

# **APPENDIX G**

## **Section 4**

Outfall 002, February 16, 2009

Test America Analytical Laboratory Report

## LABORATORY REPORT

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

Project: Annual Outfall 002

Sampled: 02/16/09  
Received: 02/16/09  
Revised: 03/20/09 10:46

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

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

## SAMPLE CROSS REFERENCE

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

ADDITIONAL  
INFORMATION:

This report includes 608 Alpha BHC data from a secondary source for confirmation purposes due to contamination in the primary laboratory. Please see corrective action.

This is a revised report to correct the Dissolved antimony result originally reported from the wrong batch and to report the reanalysis of dissolved copper.

**LABORATORY ID**

ISB1796-01

ISB1796-02

**CLIENT ID**

Outfall 002

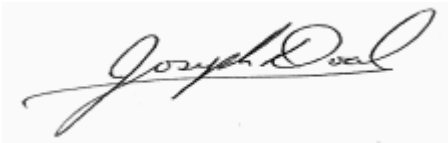
Trip Blanks

**MATRIX**

Water

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## CORRECTIVE ACTION REPORT

Department: Extractions

Date: 02/26/2009

Method: EPA 608

Matrix: Water

QC Batch: 9B20074

### Identification and Definition of Problem:

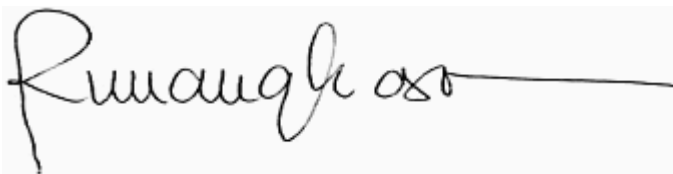
Alpha-BHC was reported as a false positive for samples in batches 9B12048, 9B20074 and 9B23113.

### Determination of the Cause of the Problem:

A cause for the error was due to laboratory/equipment contamination during extraction process.

### Corrective Action Taken:

The rinsing system for glassware using acid rinse has been established to prevent future carry over from contamination. Also glassware has been ordered as immediate response to solve this issue. All samples were re-extracted and re-analyzed to confirm the contamination level. Samples ISB0755-01, ISB0825-01, ISB1699-01 and ISB1703-01 were re-extracted past the method holding time. All other samples were re-extracted within the holding time. Only samples ISB1699-01, ISB1786-01, ISB1787-01 and ISB2105-01 remained as positive hits. Both results are reported with Corrective Action Report.



Quality Assurance Approval:

Rima Angkasa

Date: 03/09/2009 12:36 PM

### TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## CORRECTIVE ACTION REPORT

Department: Metals

Date: 03/19/2009

Method: EPA 200.8-Diss, EPA 200.8

Matrix: Water

QC Batch: 9B20106, 9B23088

### Identification and Definition of Problem:

The result for dissolved copper in ISB1796-01 was more than twice that reported for total copper.

### Determination of the Cause of the Problem:

The dissolved sample was apparently contaminated with copper during the digestion procedure and the discrepancy between dissolved and total was not caught during data review.

### Corrective Action Taken:

The sample was re-digested and re-analyzed for both total and dissolved copper. The total result was similar to that originally reported but the dissolved was over six times lower and less than the total. Analysts have been retrained on correct data review procedures.

Quality Assurance Approval:



Dave Dawes

Date: 03/20/2009 10:27 AM

### TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## CORRECTIVE ACTION REPORT

Department: Metals

Date: 03/19/2009

Method: EPA 200.8-Diss

Matrix: Water

QC Batch: 9B20106

### Identification and Definition of Problem:

The result for dissolved antimony on samples ISB1787-01 and ISB1796-01 were reported incorrectly.

### Determination of the Cause of the Problem:

Due to analyst error, the dissolved results were reported from the total results.

### Corrective Action Taken:

The reports were revised to replace the incorrectly reported data. Correct review procedures have been reviewed with analysts.

Quality Assurance Approval:



Dave Dawes

Date: 03/20/2009 10:34 AM

### TestAmerica Irvine

Joseph Doak  
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## EXTRACTABLE FUEL HYDROCARBONS (CADHS/8015 Modified)

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water)</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                              |           |         |           |                 |               |                 |                |               |                 |
| DRO (C13 - C28)                                    | EPA 8015B | 9B19076 | 0.047     | 0.094           | ND            | 0.943           | 02/19/09       | 02/20/09      |                 |
| Surrogate: n-Octacosane (40-125%)                  |           |         |           |                 | 73 %          |                 |                |               |                 |

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.*

ISB1796 <Page 5 of 77>  
NPDES - 357

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

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

| Analyte  | Method        | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |               |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                      |               |         |           |                 |               |                 |                |               |                 |
| GRO (C4 - C12)   | EPA 8015 Mod. | 9B19055 | 0.025     | 0.10            | ND            | 1               | 02/19/09       | 02/19/09      |                 |
| Surrogate: 4-BFB (FID) (65-140%)                           |               |         |           |                 | 76 %          |                 |                |               |                 |

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.*

ISB1796 <Page 6 of 77>  
NPDES - 358

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## PURGEABLES BY GC/MS (EPA 624)

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: ug/l</b>                               |         |         |           |                 |               |                 |                |               |                 |
| Benzene  | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromodichloromethane                                       | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromoform  | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromomethane   | EPA 624 | 9B17010 | 0.42      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Carbon tetrachloride                                       | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chlorobenzene  | EPA 624 | 9B17010 | 0.36      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloroethane   | EPA 624 | 9B17010 | 0.40      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloroform   | EPA 624 | 9B17010 | 0.33      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloromethane  | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Dibromochloromethane                                       | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichlorobenzene  | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,3-Dichlorobenzene  | EPA 624 | 9B17010 | 0.35      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,4-Dichlorobenzene  | EPA 624 | 9B17010 | 0.37      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1-Dichloroethane   | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichloroethane   | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1-Dichloroethene   | EPA 624 | 9B17010 | 0.42      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| trans-1,2-Dichloroethene                                   | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichloropropane  | EPA 624 | 9B17010 | 0.35      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| cis-1,3-Dichloropropene                                    | EPA 624 | 9B17010 | 0.22      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      | L               |
| trans-1,3-Dichloropropene                                  | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Ethylbenzene   | EPA 624 | 9B17010 | 0.25      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Methylene chloride   | EPA 624 | 9B17010 | 0.95      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,2,2-Tetrachloroethane                                  | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Tetrachloroethene  | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Toluene  | EPA 624 | 9B17010 | 0.36      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,1-Trichloroethane                                      | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,2-Trichloroethane                                      | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichloroethene  | EPA 624 | 9B17010 | 0.26      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichlorofluoromethane                                     | EPA 624 | 9B17010 | 0.34      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichlorotrifluoroethane (Freon 113)                       | EPA 624 | 9B17010 | 0.50      | 5.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Vinyl chloride   | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Xylenes, Total   | EPA 624 | 9B17010 | 0.90      | 1.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>           |         |         |           |                 | 89 %          |                 |                |               |                 |
| <i>Surrogate: Dibromofluoromethane (80-120%)</i>           |         |         |           |                 | 101 %         |                 |                |               |                 |
| <i>Surrogate: Toluene-d8 (80-120%)</i>                     |         |         |           |                 | 99 %          |                 |                |               |                 |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## PURGEABLES BY GC/MS (EPA 624)

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-02 (Trip Blanks - Water)</b> |         |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: ug/l</b>                       |         |         |           |                 |               |                 |                |               |                 |
| Benzene  | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromodichloromethane                               | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromoform  | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Bromomethane                                       | EPA 624 | 9B17010 | 0.42      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Carbon tetrachloride                               | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chlorobenzene                                      | EPA 624 | 9B17010 | 0.36      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloroethane                                       | EPA 624 | 9B17010 | 0.40      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloroform   | EPA 624 | 9B17010 | 0.33      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chloromethane                                      | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Dibromochloromethane                               | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichlorobenzene                                | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,3-Dichlorobenzene                                | EPA 624 | 9B17010 | 0.35      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,4-Dichlorobenzene                                | EPA 624 | 9B17010 | 0.37      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1-Dichloroethane                                 | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichloroethane                                 | EPA 624 | 9B17010 | 0.28      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1-Dichloroethene                                 | EPA 624 | 9B17010 | 0.42      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| trans-1,2-Dichloroethene                           | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,2-Dichloropropane                                | EPA 624 | 9B17010 | 0.35      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| cis-1,3-Dichloropropene                            | EPA 624 | 9B17010 | 0.22      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      | L               |
| trans-1,3-Dichloropropene                          | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Ethylbenzene                                       | EPA 624 | 9B17010 | 0.25      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Methylene chloride                                 | EPA 624 | 9B17010 | 0.95      | 1.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,2,2-Tetrachloroethane                          | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Tetrachloroethene                                  | EPA 624 | 9B17010 | 0.32      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Toluene  | EPA 624 | 9B17010 | 0.36      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,1-Trichloroethane                              | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| 1,1,2-Trichloroethane                              | EPA 624 | 9B17010 | 0.30      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichloroethene                                    | EPA 624 | 9B17010 | 0.26      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichlorofluoromethane                             | EPA 624 | 9B17010 | 0.34      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Trichlorotrifluoroethane (Freon 113)               | EPA 624 | 9B17010 | 0.50      | 5.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Vinyl chloride                                     | EPA 624 | 9B17010 | 0.40      | 0.50            | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Xylenes, Total                                     | EPA 624 | 9B17010 | 0.90      | 1.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>   |         |         |           |                 | 89 %          |                 |                |               |                 |
| <i>Surrogate: Dibromofluoromethane (80-120%)</i>   |         |         |           |                 | 97 %          |                 |                |               |                 |
| <i>Surrogate: Toluene-d8 (80-120%)</i>             |         |         |           |                 | 100 %         |                 |                |               |                 |

**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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## PURGEABLES-- GC/MS (EPA 624)

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water)</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                              |         |         |           |                 |               |                 |                |               |                 |
| Acrolein   | EPA 624 | 9B18010 | 4.0       | 5.0             | ND            | 1               | 02/18/09       | 02/18/09      | C               |
| Acrylonitrile                                      | EPA 624 | 9B18010 | 0.70      | 2.0             | ND            | 1               | 02/18/09       | 02/18/09      | C               |
| 2-Chloroethyl vinyl ether                          | EPA 624 | 9B18010 | 1.8       | 5.0             | ND            | 1               | 02/18/09       | 02/18/09      |                 |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>   |         |         |           |                 | 89 %          |                 |                |               |                 |
| <i>Surrogate: Dibromofluoromethane (80-120%)</i>   |         |         |           |                 | 95 %          |                 |                |               |                 |
| <i>Surrogate: Toluene-d8 (80-120%)</i>             |         |         |           |                 | 99 %          |                 |                |               |                 |
| <b>Sample ID: ISB1796-02 (Trip Blanks - Water)</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                              |         |         |           |                 |               |                 |                |               |                 |
| Acrolein   | EPA 624 | 9B18010 | 4.0       | 5.0             | ND            | 1               | 02/18/09       | 02/18/09      | C               |
| Acrylonitrile                                      | EPA 624 | 9B18010 | 0.70      | 2.0             | ND            | 1               | 02/18/09       | 02/18/09      | C               |
| 2-Chloroethyl vinyl ether                          | EPA 624 | 9B18010 | 1.8       | 5.0             | ND            | 1               | 02/18/09       | 02/18/09      |                 |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i>   |         |         |           |                 | 88 %          |                 |                |               |                 |
| <i>Surrogate: Dibromofluoromethane (80-120%)</i>   |         |         |           |                 | 97 %          |                 |                |               |                 |
| <i>Surrogate: Toluene-d8 (80-120%)</i>             |         |         |           |                 | 99 %          |                 |                |               |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

| Analyte  | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water)</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                              |                |         |           |                 |               |                 |                |               |                 |
| Cyclohexane  | EPA 624 (MOD.) | 9B17010 | N/A       | 2.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| freon 123a   | EPA 624 (MOD.) | 9B17010 | N/A       | 2.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| <b>Sample ID: ISB1796-02 (Trip Blanks - Water)</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                              |                |         |           |                 |               |                 |                |               |                 |
| Cyclohexane  | EPA 624 (MOD.) | 9B17010 | N/A       | 2.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| freon 123a   | EPA 624 (MOD.) | 9B17010 | N/A       | 2.5             | ND            | 1               | 02/17/09       | 02/17/09      |                 |

**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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

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

| Analyte  | Method        | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water)</b> |               |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                              |               |         |           |                 |               |                 |                |               |                 |
| 1,4-Dioxane  | EPA 8260B-SIM | 9B17013 | 1.0       | 2.0             | ND            | 1               | 02/17/09       | 02/18/09      |                 |
| Surrogate: Dibromofluoromethane (80-120%)          |               |         |           |                 | 96 %          |                 |                |               |                 |

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.*

ISB1796 <Page 11 of 77>  
NPDES - 363

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

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

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: ug/l</b>                               |         |         |           |                 |               |                 |                |               |                 |
| Acenaphthene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Acenaphthylene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Aniline  | EPA 625 | 9B21046 | 0.30      | 9.9             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Anthracene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzidine  | EPA 625 | 9B21046 | N/A       | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzo(a)anthracene   | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzo(a)pyrene   | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzo(b)fluoranthene                                       | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzo(g,h,i)perylene                                       | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzo(k)fluoranthene                                       | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzoic acid   | EPA 625 | 9B21046 | 3.0       | 20              | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Benzyl alcohol   | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Bromophenyl phenyl ether                                 | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| <b>Butyl benzyl phthalate</b>                              | EPA 625 | 9B21046 | 0.69      | 5.0             | <b>1.2</b>    | 0.99            | 02/21/09       | 02/24/09      | Ja, B           |
| 4-Chloro-3-methylphenol                                    | EPA 625 | 9B21046 | 0.20      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Chloroaniline  | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Bis(2-chloroethoxy)methane                                 | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Bis(2-chloroethyl)ether                                    | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Bis(2-chloroisopropyl)ether                                | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Bis(2-ethylhexyl)phthalate                                 | EPA 625 | 9B21046 | 1.7       | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2-Chloronaphthalene  | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2-Chlorophenol   | EPA 625 | 9B21046 | 0.20      | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Chlorophenyl phenyl ether                                | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Chrysene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Dibenz(a,h)anthracene                                      | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Dibenzofuran   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Di-n-butyl phthalate                                       | EPA 625 | 9B21046 | 0.20      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 1,2-Dichlorobenzene  | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 1,3-Dichlorobenzene  | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 1,4-Dichlorobenzene  | EPA 625 | 9B21046 | 0.20      | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 3,3'-Dichlorobenzidine                                     | EPA 625 | 9B21046 | N/A       | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,4-Dichlorophenol   | EPA 625 | 9B21046 | 0.20      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| <b>Diethyl phthalate</b>                                   | EPA 625 | 9B21046 | 0.099     | 0.99            | <b>0.12</b>   | 0.99            | 02/21/09       | 02/24/09      | Ja              |
| 2,4-Dimethylphenol   | EPA 625 | 9B21046 | 0.30      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Dimethyl phthalate   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4,6-Dinitro-2-methylphenol                                 | EPA 625 | 9B21046 | 0.20      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,4-Dinitrophenol  | EPA 625 | 9B21046 | 0.89      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,4-Dinitrotoluene   | EPA 625 | 9B21046 | 0.20      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,6-Dinitrotoluene   | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Di-n-octyl phthalate                                       | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 1,2-Diphenylhydrazine/Azobenzene                           | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

