NA

| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
|---------------------|--------------|-----------------|-------------------|------------|-------------------------|------|----------------------|------------|
| 2,3,7,8-TCDD | ND | 0.000000849 | | | IS 13C-2,3,7,8-TCDD | 94.2 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.000000869 | | | 13C-1,2,3,7,8-PeCDD | 97.5 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000187 | | | 13C-1,2,3,4,7,8-HxCDD | 91.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000189 | | | 13C-1,2,3,6,7,8-HxCDD | 89.7 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000180 | | | 13C-1,2,3,4,6,7,8-HpCDD | 97.5 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000415 | | | 13C-OCDD | 78.4 | 17 - 157 | |
| OCDD | 0.0000298 | | | J | 13C-2,3,7,8-TCDF | 91.7 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.000000883 | | | 13C-1,2,3,7,8-PeCDF | 104 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.000000642 | | | 13C-2,3,4,7,8-PeCDF | 88.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.000000711 | | | 13C-1,2,3,4,7,8-HxCDF | 90.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000562 | | | 13C-1,2,3,6,7,8-HxCDF | 86.0 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000613 | | | 13C-2,3,4,6,7,8-HxCDF | 85.4 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000678 | | | 13C-1,2,3,7,8,9-HxCDF | 90.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.000000871 | | | 13C-1,2,3,4,6,7,8-HpCDF | 100 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.000000899 | | | 13C-1,2,3,4,7,8,9-HpCDF | 90.4 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000118 | | | 13C-OCDF | 88.4 | 17 - 157 | |
| OCDF | ND | 0.00000385 | | | CRS 37Cl-2,3,7,8-TCDD | 99.5 | 35 - 197 | |

| Totals | Footnotes | | | | | | | |
|-------------|------------|-------------|--|--|--|--|--|---|
| Total TCDD | ND | 0.00000146 | | | | | | a. Sample specific estimated detection limit. |
| Total PeCDD | ND | 0.00000214 | | | | | | b. Estimated maximum possible concentration. |
| Total HxCDD | ND | 0.00000185 | | | | | | c. Method detection limit. |
| Total HpCDD | 0.00000483 | | | | | | | d. Lower control limit - upper control limit. |
| Total TCDF | ND | 0.000000883 | | | | | | |
| Total PeCDF | ND | 0.000000674 | | | | | | |
| Total HxCDF | ND | 0.000000674 | | | | | | |
| Total HpCDF | ND | 0.00000102 | | | | | | |

Analyst: MAS *Level IV* Approved By: William J. Luksemburg 08-Feb-2008 13:08

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

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

Project ID: Routine Outfall 006
Report Number: IRA2349

Sampled: 01/24/08
Received: 01/24/08

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers | |
|---|-------------|-----------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|---|
| Sample ID: IRA2349-01 (Outfall 006 - Water) | | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | | |
| Antimony | J/DNQ | EPA 200.8 | 8A25068 | 0.20 | 2.0 | 0.45 | 1 | 01/25/08 | 01/25/08 | J |
| Cadmium | J/*III, DNQ | EPA 200.8 | 8A25068 | 0.11 | 1.0 | 0.12 | 1 | 01/25/08 | 01/25/08 | J |
| Copper | J/DNQ | EPA 200.8 | 8A25068 | 0.75 | 2.0 | 1.9 | 1 | 01/25/08 | 01/25/08 | J |
| Lead | | EPA 200.8 | 8A25068 | 0.30 | 1.0 | 1.1 | 1 | 01/25/08 | 01/25/08 | |
| Thallium | J | EPA 200.8 | 8A25068 | 0.20 | 1.0 | ND | 1 | 01/25/08 | 01/25/08 | |

LEVEL IV

TestAmerica Irvine

Joseph Doak
Project Manager

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IRA2349 <Page 2 of 15>

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
Received: 01/24/08

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 8A24169 | 0.20 | 2.0 | 0.42 | 1 | 01/24/08 | 01/25/08 | J |
| Cadmium | EPA 200.8-Diss | 8A24169 | 0.11 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Copper | EPA 200.8-Diss | 8A24169 | 0.75 | 2.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Lead | EPA 200.8-Diss | 8A24169 | 0.30 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Thallium | EPA 200.8-Diss | 8A24169 | 0.20 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |

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

Project ID: Routine Outfall 006
Report Number: IRA2349

Sampled: 01/24/08
Received: 01/24/08

Metals by EPA 200 Series Methods

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------|-----------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Mercury, Dissolved | U | EPA 245.1 | W8A1076 | 0.050 | 0.20 | ND | 1 | 01/30/08 | 01/31/08 |
| Mercury, Total | U | EPA 245.1 | W8A1076 | 0.050 | 0.20 | ND | 1 | 01/30/08 | 01/31/08 |

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IRA2349 <Page 5 of 15>


Eberline Services

ANALYSIS RESULTS

| | |
|-------------------------------|----------------------------------|
| SDG <u>8685</u> | Client <u>TA IRVINE</u> |
| Work Order <u>R801163-01</u> | Contract <u>PROJECT# IRA2349</u> |
| Received Date <u>01/26/08</u> | Matrix <u>WATER</u> |

| Client | Lab | Sample ID | Collected | Analyzed | Nuclide | Results ± 2σ | Units | MDA |
|---|----------|-----------|-----------|----------|------------|---------------|-------|---------|
| Sample ID <u>outfall 006</u> IRA2349-01 | 8685-001 | 01/24/08 | 02/06/08 | | GrossAlpha | 1.67 ± 1.0 | pCi/L | 1.3 J/R |
| | | | 02/06/08 | | Gross Beta | 6.62 ± 1.3 | pCi/L | 1.8 |
| | | | 02/04/08 | | Ra-228 | 0.176 ± 0.15 | pCi/L | 0.42 U |
| | | | 01/31/08 | | K-40 (G) | U | pCi/L | 34 |
| | | | 01/31/08 | | Cs-137 (G) | U | pCi/L | 1.4 |
| | | | 02/15/08 | | H-3 | -32.5 ± 93 | pCi/L | 160 |
| | | | 02/11/08 | | Ra-226 | -0.103 ± 0.44 | pCi/L | 0.87 |
| | | | 02/07/08 | | Sr-90 | -0.081 ± 0.28 | pCi/L | 0.58 |
| | | | 02/19/08 | | Total U | 0.859 ± 0.094 | pCi/L | 0.022 |

LEVEL IV

Certified by 
 Report Date 02/22/08
 Page 1

APPENDIX G

Section 36

Outfall 006, January 24, 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: Routine Outfall 006

Sampled: 01/24/08
Received: 01/24/08
Issued: 02/25/08 16:52

NELAP #01108CA California ELAP#1197 CSDLAC #10256

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

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

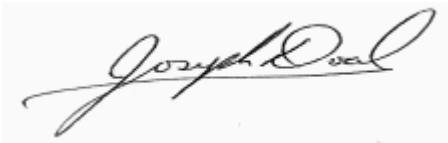
ADDITIONAL INFORMATION: This is a Final report to include all subcontract data.

LABORATORY ID
IRA2349-01

CLIENT ID
Outfall 006

MATRIX
Water

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8 | 8A25068 | 0.20 | 2.0 | 0.45 | 1 | 01/25/08 | 01/25/08 | J |
| Cadmium | EPA 200.8 | 8A25068 | 0.11 | 1.0 | 0.12 | 1 | 01/25/08 | 01/25/08 | J |
| Copper | EPA 200.8 | 8A25068 | 0.75 | 2.0 | 1.9 | 1 | 01/25/08 | 01/25/08 | J |
| Lead | EPA 200.8 | 8A25068 | 0.30 | 1.0 | 1.1 | 1 | 01/25/08 | 01/25/08 | |
| Thallium | EPA 200.8 | 8A25068 | 0.20 | 1.0 | ND | 1 | 01/25/08 | 01/25/08 | |

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Project Manager

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IRA2349 <Page 2 of 15>
NPDES - 1465

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

DISSOLVED METALS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Antimony | EPA 200.8-Diss | 8A24169 | 0.20 | 2.0 | 0.42 | 1 | 01/24/08 | 01/25/08 | J |
| Cadmium | EPA 200.8-Diss | 8A24169 | 0.11 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Copper | EPA 200.8-Diss | 8A24169 | 0.75 | 2.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Lead | EPA 200.8-Diss | 8A24169 | 0.30 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |
| Thallium | EPA 200.8-Diss | 8A24169 | 0.20 | 1.0 | ND | 1 | 01/24/08 | 01/24/08 | |

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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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

INORGANICS

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: mg/l | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | EPA 1664A | 8A31085 | 1.3 | 4.8 | ND | 1 | 01/31/08 | 01/31/08 | |
| Chloride | EPA 300.0 | 8A24164 | 5.0 | 10 | 56 | 20 | 01/24/08 | 01/25/08 | |
| Nitrate/Nitrite-N | EPA 300.0 | 8A24164 | 0.15 | 0.26 | 0.18 | 1 | 01/24/08 | 01/25/08 | J |
| Sulfate | EPA 300.0 | 8A24164 | 0.20 | 0.50 | 13 | 1 | 01/24/08 | 01/25/08 | |
| Total Dissolved Solids | SM2540C | 8A25141 | 10 | 10 | 250 | 1 | 01/25/08 | 01/25/08 | |

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

Metals by EPA 200 Series Methods

| Analyte | Method | Batch | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IRA2349-01 (Outfall 006 - Water) - cont. | | | | | | | | | |
| Reporting Units: ug/l | | | | | | | | | |
| Mercury, Dissolved | EPA 245.1 | W8A1076 | 0.050 | 0.20 | ND | 1 | 01/30/08 | 01/31/08 | |
| Mercury, Total | EPA 245.1 | W8A1076 | 0.050 | 0.20 | ND | 1 | 01/30/08 | 01/31/08 | |

TestAmerica Irvine

Joseph Doak
Project Manager

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IRA2349 <Page 5 of 15>
NPDES - 1468

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

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 (IRA2349-01) - Water EPA 300.0 | 2 | 01/24/2008 09:30 | 01/24/2008 18:15 | 01/24/2008 19:00 | 01/25/2008 00:25 |

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Project Manager

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IRA2349 <Page 6 of 15>
NPDES - 1469

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

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: 8A25068 Extracted: 01/25/08 | | | | | | | | | | | |
| Blank Analyzed: 01/25/2008 (8A25068-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: 01/25/2008 (8A25068-BS1) | | | | | | | | | | | |
| Antimony | 84.5 | 2.0 | 0.20 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Cadmium | 84.8 | 1.0 | 0.11 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Copper | 86.4 | 2.0 | 0.75 | ug/l | 80.0 | | 108 | 85-115 | | | |
| Lead | 85.0 | 1.0 | 0.30 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Thallium | 82.7 | 1.0 | 0.20 | ug/l | 80.0 | | 103 | 85-115 | | | |
| Matrix Spike Analyzed: 01/25/2008 (8A25068-MS1) Source: IRA2276-02 | | | | | | | | | | | |
| Antimony | 82.3 | 2.0 | 0.20 | ug/l | 80.0 | ND | 103 | 70-130 | | | |
| Cadmium | 82.0 | 1.0 | 0.11 | ug/l | 80.0 | ND | 102 | 70-130 | | | |
| Copper | 83.4 | 2.0 | 0.75 | ug/l | 80.0 | ND | 104 | 70-130 | | | |
| Lead | 81.0 | 1.0 | 0.30 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Thallium | 80.4 | 1.0 | 0.20 | ug/l | 80.0 | ND | 101 | 70-130 | | | |
| Matrix Spike Analyzed: 01/25/2008 (8A25068-MS2) Source: IRA2349-01 | | | | | | | | | | | |
| Antimony | 82.9 | 2.0 | 0.20 | ug/l | 80.0 | 0.445 | 103 | 70-130 | | | |
| Cadmium | 82.9 | 1.0 | 0.11 | ug/l | 80.0 | 0.119 | 104 | 70-130 | | | |
| Copper | 86.6 | 2.0 | 0.75 | ug/l | 80.0 | 1.92 | 106 | 70-130 | | | |
| Lead | 77.5 | 1.0 | 0.30 | ug/l | 80.0 | 1.14 | 95 | 70-130 | | | |
| Thallium | 77.7 | 1.0 | 0.20 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/25/2008 (8A25068-MSD1) Source: IRA2276-02 | | | | | | | | | | | |
| Antimony | 82.2 | 2.0 | 0.20 | ug/l | 80.0 | ND | 103 | 70-130 | 0 | 20 | |
| Cadmium | 82.6 | 1.0 | 0.11 | ug/l | 80.0 | ND | 103 | 70-130 | 1 | 20 | |
| Copper | 83.7 | 2.0 | 0.75 | ug/l | 80.0 | ND | 105 | 70-130 | 0 | 20 | |
| Lead | 81.7 | 1.0 | 0.30 | ug/l | 80.0 | ND | 102 | 70-130 | 1 | 20 | |
| Thallium | 81.7 | 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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