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

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| <b>Reporting Units: ug/l</b>                               |         |         |           |                 |               |                 |                |               |                 |
| Fluoranthene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Fluorene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Hexachlorobenzene  | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Hexachlorobutadiene  | EPA 625 | 9B21046 | 0.20      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Hexachlorocyclopentadiene                                  | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Hexachloroethane   | EPA 625 | 9B21046 | 0.20      | 3.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Indeno(1,2,3-cd)pyrene                                     | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| <b>Isophorone</b>  | EPA 625 | 9B21046 | 0.099     | 0.99            | <b>0.12</b>   | 0.99            | 02/21/09       | 02/24/09      | Ja              |
| 2-Methylnaphthalene  | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2-Methylphenol   | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Methylphenol   | EPA 625 | 9B21046 | 0.20      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Naphthalene  | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2-Nitroaniline   | EPA 625 | 9B21046 | 0.099     | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 3-Nitroaniline   | EPA 625 | 9B21046 | 0.20      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Nitroaniline   | EPA 625 | 9B21046 | 0.50      | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Nitrobenzene   | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2-Nitrophenol  | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 4-Nitrophenol  | EPA 625 | 9B21046 | 2.5       | 5.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| N-Nitroso-di-n-propylamine                                 | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| N-Nitrosodimethylamine                                     | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| N-Nitrosodiphenylamine                                     | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Pentachlorophenol  | EPA 625 | 9B21046 | 0.099     | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Phenanthrene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Phenol   | EPA 625 | 9B21046 | 0.30      | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Pyrene   | EPA 625 | 9B21046 | 0.099     | 0.50            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 1,2,4-Trichlorobenzene                                     | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,4,5-Trichlorophenol                                      | EPA 625 | 9B21046 | 0.20      | 2.0             | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| 2,4,6-Trichlorophenol                                      | EPA 625 | 9B21046 | 0.099     | 0.99            | ND            | 0.99            | 02/21/09       | 02/24/09      |                 |
| Surrogate: 2,4,6-Tribromophenol (40-120%)                  |         |         |           |                 | 79 %          |                 |                |               |                 |
| Surrogate: 2-Fluorobiphenyl (50-120%)                      |         |         |           |                 | 76 %          |                 |                |               |                 |
| Surrogate: 2-Fluorophenol (30-120%)                        |         |         |           |                 | 67 %          |                 |                |               |                 |
| Surrogate: Nitrobenzene-d5 (45-120%)                       |         |         |           |                 | 77 %          |                 |                |               |                 |
| Surrogate: Phenol-d6 (35-120%)                             |         |         |           |                 | 55 %          |                 |                |               |                 |
| Surrogate: Terphenyl-d14 (50-125%)                         |         |         |           |                 | 91 %          |                 |                |               |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                      |         |         |           |                 |               |                 |                |               |                 |
| 4,4'-DDD   | EPA 608 | 9B20074 | 0.0019    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| 4,4'-DDE   | EPA 608 | 9B20074 | 0.0029    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| 4,4'-DDT   | EPA 608 | 9B20074 | 0.0038    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Aldrin   | EPA 608 | 9B20074 | 0.0014    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| <b>alpha-BHC</b>   | EPA 608 | 9B20074 | 0.0024    | 0.0095          | <b>0.010</b>  | 0.952           | 02/20/09       | 02/22/09      | N2              |
| beta-BHC   | EPA 608 | 9B20074 | 0.0038    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| delta-BHC  | EPA 608 | 9B20074 | 0.0033    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Dieldrin   | EPA 608 | 9B20074 | 0.0019    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Endosulfan I   | EPA 608 | 9B20074 | 0.0019    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Endosulfan II  | EPA 608 | 9B20074 | 0.0029    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Endosulfan sulfate   | EPA 608 | 9B20074 | 0.0029    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Endrin   | EPA 608 | 9B20074 | 0.0019    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Endrin aldehyde  | EPA 608 | 9B20074 | 0.0019    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      | C               |
| Endrin ketone  | EPA 608 | 9B20074 | 0.0029    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| gamma-BHC (Lindane)  | EPA 608 | 9B20074 | 0.0029    | 0.019           | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Heptachlor   | EPA 608 | 9B20074 | 0.0029    | 0.0095          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Heptachlor epoxide   | EPA 608 | 9B20074 | 0.0024    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Methoxychlor   | EPA 608 | 9B20074 | 0.0033    | 0.0048          | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Chlordane  | EPA 608 | 9B20074 | 0.038     | 0.095           | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Toxaphene  | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/22/09      |                 |
| Surrogate: Decachlorobiphenyl (45-120%)                    |         |         |           |                 | 73 %          |                 |                |               |                 |
| Surrogate: Tetrachloro-m-xylene (35-115%)                  |         |         |           |                 | 62 %          |                 |                |               |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte   | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01RE1 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l   |         |         |           |                 |               |                 |                |               |                 |
| 4,4'-DDD  | EPA 608 | 9B23113 | 0.0019    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| 4,4'-DDE  | EPA 608 | 9B23113 | 0.0029    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| 4,4'-DDT  | EPA 608 | 9B23113 | 0.0038    | 0.0095          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Aldrin  | EPA 608 | 9B23113 | 0.0014    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| <b>alpha-BHC</b>  | EPA 608 | 9B23113 | 0.0024    | 0.0095          | <b>0.0034</b> | 0.952           | 02/23/09       | 02/25/09      | Ja, N2          |
| <b>beta-BHC</b>   | EPA 608 | 9B23113 | 0.0038    | 0.0095          | <b>0.0042</b> | 0.952           | 02/23/09       | 02/25/09      | Ja              |
| delta-BHC   | EPA 608 | 9B23113 | 0.0033    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Dieldrin  | EPA 608 | 9B23113 | 0.0019    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endosulfan I  | EPA 608 | 9B23113 | 0.0019    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endosulfan II   | EPA 608 | 9B23113 | 0.0029    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endosulfan sulfate  | EPA 608 | 9B23113 | 0.0029    | 0.0095          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endrin  | EPA 608 | 9B23113 | 0.0019    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endrin aldehyde   | EPA 608 | 9B23113 | 0.0019    | 0.0095          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Endrin ketone   | EPA 608 | 9B23113 | 0.0029    | 0.0095          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| gamma-BHC (Lindane)   | EPA 608 | 9B23113 | 0.0029    | 0.019           | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Heptachlor  | EPA 608 | 9B23113 | 0.0029    | 0.0095          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Heptachlor epoxide  | EPA 608 | 9B23113 | 0.0024    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Methoxychlor  | EPA 608 | 9B23113 | 0.0033    | 0.0048          | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Chlordane   | EPA 608 | 9B23113 | 0.038     | 0.095           | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Toxaphene   | EPA 608 | 9B23113 | 0.24      | 0.48            | ND            | 0.952           | 02/23/09       | 02/25/09      |                 |
| Surrogate: Decachlorobiphenyl (45-120%)                       |         |         |           |                 | 82 %          |                 |                |               |                 |
| Surrogate: Tetrachloro-m-xylene (35-115%)                     |         |         |           |                 | 76 %          |                 |                |               |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## TOTAL PCBS (EPA 608)

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                      |         |         |           |                 |               |                 |                |               |                 |
| Aroclor 1016   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1221   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1232   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1242   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1248   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1254   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Aroclor 1260   | EPA 608 | 9B20074 | 0.24      | 0.48            | ND            | 0.952           | 02/20/09       | 02/21/09      |                 |
| Surrogate: Decachlorobiphenyl (45-120%)                    |         |         |           |                 | 85 %          |                 |                |               |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## HEXANE EXTRACTABLE MATERIAL

| Analyte  | Method    | Batch   | MDL<br>Limit | Reporting<br>Limit | Sample<br>Result | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Data<br>Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |              |                    |                  |                    |                   |                  |                    |
| Reporting Units: mg/l                                      |           |         |              |                    |                  |                    |                   |                  |                    |
| Hexane Extractable Material (Oil & Grease)                 | EPA 1664A | 9B24074 | 1.3          | 4.7                | 1.8              | 1                  | 02/24/09          | 02/24/09         | Ja                 |

**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.*

**ISB1796 <Page 17 of 77>**  
**NPDES - 369**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## METALS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                      |           |         |           |                 |               |                 |                |               |                 |
| Hardness as CaCO3  | SM2340B   | [CALC]  | N/A       | 0.33            | <b>100</b>    | 1               | 02/17/09       | 02/17/09      |                 |
| Barium   | EPA 200.7 | 9B17091 | 0.0060    | 0.010           | <b>0.13</b>   | 1               | 02/17/09       | 02/17/09      |                 |
| Boron  | EPA 200.7 | 9B17091 | 0.020     | 0.050           | <b>0.052</b>  | 1               | 02/17/09       | 02/17/09      |                 |
| Calcium  | EPA 200.7 | 9B17091 | 0.050     | 0.10            | <b>25</b>     | 1               | 02/17/09       | 02/17/09      |                 |
| Iron   | EPA 200.7 | 9B17091 | 0.015     | 0.040           | <b>17</b>     | 1               | 02/17/09       | 02/17/09      |                 |
| Magnesium  | EPA 200.7 | 9B17091 | 0.012     | 0.020           | <b>9.9</b>    | 1               | 02/17/09       | 02/17/09      |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METALS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                      |           |         |           |                 |               |                 |                |               |                 |
| Arsenic  | EPA 200.7 | 9B17091 | 7.0       | 10              | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Antimony   | EPA 200.8 | 9B23088 | 0.20      | 2.0             | <b>0.28</b>   | 1               | 02/23/09       | 02/24/09      | Ja              |
| Beryllium  | EPA 200.7 | 9B17091 | 0.90      | 2.0             | ND            | 1               | 02/17/09       | 02/17/09      |                 |
| Chromium   | EPA 200.7 | 9B17091 | 2.0       | 5.0             | <b>20</b>     | 1               | 02/17/09       | 02/17/09      | B               |
| Cobalt   | EPA 200.7 | 9B17091 | 2.0       | 10              | <b>4.8</b>    | 1               | 02/17/09       | 02/17/09      | Ja              |
| Manganese  | EPA 200.7 | 9B17091 | 7.0       | 20              | <b>240</b>    | 1               | 02/17/09       | 02/17/09      |                 |
| Nickel   | EPA 200.7 | 9B17091 | 2.0       | 10              | <b>13</b>     | 1               | 02/17/09       | 02/17/09      | B               |
| Cadmium  | EPA 200.8 | 9B23088 | 0.11      | 1.0             | <b>0.14</b>   | 1               | 02/23/09       | 02/24/09      | Ja              |
| Vanadium   | EPA 200.7 | 9B17091 | 3.0       | 10              | <b>36</b>     | 1               | 02/17/09       | 02/17/09      |                 |
| Zinc   | EPA 200.7 | 9B17091 | 6.0       | 20              | <b>56</b>     | 1               | 02/17/09       | 02/17/09      |                 |
| Copper   | EPA 200.8 | 9B23088 | 0.75      | 2.0             | <b>10</b>     | 1               | 02/23/09       | 02/24/09      |                 |
| Lead   | EPA 200.8 | 9B23088 | 0.30      | 1.0             | <b>11</b>     | 1               | 02/23/09       | 02/24/09      |                 |
| Selenium   | EPA 200.8 | 9B23088 | 0.30      | 2.0             | ND            | 1               | 02/23/09       | 02/24/09      |                 |
| Silver   | EPA 200.8 | 9B23088 | 0.30      | 1.0             | ND            | 1               | 02/23/09       | 02/24/09      |                 |
| Thallium   | EPA 200.8 | 9B23088 | 0.20      | 1.0             | ND            | 1               | 02/23/09       | 02/24/09      | C               |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## DISSOLVED METALS

| Analyte  | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                      |                |         |           |                 |               |                 |                |               |                 |
| Hardness as CaCO3  | SM2340B-Diss   | [CALC]  | N/A       | 0.33            | <b>68</b>     | 1               | 02/20/09       | 02/23/09      |                 |
| Barium   | EPA 200.7-Diss | 9B20105 | 0.0060    | 0.010           | <b>0.020</b>  | 1               | 02/20/09       | 02/23/09      |                 |
| Boron  | EPA 200.7-Diss | 9B20105 | 0.020     | 0.050           | <b>0.046</b>  | 1               | 02/20/09       | 02/24/09      | Ja              |
| Calcium  | EPA 200.7-Diss | 9B20105 | 0.050     | 0.10            | <b>18</b>     | 1               | 02/20/09       | 02/23/09      |                 |
| Iron   | EPA 200.7-Diss | 9B20105 | 0.015     | 0.040           | <b>0.45</b>   | 1               | 02/20/09       | 02/23/09      |                 |
| Magnesium  | EPA 200.7-Diss | 9B20105 | 0.012     | 0.020           | <b>5.3</b>    | 1               | 02/20/09       | 02/23/09      |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## DISSOLVED METALS

| Analyte  | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                      |                |         |           |                 |               |                 |                |               |                 |
| Arsenic  | EPA 200.7-Diss | 9B20105 | 7.0       | 10              | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| <b>Antimony</b>  | EPA 200.8-Diss | 9B20106 | 0.20      | 2.0             | <b>0.25</b>   | 1               | 02/20/09       | 02/25/09      | Ja              |
| Beryllium  | EPA 200.7-Diss | 9B20105 | 0.90      | 2.0             | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Chromium   | EPA 200.7-Diss | 9B20105 | 2.0       | 5.0             | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Cobalt   | EPA 200.7-Diss | 9B20105 | 2.0       | 10              | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| <b>Manganese</b>   | EPA 200.7-Diss | 9B20105 | 7.0       | 20              | <b>15</b>     | 1               | 02/20/09       | 02/23/09      | Ja              |
| Nickel   | EPA 200.7-Diss | 9B20105 | 2.0       | 10              | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Cadmium  | EPA 200.8-Diss | 9B20106 | 0.11      | 1.0             | ND            | 1               | 02/20/09       | 02/23/09      | C               |
| Vanadium   | EPA 200.7-Diss | 9B20105 | 3.0       | 10              | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Zinc   | EPA 200.7-Diss | 9B20105 | 6.0       | 20              | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Lead   | EPA 200.8-Diss | 9B20106 | 0.30      | 1.0             | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| <b>Selenium</b>  | EPA 200.8-Diss | 9B20106 | 0.30      | 2.0             | <b>0.34</b>   | 1               | 02/20/09       | 02/23/09      | Ja              |
| Silver   | EPA 200.8-Diss | 9B20106 | 0.30      | 1.0             | ND            | 1               | 02/20/09       | 02/23/09      |                 |
| Thallium   | EPA 200.8-Diss | 9B20106 | 0.20      | 1.0             | ND            | 1               | 02/20/09       | 02/23/09      | C               |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## DISSOLVED METALS

| Analyte   | Method         | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|----------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01RE1 (Outfall 002 - Water) - cont.</b> |                |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l   |                |         |           |                 |               |                 |                |               |                 |
| Copper  | EPA 200.8-Diss | 9B20106 | 0.75      | 2.0             | 3.6           | 1               | 02/20/09       | 03/19/09      |                 |

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.*

ISB1796 <Page 22 of 77>  
NPDES - 374

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## INORGANICS

| Analyte  | Method        | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |               |         |           |                 |               |                 |                |               |                 |
| Reporting Units: mg/l                                      |               |         |           |                 |               |                 |                |               |                 |
| Ammonia-N (Distilled)                                      | SM4500NH3-C   | 9B24128 | 0.50      | 0.50            | <b>0.56</b>   | 1               | 02/24/09       | 02/24/09      |                 |
| Biochemical Oxygen Demand                                  | SM5210B       | 9B17129 | 0.50      | 2.0             | <b>3.4</b>    | 1               | 02/17/09       | 02/22/09      |                 |
| Chloride   | EPA 300.0     | 9B16057 | 0.25      | 0.50            | <b>9.5</b>    | 1               | 02/16/09       | 02/16/09      |                 |
| Total Cyanide  | SM4500-CN-C,E | 9B16095 | 0.0022    | 0.0050          | ND            | 1               | 02/16/09       | 02/16/09      |                 |
| Fluoride   | SM 4500-F-C   | 9B20008 | 0.020     | 0.10            | <b>0.20</b>   | 1               | 02/20/09       | 02/20/09      | B               |
| Nitrate-N  | EPA 300.0     | 9B16057 | 0.060     | 0.11            | <b>2.7</b>    | 1               | 02/16/09       | 02/16/09      |                 |
| Nitrite-N  | EPA 300.0     | 9B16057 | 0.090     | 0.15            | ND            | 1               | 02/16/09       | 02/16/09      |                 |
| Nitrate/Nitrite-N  | EPA 300.0     | 9B16057 | 0.15      | 0.26            | <b>2.7</b>    | 1               | 02/16/09       | 02/16/09      |                 |
| Residual Chlorine  | EPA 330.5     | 9B17105 | 0.20      | 0.20            | ND            | 2               | 02/17/09       | 02/17/09      | HFT, RL1        |
| Sulfate  | EPA 300.0     | 9B16057 | 0.20      | 0.50            | <b>39</b>     | 1               | 02/16/09       | 02/16/09      |                 |
| Surfactants (MBAS)   | SM5540-C      | 9B17098 | 0.025     | 0.10            | <b>0.029</b>  | 1               | 02/17/09       | 02/17/09      | Ja              |
| Total Dissolved Solids                                     | SM2540C       | 9B18065 | 10        | 10              | <b>190</b>    | 1               | 02/18/09       | 02/18/09      |                 |
| Total Organic Carbon                                       | SM5310B       | 9B24001 | 0.50      | 1.0             | <b>17</b>     | 1               | 02/24/09       | 02/24/09      |                 |
| Total Suspended Solids                                     | SM 2540D      | 9B21068 | 1.0       | 10              | <b>220</b>    | 1               | 02/21/09       | 02/21/09      |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## INORGANICS

| Analyte  | Method  | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|---------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |         |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ml/l                                      |         |         |           |                 |               |                 |                |               |                 |
| Total Settleable Solids                                    | SM2540F | 9B17065 | 0.10      | 0.10            | <b>0.15</b>   | 1               | 02/17/09       | 02/17/09      |                 |

**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.*

**ISB1796 <Page 24 of 77>**  
**NPDES - 376**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## INORGANICS

| Analyte  | Method    | Batch   | MDL<br>Limit | Reporting<br>Limit | Sample<br>Result | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Data<br>Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |              |                    |                  |                    |                   |                  |                    |
| Reporting Units: NTU                                       |           |         |              |                    |                  |                    |                   |                  |                    |
| Turbidity  | EPA 180.1 | 9B17067 | 0.80         | 20                 | 310              | 20                 | 02/17/09          | 02/17/09         |                    |

**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.*

**ISB1796 <Page 25 of 77>**  
**NPDES - 377**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## INORGANICS

| Analyte  | Method    | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/l                                      |           |         |           |                 |               |                 |                |               |                 |
| Chromium VI  | EPA 218.6 | 9B16073 | 0.25      | 1.0             | ND            | 1               | 02/16/09       | 02/16/09      | M1              |
| Perchlorate  | EPA 314.0 | 9B18101 | 0.90      | 1.0             | ND            | 1               | 02/18/09       | 02/18/09      |                 |

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.*

**ISB1796 <Page 26 of 77>**  
**NPDES - 378**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## INORGANICS

| Analyte  | Method    | Batch   | MDL<br>Limit | Reporting<br>Limit | Sample<br>Result | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Data<br>Qualifiers |
|--|-----------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |           |         |              |                    |                  |                    |                   |                  |                    |
| Reporting Units: umhos/cm                                  |           |         |              |                    |                  |                    |                   |                  |                    |
| Specific Conductance                                       | EPA 120.1 | 9B18054 | 1.0          | 1.0                | 250              | 1                  | 02/18/09          | 02/18/09         |                    |

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.*

ISB1796 <Page 27 of 77>  
NPDES - 379

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## CFR136A 608

| Analyte  | Method      | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |             |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/L                                      |             |         |           |                 |               |                 |                |               |                 |
| alpha-BHC  | CFR136A 608 | 9064381 | 0.0053    | 0.05            | ND            | 1               | 03/05/09       | 03/10/09      | HTV             |
| Surrogate: Decachlorobiphenyl (32-144%)                    |             |         |           |                 | 64 %          |                 |                |               |                 |
| Surrogate: Tetrachloro-m-xylene (52-117%)                  |             |         |           |                 | 78 %          |                 |                |               |                 |

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.*

ISB1796 <Page 28 of 77>  
NPDES - 380

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## MCAWW 245.1

| Analyte  | Method      | Batch   | MDL Limit | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-------------|---------|-----------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |             |         |           |                 |               |                 |                |               |                 |
| Reporting Units: ug/L                                      |             |         |           |                 |               |                 |                |               |                 |
| Mercury  | MCAWW 245.1 | 9050174 | 0.027     | 0.2             | <b>0.032</b>  | 1               | 02/19/09       | 02/19/09      | J               |

**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.*

**ISB1796 <Page 29 of 77>**  
**NPDES - 381**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## MCAWW 245.1-DISS

| Analyte  | Method           | Batch   | MDL<br>Limit | Reporting<br>Limit | Sample<br>Result | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed | Data<br>Qualifiers |
|--|------------------|---------|--------------|--------------------|------------------|--------------------|-------------------|------------------|--------------------|
| <b>Sample ID: ISB1796-01 (Outfall 002 - Water) - cont.</b> |                  |         |              |                    |                  |                    |                   |                  |                    |
| Reporting Units: ug/L                                      |                  |         |              |                    |                  |                    |                   |                  |                    |
| Mercury  | MCAWW 245.1-DISS | 9050182 | 0.027        | 0.2                | <b>0.03</b>      | 1                  | 02/19/09          | 02/19/09         | J                  |

**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.*

**ISB1796 <Page 30 of 77>**  
**NPDES - 382**

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## SHORT HOLD TIME DETAIL REPORT

|  | Hold Time<br>(in days) | Date/Time<br>Sampled | Date/Time<br>Received | Date/Time<br>Extracted | Date/Time<br>Analyzed |
|--|------------------------|----------------------|-----------------------|------------------------|-----------------------|
| <b>Sample ID: Outfall 002 (ISB1796-01) - Water</b> |                        |                      |                       |                        |                       |
| EPA 180.1  | 2                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 09:30       | 02/17/2009 12:55      |
| EPA 218.6  | 1                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/16/2009 21:30       | 02/16/2009 22:08      |
| EPA 300.0  | 2                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/16/2009 16:00       | 02/16/2009 23:55      |
| EPA 330.5  | 1                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 12:30       | 02/17/2009 12:30      |
| EPA 624  | 3                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/18/2009 00:00       | 02/18/2009 14:41      |
| Filtration   | 1                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 00:29       | 02/17/2009 00:33      |
| SM2540F  | 2                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 09:45       | 02/17/2009 09:45      |
| SM5210B  | 2                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 16:59       | 02/22/2009 10:30      |
| SM5540-C   | 2                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/17/2009 18:19       | 02/17/2009 22:59      |
| <b>Sample ID: Trip Blanks (ISB1796-02) - Water</b> |                        |                      |                       |                        |                       |
| EPA 624  | 3                      | 02/16/2009 09:30     | 02/16/2009 18:20      | 02/18/2009 00:00       | 02/18/2009 14:11      |

**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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B19076 Extracted: 02/19/09</b>          |        |                 |       |       |             |               |           |             |     |           |                 |
| <b>Blank Analyzed: 02/19/2009 (9B19076-BLK1)</b>   |        |                 |       |       |             |               |           |             |     |           |                 |
| DRO (C13 - C28)                                    | ND     | 0.10            | 0.050 | mg/l  |             |               |           |             |     |           |                 |
| EFH (C10 - C28)                                    | ND     | 0.10            | 0.050 | mg/l  |             |               |           |             |     |           |                 |
| Surrogate: n-Octacosane                            | 0.106  |                 |       | mg/l  | 0.200       |               | 53        | 40-125      |     |           |                 |
| <b>LCS Analyzed: 02/19/2009 (9B19076-BS1)</b>      |        |                 |       |       |             |               |           |             |     |           |                 |
| EFH (C10 - C28)                                    | 0.498  | 0.10            | 0.050 | mg/l  | 1.00        |               | 50        | 40-115      |     |           | MNR1            |
| Surrogate: n-Octacosane                            | 0.129  |                 |       | mg/l  | 0.200       |               | 65        | 40-125      |     |           |                 |
| <b>LCS Dup Analyzed: 02/19/2009 (9B19076-BSD1)</b> |        |                 |       |       |             |               |           |             |     |           |                 |
| EFH (C10 - C28)                                    | 0.575  | 0.10            | 0.050 | mg/l  | 1.00        |               | 58        | 40-115      | 14  | 25        |                 |
| Surrogate: n-Octacosane                            | 0.144  |                 |       | mg/l  | 0.200       |               | 72        | 40-125      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte   | Result  | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|---------|-----------------|-------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B19055 Extracted: 02/19/09</b>                   |         |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/19/2009 (9B19055-BLK1)</b>            |         |                 |       |       |             |                           |           |             |     |           |                 |
| GRO (C4 - C12)  | ND      | 0.10            | 0.025 | mg/l  |             |                           |           |             |     |           |                 |
| Surrogate: 4-BFB (FID)                                      | 0.00907 |                 |       | mg/l  | 0.0100      |                           | 91        | 65-140      |     |           |                 |
| <b>LCS Analyzed: 02/19/2009 (9B19055-BS1)</b>               |         |                 |       |       |             |                           |           |             |     |           |                 |
| GRO (C4 - C12)  | 0.823   | 0.10            | 0.025 | mg/l  | 0.800       |                           | 103       | 80-120      |     |           |                 |
| Surrogate: 4-BFB (FID)                                      | 0.0165  |                 |       | mg/l  | 0.0100      |                           | 165       | 65-140      |     |           | Z2              |
| <b>Matrix Spike Analyzed: 02/19/2009 (9B19055-MS1)</b>      |         |                 |       |       |             |                           |           |             |     |           |                 |
|   |         |                 |       |       |             | <b>Source: ISB1679-02</b> |           |             |     |           |                 |
| GRO (C4 - C12)  | 0.329   | 0.10            | 0.025 | mg/l  | 0.220       | 0.0716                    | 117       | 65-140      |     |           |                 |
| Surrogate: 4-BFB (FID)                                      | 0.0126  |                 |       | mg/l  | 0.0100      |                           | 126       | 65-140      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/19/2009 (9B19055-MSD1)</b> |         |                 |       |       |             |                           |           |             |     |           |                 |
|   |         |                 |       |       |             | <b>Source: ISB1679-02</b> |           |             |     |           |                 |
| GRO (C4 - C12)  | 0.307   | 0.10            | 0.025 | mg/l  | 0.220       | 0.0716                    | 107       | 65-140      | 7   | 20        |                 |
| Surrogate: 4-BFB (FID)                                      | 0.0112  |                 |       | mg/l  | 0.0100      |                           | 112       | 65-140      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | Limit  | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 9B17010 Extracted: 02/17/09</b>        |        |                 |      |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17010-BLK1)</b> |        |                 |      |       |             |               |           |        |     |           |                 |
| Benzene  | ND     | 0.50            | 0.28 | ug/l  |             |               |           |        |     |           |                 |
| Bromodichloromethane                             | ND     | 0.50            | 0.30 | ug/l  |             |               |           |        |     |           |                 |
| Bromoform  | ND     | 0.50            | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| Bromomethane                                     | ND     | 1.0             | 0.42 | ug/l  |             |               |           |        |     |           |                 |
| Carbon tetrachloride                             | ND     | 0.50            | 0.28 | ug/l  |             |               |           |        |     |           |                 |
| Chlorobenzene                                    | ND     | 0.50            | 0.36 | ug/l  |             |               |           |        |     |           |                 |
| Chloroethane                                     | ND     | 1.0             | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| Chloroform                                       | ND     | 0.50            | 0.33 | ug/l  |             |               |           |        |     |           |                 |
| Chloromethane                                    | ND     | 0.50            | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| Dibromochloromethane                             | ND     | 0.50            | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| 1,2-Dichlorobenzene                              | ND     | 0.50            | 0.32 | ug/l  |             |               |           |        |     |           |                 |
| 1,3-Dichlorobenzene                              | ND     | 0.50            | 0.35 | ug/l  |             |               |           |        |     |           |                 |
| 1,4-Dichlorobenzene                              | ND     | 0.50            | 0.37 | ug/l  |             |               |           |        |     |           |                 |
| 1,1-Dichloroethane                               | ND     | 0.50            | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| 1,2-Dichloroethane                               | ND     | 0.50            | 0.28 | ug/l  |             |               |           |        |     |           |                 |
| 1,1-Dichloroethene                               | ND     | 0.50            | 0.42 | ug/l  |             |               |           |        |     |           |                 |
| trans-1,2-Dichloroethene                         | ND     | 0.50            | 0.30 | ug/l  |             |               |           |        |     |           |                 |
| 1,2-Dichloropropane                              | ND     | 0.50            | 0.35 | ug/l  |             |               |           |        |     |           |                 |
| cis-1,3-Dichloropropene                          | ND     | 0.50            | 0.22 | ug/l  |             |               |           |        |     |           |                 |
| trans-1,3-Dichloropropene                        | ND     | 0.50            | 0.32 | ug/l  |             |               |           |        |     |           |                 |
| Ethylbenzene                                     | ND     | 0.50            | 0.25 | ug/l  |             |               |           |        |     |           |                 |
| Methylene chloride                               | ND     | 1.0             | 0.95 | ug/l  |             |               |           |        |     |           |                 |
| 1,1,2,2-Tetrachloroethane                        | ND     | 0.50            | 0.30 | ug/l  |             |               |           |        |     |           |                 |
| Tetrachloroethene                                | ND     | 0.50            | 0.32 | ug/l  |             |               |           |        |     |           |                 |
| Toluene  | ND     | 0.50            | 0.36 | ug/l  |             |               |           |        |     |           |                 |
| 1,1,1-Trichloroethane                            | ND     | 0.50            | 0.30 | ug/l  |             |               |           |        |     |           |                 |
| 1,1,2-Trichloroethane                            | ND     | 0.50            | 0.30 | ug/l  |             |               |           |        |     |           |                 |
| Trichloroethene                                  | ND     | 0.50            | 0.26 | ug/l  |             |               |           |        |     |           |                 |
| Trichlorofluoromethane                           | ND     | 0.50            | 0.34 | ug/l  |             |               |           |        |     |           |                 |
| Trichlorotrifluoroethane (Freon 113)             | ND     | 5.0             | 0.50 | ug/l  |             |               |           |        |     |           |                 |
| Vinyl chloride                                   | ND     | 0.50            | 0.40 | ug/l  |             |               |           |        |     |           |                 |
| Xylenes, Total                                   | ND     | 1.5             | 0.90 | ug/l  |             |               |           |        |     |           |                 |
| Surrogate: 4-Bromofluorobenzene                  | 22.4   |                 |      | ug/l  | 25.0        |               | 90        | 80-120 |     |           |                 |
| Surrogate: Dibromofluoromethane                  | 23.9   |                 |      | ug/l  | 25.0        |               | 96        | 80-120 |     |           |                 |
| Surrogate: Toluene-d8                            | 23.9   |                 |      | ug/l  | 25.0        |               | 96        | 80-120 |     |           |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