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: 8A24169 Extracted: 01/24/08 | | | | | | | | | | | |
| Blank Analyzed: 01/24/2008-01/25/2008 (8A24169-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: 01/24/2008-01/25/2008 (8A24169-BS1) | | | | | | | | | | | |
| Antimony | 83.6 | 2.0 | 0.20 | ug/l | 80.0 | | 104 | 85-115 | | | |
| Cadmium | 80.4 | 1.0 | 0.11 | ug/l | 80.0 | | 100 | 85-115 | | | |
| Copper | 84.6 | 2.0 | 0.75 | ug/l | 80.0 | | 106 | 85-115 | | | |
| Lead | 78.0 | 1.0 | 0.30 | ug/l | 80.0 | | 97 | 85-115 | | | |
| Thallium | 81.1 | 1.0 | 0.20 | ug/l | 80.0 | | 101 | 85-115 | | | |
| Matrix Spike Analyzed: 01/24/2008-01/25/2008 (8A24169-MS1) Source: IRA2349-01 | | | | | | | | | | | |
| Antimony | 86.9 | 2.0 | 0.20 | ug/l | 80.0 | 0.421 | 108 | 70-130 | | | |
| Cadmium | 77.3 | 1.0 | 0.11 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Copper | 78.7 | 2.0 | 0.75 | ug/l | 80.0 | ND | 98 | 70-130 | | | |
| Lead | 75.7 | 1.0 | 0.30 | ug/l | 80.0 | ND | 95 | 70-130 | | | |
| Thallium | 77.2 | 1.0 | 0.20 | ug/l | 80.0 | ND | 97 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/24/2008-01/25/2008 (8A24169-MSD1) Source: IRA2349-01 | | | | | | | | | | | |
| Antimony | 86.9 | 2.0 | 0.20 | ug/l | 80.0 | 0.421 | 108 | 70-130 | 0 | 20 | |
| Cadmium | 78.7 | 1.0 | 0.11 | ug/l | 80.0 | ND | 98 | 70-130 | 2 | 20 | |
| Copper | 79.3 | 2.0 | 0.75 | ug/l | 80.0 | ND | 99 | 70-130 | 1 | 20 | |
| Lead | 73.7 | 1.0 | 0.30 | ug/l | 80.0 | ND | 92 | 70-130 | 3 | 20 | |
| Thallium | 75.6 | 1.0 | 0.20 | ug/l | 80.0 | ND | 94 | 70-130 | 2 | 20 | |

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

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: 8A24164 Extracted: 01/24/08</u> | | | | | | | | | | | |
| Blank Analyzed: 01/24/2008 (8A24164-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: 01/24/2008 (8A24164-BS1) | | | | | | | | | | | |
| Chloride | 4.84 | 0.50 | 0.25 | mg/l | 5.00 | | 97 | 90-110 | | | M-3 |
| Sulfate | 9.79 | 0.50 | 0.20 | mg/l | 10.0 | | 98 | 90-110 | | | M-3 |
| Matrix Spike Analyzed: 01/25/2008 (8A24164-MS2) | | | | | | | | | | | |
| | | | | | | Source: IRA2351-10 | | | | | |
| Chloride | 178 | 10 | 5.0 | mg/l | 50.0 | 133 | 90 | 80-120 | | | |
| Sulfate | 363 | 10 | 4.0 | mg/l | 100 | 275 | 88 | 80-120 | | | |
| <u>Batch: 8A25141 Extracted: 01/25/08</u> | | | | | | | | | | | |
| Blank Analyzed: 01/25/2008 (8A25141-BLK1) | | | | | | | | | | | |
| Total Dissolved Solids | ND | 10 | 10 | mg/l | | | | | | | |
| LCS Analyzed: 01/25/2008 (8A25141-BS1) | | | | | | | | | | | |
| Total Dissolved Solids | 1000 | 10 | 10 | mg/l | 1000 | | 100 | 90-110 | | | |
| Duplicate Analyzed: 01/25/2008 (8A25141-DUP1) | | | | | | | | | | | |
| | | | | | | Source: IRA2124-05 | | | | | |
| Total Dissolved Solids | 1920 | 10 | 10 | mg/l | | 1920 | | | 0 | 10 | |
| <u>Batch: 8A31085 Extracted: 01/31/08</u> | | | | | | | | | | | |
| Blank Analyzed: 01/31/2008 (8A31085-BLK1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | ND | 5.0 | 1.4 | mg/l | | | | | | | |

TestAmerica Irvine

Joseph Doak
 Project Manager

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

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: 8A31085 Extracted: 01/31/08</u> | | | | | | | | | | | |
| LCS Analyzed: 01/31/2008 (8A31085-BS1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 19.8 | 5.0 | 1.4 | mg/l | 20.2 | | 98 | 78-114 | | | MNR1 |
| LCS Dup Analyzed: 01/31/2008 (8A31085-BSD1) | | | | | | | | | | | |
| Hexane Extractable Material (Oil & Grease) | 19.4 | 5.0 | 1.4 | mg/l | 20.2 | | 96 | 78-114 | 2 | 11 | |

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

METHOD BLANK/QC DATA

Metals by EPA 200 Series Methods

| Analyte | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: W8A1076 Extracted: 01/30/08 | | | | | | | | | | | |
| Blank Analyzed: 01/31/2008 (W8A1076-BLK1) | | | | | | | | | | | |
| Mercury, Dissolved | ND | 0.20 | 0.050 | ug/l | | | | | | | |
| Mercury, Total | ND | 0.20 | 0.050 | ug/l | | | | | | | |
| LCS Analyzed: 01/31/2008 (W8A1076-BS1) | | | | | | | | | | | |
| Mercury, Dissolved | 0.913 | 0.20 | 0.050 | ug/l | 1.00 | | 91 | 85-115 | | | |
| Mercury, Total | 0.913 | 0.20 | 0.050 | ug/l | 1.00 | | 91 | 85-115 | | | |
| Matrix Spike Analyzed: 01/31/2008 (W8A1076-MS1) Source: 8012935-01 | | | | | | | | | | | |
| Mercury, Dissolved | 0.971 | 0.20 | 0.050 | ug/l | 1.00 | 0.0450 | 93 | 70-130 | | | |
| Mercury, Total | 0.971 | 0.20 | 0.050 | ug/l | 1.00 | 0.0450 | 93 | 70-130 | | | |
| Matrix Spike Analyzed: 01/31/2008 (W8A1076-MS2) Source: 8012939-01 | | | | | | | | | | | |
| Mercury, Dissolved | 2.01 | 0.20 | 0.050 | ug/l | 1.00 | 1.18 | 83 | 70-130 | | | |
| Mercury, Total | 2.01 | 0.20 | 0.050 | ug/l | 1.00 | 1.18 | 83 | 70-130 | | | |
| Matrix Spike Dup Analyzed: 01/31/2008 (W8A1076-MSD1) Source: 8012935-01 | | | | | | | | | | | |
| Mercury, Dissolved | 0.957 | 0.20 | 0.050 | ug/l | 1.00 | 0.0450 | 91 | 70-130 | 1 | 20 | |
| Mercury, Total | 0.957 | 0.20 | 0.050 | ug/l | 1.00 | 0.0450 | 91 | 70-130 | 1 | 20 | |
| Matrix Spike Dup Analyzed: 01/31/2008 (W8A1076-MSD2) Source: 8012939-01 | | | | | | | | | | | |
| Mercury, Dissolved | 1.99 | 0.20 | 0.050 | ug/l | 1.00 | 1.18 | 81 | 70-130 | 1 | 20 | |
| Mercury, Total | 1.99 | 0.20 | 0.050 | ug/l | 1.00 | 1.18 | 81 | 70-130 | 1 | 20 | |

TestAmerica Irvine

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
 Received: 01/24/08

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 |
|------------|----------------------|--|-------|--------|------|------------------|
| IRA2349-01 | 1664-HEM | Hexane Extractable Material (Oil & Greas | mg/l | 0.29 | 4.8 | 15 |
| IRA2349-01 | Antimony-200.8 | Antimony | ug/l | 0.45 | 2.0 | 6 |
| IRA2349-01 | Cadmium-200.8 | Cadmium | ug/l | 0.12 | 1.0 | 4 |
| IRA2349-01 | Chloride - 300.0 | Chloride | mg/l | 56 | 10 | 150 |
| IRA2349-01 | Copper-200.8 | Copper | ug/l | 1.92 | 2.0 | 14 |
| IRA2349-01 | Hg_w 245.1 | Mercury, Total | ug/l | 0.015 | 0.20 | 0.13 |
| IRA2349-01 | Lead-200.8 | Lead | ug/l | 1.14 | 1.0 | 5.2 |
| IRA2349-01 | Nitrogen, NO3+NO2 -N | Nitrate/Nitrite-N | mg/l | 0.18 | 0.26 | 10 |
| IRA2349-01 | Sulfate-300.0 | Sulfate | mg/l | 13 | 0.50 | 250 |
| IRA2349-01 | TDS - SM 2540C | Total Dissolved Solids | mg/l | 246 | 10 | 850 |
| IRA2349-01 | Thallium-200.8 | Thallium | ug/l | 0.036 | 1.0 | 2 |

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

DATA QUALIFIERS AND DEFINITIONS

- J** Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
- M-3** Results exceeded the linear range in the MS/MSD and therefore are not available for reporting. The batch was accepted based on acceptable recovery in the Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

TestAmerica Irvine

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Project Manager

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IRA2349 <Page 13 of 15>
NPDES - 1476

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

Project ID: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08
Received: 01/24/08

Certification Summary

TestAmerica Irvine

| Method | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| EDD + Level 4 | Water | | |
| EPA 1664A | Water | | |
| EPA 200.8-Diss | Water | X | X |
| EPA 200.8 | Water | X | X |
| EPA 300.0 | 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

Aquatic Testing Laboratories-SUB California Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrnrc
Samples: IRA2349-01

Eberline Services - SUB

2030 Wright Avenue - Richmond, CA 94804

Analysis Performed: Gamma Spec
Samples: IRA2349-01

Analysis Performed: Gross Alpha
Samples: IRA2349-01

Analysis Performed: Gross Beta
Samples: IRA2349-01

Analysis Performed: Radium, Combined
Samples: IRA2349-01

Analysis Performed: Strontium 90
Samples: IRA2349-01

Analysis Performed: Tritium
Samples: IRA2349-01

Analysis Performed: Uranium, Combined
Samples: IRA2349-01

TestAmerica Irvine

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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: Routine Outfall 006

Report Number: IRA2349

Sampled: 01/24/08

Received: 01/24/08

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: IRA2349-01

Weck Laboratories, Inc

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

Method Performed: EPA 245.1
Samples: IRA2349-01

TestAmerica Irvine

Joseph Doak
Project Manager

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IRA2349

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

Client Name/Address: MWH-Arcadia, 618 Michillinda Avenue, Suite 200, Arcadia, CA 91007

Project: Boeing-SSFL NPDES Routine Outfall 006 Stormwater at FSDF-2

Project Manager: Bronwyn Kelly (626) 568-6691 Fax Number: (626) 568-6515

Sampler: MARISALIT

Barroso, R

Table with columns: Sample Description, Sample Matrix, Container Type, # of Cont., Preservative, Sampling Date/Time, Bottle #

Table with columns: Total Recoverable Metals, TCDD, Oil & Grease, Chloride, Sulfate, Nitrate, Nitrogen, Chronic Toxicity, TDS, ANALYSIS REQUIRED

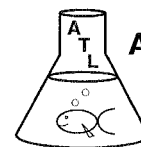
Field readings: Temp = 47.8, pH = 7.4, Time of readings = 0930

Comments: Unfiltered and unpreserved analysis

Relinquished By, Date/Time, Received By, Date/Time, Turn around Time, Sample Integrity, On Ice

7-015-0

LABORATORY REPORT



**Aquatic
Testing
Laboratories**

"dedicated to providing quality aquatic toxicity testing"

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

Date: February 1, 2008
Client: TestAmerica - Irvine
17461 Derian Ave., Suite 100
Irvine, CA 92614
Attn: Joseph Doak

Laboratory No.: A-08012503-001
Sample ID.: IRA2349-01 (Outfall 006)

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

Date Sampled: 01/24/08
Date Received: 01/25/08
Temp. Received: 1°C
Chlorine (TRC): 0.0 mg/l
Date Tested: 01/25/08 to 02/01/08

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

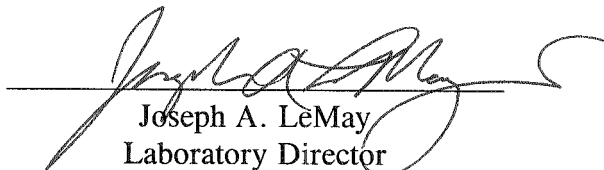
Ceriodaphnia dubia Survival and Reproduction Test (EPA Method 1002).