| Analyte                                       | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17010 Extracted: 02/17/09</b>     |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 02/17/2009 (9B17010-BS1)</b> |        |                 |      |       |             |               |           |             |     |           |                 |
| Benzene                                       | 26.4   | 0.50            | 0.28 | ug/l  | 25.0        |               | 106       | 70-120      |     |           |                 |
| Bromodichloromethane                          | 29.0   | 0.50            | 0.30 | ug/l  | 25.0        |               | 116       | 70-135      |     |           |                 |
| Bromoform                                     | 26.1   | 0.50            | 0.40 | ug/l  | 25.0        |               | 104       | 55-130      |     |           |                 |
| Bromomethane                                  | 28.1   | 1.0             | 0.42 | ug/l  | 25.0        |               | 112       | 65-140      |     |           |                 |
| Carbon tetrachloride                          | 32.2   | 0.50            | 0.28 | ug/l  | 25.0        |               | 129       | 65-140      |     |           |                 |
| Chlorobenzene                                 | 25.0   | 0.50            | 0.36 | ug/l  | 25.0        |               | 100       | 75-120      |     |           |                 |
| Chloroethane                                  | 29.0   | 1.0             | 0.40 | ug/l  | 25.0        |               | 116       | 60-140      |     |           |                 |
| Chloroform                                    | 25.9   | 0.50            | 0.33 | ug/l  | 25.0        |               | 104       | 70-130      |     |           |                 |
| Chloromethane                                 | 27.8   | 0.50            | 0.40 | ug/l  | 25.0        |               | 111       | 50-140      |     |           |                 |
| Dibromochloromethane                          | 28.0   | 0.50            | 0.40 | ug/l  | 25.0        |               | 112       | 70-140      |     |           |                 |
| 1,2-Dichlorobenzene                           | 24.6   | 0.50            | 0.32 | ug/l  | 25.0        |               | 98        | 75-120      |     |           |                 |
| 1,3-Dichlorobenzene                           | 25.0   | 0.50            | 0.35 | ug/l  | 25.0        |               | 100       | 75-120      |     |           |                 |
| 1,4-Dichlorobenzene                           | 22.5   | 0.50            | 0.37 | ug/l  | 25.0        |               | 90        | 75-120      |     |           |                 |
| 1,1-Dichloroethane                            | 26.9   | 0.50            | 0.40 | ug/l  | 25.0        |               | 108       | 70-125      |     |           |                 |
| 1,2-Dichloroethane                            | 24.9   | 0.50            | 0.28 | ug/l  | 25.0        |               | 99        | 60-140      |     |           |                 |
| 1,1-Dichloroethene                            | 25.6   | 0.50            | 0.42 | ug/l  | 25.0        |               | 103       | 70-125      |     |           |                 |
| trans-1,2-Dichloroethene                      | 22.0   | 0.50            | 0.30 | ug/l  | 25.0        |               | 88        | 70-125      |     |           |                 |
| 1,2-Dichloropropane                           | 27.4   | 0.50            | 0.35 | ug/l  | 25.0        |               | 109       | 70-125      |     |           |                 |
| cis-1,3-Dichloropropene                       | 32.9   | 0.50            | 0.22 | ug/l  | 25.0        |               | 132       | 75-125      |     |           | L               |
| trans-1,3-Dichloropropene                     | 26.1   | 0.50            | 0.32 | ug/l  | 25.0        |               | 104       | 70-125      |     |           |                 |
| Ethylbenzene                                  | 26.5   | 0.50            | 0.25 | ug/l  | 25.0        |               | 106       | 75-125      |     |           |                 |
| Methylene chloride                            | 25.1   | 1.0             | 0.95 | ug/l  | 25.0        |               | 101       | 55-130      |     |           |                 |
| 1,1,2,2-Tetrachloroethane                     | 27.9   | 0.50            | 0.30 | ug/l  | 25.0        |               | 112       | 55-130      |     |           |                 |
| Tetrachloroethene                             | 26.2   | 0.50            | 0.32 | ug/l  | 25.0        |               | 105       | 70-125      |     |           |                 |
| Toluene                                       | 27.0   | 0.50            | 0.36 | ug/l  | 25.0        |               | 108       | 70-120      |     |           |                 |
| 1,1,1-Trichloroethane                         | 28.3   | 0.50            | 0.30 | ug/l  | 25.0        |               | 113       | 65-135      |     |           |                 |
| 1,1,2-Trichloroethane                         | 26.4   | 0.50            | 0.30 | ug/l  | 25.0        |               | 106       | 70-125      |     |           |                 |
| Trichloroethene                               | 25.2   | 0.50            | 0.26 | ug/l  | 25.0        |               | 101       | 70-125      |     |           |                 |
| Trichlorofluoromethane                        | 25.8   | 0.50            | 0.34 | ug/l  | 25.0        |               | 103       | 65-145      |     |           |                 |
| Vinyl chloride                                | 26.9   | 0.50            | 0.40 | ug/l  | 25.0        |               | 108       | 55-135      |     |           |                 |
| Xylenes, Total                                | 79.8   | 1.5             | 0.90 | ug/l  | 75.0        |               | 106       | 70-125      |     |           |                 |
| Surrogate: 4-Bromofluorobenzene               | 23.8   |                 |      | ug/l  | 25.0        |               | 95        | 80-120      |     |           |                 |
| Surrogate: Dibromofluoromethane               | 24.0   |                 |      | ug/l  | 25.0        |               | 96        | 80-120      |     |           |                 |
| Surrogate: Toluene-d8                         | 24.5   |                 |      | ug/l  | 25.0        |               | 98        | 80-120      |     |           |                 |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17010 Extracted: 02/17/09</b>              |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B17010-MS1)</b> |        |                 |      |       |             | <b>Source: ISB1785-01</b> |      |             |     |           |                 |
| Benzene  | 27.6   | 0.50            | 0.28 | ug/l  | 25.0        | 0.840                     | 107  | 65-125      |     |           |                 |
| Bromodichloromethane                                   | 31.1   | 0.50            | 0.30 | ug/l  | 25.0        | 1.21                      | 120  | 70-135      |     |           |                 |
| Bromoform  | 28.0   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 112  | 55-135      |     |           |                 |
| Bromomethane   | 28.6   | 1.0             | 0.42 | ug/l  | 25.0        | ND                        | 114  | 55-145      |     |           |                 |
| Carbon tetrachloride                                   | 31.0   | 0.50            | 0.28 | ug/l  | 25.0        | ND                        | 124  | 65-140      |     |           |                 |
| Chlorobenzene  | 25.7   | 0.50            | 0.36 | ug/l  | 25.0        | ND                        | 103  | 75-125      |     |           |                 |
| Chloroethane   | 29.0   | 1.0             | 0.40 | ug/l  | 25.0        | ND                        | 116  | 55-140      |     |           |                 |
| Chloroform   | 44.7   | 0.50            | 0.33 | ug/l  | 25.0        | 19.2                      | 102  | 65-135      |     |           |                 |
| Chloromethane  | 29.1   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 116  | 45-145      |     |           |                 |
| Dibromochloromethane                                   | 31.1   | 0.50            | 0.40 | ug/l  | 25.0        | 0.980                     | 120  | 65-140      |     |           |                 |
| 1,2-Dichlorobenzene                                    | 25.2   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 101  | 75-125      |     |           |                 |
| 1,3-Dichlorobenzene                                    | 24.9   | 0.50            | 0.35 | ug/l  | 25.0        | ND                        | 100  | 75-125      |     |           |                 |
| 1,4-Dichlorobenzene                                    | 23.0   | 0.50            | 0.37 | ug/l  | 25.0        | ND                        | 92   | 75-125      |     |           |                 |
| 1,1-Dichloroethane                                     | 28.5   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 114  | 65-130      |     |           |                 |
| 1,2-Dichloroethane                                     | 28.9   | 0.50            | 0.28 | ug/l  | 25.0        | 2.41                      | 106  | 60-140      |     |           |                 |
| 1,1-Dichloroethene                                     | 26.8   | 0.50            | 0.42 | ug/l  | 25.0        | ND                        | 107  | 60-130      |     |           |                 |
| trans-1,2-Dichloroethene                               | 22.7   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 91   | 65-130      |     |           |                 |
| 1,2-Dichloropropane                                    | 28.7   | 0.50            | 0.35 | ug/l  | 25.0        | ND                        | 115  | 65-130      |     |           |                 |
| cis-1,3-Dichloropropene                                | 34.2   | 0.50            | 0.22 | ug/l  | 25.0        | ND                        | 137  | 70-130      |     |           | M7              |
| trans-1,3-Dichloropropene                              | 28.0   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 112  | 65-135      |     |           |                 |
| Ethylbenzene   | 26.8   | 0.50            | 0.25 | ug/l  | 25.0        | ND                        | 107  | 65-130      |     |           |                 |
| Methylene chloride                                     | 27.2   | 1.0             | 0.95 | ug/l  | 25.0        | ND                        | 109  | 50-135      |     |           |                 |
| 1,1,2,2-Tetrachloroethane                              | 29.3   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 117  | 55-135      |     |           |                 |
| Tetrachloroethene                                      | 25.5   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 102  | 65-130      |     |           |                 |
| Toluene  | 27.3   | 0.50            | 0.36 | ug/l  | 25.0        | ND                        | 109  | 70-125      |     |           |                 |
| 1,1,1-Trichloroethane                                  | 28.4   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 114  | 65-140      |     |           |                 |
| 1,1,2-Trichloroethane                                  | 28.4   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 114  | 65-130      |     |           |                 |
| Trichloroethene  | 24.6   | 0.50            | 0.26 | ug/l  | 25.0        | ND                        | 98   | 65-125      |     |           |                 |
| Trichlorofluoromethane                                 | 25.6   | 0.50            | 0.34 | ug/l  | 25.0        | ND                        | 102  | 60-145      |     |           |                 |
| Vinyl chloride   | 27.2   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 109  | 45-140      |     |           |                 |
| Xylenes, Total   | 81.5   | 1.5             | 0.90 | ug/l  | 75.0        | ND                        | 109  | 60-130      |     |           |                 |
| Surrogate: 4-Bromofluorobenzene                        | 24.7   |                 |      | ug/l  | 25.0        |                           | 99   | 80-120      |     |           |                 |
| Surrogate: Dibromofluoromethane                        | 25.0   |                 |      | ug/l  | 25.0        |                           | 100  | 80-120      |     |           |                 |
| Surrogate: Toluene-d8                                  | 24.3   |                 |      | ug/l  | 25.0        |                           | 97   | 80-120      |     |           |                 |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS (EPA 624)

| Analyte   | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17010 Extracted: 02/17/09</b>                   |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/17/2009 (9B17010-MSD1)</b> |        |                 |      |       |             | <b>Source: ISB1785-01</b> |      |             |     |           |                 |
| Benzene   | 27.7   | 0.50            | 0.28 | ug/l  | 25.0        | 0.840                     | 108  | 65-125      | 1   | 20        |                 |
| Bromodichloromethane  | 30.2   | 0.50            | 0.30 | ug/l  | 25.0        | 1.21                      | 116  | 70-135      | 3   | 20        |                 |
| Bromoform   | 26.4   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 106  | 55-135      | 6   | 25        |                 |
| Bromomethane  | 27.5   | 1.0             | 0.42 | ug/l  | 25.0        | ND                        | 110  | 55-145      | 4   | 25        |                 |
| Carbon tetrachloride  | 30.3   | 0.50            | 0.28 | ug/l  | 25.0        | ND                        | 121  | 65-140      | 2   | 25        |                 |
| Chlorobenzene   | 25.2   | 0.50            | 0.36 | ug/l  | 25.0        | ND                        | 101  | 75-125      | 2   | 20        |                 |
| Chloroethane  | 28.7   | 1.0             | 0.40 | ug/l  | 25.0        | ND                        | 115  | 55-140      | 1   | 25        |                 |
| Chloroform  | 43.9   | 0.50            | 0.33 | ug/l  | 25.0        | 19.2                      | 99   | 65-135      | 2   | 20        |                 |
| Chloromethane   | 27.8   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 111  | 45-145      | 5   | 25        |                 |
| Dibromochloromethane  | 29.3   | 0.50            | 0.40 | ug/l  | 25.0        | 0.980                     | 113  | 65-140      | 6   | 25        |                 |
| 1,2-Dichlorobenzene   | 24.6   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 98   | 75-125      | 2   | 20        |                 |
| 1,3-Dichlorobenzene   | 24.8   | 0.50            | 0.35 | ug/l  | 25.0        | ND                        | 99   | 75-125      | 1   | 20        |                 |
| 1,4-Dichlorobenzene   | 22.4   | 0.50            | 0.37 | ug/l  | 25.0        | ND                        | 90   | 75-125      | 2   | 20        |                 |
| 1,1-Dichloroethane  | 28.1   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 112  | 65-130      | 2   | 20        |                 |
| 1,2-Dichloroethane  | 27.1   | 0.50            | 0.28 | ug/l  | 25.0        | 2.41                      | 99   | 60-140      | 6   | 20        |                 |
| 1,1-Dichloroethene  | 26.1   | 0.50            | 0.42 | ug/l  | 25.0        | ND                        | 104  | 60-130      | 3   | 20        |                 |
| trans-1,2-Dichloroethene                                    | 22.8   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 91   | 65-130      | 0   | 20        |                 |
| 1,2-Dichloropropane   | 29.4   | 0.50            | 0.35 | ug/l  | 25.0        | ND                        | 118  | 65-130      | 2   | 20        |                 |
| cis-1,3-Dichloropropene                                     | 34.4   | 0.50            | 0.22 | ug/l  | 25.0        | ND                        | 137  | 70-130      | 0   | 20        | M7              |
| trans-1,3-Dichloropropene                                   | 27.5   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 110  | 65-135      | 2   | 25        |                 |
| Ethylbenzene  | 25.6   | 0.50            | 0.25 | ug/l  | 25.0        | ND                        | 103  | 65-130      | 4   | 20        |                 |
| Methylene chloride  | 26.5   | 1.0             | 0.95 | ug/l  | 25.0        | ND                        | 106  | 50-135      | 2   | 20        |                 |
| 1,1,2,2-Tetrachloroethane                                   | 28.6   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 114  | 55-135      | 2   | 30        |                 |
| Tetrachloroethene   | 25.7   | 0.50            | 0.32 | ug/l  | 25.0        | ND                        | 103  | 65-130      | 1   | 20        |                 |
| Toluene   | 27.6   | 0.50            | 0.36 | ug/l  | 25.0        | ND                        | 110  | 70-125      | 1   | 20        |                 |
| 1,1,1-Trichloroethane                                       | 27.5   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 110  | 65-140      | 3   | 20        |                 |
| 1,1,2-Trichloroethane                                       | 27.9   | 0.50            | 0.30 | ug/l  | 25.0        | ND                        | 112  | 65-130      | 2   | 25        |                 |
| Trichloroethene   | 25.0   | 0.50            | 0.26 | ug/l  | 25.0        | ND                        | 100  | 65-125      | 1   | 20        |                 |
| Trichlorofluoromethane                                      | 24.7   | 0.50            | 0.34 | ug/l  | 25.0        | ND                        | 99   | 60-145      | 4   | 25        |                 |
| Vinyl chloride  | 24.3   | 0.50            | 0.40 | ug/l  | 25.0        | ND                        | 97   | 45-140      | 11  | 30        |                 |
| Xylenes, Total  | 78.5   | 1.5             | 0.90 | ug/l  | 75.0        | ND                        | 105  | 60-130      | 4   | 20        |                 |
| Surrogate: 4-Bromofluorobenzene                             | 24.3   |                 |      | ug/l  | 25.0        |                           | 97   | 80-120      |     |           |                 |
| Surrogate: Dibromofluoromethane                             | 24.6   |                 |      | ug/l  | 25.0        |                           | 98   | 80-120      |     |           |                 |
| Surrogate: Toluene-d8                                       | 24.8   |                 |      | ug/l  | 25.0        |                           | 99   | 80-120      |     |           |                 |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES-- GC/MS (EPA 624)

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | Limit  | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|--------|-----|-----------|-----------------|
| <b>Batch: 9B18010 Extracted: 02/18/09</b>                                      |        |                 |      |       |             |               |           |        |     |           |                 |
| <b>Blank Analyzed: 02/18/2009 (9B18010-BLK1)</b>                               |        |                 |      |       |             |               |           |        |     |           |                 |
| Acrolein   | ND     | 5.0             | 4.0  | ug/l  |             |               |           |        |     |           |                 |
| Acrylonitrile  | ND     | 2.0             | 0.70 | ug/l  |             |               |           |        |     |           |                 |
| 2-Chloroethyl vinyl ether  | ND     | 5.0             | 1.8  | ug/l  |             |               |           |        |     |           |                 |
| Surrogate: 4-Bromofluorobenzene  | 21.7   |                 |      | ug/l  | 25.0        |               | 87        | 80-120 |     |           |                 |
| Surrogate: Dibromofluoromethane  | 22.1   |                 |      | ug/l  | 25.0        |               | 89        | 80-120 |     |           |                 |
| Surrogate: Toluene-d8  | 23.6   |                 |      | ug/l  | 25.0        |               | 95        | 80-120 |     |           |                 |
| <b>LCS Analyzed: 02/18/2009 (9B18010-BS1)</b>                                  |        |                 |      |       |             |               |           |        |     |           |                 |
| 2-Chloroethyl vinyl ether  | 23.9   | 5.0             | 1.8  | ug/l  | 25.0        |               | 95        | 25-170 |     |           |                 |
| Surrogate: 4-Bromofluorobenzene  | 22.6   |                 |      | ug/l  | 25.0        |               | 90        | 80-120 |     |           |                 |
| Surrogate: Dibromofluoromethane  | 23.4   |                 |      | ug/l  | 25.0        |               | 94        | 80-120 |     |           |                 |
| Surrogate: Toluene-d8  | 23.7   |                 |      | ug/l  | 25.0        |               | 95        | 80-120 |     |           |                 |
| <b>Matrix Spike Analyzed: 02/18/2009 (9B18010-MS1) Source: ISB1785-01</b>      |        |                 |      |       |             |               |           |        |     |           |                 |
| 2-Chloroethyl vinyl ether  | 26.3   | 5.0             | 1.8  | ug/l  | 25.0        | ND            | 105       | 25-170 |     |           |                 |
| Surrogate: 4-Bromofluorobenzene  | 22.8   |                 |      | ug/l  | 25.0        |               | 91        | 80-120 |     |           |                 |
| Surrogate: Dibromofluoromethane  | 23.8   |                 |      | ug/l  | 25.0        |               | 95        | 80-120 |     |           |                 |
| Surrogate: Toluene-d8  | 24.1   |                 |      | ug/l  | 25.0        |               | 96        | 80-120 |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/18/2009 (9B18010-MSD1) Source: ISB1785-01</b> |        |                 |      |       |             |               |           |        |     |           |                 |
| 2-Chloroethyl vinyl ether  | 24.8   | 5.0             | 1.8  | ug/l  | 25.0        | ND            | 99        | 25-170 | 6   | 25        |                 |
| Surrogate: 4-Bromofluorobenzene  | 22.7   |                 |      | ug/l  | 25.0        |               | 91        | 80-120 |     |           |                 |
| Surrogate: Dibromofluoromethane  | 23.8   |                 |      | ug/l  | 25.0        |               | 95        | 80-120 |     |           |                 |
| Surrogate: Toluene-d8  | 24.2   |                 |      | ug/l  | 25.0        |               | 97        | 80-120 |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## METHOD BLANK/QC DATA

### PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

| Analyte  | Result | Reporting<br>Limit | MDL | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Data<br>Qualifiers |
|--|--------|--------------------|-----|-------|----------------|------------------|----------------|-----|--------------|--------------------|
| <b>Batch: 9B17010 Extracted: 02/17/09</b>        |        |                    |     |       |                |                  |                |     |              |                    |
| <b>Blank Analyzed: 02/17/2009 (9B17010-BLK1)</b> |        |                    |     |       |                |                  |                |     |              |                    |
| Cyclohexane                                      | ND     | 2.5                | N/A | ug/l  |                |                  |                |     |              |                    |
| freon 123a                                       | ND     | 2.5                | N/A | ug/l  |                |                  |                |     |              |                    |