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

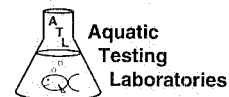
Result Summary:

| 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

**CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0**



Lab No.: A-08012503-001
Client/ID: Test America – Outfall 006

Date Tested: 01/25/08 to 02/01/08

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-080106.

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% | 24.8 |
| 100% Sample | 100% | 29.5 |
| Sample not statistically significantly less than Control for either endpoint. | | |

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 (24.8 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 = 5.5%) |
| 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: 1/25/2008 14:00 Test ID: 8012503 Sample ID: Outfall 006
 End Date: 2/1/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/24/2008 09:30 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

Comments:

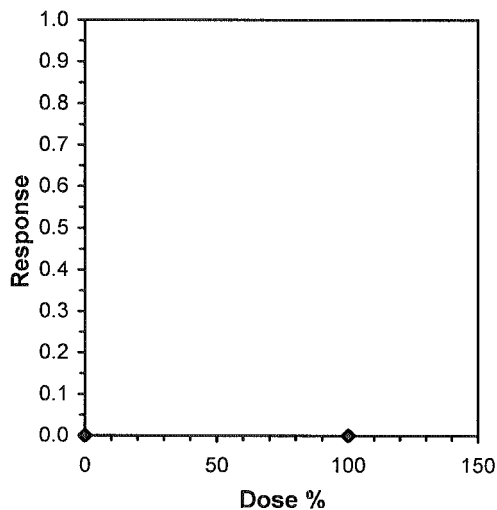
| Conc-% | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 100 | 1.0000 | 1.0000 | 1.0000 | 1.0000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

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

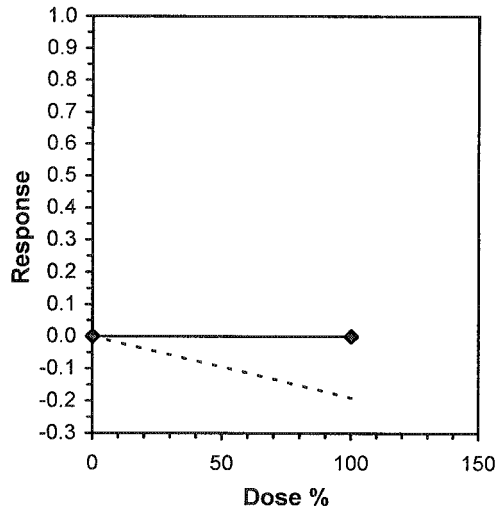
Start Date: 1/25/2008 14:00 Test ID: 8012503 Sample ID: Outfall 006
 End Date: 2/1/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial
 Sample Date: 1/24/2008 09:30 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia
 Comments:

| Conc-% | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 27.000 | 27.000 | 26.000 | 22.000 | 27.000 | 25.000 | 22.000 | 23.000 | 25.000 | 24.000 |
| 100 | 27.000 | 31.000 | 31.000 | 30.000 | 29.000 | 31.000 | 28.000 | 28.000 | 29.000 | 31.000 |

| Conc-% | Mean | N-Mean | Transform: Untransformed | | | | | N | t-Stat | 1-Tailed Critical | MSD | Isotonic | |
|-----------|--------|--------|--------------------------|--------|--------|-------|------|--------|--------|-------------------|--------|----------|--|
| | | | Mean | Min | Max | CV% | Mean | | | | | N-Mean | |
| D-Control | 24.800 | 1.0000 | 24.800 | 22.000 | 27.000 | 8.020 | 10 | | | | 27.150 | 1.0000 | |
| 100 | 29.500 | 1.1895 | 29.500 | 27.000 | 31.000 | 5.116 | 10 | -5.953 | 1.734 | 1.369 | 27.150 | 1.0000 | |

| Auxiliary Tests | Statistic | Critical | Skew | Kurt | | |
|--|-----------|----------|---------|---------|---------|-------|
| Shapiro-Wilk's Test indicates normal distribution (p > 0.05) | 0.91591 | 0.905 | -0.2946 | -1.2537 | | |
| F-Test indicates equal variances (p = 0.42) | 1.73659 | 6.54109 | | | | |
| Hypothesis Test (1-tail, 0.05) | MSDu | MSDp | MSB | MSE | F-Prob | df |
| Homoscedastic t Test indicates no significant differences | 1.36907 | 0.0552 | 110.45 | 3.11667 | 1.2E-05 | 1, 18 |
| Treatments vs D-Control | | | | | | |

| Point | % | SD | Linear Interpolation (200 Resamples) | |
|-------|------|----|--------------------------------------|------|
| | | | 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-08012503-001

Client ID: TestAmerica - IRA2349-01 (Outfall 006)

Start Date: 01/25/2008

| | | 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: | | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm | Rm |
| Time of Readings: | | 1400 | 1500 | 1500 | 1300 | 1300 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1300 |
| Control | DO | 8.0 | 8.4 | 7.9 | 7.4 | 7.7 | 7.7 | 7.9 | 7.8 | 8.9 | 8.0 | 8.1 | 8.4 | 8.2 | 8.2 |
| | pH | 7.8 | 8.0 | 7.7 | 7.6 | 7.4 | 7.4 | 7.8 | 8.0 | 8.0 | 7.7 | 7.8 | 7.6 | 7.7 | 7.8 |
| | Temp | 25.3 | 24.3 | 25.4 | 24.6 | 25.1 | 24.6 | 24.2 | 24.6 | 24.2 | 25.0 | 24.6 | 24.4 | 25.1 | 24.2 |
| 100% | DO | 11.1 | 8.8 | 10.4 | 7.8 | 10.4 | 7.9 | 10.5 | 8.0 | 10.3 | 8.2 | 10.9 | 8.0 | 9.8 | 8.4 |
| | pH | 7.1 | 8.0 | 7.0 | 7.6 | 7.1 | 7.7 | 7.2 | 7.8 | 7.1 | 7.7 | 7.1 | 7.7 | 7.3 | 7.7 |
| | Temp | 24.4 | 24.4 | 24.6 | 24.6 | 24.7 | 24.6 | 24.6 | 24.7 | 24.4 | 25.0 | 24.8 | 24.6 | 24.6 | 24.1 |

| Additional Parameters | Control | 100% Sample |
|--------------------------------------|---------|-------------|
| Conductivity (umohms) | 290 | 365 |
| Alkalinity (mg/l CaCO ₃) | 66 | 95 |
| Hardness (mg/l CaCO ₃) | 98 | 81 |
| Ammonia (mg/l NH ₃ -N) | 0.2 | 0.4 |

| Source of Neonates | | | | | | | | | | | |
|--------------------|----|----|----|----|----|----|----|----|----|----|--|
| Replicate: | A | B | C | D | E | F | G | H | I | J | |
| Brood ID: | A1 | B1 | C2 | D3 | E3 | H3 | A4 | D4 | F6 | G5 | |

| 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 | Rm |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | Rm |
| | 3 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 11 | 10 | Rm |
| | 4 | 4 | 8 | 5 | 4 | 0 | 3 | 4 | 5 | 5 | 0 | 38 | 10 | Rm |
| | 5 | 7 | 0 | 9 | 7 | 8 | 7 | 6 | 7 | 8 | 9 | 68 | 10 | Rm |
| | 6 | 0 | 15 | 0 | 0 | 16 | 15 | 0 | 0 | 0 | 0 | 46 | 10 | Rm |
| | 7 | 16 | 0 | 12 | 11 | 0 | 0 | 12 | 11 | 12 | 11 | 85 | 10 | Rm |
| | Total | | 27 | 27 | 26 | 27 | 27 | 28 | 22 | 23 | 25 | 24 | 248 | 10 |
| 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | Rm |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | Rm |
| | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 6 | 10 | Rm |
| | 4 | 5 | 0 | 4 | 5 | 4 | 4 | 5 | 4 | 0 | 4 | 35 | 10 | Rm |
| | 5 | 7 | 12 | 14 | 10 | 11 | 15 | 12 | 9 | 10 | 10 | 110 | 10 | Rm |
| | 6 | 0 | 0 | 13 | 0 | 0 | 12 | 0 | 15 | 16 | 17 | 73 | 10 | Rm |
| | 7 | 15 | 16 | 0 | 15 | 14 | 0 | 11 | 0 | 0 | 0 | 71 | 10 | Rm |
| | Total | | 27 | 31 | 31 | 30 | 29 | 31 | 28 | 28 | 29 | 31 | 295 | 10 |

Circled fourth brood not used in statistical analysis.

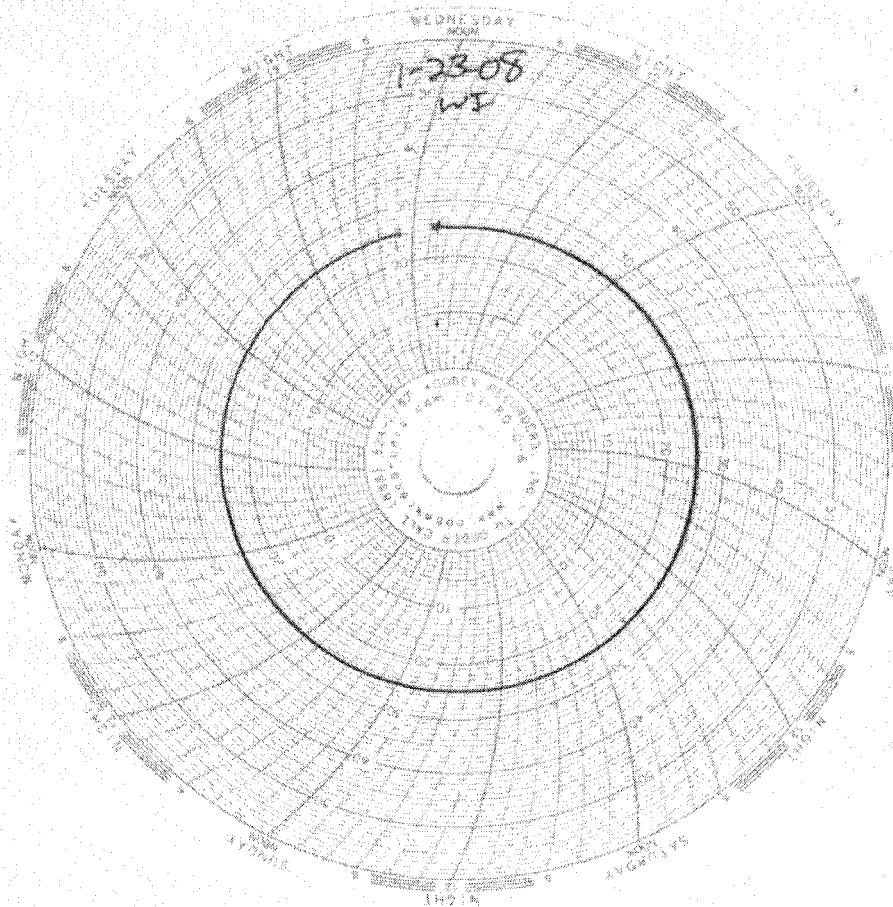
7th day only used if <60% of the surviving control females have produced their third brood.