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.*

ISB1796 <Page 39 of 77>  
NPDES - 391



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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte   | Result | Reporting Limit | MDL | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-----|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17013 Extracted: 02/17/09</b>                   |        |                 |     |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17013-BLK1)</b>            |        |                 |     |       |             |                           |           |             |     |           |                 |
| 1,4-Dioxane   | ND     | 2.0             | 1.0 | ug/l  |             |                           |           |             |     |           |                 |
| Surrogate: Dibromofluoromethane                             | 0.970  |                 |     | ug/l  | 1.00        |                           | 97        | 80-120      |     |           |                 |
| <b>LCS Analyzed: 02/17/2009 (9B17013-BS1)</b>               |        |                 |     |       |             |                           |           |             |     |           |                 |
| 1,4-Dioxane   | 8.97   | 2.0             | 1.0 | ug/l  | 10.0        |                           | 90        | 70-125      |     |           |                 |
| Surrogate: Dibromofluoromethane                             | 0.960  |                 |     | ug/l  | 1.00        |                           | 96        | 80-120      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B17013-MS1)</b>      |        |                 |     |       |             |                           |           |             |     |           |                 |
|   |        |                 |     |       |             | <b>Source: ISB1717-02</b> |           |             |     |           |                 |
| 1,4-Dioxane   | 11.0   | 2.0             | 1.0 | ug/l  | 10.0        | 2.68                      | 83        | 70-130      |     |           |                 |
| Surrogate: Dibromofluoromethane                             | 0.960  |                 |     | ug/l  | 1.00        |                           | 96        | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/17/2009 (9B17013-MSD1)</b> |        |                 |     |       |             |                           |           |             |     |           |                 |
|   |        |                 |     |       |             | <b>Source: ISB1717-02</b> |           |             |     |           |                 |
| 1,4-Dioxane   | 11.3   | 2.0             | 1.0 | ug/l  | 10.0        | 2.68                      | 86        | 70-130      | 3   | 30        |                 |
| Surrogate: Dibromofluoromethane                             | 1.01   |                 |     | ug/l  | 1.00        |                           | 101       | 80-120      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>        |        |                 |      |       |             |               |           |             |         |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B21046-BLK1)</b> |        |                 |      |       |             |               |           |             |         |           |                 |
| Acenaphthene                                     | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Acenaphthylene                                   | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Aniline  | ND     | 10              | 0.30 | ug/l  |             |               |           |             |         |           |                 |
| Anthracene                                       | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Benzidine  | ND     | 5.0             | N/A  | ug/l  |             |               |           |             |         |           |                 |
| Benzo(a)anthracene                               | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Benzo(a)pyrene                                   | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Benzo(b)fluoranthene                             | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Benzo(g,h,i)perylene                             | 0.400  | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           | Ja              |
| Benzo(k)fluoranthene                             | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Benzoic acid                                     | ND     | 20              | 3.0  | ug/l  |             |               |           |             |         |           |                 |
| Benzyl alcohol                                   | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 4-Bromophenyl phenyl ether                       | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Butyl benzyl phthalate                           | 1.04   | 5.0             | 0.70 | ug/l  |             |               |           |             |         |           | Ja              |
| 4-Chloro-3-methylphenol                          | ND     | 2.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 4-Chloroaniline                                  | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Bis(2-chloroethoxy)methane                       | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Bis(2-chloroethyl)ether                          | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Bis(2-chloroisopropyl)ether                      | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Bis(2-ethylhexyl)phthalate                       | ND     | 5.0             | 1.7  | ug/l  |             |               |           |             |         |           |                 |
| 2-Chloronaphthalene                              | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2-Chlorophenol                                   | ND     | 1.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 4-Chlorophenyl phenyl ether                      | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Chrysene   | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Dibenz(a,h)anthracene                            | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Dibenzofuran                                     | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Di-n-butyl phthalate                             | ND     | 2.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 1,2-Dichlorobenzene                              | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 1,3-Dichlorobenzene                              | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 1,4-Dichlorobenzene                              | ND     | 0.50            | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 3,3'-Dichlorobenzidine                           | ND     | 5.0             | N/A  | ug/l  |             |               |           |             |         |           |                 |
| 2,4-Dichlorophenol                               | ND     | 2.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| Diethyl phthalate                                | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2,4-Dimethylphenol                               | ND     | 2.0             | 0.30 | ug/l  |             |               |           |             |         |           |                 |
| Dimethyl phthalate                               | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>        |        |                 |      |       |             |               |           |             |         |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B21046-BLK1)</b> |        |                 |      |       |             |               |           |             |         |           |                 |
| 4,6-Dinitro-2-methylphenol                       | ND     | 5.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 2,4-Dinitrophenol                                | ND     | 5.0             | 0.90 | ug/l  |             |               |           |             |         |           |                 |
| 2,4-Dinitrotoluene                               | ND     | 5.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 2,6-Dinitrotoluene                               | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Di-n-octyl phthalate                             | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 1,2-Diphenylhydrazine/Azobenzene                 | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Fluoranthene                                     | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Fluorene   | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Hexachlorobenzene                                | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Hexachlorobutadiene                              | ND     | 2.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| Hexachlorocyclopentadiene                        | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Hexachloroethane                                 | ND     | 3.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| Indeno(1,2,3-cd)pyrene                           | 0.240  | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           | Ja              |
| Isophorone                                       | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2-Methylnaphthalene                              | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2-Methylphenol                                   | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 4-Methylphenol                                   | ND     | 5.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| Naphthalene                                      | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2-Nitroaniline                                   | ND     | 5.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 3-Nitroaniline                                   | ND     | 5.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 4-Nitroaniline                                   | ND     | 5.0             | 0.50 | ug/l  |             |               |           |             |         |           |                 |
| Nitrobenzene                                     | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2-Nitrophenol                                    | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 4-Nitrophenol                                    | ND     | 5.0             | 2.5  | ug/l  |             |               |           |             |         |           |                 |
| N-Nitroso-di-n-propylamine                       | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| N-Nitrosodimethylamine                           | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| N-Nitrosodiphenylamine                           | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Pentachlorophenol                                | ND     | 2.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Phenanthrene                                     | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Phenol   | ND     | 1.0             | 0.30 | ug/l  |             |               |           |             |         |           |                 |
| Pyrene   | ND     | 0.50            | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 1,2,4-Trichlorobenzene                           | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| 2,4,5-Trichlorophenol                            | ND     | 2.0             | 0.20 | ug/l  |             |               |           |             |         |           |                 |
| 2,4,6-Trichlorophenol                            | ND     | 1.0             | 0.10 | ug/l  |             |               |           |             |         |           |                 |
| Surrogate: 2,4,6-Tribromophenol                  | 13.8   |                 |      | ug/l  | 20.0        |               | 69        | 40-120      |         |           |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>        |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B21046-BLK1)</b> |        |                 |      |       |             |               |           |             |     |           |                 |
| Surrogate: 2-Fluorobiphenyl                      | 9.04   |                 |      | ug/l  | 10.0        |               | 90        | 50-120      |     |           |                 |
| Surrogate: 2-Fluorophenol                        | 15.3   |                 |      | ug/l  | 20.0        |               | 76        | 30-120      |     |           |                 |
| Surrogate: Nitrobenzene-d5                       | 7.86   |                 |      | ug/l  | 10.0        |               | 79        | 45-120      |     |           |                 |
| Surrogate: Phenol-d6                             | 15.6   |                 |      | ug/l  | 20.0        |               | 78        | 35-120      |     |           |                 |
| Surrogate: Terphenyl-d14                         | 10.4   |                 |      | ug/l  | 10.0        |               | 104       | 50-125      |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B21046-BS1)</b>    |        |                 |      |       |             |               |           |             |     |           |                 |
| Acenaphthene                                     | 6.62   | 0.50            | 0.10 | ug/l  | 10.0        |               | 66        | 60-120      |     |           |                 |
| Acenaphthylene                                   | 6.70   | 0.50            | 0.10 | ug/l  | 10.0        |               | 67        | 60-120      |     |           |                 |
| Aniline  | 8.40   | 10              | 0.30 | ug/l  | 10.0        |               | 84        | 35-120      |     |           | Ja              |
| Anthracene                                       | 7.20   | 0.50            | 0.10 | ug/l  | 10.0        |               | 72        | 65-120      |     |           |                 |
| Benzidine  | 7.98   | 5.0             | N/A  | ug/l  | 10.0        |               | 80        | 30-160      |     |           |                 |
| Benzo(a)anthracene                               | 7.48   | 5.0             | 0.10 | ug/l  | 10.0        |               | 75        | 65-120      |     |           |                 |
| Benzo(a)pyrene                                   | 8.30   | 2.0             | 0.10 | ug/l  | 10.0        |               | 83        | 55-130      |     |           |                 |
| Benzo(b)fluoranthene                             | 7.16   | 2.0             | 0.10 | ug/l  | 10.0        |               | 72        | 55-125      |     |           |                 |
| Benzo(g,h,i)perylene                             | 8.96   | 5.0             | 0.10 | ug/l  | 10.0        |               | 90        | 45-135      |     |           |                 |
| Benzo(k)fluoranthene                             | 6.86   | 0.50            | 0.10 | ug/l  | 10.0        |               | 69        | 50-125      |     |           |                 |
| Benzoic acid                                     | 6.80   | 20              | 3.0  | ug/l  | 10.0        |               | 68        | 25-120      |     |           | Ja              |
| Benzyl alcohol                                   | 6.38   | 5.0             | 0.10 | ug/l  | 10.0        |               | 64        | 50-120      |     |           |                 |
| 4-Bromophenyl phenyl ether                       | 7.76   | 1.0             | 0.10 | ug/l  | 10.0        |               | 78        | 60-120      |     |           |                 |
| Butyl benzyl phthalate                           | 7.56   | 5.0             | 0.70 | ug/l  | 10.0        |               | 76        | 55-130      |     |           |                 |
| 4-Chloro-3-methylphenol                          | 7.62   | 2.0             | 0.20 | ug/l  | 10.0        |               | 76        | 60-120      |     |           |                 |
| 4-Chloroaniline                                  | 6.22   | 2.0             | 0.10 | ug/l  | 10.0        |               | 62        | 55-120      |     |           |                 |
| Bis(2-chloroethoxy)methane                       | 6.62   | 0.50            | 0.10 | ug/l  | 10.0        |               | 66        | 55-120      |     |           |                 |
| Bis(2-chloroethyl)ether                          | 6.50   | 0.50            | 0.10 | ug/l  | 10.0        |               | 65        | 50-120      |     |           |                 |
| Bis(2-chloroisopropyl)ether                      | 6.40   | 0.50            | 0.10 | ug/l  | 10.0        |               | 64        | 45-120      |     |           |                 |
| Bis(2-ethylhexyl)phthalate                       | 7.94   | 5.0             | 1.7  | ug/l  | 10.0        |               | 79        | 65-130      |     |           |                 |
| 2-Chloronaphthalene                              | 6.18   | 0.50            | 0.10 | ug/l  | 10.0        |               | 62        | 60-120      |     |           |                 |
| 2-Chlorophenol                                   | 6.20   | 1.0             | 0.20 | ug/l  | 10.0        |               | 62        | 45-120      |     |           |                 |
| 4-Chlorophenyl phenyl ether                      | 6.84   | 0.50            | 0.10 | ug/l  | 10.0        |               | 68        | 65-120      |     |           |                 |
| Chrysene   | 7.12   | 0.50            | 0.10 | ug/l  | 10.0        |               | 71        | 65-120      |     |           |                 |
| Dibenz(a,h)anthracene                            | 7.86   | 0.50            | 0.10 | ug/l  | 10.0        |               | 79        | 50-135      |     |           |                 |
| Dibenzofuran                                     | 6.92   | 0.50            | 0.10 | ug/l  | 10.0        |               | 69        | 65-120      |     |           |                 |
| Di-n-butyl phthalate                             | 7.70   | 2.0             | 0.20 | ug/l  | 10.0        |               | 77        | 60-125      |     |           |                 |
| 1,2-Dichlorobenzene                              | 5.46   | 0.50            | 0.10 | ug/l  | 10.0        |               | 55        | 40-120      |     |           |                 |
| 1,3-Dichlorobenzene                              | 5.04   | 0.50            | 0.10 | ug/l  | 10.0        |               | 50        | 35-120      |     |           |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte                                       | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>     |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B21046-BS1)</b> |        |                 |      |       |             |               |           |             |     |           | <b>MNR1</b>     |
| 1,4-Dichlorobenzene                           | 5.18   | 0.50            | 0.20 | ug/l  | 10.0        |               | 52        | 35-120      |     |           |                 |
| 3,3'-Dichlorobenzidine                        | 5.80   | 5.0             | N/A  | ug/l  | 10.0        |               | 58        | 45-135      |     |           |                 |
| 2,4-Dichlorophenol                            | 6.46   | 2.0             | 0.20 | ug/l  | 10.0        |               | 65        | 55-120      |     |           |                 |
| Diethyl phthalate                             | 6.80   | 1.0             | 0.10 | ug/l  | 10.0        |               | 68        | 55-120      |     |           |                 |
| 2,4-Dimethylphenol                            | 5.68   | 2.0             | 0.30 | ug/l  | 10.0        |               | 57        | 40-120      |     |           |                 |
| Dimethyl phthalate                            | 7.10   | 0.50            | 0.10 | ug/l  | 10.0        |               | 71        | 30-120      |     |           |                 |
| 4,6-Dinitro-2-methylphenol                    | 8.12   | 5.0             | 0.20 | ug/l  | 10.0        |               | 81        | 45-120      |     |           |                 |
| 2,4-Dinitrophenol                             | 7.58   | 5.0             | 0.90 | ug/l  | 10.0        |               | 76        | 40-120      |     |           |                 |
| 2,4-Dinitrotoluene                            | 6.94   | 5.0             | 0.20 | ug/l  | 10.0        |               | 69        | 65-120      |     |           |                 |
| 2,6-Dinitrotoluene                            | 6.82   | 5.0             | 0.10 | ug/l  | 10.0        |               | 68        | 65-120      |     |           |                 |
| Di-n-octyl phthalate                          | 7.96   | 5.0             | 0.10 | ug/l  | 10.0        |               | 80        | 65-135      |     |           |                 |
| 1,2-Diphenylhydrazine/Azobenzene              | 7.22   | 1.0             | 0.10 | ug/l  | 10.0        |               | 72        | 60-120      |     |           |                 |
| Fluoranthene                                  | 7.46   | 0.50            | 0.10 | ug/l  | 10.0        |               | 75        | 60-120      |     |           |                 |
| Fluorene                                      | 7.06   | 0.50            | 0.10 | ug/l  | 10.0        |               | 71        | 65-120      |     |           |                 |
| Hexachlorobenzene                             | 6.90   | 1.0             | 0.10 | ug/l  | 10.0        |               | 69        | 60-120      |     |           |                 |
| Hexachlorobutadiene                           | 4.78   | 2.0             | 0.20 | ug/l  | 10.0        |               | 48        | 40-120      |     |           |                 |
| Hexachlorocyclopentadiene                     | 6.26   | 5.0             | 0.10 | ug/l  | 10.0        |               | 63        | 25-120      |     |           |                 |
| Hexachloroethane                              | 4.80   | 3.0             | 0.20 | ug/l  | 10.0        |               | 48        | 35-120      |     |           |                 |
| Indeno(1,2,3-cd)pyrene                        | 8.22   | 2.0             | 0.10 | ug/l  | 10.0        |               | 82        | 45-135      |     |           |                 |
| Isophorone                                    | 5.88   | 1.0             | 0.10 | ug/l  | 10.0        |               | 59        | 50-120      |     |           |                 |
| 2-Methylnaphthalene                           | 6.74   | 1.0             | 0.10 | ug/l  | 10.0        |               | 67        | 55-120      |     |           |                 |
| 2-Methylphenol                                | 6.30   | 2.0             | 0.10 | ug/l  | 10.0        |               | 63        | 50-120      |     |           |                 |
| 4-Methylphenol                                | 6.38   | 5.0             | 0.20 | ug/l  | 10.0        |               | 64        | 50-120      |     |           |                 |
| Naphthalene                                   | 6.02   | 1.0             | 0.10 | ug/l  | 10.0        |               | 60        | 55-120      |     |           |                 |
| 2-Nitroaniline                                | 7.14   | 5.0             | 0.10 | ug/l  | 10.0        |               | 71        | 65-120      |     |           |                 |
| 3-Nitroaniline                                | 7.16   | 5.0             | 0.20 | ug/l  | 10.0        |               | 72        | 60-120      |     |           |                 |
| 4-Nitroaniline                                | 6.96   | 5.0             | 0.50 | ug/l  | 10.0        |               | 70        | 55-125      |     |           |                 |
| Nitrobenzene                                  | 6.48   | 1.0             | 0.10 | ug/l  | 10.0        |               | 65        | 55-120      |     |           |                 |
| 2-Nitrophenol                                 | 6.20   | 2.0             | 0.10 | ug/l  | 10.0        |               | 62        | 50-120      |     |           |                 |
| 4-Nitrophenol                                 | 7.04   | 5.0             | 2.5  | ug/l  | 10.0        |               | 70        | 45-120      |     |           |                 |
| N-Nitroso-di-n-propylamine                    | 6.84   | 2.0             | 0.10 | ug/l  | 10.0        |               | 68        | 45-120      |     |           |                 |
| N-Nitrosodimethylamine                        | 6.54   | 2.0             | 0.10 | ug/l  | 10.0        |               | 65        | 45-120      |     |           |                 |
| N-Nitrosodiphenylamine                        | 7.80   | 1.0             | 0.10 | ug/l  | 10.0        |               | 78        | 60-120      |     |           |                 |
| Pentachlorophenol                             | 7.38   | 2.0             | 0.10 | ug/l  | 10.0        |               | 74        | 50-120      |     |           |                 |
| Phenanthrene                                  | 6.90   | 0.50            | 0.10 | ug/l  | 10.0        |               | 69        | 65-120      |     |           |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>          |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B21046-BS1)</b>      |        |                 |      |       |             |               |           |             |     |           |                 |
| Phenol   | 6.46   | 1.0             | 0.30 | ug/l  | 10.0        |               | 65        | 40-120      |     |           | MNR1            |
| Pyrene   | 7.34   | 0.50            | 0.10 | ug/l  | 10.0        |               | 73        | 55-125      |     |           |                 |
| 1,2,4-Trichlorobenzene                             | 5.36   | 1.0             | 0.10 | ug/l  | 10.0        |               | 54        | 45-120      |     |           |                 |
| 2,4,5-Trichlorophenol                              | 7.14   | 2.0             | 0.20 | ug/l  | 10.0        |               | 71        | 55-120      |     |           |                 |
| 2,4,6-Trichlorophenol                              | 7.28   | 1.0             | 0.10 | ug/l  | 10.0        |               | 73        | 55-120      |     |           |                 |
| Surrogate: 2,4,6-Tribromophenol                    | 13.6   |                 |      | ug/l  | 20.0        |               | 68        | 40-120      |     |           |                 |
| Surrogate: 2-Fluorobiphenyl                        | 6.66   |                 |      | ug/l  | 10.0        |               | 67        | 50-120      |     |           |                 |
| Surrogate: 2-Fluorophenol                          | 11.8   |                 |      | ug/l  | 20.0        |               | 59        | 30-120      |     |           |                 |
| Surrogate: Nitrobenzene-d5                         | 6.64   |                 |      | ug/l  | 10.0        |               | 66        | 45-120      |     |           |                 |
| Surrogate: Phenol-d6                               | 12.4   |                 |      | ug/l  | 20.0        |               | 62        | 35-120      |     |           |                 |
| Surrogate: Terphenyl-d14                           | 8.10   |                 |      | ug/l  | 10.0        |               | 81        | 50-125      |     |           |                 |
| <b>LCS Dup Analyzed: 02/24/2009 (9B21046-BSD1)</b> |        |                 |      |       |             |               |           |             |     |           |                 |
| Acenaphthene                                       | 7.68   | 0.50            | 0.10 | ug/l  | 10.0        |               | 77        | 60-120      | 15  | 20        |                 |
| Acenaphthylene                                     | 7.72   | 0.50            | 0.10 | ug/l  | 10.0        |               | 77        | 60-120      | 14  | 20        |                 |
| Aniline  | 8.34   | 10              | 0.30 | ug/l  | 10.0        |               | 83        | 35-120      | 1   | 30        | Ja              |
| Anthracene   | 8.58   | 0.50            | 0.10 | ug/l  | 10.0        |               | 86        | 65-120      | 17  | 20        |                 |
| Benzidine  | 8.72   | 5.0             | N/A  | ug/l  | 10.0        |               | 87        | 30-160      | 9   | 35        |                 |
| Benzo(a)anthracene                                 | 9.10   | 5.0             | 0.10 | ug/l  | 10.0        |               | 91        | 65-120      | 20  | 20        |                 |
| Benzo(a)pyrene                                     | 9.66   | 2.0             | 0.10 | ug/l  | 10.0        |               | 97        | 55-130      | 15  | 25        |                 |
| Benzo(b)fluoranthene                               | 8.76   | 2.0             | 0.10 | ug/l  | 10.0        |               | 88        | 55-125      | 20  | 25        |                 |
| Benzo(g,h,i)perylene                               | 9.76   | 5.0             | 0.10 | ug/l  | 10.0        |               | 98        | 45-135      | 9   | 25        |                 |
| Benzo(k)fluoranthene                               | 8.24   | 0.50            | 0.10 | ug/l  | 10.0        |               | 82        | 50-125      | 18  | 20        |                 |
| Benzoic acid                                       | 7.98   | 20              | 3.0  | ug/l  | 10.0        |               | 80        | 25-120      | 16  | 30        | Ja              |
| Benzyl alcohol                                     | 8.12   | 5.0             | 0.10 | ug/l  | 10.0        |               | 81        | 50-120      | 24  | 20        | R-7             |
| 4-Bromophenyl phenyl ether                         | 9.08   | 1.0             | 0.10 | ug/l  | 10.0        |               | 91        | 60-120      | 16  | 25        |                 |
| Butyl benzyl phthalate                             | 8.86   | 5.0             | 0.70 | ug/l  | 10.0        |               | 89        | 55-130      | 16  | 20        |                 |
| 4-Chloro-3-methylphenol                            | 8.56   | 2.0             | 0.20 | ug/l  | 10.0        |               | 86        | 60-120      | 12  | 25        |                 |
| 4-Chloroaniline                                    | 8.30   | 2.0             | 0.10 | ug/l  | 10.0        |               | 83        | 55-120      | 29  | 25        | R-7             |
| Bis(2-chloroethoxy)methane                         | 8.32   | 0.50            | 0.10 | ug/l  | 10.0        |               | 83        | 55-120      | 23  | 20        | R-7             |
| Bis(2-chloroethyl)ether                            | 7.74   | 0.50            | 0.10 | ug/l  | 10.0        |               | 77        | 50-120      | 17  | 20        |                 |
| Bis(2-chloroisopropyl)ether                        | 7.66   | 0.50            | 0.10 | ug/l  | 10.0        |               | 77        | 45-120      | 18  | 20        |                 |
| Bis(2-ethylhexyl)phthalate                         | 9.40   | 5.0             | 1.7  | ug/l  | 10.0        |               | 94        | 65-130      | 17  | 20        |                 |
| 2-Chloronaphthalene                                | 7.28   | 0.50            | 0.10 | ug/l  | 10.0        |               | 73        | 60-120      | 16  | 20        |                 |
| 2-Chlorophenol                                     | 7.40   | 1.0             | 0.20 | ug/l  | 10.0        |               | 74        | 45-120      | 18  | 25        |                 |
| 4-Chlorophenyl phenyl ether                        | 8.24   | 0.50            | 0.10 | ug/l  | 10.0        |               | 82        | 65-120      | 19  | 20        |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>          |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>LCS Dup Analyzed: 02/24/2009 (9B21046-BSD1)</b> |        |                 |      |       |             |               |           |             |     |           |                 |
| Chrysene   | 8.42   | 0.50            | 0.10 | ug/l  | 10.0        |               | 84        | 65-120      | 17  | 20        |                 |
| Dibenz(a,h)anthracene                              | 9.22   | 0.50            | 0.10 | ug/l  | 10.0        |               | 92        | 50-135      | 16  | 25        |                 |
| Dibenzofuran                                       | 8.40   | 0.50            | 0.10 | ug/l  | 10.0        |               | 84        | 65-120      | 19  | 20        |                 |
| Di-n-butyl phthalate                               | 9.26   | 2.0             | 0.20 | ug/l  | 10.0        |               | 93        | 60-125      | 18  | 20        |                 |
| 1,2-Dichlorobenzene                                | 6.46   | 0.50            | 0.10 | ug/l  | 10.0        |               | 65        | 40-120      | 17  | 25        |                 |
| 1,3-Dichlorobenzene                                | 5.94   | 0.50            | 0.10 | ug/l  | 10.0        |               | 59        | 35-120      | 16  | 25        |                 |
| 1,4-Dichlorobenzene                                | 5.98   | 0.50            | 0.20 | ug/l  | 10.0        |               | 60        | 35-120      | 14  | 25        |                 |
| 3,3'-Dichlorobenzidine                             | 7.12   | 5.0             | N/A  | ug/l  | 10.0        |               | 71        | 45-135      | 20  | 25        |                 |
| 2,4-Dichlorophenol                                 | 7.76   | 2.0             | 0.20 | ug/l  | 10.0        |               | 78        | 55-120      | 18  | 20        |                 |
| Diethyl phthalate                                  | 8.38   | 1.0             | 0.10 | ug/l  | 10.0        |               | 84        | 55-120      | 21  | 30        |                 |
| 2,4-Dimethylphenol                                 | 7.34   | 2.0             | 0.30 | ug/l  | 10.0        |               | 73        | 40-120      | 25  | 25        |                 |
| Dimethyl phthalate                                 | 8.68   | 0.50            | 0.10 | ug/l  | 10.0        |               | 87        | 30-120      | 20  | 30        |                 |
| 4,6-Dinitro-2-methylphenol                         | 9.90   | 5.0             | 0.20 | ug/l  | 10.0        |               | 99        | 45-120      | 20  | 25        |                 |
| 2,4-Dinitrophenol                                  | 9.34   | 5.0             | 0.90 | ug/l  | 10.0        |               | 93        | 40-120      | 21  | 25        |                 |
| 2,4-Dinitrotoluene                                 | 8.52   | 5.0             | 0.20 | ug/l  | 10.0        |               | 85        | 65-120      | 20  | 20        |                 |
| 2,6-Dinitrotoluene                                 | 8.46   | 5.0             | 0.10 | ug/l  | 10.0        |               | 85        | 65-120      | 21  | 20        | R-7             |
| Di-n-octyl phthalate                               | 9.22   | 5.0             | 0.10 | ug/l  | 10.0        |               | 92        | 65-135      | 15  | 20        |                 |
| 1,2-Diphenylhydrazine/Azobenzene                   | 8.52   | 1.0             | 0.10 | ug/l  | 10.0        |               | 85        | 60-120      | 17  | 25        |                 |
| Fluoranthene                                       | 8.82   | 0.50            | 0.10 | ug/l  | 10.0        |               | 88        | 60-120      | 17  | 20        |                 |
| Fluorene   | 8.46   | 0.50            | 0.10 | ug/l  | 10.0        |               | 85        | 65-120      | 18  | 20        |                 |
| Hexachlorobenzene                                  | 8.02   | 1.0             | 0.10 | ug/l  | 10.0        |               | 80        | 60-120      | 15  | 20        |                 |
| Hexachlorobutadiene                                | 5.56   | 2.0             | 0.20 | ug/l  | 10.0        |               | 56        | 40-120      | 15  | 25        |                 |
| Hexachlorocyclopentadiene                          | 7.52   | 5.0             | 0.10 | ug/l  | 10.0        |               | 75        | 25-120      | 18  | 30        |                 |
| Hexachloroethane                                   | 5.46   | 3.0             | 0.20 | ug/l  | 10.0        |               | 55        | 35-120      | 13  | 25        |                 |
| Indeno(1,2,3-cd)pyrene                             | 9.54   | 2.0             | 0.10 | ug/l  | 10.0        |               | 95        | 45-135      | 15  | 25        |                 |
| Isophorone   | 7.96   | 1.0             | 0.10 | ug/l  | 10.0        |               | 80        | 50-120      | 30  | 20        | R-7             |
| 2-Methylnaphthalene                                | 7.94   | 1.0             | 0.10 | ug/l  | 10.0        |               | 79        | 55-120      | 16  | 20        |                 |
| 2-Methylphenol                                     | 7.76   | 2.0             | 0.10 | ug/l  | 10.0        |               | 78        | 50-120      | 21  | 20        | R-7             |
| 4-Methylphenol                                     | 7.82   | 5.0             | 0.20 | ug/l  | 10.0        |               | 78        | 50-120      | 20  | 20        |                 |
| Naphthalene  | 7.06   | 1.0             | 0.10 | ug/l  | 10.0        |               | 71        | 55-120      | 16  | 20        |                 |
| 2-Nitroaniline                                     | 8.56   | 5.0             | 0.10 | ug/l  | 10.0        |               | 86        | 65-120      | 18  | 20        |                 |
| 3-Nitroaniline                                     | 8.30   | 5.0             | 0.20 | ug/l  | 10.0        |               | 83        | 60-120      | 15  | 25        |                 |
| 4-Nitroaniline                                     | 8.76   | 5.0             | 0.50 | ug/l  | 10.0        |               | 88        | 55-125      | 23  | 20        | R-7             |
| Nitrobenzene                                       | 7.66   | 1.0             | 0.10 | ug/l  | 10.0        |               | 77        | 55-120      | 17  | 25        |                 |
| 2-Nitrophenol                                      | 7.36   | 2.0             | 0.10 | ug/l  | 10.0        |               | 74        | 50-120      | 17  | 25        |                 |

#### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

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

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B21046 Extracted: 02/21/09</b>          |        |                 |      |       |             |               |           |             |     |           |                 |
| <b>LCS Dup Analyzed: 02/24/2009 (9B21046-BSD1)</b> |        |                 |      |       |             |               |           |             |     |           |                 |
| 4-Nitrophenol                                      | 8.86   | 5.0             | 2.5  | ug/l  | 10.0        |               | 89        | 45-120      | 23  | 30        |                 |
| N-Nitroso-di-n-propylamine                         | 8.88   | 2.0             | 0.10 | ug/l  | 10.0        |               | 89        | 45-120      | 26  | 20        | R-7             |
| N-Nitrosodimethylamine                             | 7.60   | 2.0             | 0.10 | ug/l  | 10.0        |               | 76        | 45-120      | 15  | 20        |                 |
| N-Nitrosodiphenylamine                             | 9.12   | 1.0             | 0.10 | ug/l  | 10.0        |               | 91        | 60-120      | 16  | 20        |                 |
| Pentachlorophenol                                  | 8.92   | 2.0             | 0.10 | ug/l  | 10.0        |               | 89        | 50-120      | 19  | 25        |                 |
| Phenanthrene                                       | 8.18   | 0.50            | 0.10 | ug/l  | 10.0        |               | 82        | 65-120      | 17  | 20        |                 |
| Phenol   | 7.54   | 1.0             | 0.30 | ug/l  | 10.0        |               | 75        | 40-120      | 15  | 25        |                 |
| Pyrene   | 8.76   | 0.50            | 0.10 | ug/l  | 10.0        |               | 88        | 55-125      | 18  | 25        |                 |
| 1,2,4-Trichlorobenzene                             | 6.38   | 1.0             | 0.10 | ug/l  | 10.0        |               | 64        | 45-120      | 17  | 20        |                 |
| 2,4,5-Trichlorophenol                              | 8.24   | 2.0             | 0.20 | ug/l  | 10.0        |               | 82        | 55-120      | 14  | 30        |                 |
| 2,4,6-Trichlorophenol                              | 8.32   | 1.0             | 0.10 | ug/l  | 10.0        |               | 83        | 55-120      | 13  | 30        |                 |
| Surrogate: 2,4,6-Tribromophenol                    | 15.9   |                 |      | ug/l  | 20.0        |               | 79        | 40-120      |     |           |                 |
| Surrogate: 2-Fluorobiphenyl                        | 7.68   |                 |      | ug/l  | 10.0        |               | 77        | 50-120      |     |           |                 |
| Surrogate: 2-Fluorophenol                          | 13.5   |                 |      | ug/l  | 20.0        |               | 68        | 30-120      |     |           |                 |
| Surrogate: Nitrobenzene-d5                         | 7.84   |                 |      | ug/l  | 10.0        |               | 78        | 45-120      |     |           |                 |
| Surrogate: Phenol-d6                               | 14.7   |                 |      | ug/l  | 20.0        |               | 74        | 35-120      |     |           |                 |
| Surrogate: Terphenyl-d14                           | 9.44   |                 |      | ug/l  | 10.0        |               | 94        | 50-125      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte  | Result  | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|--|---------|-----------------|--------|-------|-------------|---------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B20074 Extracted: 02/20/09</b>        |         |                 |        |       |             |               |           |             |         |           |                 |
| <b>Blank Analyzed: 02/21/2009 (9B20074-BLK1)</b> |         |                 |        |       |             |               |           |             |         |           |                 |
| 4,4'-DDD   | ND      | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| 4,4'-DDE   | ND      | 0.0050          | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| 4,4'-DDT   | ND      | 0.010           | 0.0040 | ug/l  |             |               |           |             |         |           |                 |
| Aldrin   | ND      | 0.0050          | 0.0015 | ug/l  |             |               |           |             |         |           |                 |
| alpha-BHC  | 0.00634 | 0.0050          | 0.0025 | ug/l  |             |               |           |             |         |           | B, N2           |
| beta-BHC   | ND      | 0.010           | 0.0040 | ug/l  |             |               |           |             |         |           |                 |
| delta-BHC  | ND      | 0.0050          | 0.0035 | ug/l  |             |               |           |             |         |           |                 |
| Dieldrin   | ND      | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan I                                     | ND      | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan II                                    | ND      | 0.0050          | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan sulfate                               | ND      | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Endrin   | ND      | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endrin aldehyde                                  | ND      | 0.010           | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endrin ketone                                    | ND      | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| gamma-BHC (Lindane)                              | ND      | 0.020           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Heptachlor                                       | ND      | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Heptachlor epoxide                               | ND      | 0.0050          | 0.0025 | ug/l  |             |               |           |             |         |           |                 |
| Methoxychlor                                     | ND      | 0.0050          | 0.0035 | ug/l  |             |               |           |             |         |           |                 |
| Chlordane  | ND      | 0.10            | 0.040  | ug/l  |             |               |           |             |         |           |                 |
| Toxaphene  | ND      | 0.50            | 0.25   | ug/l  |             |               |           |             |         |           |                 |
| Surrogate: Decachlorobiphenyl                    | 0.416   |                 |        | ug/l  | 0.500       |               | 83        | 45-120      |         |           |                 |
| Surrogate: Tetrachloro-m-xylene                  | 0.380   |                 |        | ug/l  | 0.500       |               | 76        | 35-115      |         |           |                 |

### LCS Analyzed: 02/20/2009 (9B20074-BS1)

|                    |       |        |        |      |       |  |     |        |  |  |  |
|--------------------|-------|--------|--------|------|-------|--|-----|--------|--|--|--|
| 4,4'-DDD           | 0.525 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 105 | 55-120 |  |  |  |
| 4,4'-DDE           | 0.489 | 0.0050 | 0.0030 | ug/l | 0.500 |  | 98  | 50-120 |  |  |  |
| 4,4'-DDT           | 0.465 | 0.010  | 0.0040 | ug/l | 0.500 |  | 93  | 55-120 |  |  |  |
| Aldrin             | 0.424 | 0.0050 | 0.0015 | ug/l | 0.500 |  | 85  | 40-115 |  |  |  |
| alpha-BHC          | 0.494 | 0.0050 | 0.0025 | ug/l | 0.500 |  | 99  | 45-115 |  |  |  |
| beta-BHC           | 0.482 | 0.010  | 0.0040 | ug/l | 0.500 |  | 96  | 55-115 |  |  |  |
| delta-BHC          | 0.500 | 0.0050 | 0.0035 | ug/l | 0.500 |  | 100 | 55-115 |  |  |  |
| Dieldrin           | 0.474 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 95  | 55-115 |  |  |  |
| Endosulfan I       | 0.438 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 88  | 55-115 |  |  |  |
| Endosulfan II      | 0.471 | 0.0050 | 0.0030 | ug/l | 0.500 |  | 94  | 55-120 |  |  |  |
| Endosulfan sulfate | 0.474 | 0.010  | 0.0030 | ug/l | 0.500 |  | 95  | 60-120 |  |  |  |
| Endrin             | 0.486 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 97  | 55-115 |  |  |  |