Laboratory Temperature Chart

QA/QC Batch No: A-08012503

Date Tested: 01/25/08 to 02/01/08

Acceptable Range: 25+/- 1°C



SUBCONTRACT ORDER

**TestAmerica Irvine
IRA2349**

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: California
Receipt Temperature: 10.0 °C Ice: (Y) / N

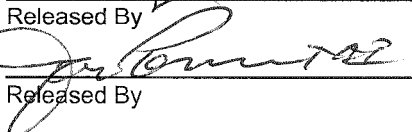
| Analysis | Units | Due | Expires | Comments |
|--|-------|----------|----------------|---|
| Sample ID: IRA2349-01 | Water | | | Sampled: 01/24/08 09:30 ph=7.4. temp=47.8 |
| Bioassay-7 dy Chrmc | N/A | 02/04/08 | 01/25/08 21:30 | Cerio, EPA/821-R02-013, Sub to AqTox Labs |
| Containers Supplied: 1 gal Poly (M) | | | | |


Released By

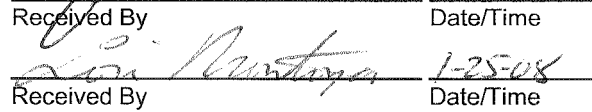
1/25/08 0805
Date/Time


Received By

1/25/08 0805
Date/Time


Released By

1/25/08 1130
Date/Time


Received By

1-25-08 1130
Date/Time



***REFERENCE
TOXICANT
DATA***

CERIODAPHNIA CHRONIC BIOASSAY
EPA METHOD 1002.0
REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-080106

Date Tested: 01/06/08 to 01/12/08

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: 6 days.

Statistics: ToxCalc computer program.

RESULTS SUMMARY

| Sample Concentration | Percent Survival | | Mean Number of Young Per Female | |
|----------------------|------------------|---|---------------------------------|----|
| Control | 100% | | 20.5 | |
| 0.25 g/l | 100% | | 19.5 | |
| 0.5 g/l | 100% | | 19.5 | |
| 1.0 g/l | 100% | | 14.0 | * |
| 2.0 g/l | 80% | | 3.2 | * |
| 4.0 g/l | 0% | * | 0 | ** |

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

CHRONIC TOXICITY

| | |
|-------------------|----------|
| Survival LC50 | 2.5 g/l |
| Reproduction IC25 | 0.88 g/l |

QA/QC TEST ACCEPTABILITY

| Parameter | Result |
|--|---------------------------------------|
| Control survival ≥ 80% | Pass (100% Survival) |
| ≥ 15 young per surviving control female | Pass (20.5 young) |
| ≥ 60% surviving controls had 3 broods | Pass (90% with 3 broods) |
| PMSD < 47% for reproduction | Pass (PMSD = 19.1%) |
| Stat. sig. diff. conc. relative difference > 13% | Pass (Stat. sig. diff. conc. = 31.7%) |
| Concentration response relationship acceptable | Pass (Response curve normal) |

Ceriodaphnia Survival and Reproduction Test-Survival Day 6

Start Date: 1/6/2008 13:00 Test ID: RT-080106c Sample ID: REF-Ref Toxicant
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/6/2008 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia

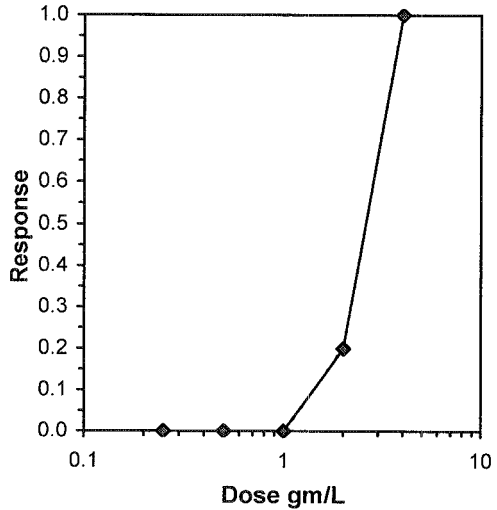
Comments:

| 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 | 0.0000 | 0.0000 |
| 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 | 0.8000 | 0.8000 | 2 | 8 | 10 | 10 | 0.2368 | 0.0500 | 2 | 10 |
| 4 | 0.0000 | 0.0000 | 10 | 0 | 10 | 10 | | | 10 | 10 |

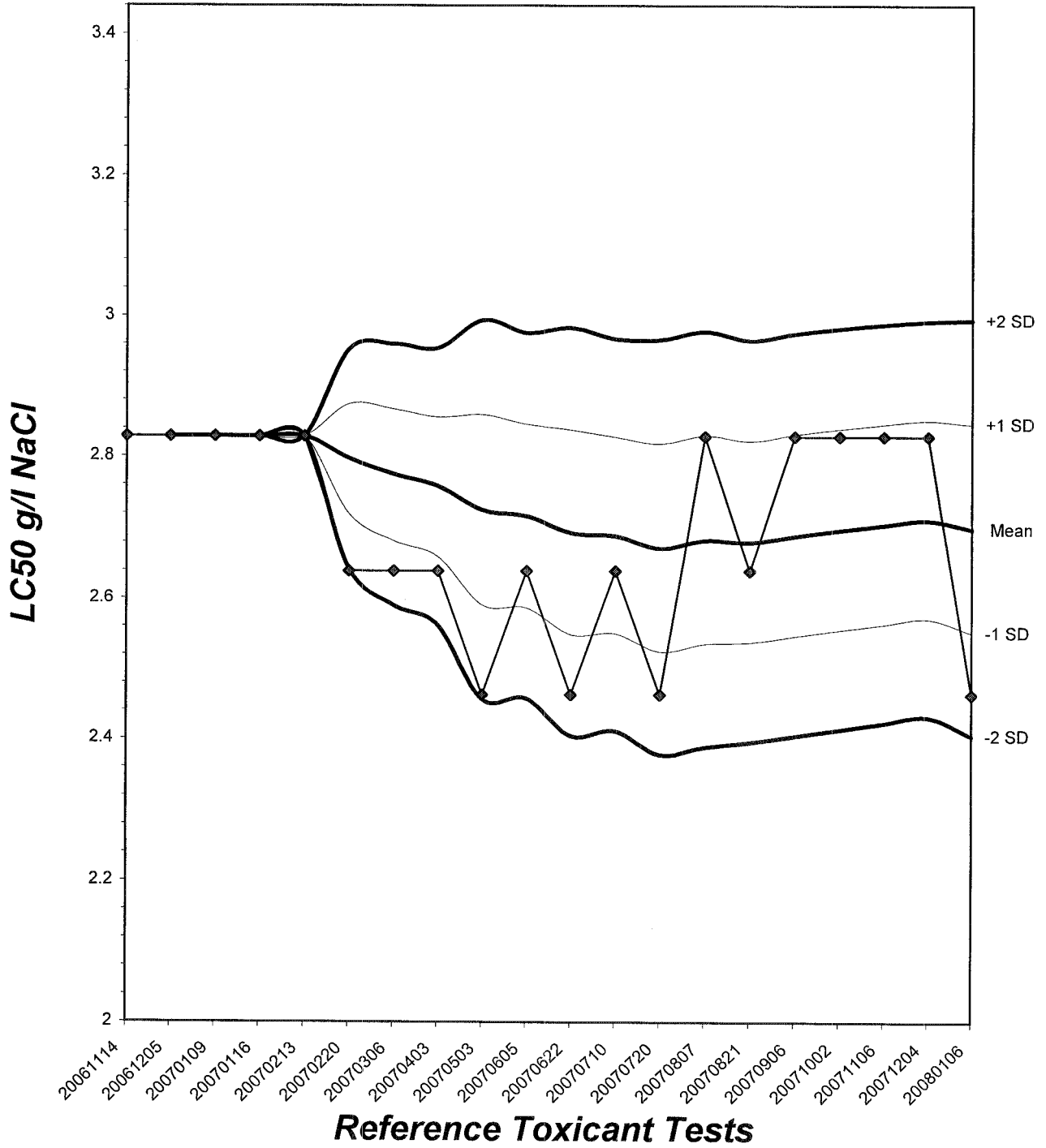
| Hypothesis Test (1-tail, 0.05) | NOEC | LOEC | ChV | TU |
|--------------------------------|------|------|---------|----|
| Fisher's Exact Test | 2 | 4 | 2.82843 | |
| Treatments vs D-Control | | | | |

| Trimmed Spearman-Kärber | | | |
|-------------------------|--------|--------|--------|
| Trim Level | EC50 | 95% CL | |
| 0.0% | 2.4623 | 2.0663 | 2.9342 |
| 5.0% | 2.5108 | 2.0545 | 3.0683 |
| 10.0% | 2.5519 | 1.9976 | 3.2599 |
| 20.0% | 2.5937 | 2.2616 | 2.9745 |
| Auto-0.0% | 2.4623 | 2.0663 | 2.9342 |



Ceriodaphnia dubia Chronic Survival Laboratory Control Chart

CV% = 5.46



Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date: 1/6/2008 13:00 Test ID: RT-080106c Sample ID: REF-Ref Toxicant
 End Date: 1/12/2008 13:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: NACL-Sodium chloride
 Sample Date: 1/6/2008 Protocol: FWCH-EPA-821-R-02-013 Test Species: CD-Ceriodaphnia dubia
 Comments:

| Conc-gm/L | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 23.000 | 11.000 | 21.000 | 21.000 | 23.000 | 20.000 | 19.000 | 22.000 | 20.000 | 25.000 |
| 0.25 | 12.000 | 24.000 | 19.000 | 22.000 | 9.000 | 20.000 | 21.000 | 21.000 | 22.000 | 25.000 |
| 0.5 | 21.000 | 19.000 | 21.000 | 22.000 | 16.000 | 12.000 | 22.000 | 21.000 | 22.000 | 19.000 |
| 1 | 19.000 | 9.000 | 9.000 | 19.000 | 14.000 | 10.000 | 16.000 | 17.000 | 19.000 | 8.000 |
| 2 | 8.000 | 2.000 | 2.000 | 5.000 | 4.000 | 3.000 | 3.000 | 5.000 | 0.000 | 0.000 |
| 4 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Conc-gm/L | Mean | N-Mean | Transform: Untransformed | | | | Rank Sum | 1-Tailed Critical | Isotonic | | |
|-----------|--------|--------|--------------------------|--------|--------|--------|----------|-------------------|----------|--------|--------|
| | | | Mean | Min | Max | CV% | | | N | Mean | N-Mean |
| D-Control | 20.500 | 1.0000 | 20.500 | 11.000 | 25.000 | 18.432 | 10 | | | 20.500 | 1.0000 |
| 0.25 | 19.500 | 0.9512 | 19.500 | 9.000 | 25.000 | 26.177 | 10 | 102.00 | 76.00 | 19.500 | 0.9512 |
| 0.5 | 19.500 | 0.9512 | 19.500 | 12.000 | 22.000 | 16.617 | 10 | 94.50 | 76.00 | 19.500 | 0.9512 |
| *1 | 14.000 | 0.6829 | 14.000 | 8.000 | 19.000 | 32.819 | 10 | 62.50 | 76.00 | 14.000 | 0.6829 |
| *2 | 3.200 | 0.1561 | 3.200 | 0.000 | 8.000 | 76.263 | 10 | 55.00 | 76.00 | 3.200 | 0.1561 |
| 4 | 0.000 | 0.0000 | 0.000 | 0.000 | 0.000 | 0.000 | 10 | | | 0.000 | 0.0000 |

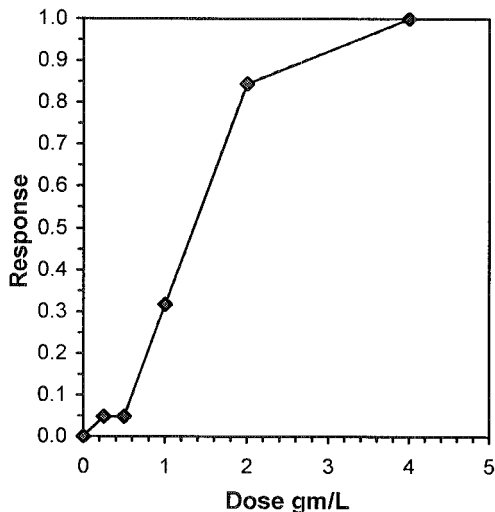
| Auxiliary Tests | Statistic | Critical | Skew | Kurt |
|---|-----------|----------|---------|---------|
| Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05) | 0.91281 | 0.947 | -0.9793 | 0.67912 |
| Bartlett's Test indicates equal variances (p = 0.25) | 5.39 | 13.2767 | | |

| 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

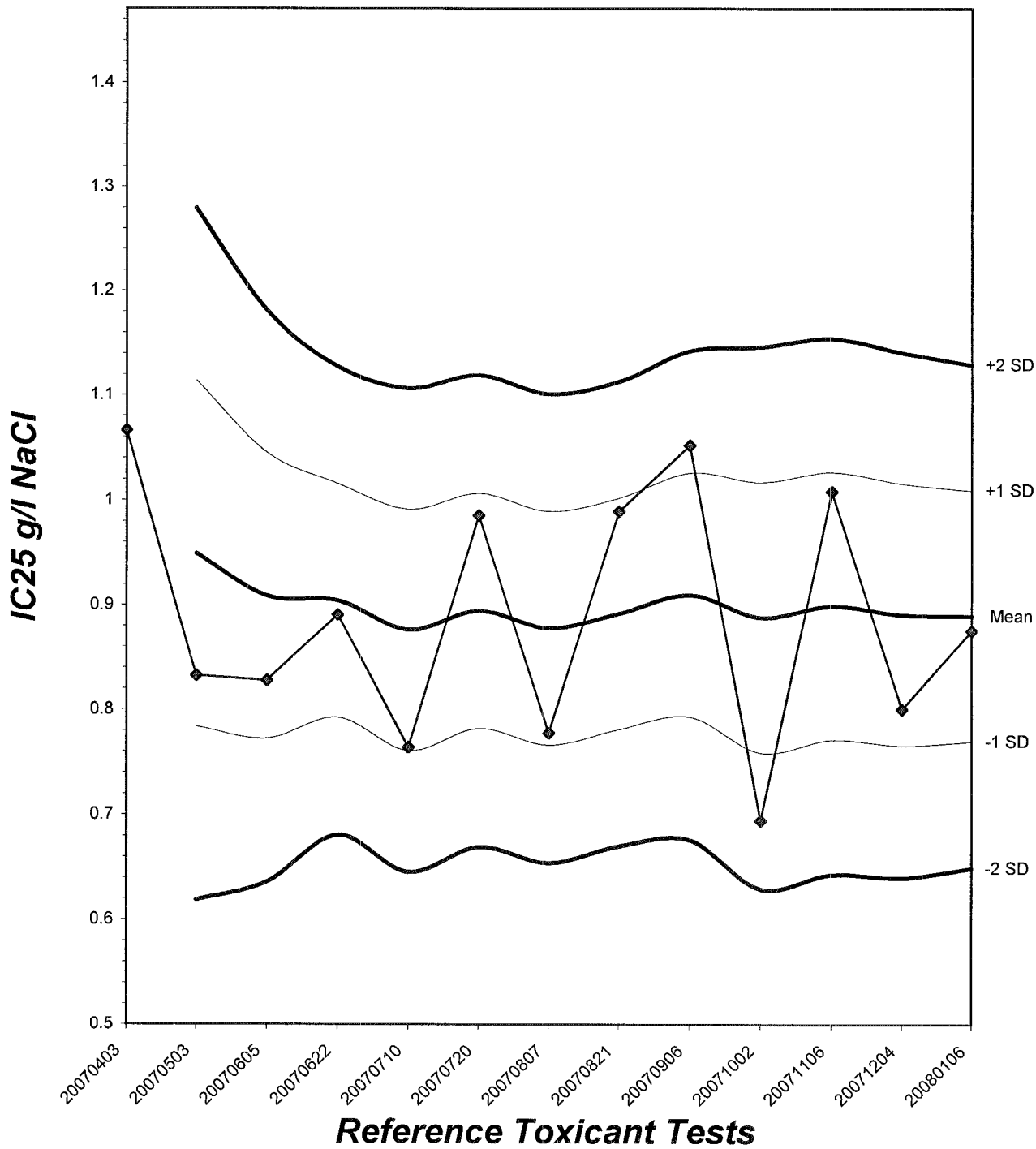
Linear Interpolation (200 Resamples)

| Point | gm/L | SD | 95% CL | Skew |
|-------|--------|--------|--------|--------|
| IC05 | 0.5023 | 0.1876 | 0.0809 | 0.6178 |
| IC10 | 0.5955 | 0.1768 | 0.1617 | 0.7497 |
| IC15 | 0.6886 | 0.1424 | 0.2426 | 0.9253 |
| IC20 | 0.7818 | 0.1259 | 0.4995 | 1.0352 |
| IC25 | 0.8750 | 0.1224 | 0.6413 | 1.1094 |
| IC40 | 1.1574 | 0.1139 | 0.9216 | 1.3331 |
| IC50 | 1.3472 | 0.0972 | 1.1197 | 1.4847 |



***Ceriodaphnia dubia* Chronic Reproduction Laboratory Control Chart**

CV% = 13.5



CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-080106

Start Date: 01/06/2008

| 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 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h |
| | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 8 | 10 | h |
| | 4 | 4 | 3 | 0 | 4 | 3 | 2 | 0 | 2 | 0 | 3 | 21 | 10 | h |
| | 5 | 9 | 8 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 70 | 10 | h |
| | 6 | 10 | 0 | 12 | 10 | 14 | 11 | 10 | 13 | 11 | 15 | 106 | 10 | h |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 23 | 11 | 21 | 21 | 23 | 20 | 19 | 22 | 20 | 25 | 205 | 10 | h |
| 0.25 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h | |
| | 3 | 0 | 3 | 0 | 3 | 0 | 2 | 0 | 0 | 3 | 0 | 11 | 10 | h |
| | 4 | 4 | 0 | 2 | 0 | 3 | 6 | 4 | 2 | 0 | 3 | 24 | 10 | h |
| | 5 | 8 | 8 | 7 | 5 | 6 | 0 | 7 | 6 | 7 | 8 | 62 | 10 | h |
| | 6 | 0 | 13 | 10 | 14 | 0 | 12 | 10 | 13 | 12 | 14 | 98 | 10 | h |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 12 | 24 | 19 | 22 | 9 | 20 | 21 | 21 | 22 | 25 | 195 | 10 | h |
| 0.5 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h | |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | h | |
| | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 9 | 10 | h |
| | 4 | 0 | 3 | 0 | 3 | 4 | 3 | 0 | 0 | 3 | 3 | 19 | 10 | h |
| | 5 | 9 | 6 | 7 | 7 | 0 | 9 | 8 | 7 | 7 | 6 | 66 | 10 | h |
| | 6 | 10 | 10 | 12 | 12 | 12 | 0 | 11 | 12 | 12 | 10 | 101 | 10 | h |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Total | 21 | 19 | 21 | 22 | 16 | 12 | 22 | 21 | 22 | 19 | 195 | 10 | h |

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-080106

Start Date: 01/06/2008

| 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 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 5 | 10 | |
| | 4 | 3 | 2 | 2 | 3 | 0 | 0 | 3 | 2 | 0 | 2 | 17 | 10 | |
| | 5 | 5 | 7 | 7 | 4 | 5 | 7 | 5 | 4 | 7 | 6 | 57 | 10 | |
| | 6 | 11 | 0 | 0 | 12 | 9 | 0 | 8 | 11 | 10 | 0 | 61 | 10 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 19 | 9 | 9 | 19 | 14 | 10 | 16 | 17 | 19 | 8 | 140 | 10 | |
| 2.0 g/l | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | X | 0 | 0 | 9 | h |
| | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 9 | |
| | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 9 | |
| | 4 | 2 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | - | 0 | 9 | 9 | |
| | 5 | 3 | 0 | 0 | 2 | 2 | 3 | 3 | 0 | - | 0 | 13 | 9 | |
| | 6 | 3 | 2 | 0 | 0 | 2 | 0 | 0 | 3 | - | X | 10 | 8 | |
| | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Total | 8 | 2 | 2 | 5 | 4 | 3 | 3 | 5 | 0 | 0 | 32 | 8 | |
| 4.0 g/l | 1 | X | X | X | X | X | X | X | X | X | X | 0 | 0 | h |
| | 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.

CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl Water Chemistries Raw Data Sheet



QA/QC No.: RT-080106

Start Date: 01/06/2008

| | | 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: | | JK | JK | JK | JK | JK | JK | JK | JK | JK | JK | JK | JK | - | - | |
| Time of Readings: | | 1300 | 1330 | 1330 | 1300 | 1300 | 1230 | 1230 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | - | - |
| Control | DO | 7.6 | 7.2 | 7.4 | 7.7 | 7.4 | 7.6 | 7.4 | 7.5 | 8.2 | 7.8 | 7.9 | 7.7 | - | - | |
| | pH | 7.6 | 7.4 | 7.4 | 7.3 | 7.3 | 7.2 | 7.2 | 7.7 | 7.5 | 7.6 | 7.9 | 7.6 | - | - | |
| | Temp | 24.3 | 25.1 | 25.4 | 24.8 | 24.1 | 24.9 | 24.9 | 25.1 | 24.4 | 25.0 | 24.6 | 25.1 | - | - | |
| 0.25 g/l | DO | 7.5 | 7.3 | 7.5 | 7.5 | 7.5 | 7.7 | 7.3 | 7.4 | 8.2 | 7.8 | 7.9 | 7.7 | - | - | |
| | pH | 7.6 | 7.3 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.4 | 7.6 | 7.5 | 7.6 | 7.7 | - | - | |
| | Temp | 24.4 | 25.2 | 25.3 | 24.9 | 24.2 | 24.9 | 24.7 | 25.0 | 24.4 | 25.1 | 24.6 | 25.1 | - | - | |
| 0.5 g/l | DO | 7.4 | 7.2 | 7.4 | 7.6 | 7.4 | 7.5 | 7.4 | 7.6 | 8.5 | 7.6 | 8.0 | 7.8 | - | - | |
| | pH | 7.5 | 7.3 | 7.4 | 7.4 | 7.4 | 7.2 | 7.3 | 7.5 | 7.6 | 7.5 | 7.7 | 7.7 | - | - | |
| | Temp | 24.3 | 25.1 | 25.3 | 24.9 | 24.1 | 25.2 | 24.6 | 24.9 | 24.4 | 24.9 | 24.4 | 24.9 | - | - | |
| 1.0 g/l | DO | 7.5 | 7.2 | 7.6 | 7.7 | 7.3 | 7.8 | 7.4 | 7.4 | 8.4 | 7.8 | 7.7 | 7.7 | - | - | |
| | pH | 7.5 | 7.3 | 7.6 | 7.5 | 7.4 | 7.2 | 7.3 | 7.5 | 7.6 | 7.6 | 7.9 | 7.6 | - | - | |
| | Temp | 24.4 | 25.2 | 25.1 | 24.7 | 24.2 | 25.2 | 24.6 | 25.0 | 24.4 | 24.9 | 24.6 | 25.0 | - | - | |
| 2.0 g/l | DO | 7.4 | 7.4 | 7.6 | 7.5 | 7.4 | 7.8 | 7.2 | 7.6 | 8.2 | 7.6 | 7.6 | 7.7 | - | - | |
| | pH | 7.5 | 7.4 | 7.6 | 7.6 | 7.4 | 7.3 | 7.2 | 7.6 | 7.5 | 7.6 | 7.9 | 7.6 | - | - | |
| | Temp | 24.5 | 25.1 | 25.0 | 24.6 | 24.2 | 25.3 | 24.8 | 25.2 | 24.4 | 24.8 | 24.6 | 25.1 | - | - | |
| 4.0 g/l | DO | 7.5 | 7.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | pH | 7.6 | 7.8 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | Temp | 24.3 | 24.6 | - | - | - | - | - | - | - | - | - | - | - | - | |

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) | 350 | 348 | 305 | 6400 | 3100 | 3210 |
| Alkalinity (mg/l CaCO ₃) | 66 | 65 | 63 | 65 | 66 | 64 |
| Hardness (mg/l CaCO ₃) | 98 | 97 | 98 | 98 | 97 | 98 |

Source of Neonates

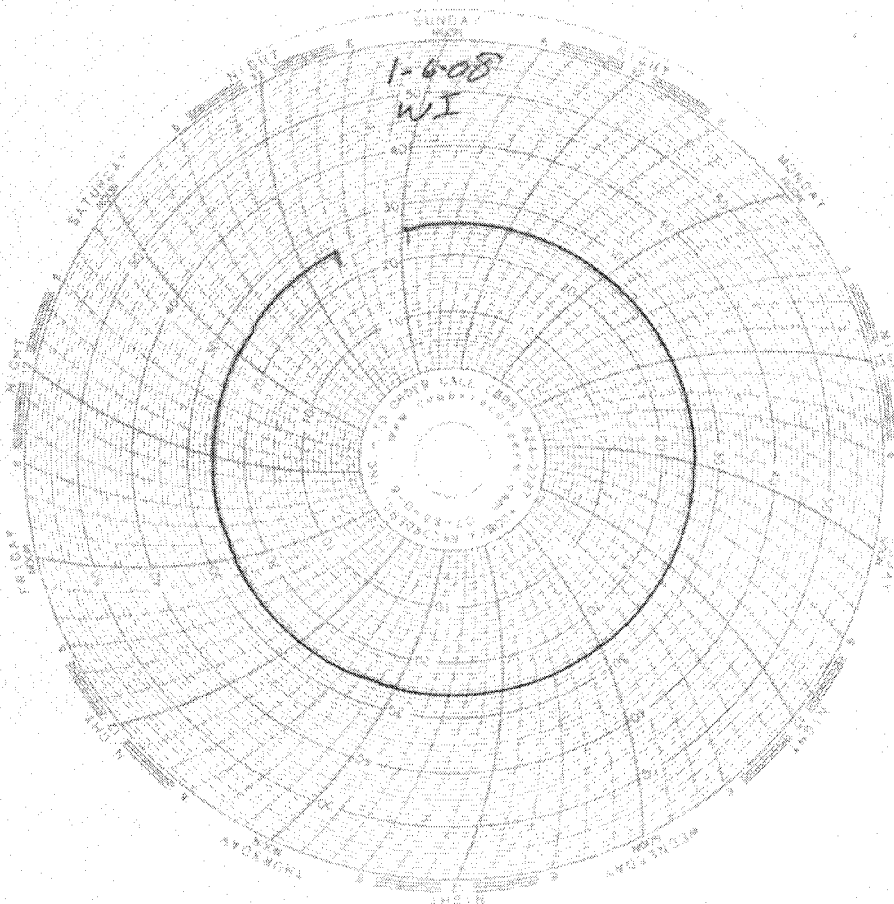
| Replicate: | A | B | C | D | E | F | G | H | I | J |
|------------|----|----|----|----|----|----|----|----|----|----|
| Brood ID: | 2B | 1B | 3C | 2C | 2A | 3D | 3E | 2F | 3F | 2G |

Laboratory Temperature Chart

QA/QC Batch No: RT-080106

Date Tested: 01/06/08 to 01/12/08

Acceptable Range: 25+/- 1°C





February 22, 2008

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

Reference: Eberline Services NELAP Cert #01120CA
Test America Project Nos. IRA1233, IRA2025, IRA2352, IRA2350,
IRA2349, IRA2156
Eberline Services Reports R801067-8681, R801142-8682, R801161-8683
R801162-8684, R801163-8685, R801164-8686

Dear Mr. Doak:

Enclosed are results from the analyses of six water samples. One sample was received on January 16, one on January 24, three on January 26, and one on January 28, 2008. The samples were analyzed according to the accompanying Test America Subcontract Order Forms, the requested analyses were: gross alpha/gross beta (EPA 900.0), tritium (H-3, EPA906.0), Sr-90 (EPA905.0), Ra-226 (EPA903.1), Ra-228 (EPA 904.0), total uranium (ASTM D-5174), and gamma spectroscopy (EPA901.1, K-40 and Cs-137 only). Batch quality control samples consisted of LCS's, blank analyses, duplicate analyses, and matrix spike analyses (gross alpha/gross beta, H-3, Ra-226, Total-U only). All QC sample results were within the limits defined in Eberline Services Quality Control Procedures Manual.

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

Regards,

Melissa Mannion
Senior Program Manager

MCM/njv

Enclosure: Reports/CoC's
Invoices

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

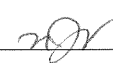
NPDES - 1497

Eberline Services

ANALYSIS RESULTS

| | |
|-------------------------------|----------------------------------|
| SDG <u>8685</u> | Client <u>TA IRVINE</u> |
| Work Order <u>R801163-01</u> | Contract <u>PROJECT# IRA2349</u> |
| Received Date <u>01/26/08</u> | Matrix <u>WATER</u> |

| Client | Lab | | | | | | |
|------------------|------------------|------------------|-----------------|----------------|---------------------|--------------|------------|
| <u>Sample ID</u> | <u>Sample ID</u> | <u>Collected</u> | <u>Analyzed</u> | <u>Nuclide</u> | <u>Results ± 2σ</u> | <u>Units</u> | <u>MDA</u> |
| IRA2349-01 | 8685-001 | 01/24/08 | 02/06/08 | GrossAlpha | 1.67 ± 1.0 | pCi/L | 1.3 |
| | | | 02/06/08 | Gross Beta | 6.62 ± 1.3 | pCi/L | 1.8 |
| | | | 02/04/08 | Ra-228 | 0.176 ± 0.15 | pCi/L | 0.42 |
| | | | 01/31/08 | K-40 (G) | U | pCi/L | 34 |
| | | | 01/31/08 | Cs-137 (G) | U | pCi/L | 1.4 |
| | | | 02/15/08 | H-3 | -32.5 ± 93 | pCi/L | 160 |
| | | | 02/11/08 | Ra-226 | -0.103 ± 0.44 | pCi/L | 0.87 |
| | | | 02/07/08 | Sr-90 | -0.081 ± 0.28 | pCi/L | 0.58 |
| | | | 02/19/08 | Total U | 0.859 ± 0.094 | pCi/L | 0.022 |

Certified by 

Report Date 02/22/08

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Eberline Services


QC RESULTS

| | |
|--|--|
| SDG <u>8685</u> Work Order <u>R801163-01</u> Received Date <u>01/26/08</u> | Client <u>TA IRVINE</u> Contract <u>PROJECT# IRA2349</u> Matrix <u>WATER</u> |
|--|--|

| Lab | Sample ID | Nuclide | Results | Units | Amount Added | MDA | Evaluation |
|------------|-----------|------------|-------------|----------|--------------|-------|---------------|
| <u>LCS</u> | | | | | | | |
| | 8682-002 | GrossAlpha | 10.6 ± 0.84 | pCi/Smpl | 10.1 | 0.29 | 105% recovery |
| | | Gross Beta | 9.49 ± 0.38 | pCi/Smpl | 9.39 | 0.29 | 101% recovery |
| | | Ra-228 | 8.69 ± 0.54 | pCi/Smpl | 8.73 | 0.75 | 100% recovery |
| | | Co-60 (G) | 223 ± 11 | pCi/Smpl | 226 | 7.0 | 99% recovery |
| | | Cs-137 (G) | 253 ± 11 | pCi/Smpl | 236 | 8.1 | 107% recovery |
| | | Am-241 (G) | 215 ± 37 | pCi/Smpl | 252 | 47 | 85% recovery |
| | | H-3 | 228 ± 14 | pCi/Smpl | 240 | 16 | 95% recovery |
| | | Ra-226 | 5.92 ± 0.27 | pCi/Smpl | 5.58 | 0.085 | 106% recovery |
| | | Sr-90 | 9.45 ± 0.73 | pCi/Smpl | 9.40 | 0.32 | 101% recovery |
| | | Total U | 1.06 ± 0.12 | pCi/Smpl | 1.13 | 0.004 | 94% recovery |

| <u>BLANK</u> | | | | | | | |
|--------------|----------|------------|--------------------|----------|----|---------|------|
| | 8682-003 | GrossAlpha | 0.006 ± 0.13 | pCi/Smpl | NA | 0.25 | <MDA |
| | | Gross Beta | -0.090 ± 0.27 | pCi/Smpl | NA | 0.44 | <MDA |
| | | Ra-228 | -0.089 ± 0.33 | pCi/Smpl | NA | 0.78 | <MDA |
| | | K-40 (G) | U | pCi/Smpl | NA | 190 | <MDA |
| | | Cs-137 (G) | U | pCi/Smpl | NA | 7.4 | <MDA |
| | | H-3 | -4.88 ± 9.0 | pCi/Smpl | NA | 15 | <MDA |
| | | Ra-226 | -0.014 ± 0.026 | pCi/Smpl | NA | 0.071 | <MDA |
| | | Sr-90 | 0.078 ± 0.24 | pCi/Smpl | NA | 0.54 | <MDA |
| | | Total U | 0.00E 00 ± 1.9E-04 | pCi/Smpl | NA | 4.4E-04 | <MDA |

| <u>DUPLICATES</u> | | | | <u>ORIGINALS</u> | | | | | |
|-------------------|------------|--------------|------|------------------|--------------|------|-----|-------|--------|
| Sample ID | Nuclide | Results ± 2σ | MDA | Sample ID | Results ± 2σ | MDA | RPD | (Tot) | Eval |
| 8682-004 | GrossAlpha | 3.13 ± 2.1 | 2.2 | 8682-001 | 2.52 ± 2.0 | 2.4 | 22 | 160 | satis. |
| | Gross Beta | 42.1 ± 2.3 | 2.1 | | 42.3 ± 2.4 | 2.4 | 0 | 44 | satis. |
| | Ra-228 | 0.070 ± 0.15 | 0.42 | | 0.145 ± 0.17 | 0.44 | - | 0 | satis. |

Certified by 
 Report Date 02/22/08
 Page 2

Eberline Services

| | |
|-------------------------------|----------------------------------|
| SDG <u>8685</u> | Client <u>TA IRVINE</u> |
| Work Order <u>R801163-01</u> | Contract <u>PROJECT# IRA2349</u> |
| Received Date <u>01/26/08</u> | Matrix <u>WATER</u> |

| | | | | | | |
|------------|---------------|-------|---------------|-------|-----|------------|
| K-40 (G) | 42.6 ± 18 | 9.6 | 36.0 ± 19 | 13 | 17 | 102 satis. |
| Cs-137 (G) | U | 0.92 | U | 1.1 | - | 0 satis. |
| Tl-208 (G) | U | 1.2 | U | | 200 | 302 satis. |
| Pb-210 (G) | U | 230 | U | | 200 | 302 satis. |
| Bi-212 (G) | U | 7.7 | U | | 200 | 302 satis. |
| Pb-212 (G) | U | 1.6 | U | | 200 | 302 satis. |
| Bi-214 (G) | U | 2.1 | U | | 200 | 301 satis. |
| Pb-214 (G) | U | 2.2 | U | | 200 | 302 satis. |
| Ra-226 (G) | U | 18 | U | | 200 | 302 satis. |
| Ac-228 (G) | U | 5.0 | U | | 200 | 302 satis. |
| Th-234 (G) | U | 31 | U | | 200 | 302 satis. |
| U-235 (G) | U | 6.5 | U | | 200 | 302 satis. |
| U-238 (G) | U | 130 | U | | 200 | 302 satis. |
| Am-241 (G) | U | 6.7 | U | | 200 | 302 satis. |
| H-3 | -73.7 ± 92 | 160 | -62.4 ± 94 | 160 | - | 0 satis. |
| Ra-226 | 0.111 ± 0.44 | 0.80 | -0.149 ± 0.46 | 0.96 | - | 0 satis. |
| Sr-90 | -0.108 ± 0.44 | 1.1 | 0.032 ± 0.30 | 0.58 | - | 0 satis. |
| Total U | 2.88 ± 0.32 | 0.022 | 2.75 ± 0.30 | 0.022 | 5 | 30 satis. |

SPIKED SAMPLE

| <u>Sample ID</u> | <u>Nuclide</u> | <u>Results ± 2σ</u> | <u>MDA</u> |
|------------------|----------------|---------------------|------------|
| 8682-005 | GrossAlpha | 225 ± 12 | 2.5 |
| | Gross Beta | 192 ± 4.5 | 2.4 |
| | H-3 | 15800 ± 310 | 160 |
| | Ra-226 | 124 ± 4.7 | 0.94 |
| | Total U | 120 ± 15 | 2.2 |

ORIGINAL SAMPLE

| <u>Sample ID</u> | <u>Results ± 2σ</u> | <u>MDA</u> | <u>Added</u> | <u>%Recv</u> |
|------------------|---------------------|------------|--------------|--------------|
| 8682-001 | 2.52 ± 2.0 | 2.4 | 163 | 136 |
| | 42.3 ± 2.4 | 2.4 | 145 | 103 |
| | -62.4 ± 94 | 160 | 16000 | 99 |
| | -0.149 ± 0.46 | 0.96 | 112 | 111 |
| | 2.75 ± 0.30 | 0.022 | 113 | 104 |

Certified by
 Report Date 02/22/08
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SUBCONTRACT ORDER

TestAmerica Irvine

IRA2349

8685

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:


Eberline Services - SUB
2030 Wright Avenue
Richmond, CA 94804
Phone : (510) 235-2633
Fax: (510) 235-0438
Project Location: California
Receipt Temperature: 8 °C Ice: (Y) / N


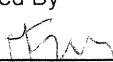
| Analysis | Units | Due | Expires | Comments |
|----------|-------|-----|---------|----------|
|----------|-------|-----|---------|----------|

| Sample ID: IRA2349-01 | Water | Sampled: 01/24/08 09:30 | | | ph=7.4. temp=47.8 |
|-----------------------|-------|-------------------------|----------------|---------------------------------------|-------------------|
| Gamma Spec-O | mg/kg | 02/04/08 | 01/23/09 09:30 | Out to Eberline, K-40 and CS-137 only | |
| Gross Alpha-O | pCi/L | 02/04/08 | 07/22/08 09:30 | Out to Eberline | |
| Gross Beta-O | pCi/L | 02/04/08 | 07/22/08 09:30 | Out to Eberline | |
| Level 4 + EDD-OUT | N/A | 02/04/08 | 02/21/08 09:30 | | |
| Radium, Combined-O | pCi/L | 02/04/08 | 01/23/09 09:30 | Out to Eberline | |
| Strontium 90-O | pCi/L | 02/04/08 | 01/23/09 09:30 | Out to Eberline | |
| Tritium-O | pCi/L | 02/04/08 | 01/23/09 09:30 | Out to Eberline | |
| Uranium, Combined-O | pCi/L | 02/04/08 | 01/23/09 09:30 | Out to Eberline | |

Containers Supplied:

2.5 gal Poly (K) 500 mL Amber (L)


 Released By _____ Date/Time 1/25/08 17:00


 Received By _____ Date/Time 1/25/08 17:00

 Received By _____ Date/Time 01/26/08 11:00

Released By _____

Date/Time _____

Received By _____

Date/Time _____

February 09, 2008

Vista Project I.D.: 30201

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

Dear Mr. Doak,

Enclosed are the results for the one aqueous sample received at Vista Analytical Laboratory on January 26, 2008 under your Project Name "IRA2349". This sample was extracted and analyzed using EPA Method 1613 for tetra-through-octa chlorinated dioxins and furans. A standard turnaround time was provided for this work.

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

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

Sincerely,



Martha M. Maier
Laboratory Director



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



Section I: Sample Inventory Report

Date Received: 1/26/2008

Vista Lab. ID

Client Sample ID

30201-001

IRA2349-01

SECTION II

| Method Blank | | | | | EPA Method 1613 | | | | |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix: | Aqueous | QC Batch No.: | 9917 | Lab Sample: | 0-MB001 | Date Analyzed DB-5: | 6-Feb-08 | Date Analyzed DB-225: | NA |
| Sample Size: | 1.00 L | Date Extracted: | 31-Jan-08 | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers | |
| 2,3,7,8-TCDD | ND | 0.000000997 | | | IS 13C-2,3,7,8-TCDD | 93.4 | 25 - 164 | | |
| 1,2,3,7,8-PeCDD | ND | 0.000000625 | | | 13C-1,2,3,7,8-PeCDD | 84.1 | 25 - 181 | | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000147 | | | 13C-1,2,3,4,7,8-HxCDD | 92.1 | 32 - 141 | | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000149 | | | 13C-1,2,3,6,7,8-HxCDD | 91.6 | 28 - 130 | | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000142 | | | 13C-1,2,3,4,6,7,8-HpCDD | 94.6 | 23 - 140 | | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000144 | | | 13C-OCDD | 78.5 | 17 - 157 | | |
| OCDD | ND | 0.00000845 | | | 13C-2,3,7,8-TCDF | 92.5 | 24 - 169 | | |
| 2,3,7,8-TCDF | ND | 0.000000679 | | | 13C-1,2,3,7,8-PeCDF | 79.3 | 24 - 185 | | |
| 1,2,3,7,8-PeCDF | ND | 0.000000815 | | | 13C-2,3,4,7,8-PeCDF | 77.4 | 21 - 178 | | |
| 2,3,4,7,8-PeCDF | ND | 0.000000838 | | | 13C-1,2,3,4,7,8-HxCDF | 93.1 | 26 - 152 | | |
| 1,2,3,4,7,8-HxCDF | ND | 0.000000635 | | | 13C-1,2,3,6,7,8-HxCDF | 88.7 | 26 - 123 | | |
| 1,2,3,6,7,8-HxCDF | ND | 0.000000689 | | | 13C-2,3,4,6,7,8-HxCDF | 87.8 | 28 - 136 | | |
| 2,3,4,6,7,8-HxCDF | ND | 0.000000752 | | | 13C-1,2,3,7,8,9-HxCDF | 97.5 | 29 - 147 | | |
| 1,2,3,7,8,9-HxCDF | ND | 0.000000910 | | | 13C-1,2,3,4,6,7,8-HpCDF | 85.2 | 28 - 143 | | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000116 | | | 13C-1,2,3,4,7,8,9-HpCDF | 90.7 | 26 - 138 | | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000122 | | | 13C-OCDF | 87.0 | 17 - 157 | | |
| OCDF | ND | 0.00000291 | | | CRS 37Cl-2,3,7,8-TCDD | 94.5 | 35 - 197 | | |
| Totals | | | | | Footnotes | | | | |
| Total TCDD | ND | 0.000000997 | | | a. Sample specific estimated detection limit. | | | | |
| Total PeCDD | ND | 0.00000191 | | | b. Estimated maximum possible concentration. | | | | |
| Total HxCDD | ND | 0.00000146 | | | c. Method detection limit. | | | | |
| Total HpCDD | ND | 0.00000353 | | | d. Lower control limit - upper control limit. | | | | |
| Total TCDF | ND | 0.000000679 | | | | | | | |
| Total PeCDF | ND | 0.000000826 | | | | | | | |
| Total HxCDF | ND | 0.000000742 | | | | | | | |
| Total HpCDF | ND | 0.00000118 | | | | | | | |

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 13:08

| OPR Results | | | | EPA Method 1613 | | | |
|---------------------|-------------|-----------------|------------|------------------------------|----------|-----------------------|-----------|
| Matrix: | Aqueous | QC Batch No.: | 9917 | Lab Sample: | 0-OPR001 | | |
| Sample Size: | 1.00 L | Date Extracted: | 31-Jan-08 | Date Analyzed DB-5: | 6-Feb-08 | Date Analyzed DB-225: | NA |
| Analyte | Spike Conc. | Conc. (ng/mL) | OPR Limits | Labeled Standard | %R | LCL-UCL | Qualifier |
| 2,3,7,8-TCDD | 10.0 | 10.4 | 6.7 - 15.8 | IS 13C-2,3,7,8-TCDD | 91.2 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | 50.0 | 48.9 | 35 - 71 | 13C-1,2,3,7,8-PeCDD | 83.6 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | 50.0 | 49.4 | 35 - 82 | 13C-1,2,3,4,7,8-HxCDD | 89.8 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | 50.0 | 50.2 | 38 - 67 | 13C-1,2,3,6,7,8-HxCDD | 86.1 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | 50.0 | 49.0 | 32 - 81 | 13C-1,2,3,4,6,7,8-HpCDD | 88.4 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | 50.0 | 49.9 | 35 - 70 | 13C-OCDD | 75.3 | 17 - 157 | |
| OCDD | 100 | 102 | 78 - 144 | 13C-2,3,7,8-TCDF | 88.0 | 24 - 169 | |
| 2,3,7,8-TCDF | 10.0 | 9.69 | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF | 76.4 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | 50.0 | 50.2 | 40 - 67 | 13C-2,3,4,7,8-PeCDF | 74.3 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | 50.0 | 52.2 | 34 - 80 | 13C-1,2,3,4,7,8-HxCDF | 87.1 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | 50.0 | 49.9 | 36 - 67 | 13C-1,2,3,6,7,8-HxCDF | 83.7 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | 50.0 | 50.4 | 42 - 65 | 13C-2,3,4,6,7,8-HxCDF | 84.8 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | 50.0 | 50.8 | 35 - 78 | 13C-1,2,3,7,8,9-HxCDF | 87.0 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | 50.0 | 50.0 | 39 - 65 | 13C-1,2,3,4,6,7,8-HpCDF | 80.8 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | 50.0 | 51.1 | 41 - 61 | 13C-1,2,3,4,7,8,9-HpCDF | 87.0 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | 50.0 | 50.1 | 39 - 69 | 13C-OCDF | 80.9 | 17 - 157 | |
| OCDF | 100 | 100 | 63 - 170 | CRS 37Cl-2,3,7,8-TCDD | 92.1 | 35 - 197 | |

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 13:08

| Sample ID: IRA2349-01 | | | | | EPA Method 1613 | | | |
|-----------------------|-------------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | |
| Name: | Test America-Irvine, CA | | Matrix: | Aqueous | Lab Sample: | 30201-001 | Date Received: | 26-Jan-08 |
| Project: | IRA2349 | | Sample Size: | 1.00 L | QC Batch No.: | 9917 | Date Extracted: | 31-Jan-08 |
| Date Collected: | 24-Jan-08 | | | | Date Analyzed DB-5: | 6-Feb-08 | Date Analyzed DB-225: | NA |
| Time Collected: | 0930 | | | | | | | |
| Analyte | Conc. (ug/L) | DL ^a | EMPC ^b | Qualifiers | Labeled Standard | %R | LCL-UCL ^d | Qualifiers |
| 2,3,7,8-TCDD | ND | 0.00000849 | | | IS 13C-2,3,7,8-TCDD | 94.2 | 25 - 164 | |
| 1,2,3,7,8-PeCDD | ND | 0.00000869 | | | 13C-1,2,3,7,8-PeCDD | 97.5 | 25 - 181 | |
| 1,2,3,4,7,8-HxCDD | ND | 0.00000187 | | | 13C-1,2,3,4,7,8-HxCDD | 91.3 | 32 - 141 | |
| 1,2,3,6,7,8-HxCDD | ND | 0.00000189 | | | 13C-1,2,3,6,7,8-HxCDD | 89.7 | 28 - 130 | |
| 1,2,3,7,8,9-HxCDD | ND | 0.00000180 | | | 13C-1,2,3,4,6,7,8-HpCDD | 97.5 | 23 - 140 | |
| 1,2,3,4,6,7,8-HpCDD | ND | 0.00000415 | | | 13C-OCDD | 78.4 | 17 - 157 | |
| OCDD | 0.0000298 | | | J | 13C-2,3,7,8-TCDF | 91.7 | 24 - 169 | |
| 2,3,7,8-TCDF | ND | 0.00000883 | | | 13C-1,2,3,7,8-PeCDF | 104 | 24 - 185 | |
| 1,2,3,7,8-PeCDF | ND | 0.00000642 | | | 13C-2,3,4,7,8-PeCDF | 88.4 | 21 - 178 | |
| 2,3,4,7,8-PeCDF | ND | 0.00000711 | | | 13C-1,2,3,4,7,8-HxCDF | 90.8 | 26 - 152 | |
| 1,2,3,4,7,8-HxCDF | ND | 0.00000562 | | | 13C-1,2,3,6,7,8-HxCDF | 86.0 | 26 - 123 | |
| 1,2,3,6,7,8-HxCDF | ND | 0.00000613 | | | 13C-2,3,4,6,7,8-HxCDF | 85.4 | 28 - 136 | |
| 2,3,4,6,7,8-HxCDF | ND | 0.00000678 | | | 13C-1,2,3,7,8,9-HxCDF | 90.4 | 29 - 147 | |
| 1,2,3,7,8,9-HxCDF | ND | 0.00000871 | | | 13C-1,2,3,4,6,7,8-HpCDF | 100 | 28 - 143 | |
| 1,2,3,4,6,7,8-HpCDF | ND | 0.00000899 | | | 13C-1,2,3,4,7,8,9-HpCDF | 90.4 | 26 - 138 | |
| 1,2,3,4,7,8,9-HpCDF | ND | 0.00000118 | | | 13C-OCDF | 88.4 | 17 - 157 | |
| OCDF | ND | 0.00000385 | | | CRS 37Cl-2,3,7,8-TCDD | 99.5 | 35 - 197 | |
| Totals | | | | | Footnotes | | | |
| Total TCDD | ND | 0.00000146 | | | a. Sample specific estimated detection limit. | | | |
| Total PeCDD | ND | 0.00000214 | | | b. Estimated maximum possible concentration. | | | |
| Total HxCDD | ND | 0.00000185 | | | c. Method detection limit. | | | |
| Total HpCDD | 0.00000483 | | | | d. Lower control limit - upper control limit. | | | |
| Total TCDF | ND | 0.00000883 | | | | | | |
| Total PeCDF | ND | 0.00000674 | | | | | | |
| Total HxCDF | ND | 0.00000674 | | | | | | |
| Total HpCDF | ND | 0.00000102 | | | | | | |

Analyst: MAS

Approved By: William J. Luksemburg 08-Feb-2008 13:08

APPENDIX

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

SUBCONTRACT ORDER

TestAmerica Irvine

IRA2349

30201

SENDING LABORATORY:

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

RECEIVING LABORATORY:

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

4.1°C

Ice: Y / N

| Analysis | Units | Due | Expires | Comments |
|-----------------------------|---------------|----------|----------------|--|
| Sample ID: IRA2349-01 | Water | | | Sampled: 01/24/08 09:30 ph=7.4. temp=47.8 |
| 1613-Dioxin-HR-Alta | ug/l | 02/04/08 | 01/31/08 09:30 | J flags, 17 congeners, no TEQ, ug/L, sub=Vista |
| Level 4 Data Package - Out | N/A | 02/04/08 | 02/21/08 09:30 | |
| <i>Containers Supplied:</i> | | | | |
| 1 L Amber (C) | 1 L Amber (D) | | | |



Released By

1/25/07 17:00

Date/Time

Fed Ex

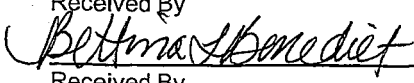
Received By

1/25/08 1700

Date/Time

Released By

Date/Time



Received By

1/28/08 0922

Date/Time

SAMPLE LOG-IN CHECKLIST



Vista Project #: 30201

TAT unspecified

| | | | |
|------------------|--|--------------------------------------|---|
| Samples Arrival: | Date/Time <u>1/26/08 0944</u> | Initials: <u>FEB</u> | Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u> |
| Logged In: | Date/Time <u>1/28/08 0923</u> | Initials: <u>UBB</u> | Location: <u>WR-2</u> Shelf/Rack: <u>B-2</u> |
| Delivered By: | <input checked="" type="radio"/> FedEx | <input type="radio"/> UPS | <input type="radio"/> Cal |
| | <input type="radio"/> DHL | <input type="radio"/> Hand Delivered | <input type="radio"/> Other |
| Preservation: | <input checked="" type="radio"/> Ice | <input type="radio"/> Blue Ice | <input type="radio"/> Dry Ice |
| | <input type="radio"/> None | | |
| Temp °C | <u>4.1</u> | Time: <u>0947</u> | Thermometer ID: <u>IR-1</u> |

| | YES | NO | NA |
|--|-----------------------------|---|--|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | Trk # <u>7909 2519 0739</u> | | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Na ₂ S ₂ O ₃ Preservation Documented? | | | None |
| Shipping Container | Vista | <input checked="" type="radio"/> Client | Retain <input checked="" type="radio"/> Return <input type="radio"/> Dispose |

Comments:

SUBCONTRACT ORDER

TestAmerica Irvine
IRA2349

8012534


SENDING LABORATORY:


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

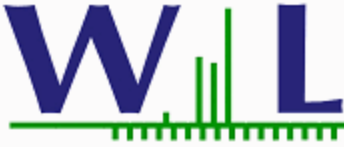
RECEIVING LABORATORY:

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

| Analysis | Units | Due | Expires | Comments |
|-----------------------------|-----------------|----------|-------------------------|--------------------------------------|
| Sample ID: IRA2349-01 | Water | | Sampled: 01/24/08 09:30 | ph=7.4. temp=47.8 |
| Level 4 Data Package - Weck | N/A | 02/04/08 | 02/21/08 09:30 | Out to weck |
| Mercury - 245.1, Diss -OUT | mg/l | 02/04/08 | 02/21/08 09:30 | Boeing, J flags/ Out to Weck |
| Mercury - 245.1-OUT | mg/l | 02/04/08 | 02/21/08 09:30 | Boeing, permit, J flags/ Out to Weck |
| <i>Containers Supplied:</i> | | | | |
| 125 mL Poly w/HNO3 | 125 mL Poly (O) | | | |
| (N) | | | | |


 Released By _____
 Date/Time 1/25/08 1007
 Released By _____
 Date/Time _____


 Received By _____
 Date/Time 01/25/08 7.3c
 Received By _____
 Date/Time _____



CERTIFICATE OF ANALYSIS

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

Report Date: 02/04/08 10:45
Received Date: 01/25/08 08:20
Turn Around: Normal

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

Work Order #: 8012534

Client Project: IRA2349

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

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

Dear Joseph Doak :

Enclosed are the results of analyses for samples received 01/25/08 08:20 with the Chain of Custody document. The samples were received in good condition. The samples were received at 7.3 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Reviewed by:

Kim G Tu

Project Manager





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

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

Report ID: 8012534
Project ID: IRA2349

Date Received: 01/25/08 08:20
Date Reported: 02/04/08 10:45

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Sampled by: | Sample Comments | Laboratory | Matrix | Date Sampled |
|------------|-------------|-----------------|------------|--------|----------------|
| IRA2349-01 | Client | | 8012534-01 | Water | 01/24/08 09:30 |



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

Report ID: 8012534
Project ID: IRA2349

Date Received: 01/25/08 08:20
Date Reported: 02/04/08 10:45

IRA2349-01 8012534-01 (Water)

Date Sampled: 01/24/08 09:30

Metals by EPA 200 Series Methods

| Analyte | Result | MDL | Units | Reporting Limit | Dilution Factor | Method | Batch Number | Date Prepared | Date Analyzed | Data Qualifiers |
|--------------------|--------|-------|-------|-----------------|-----------------|-----------|--------------|---------------|---------------|-----------------|
| Mercury, Dissolved | ND | 0.050 | ug/l | 0.20 | 1 | EPA 245.1 | W8A1076 | 01/30/08 | 01/31/08 | jlp |
| Mercury, Total | ND | 0.050 | ug/l | 0.20 | 1 | EPA 245.1 | W8A1076 | 01/30/08 | 01/31/08 | jlp |



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Irvine CA, 92614

Report ID: 8012534
Project ID: IRA2349

Date Received: 01/25/08 08:20
Date Reported: 02/04/08 10:45

QUALITY CONTROL SECTION



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

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

Report ID: 8012534
 Project ID: IRA2349

Date Received: 01/25/08 08:20
 Date Reported: 02/04/08 10:45

Metals by EPA 200 Series Methods - Quality Control

%REC

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

Batch W8A1076 - EPA 245.1

Blank (W8A1076-BLK1)

Analyzed: 01/31/08

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

LCS (W8A1076-BS1)

Analyzed: 01/31/08

| | | | | | | | | | | |
|--------------------|-------|------|------|------|--|----|--------|--|--|--|
| Mercury, Dissolved | 0.913 | 0.20 | ug/l | 1.00 | | 91 | 85-115 | | | |
| Mercury, Total | 0.913 | 0.20 | ug/l | 1.00 | | 91 | 85-115 | | | |

Matrix Spike (W8A1076-MS1)

Source: 8012935-01

Analyzed: 01/31/08

| | | | | | | | | | | |
|--------------------|-------|------|------|------|--------|----|--------|--|--|--|
| Mercury, Dissolved | 0.971 | 0.20 | ug/l | 1.00 | 0.0450 | 93 | 70-130 | | | |
| Mercury, Total | 0.971 | 0.20 | ug/l | 1.00 | 0.0450 | 93 | 70-130 | | | |

Matrix Spike (W8A1076-MS2)

Source: 8012939-01

Analyzed: 01/31/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|------|----|--------|--|--|--|
| Mercury, Dissolved | 2.01 | 0.20 | ug/l | 1.00 | 1.18 | 83 | 70-130 | | | |
| Mercury, Total | 2.01 | 0.20 | ug/l | 1.00 | 1.18 | 83 | 70-130 | | | |

Matrix Spike Dup (W8A1076-MSD1)

Source: 8012935-01

Analyzed: 01/31/08

| | | | | | | | | | | |
|--------------------|-------|------|------|------|--------|----|--------|---|----|--|
| Mercury, Dissolved | 0.957 | 0.20 | ug/l | 1.00 | 0.0450 | 91 | 70-130 | 1 | 20 | |
| Mercury, Total | 0.957 | 0.20 | ug/l | 1.00 | 0.0450 | 91 | 70-130 | 1 | 20 | |

Matrix Spike Dup (W8A1076-MSD2)

Source: 8012939-01

Analyzed: 01/31/08

| | | | | | | | | | | |
|--------------------|------|------|------|------|------|----|--------|---|----|--|
| Mercury, Dissolved | 1.99 | 0.20 | ug/l | 1.00 | 1.18 | 81 | 70-130 | 1 | 20 | |
| Mercury, Total | 1.99 | 0.20 | ug/l | 1.00 | 1.18 | 81 | 70-130 | 1 | 20 | |



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

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

Report ID: 8012534
Project ID: IRA2349

Date Received: 01/25/08 08:20
Date Reported: 02/04/08 10:45

Notes and Definitions

| | |
|-------|---|
| ND | NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL) |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |
| % Rec | Percent Recovery |
| Sub | Subcontracted analysis, original report available upon request |
| MDL | Method Detection Limit |
| MDA | Minimum Detectable Activity |

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

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

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

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