MNR1

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte  | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B20074 Extracted: 02/20/09</b>          |        |                 |        |       |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 02/20/2009 (9B20074-BS1)</b>      |        |                 |        |       |             |               |           |             |     |           |                 |
| Endrin aldehyde                                    | 0.555  | 0.010           | 0.0020 | ug/l  | 0.500       |               | 111       | 50-120      |     |           | MNR1            |
| Endrin ketone                                      | 0.452  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 90        | 55-120      |     |           |                 |
| gamma-BHC (Lindane)                                | 0.451  | 0.020           | 0.0030 | ug/l  | 0.500       |               | 90        | 45-115      |     |           |                 |
| Heptachlor   | 0.442  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 88        | 45-115      |     |           |                 |
| Heptachlor epoxide                                 | 0.440  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 88        | 55-115      |     |           |                 |
| Methoxychlor                                       | 0.478  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 96        | 60-120      |     |           |                 |
| Surrogate: Decachlorobiphenyl                      | 0.393  |                 |        | ug/l  | 0.500       |               | 79        | 45-120      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                    | 0.359  |                 |        | ug/l  | 0.500       |               | 72        | 35-115      |     |           |                 |
| <b>LCS Dup Analyzed: 02/20/2009 (9B20074-BSD1)</b> |        |                 |        |       |             |               |           |             |     |           |                 |
| 4,4'-DDD   | 0.494  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 99        | 55-120      | 6   | 30        |                 |
| 4,4'-DDE   | 0.453  | 0.0050          | 0.0030 | ug/l  | 0.500       |               | 91        | 50-120      | 8   | 30        |                 |
| 4,4'-DDT   | 0.438  | 0.010           | 0.0040 | ug/l  | 0.500       |               | 88        | 55-120      | 6   | 30        |                 |
| Aldrin   | 0.396  | 0.0050          | 0.0015 | ug/l  | 0.500       |               | 79        | 40-115      | 7   | 30        |                 |
| alpha-BHC  | 0.454  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 91        | 45-115      | 9   | 30        |                 |
| beta-BHC   | 0.438  | 0.010           | 0.0040 | ug/l  | 0.500       |               | 88        | 55-115      | 10  | 30        |                 |
| delta-BHC  | 0.472  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 94        | 55-115      | 6   | 30        |                 |
| Dieldrin   | 0.452  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 90        | 55-115      | 5   | 30        |                 |
| Endosulfan I                                       | 0.419  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 84        | 55-115      | 4   | 30        |                 |
| Endosulfan II                                      | 0.454  | 0.0050          | 0.0030 | ug/l  | 0.500       |               | 91        | 55-120      | 4   | 30        |                 |
| Endosulfan sulfate                                 | 0.453  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 91        | 60-120      | 5   | 30        |                 |
| Endrin   | 0.456  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 91        | 55-115      | 6   | 30        |                 |
| Endrin aldehyde                                    | 0.469  | 0.010           | 0.0020 | ug/l  | 0.500       |               | 94        | 50-120      | 17  | 30        |                 |
| Endrin ketone                                      | 0.436  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 87        | 55-120      | 4   | 30        |                 |
| gamma-BHC (Lindane)                                | 0.415  | 0.020           | 0.0030 | ug/l  | 0.500       |               | 83        | 45-115      | 8   | 30        |                 |
| Heptachlor   | 0.410  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 82        | 45-115      | 8   | 30        |                 |
| Heptachlor epoxide                                 | 0.422  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 84        | 55-115      | 4   | 30        |                 |
| Methoxychlor                                       | 0.449  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 90        | 60-120      | 6   | 30        |                 |
| Surrogate: Decachlorobiphenyl                      | 0.378  |                 |        | ug/l  | 0.500       |               | 76        | 45-120      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                    | 0.338  |                 |        | ug/l  | 0.500       |               | 68        | 35-115      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte  | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B23113 Extracted: 02/23/09</b>        |        |                 |        |       |             |               |           |             |         |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B23113-BLK1)</b> |        |                 |        |       |             |               |           |             |         |           |                 |
| 4,4'-DDD   | ND     | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| 4,4'-DDE   | ND     | 0.0050          | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| 4,4'-DDT   | ND     | 0.010           | 0.0040 | ug/l  |             |               |           |             |         |           |                 |
| Aldrin   | ND     | 0.0050          | 0.0015 | ug/l  |             |               |           |             |         |           |                 |
| alpha-BHC  | ND     | 0.0050          | 0.0025 | ug/l  |             |               |           |             |         |           |                 |
| beta-BHC   | ND     | 0.010           | 0.0040 | ug/l  |             |               |           |             |         |           |                 |
| delta-BHC  | ND     | 0.0050          | 0.0035 | ug/l  |             |               |           |             |         |           |                 |
| Dieldrin   | ND     | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan I                                     | ND     | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan II                                    | ND     | 0.0050          | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Endosulfan sulfate                               | ND     | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Endrin   | ND     | 0.0050          | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endrin aldehyde                                  | ND     | 0.010           | 0.0020 | ug/l  |             |               |           |             |         |           |                 |
| Endrin ketone                                    | ND     | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| gamma-BHC (Lindane)                              | ND     | 0.020           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Heptachlor                                       | ND     | 0.010           | 0.0030 | ug/l  |             |               |           |             |         |           |                 |
| Heptachlor epoxide                               | ND     | 0.0050          | 0.0025 | ug/l  |             |               |           |             |         |           |                 |
| Methoxychlor                                     | ND     | 0.0050          | 0.0035 | ug/l  |             |               |           |             |         |           |                 |
| Chlordane  | ND     | 0.10            | 0.040  | ug/l  |             |               |           |             |         |           |                 |
| Toxaphene  | ND     | 0.50            | 0.25   | ug/l  |             |               |           |             |         |           |                 |
| Surrogate: Decachlorobiphenyl                    | 0.456  |                 |        | ug/l  | 0.500       |               | 91        | 45-120      |         |           |                 |
| Surrogate: Tetrachloro-m-xylene                  | 0.462  |                 |        | ug/l  | 0.500       |               | 92        | 35-115      |         |           |                 |

### LCS Analyzed: 02/24/2009 (9B23113-BS1)

|                    |       |        |        |      |       |  |     |        |  |  |  |
|--------------------|-------|--------|--------|------|-------|--|-----|--------|--|--|--|
| 4,4'-DDD           | 0.501 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 100 | 55-120 |  |  |  |
| 4,4'-DDE           | 0.510 | 0.0050 | 0.0030 | ug/l | 0.500 |  | 102 | 50-120 |  |  |  |
| 4,4'-DDT           | 0.531 | 0.010  | 0.0040 | ug/l | 0.500 |  | 106 | 55-120 |  |  |  |
| Aldrin             | 0.470 | 0.0050 | 0.0015 | ug/l | 0.500 |  | 94  | 40-115 |  |  |  |
| alpha-BHC          | 0.534 | 0.0050 | 0.0025 | ug/l | 0.500 |  | 107 | 45-115 |  |  |  |
| beta-BHC           | 0.509 | 0.010  | 0.0040 | ug/l | 0.500 |  | 102 | 55-115 |  |  |  |
| delta-BHC          | 0.523 | 0.0050 | 0.0035 | ug/l | 0.500 |  | 105 | 55-115 |  |  |  |
| Dieldrin           | 0.493 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 99  | 55-115 |  |  |  |
| Endosulfan I       | 0.457 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 91  | 55-115 |  |  |  |
| Endosulfan II      | 0.492 | 0.0050 | 0.0030 | ug/l | 0.500 |  | 98  | 55-120 |  |  |  |
| Endosulfan sulfate | 0.486 | 0.010  | 0.0030 | ug/l | 0.500 |  | 97  | 60-120 |  |  |  |
| Endrin             | 0.498 | 0.0050 | 0.0020 | ug/l | 0.500 |  | 100 | 55-115 |  |  |  |

MNR1

### 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: Annual Outfall 002  
Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

### ORGANOCHLORINE PESTICIDES (EPA 608)

| Analyte  | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B23113 Extracted: 02/23/09</b>          |        |                 |        |       |             |               |           |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B23113-BS1)</b>      |        |                 |        |       |             |               |           |             |     |           |                 |
| Endrin aldehyde                                    | 0.522  | 0.010           | 0.0020 | ug/l  | 0.500       |               | 104       | 50-120      |     |           | MNR1            |
| Endrin ketone                                      | 0.469  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 94        | 55-120      |     |           |                 |
| gamma-BHC (Lindane)                                | 0.485  | 0.020           | 0.0030 | ug/l  | 0.500       |               | 97        | 45-115      |     |           |                 |
| Heptachlor   | 0.501  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 100       | 45-115      |     |           |                 |
| Heptachlor epoxide                                 | 0.468  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 94        | 55-115      |     |           |                 |
| Methoxychlor                                       | 0.527  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 105       | 60-120      |     |           |                 |
| Surrogate: Decachlorobiphenyl                      | 0.439  |                 |        | ug/l  | 0.500       |               | 88        | 45-120      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                    | 0.405  |                 |        | ug/l  | 0.500       |               | 81        | 35-115      |     |           |                 |
| <b>LCS Dup Analyzed: 02/24/2009 (9B23113-BSD1)</b> |        |                 |        |       |             |               |           |             |     |           |                 |
| 4,4'-DDD   | 0.506  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 101       | 55-120      | 1   | 30        |                 |
| 4,4'-DDE   | 0.507  | 0.0050          | 0.0030 | ug/l  | 0.500       |               | 101       | 50-120      | 1   | 30        |                 |
| 4,4'-DDT   | 0.530  | 0.010           | 0.0040 | ug/l  | 0.500       |               | 106       | 55-120      | 0   | 30        |                 |
| Aldrin   | 0.467  | 0.0050          | 0.0015 | ug/l  | 0.500       |               | 93        | 40-115      | 1   | 30        |                 |
| alpha-BHC  | 0.510  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 102       | 45-115      | 5   | 30        |                 |
| beta-BHC   | 0.507  | 0.010           | 0.0040 | ug/l  | 0.500       |               | 101       | 55-115      | 0   | 30        |                 |
| delta-BHC  | 0.520  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 104       | 55-115      | 1   | 30        |                 |
| Dieldrin   | 0.490  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 98        | 55-115      | 1   | 30        |                 |
| Endosulfan I                                       | 0.456  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 91        | 55-115      | 0   | 30        |                 |
| Endosulfan II                                      | 0.487  | 0.0050          | 0.0030 | ug/l  | 0.500       |               | 97        | 55-120      | 1   | 30        |                 |
| Endosulfan sulfate                                 | 0.488  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 98        | 60-120      | 0   | 30        |                 |
| Endrin   | 0.496  | 0.0050          | 0.0020 | ug/l  | 0.500       |               | 99        | 55-115      | 0   | 30        |                 |
| Endrin aldehyde                                    | 0.525  | 0.010           | 0.0020 | ug/l  | 0.500       |               | 105       | 50-120      | 1   | 30        |                 |
| Endrin ketone                                      | 0.470  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 94        | 55-120      | 0   | 30        |                 |
| gamma-BHC (Lindane)                                | 0.482  | 0.020           | 0.0030 | ug/l  | 0.500       |               | 96        | 45-115      | 1   | 30        |                 |
| Heptachlor   | 0.496  | 0.010           | 0.0030 | ug/l  | 0.500       |               | 99        | 45-115      | 1   | 30        |                 |
| Heptachlor epoxide                                 | 0.465  | 0.0050          | 0.0025 | ug/l  | 0.500       |               | 93        | 55-115      | 1   | 30        |                 |
| Methoxychlor                                       | 0.532  | 0.0050          | 0.0035 | ug/l  | 0.500       |               | 106       | 60-120      | 1   | 30        |                 |
| Surrogate: Decachlorobiphenyl                      | 0.441  |                 |        | ug/l  | 0.500       |               | 88        | 45-120      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                    | 0.401  |                 |        | ug/l  | 0.500       |               | 80        | 35-115      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### TOTAL PCBS (EPA 608)

| Analyte  | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result | %REC %REC | RECLimits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|-------|-------------|---------------|-----------|-----------|-----|-----------|-----------------|
| <b>Batch: 9B20074 Extracted: 02/20/09</b>          |        |                 |      |       |             |               |           |           |     |           |                 |
| <b>Blank Analyzed: 02/21/2009 (9B20074-BLK1)</b>   |        |                 |      |       |             |               |           |           |     |           |                 |
| Aroclor 1016                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1221                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1232                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1242                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1248                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1254                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Aroclor 1260                                       | ND     | 0.50            | 0.25 | ug/l  |             |               |           |           |     |           |                 |
| Surrogate: Decachlorobiphenyl                      | 0.480  |                 |      | ug/l  | 0.500       |               | 96        | 45-120    |     |           |                 |
| <b>LCS Analyzed: 02/20/2009 (9B20074-BS2)</b>      |        |                 |      |       |             |               |           |           |     |           |                 |
| Aroclor 1016                                       | 3.62   | 0.50            | 0.25 | ug/l  | 4.00        |               | 91        | 50-115    |     |           | MNR1            |
| Aroclor 1260                                       | 3.73   | 0.50            | 0.25 | ug/l  | 4.00        |               | 93        | 60-120    |     |           |                 |
| Surrogate: Decachlorobiphenyl                      | 0.476  |                 |      | ug/l  | 0.500       |               | 95        | 45-120    |     |           |                 |
| <b>LCS Dup Analyzed: 02/20/2009 (9B20074-BSD2)</b> |        |                 |      |       |             |               |           |           |     |           |                 |
| Aroclor 1016                                       | 3.72   | 0.50            | 0.25 | ug/l  | 4.00        |               | 93        | 50-115    | 3   | 30        |                 |
| Aroclor 1260                                       | 3.73   | 0.50            | 0.25 | ug/l  | 4.00        |               | 93        | 60-120    | 0   | 25        |                 |
| Surrogate: Decachlorobiphenyl                      | 0.476  |                 |      | ug/l  | 0.500       |               | 95        | 45-120    |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### HEXANE EXTRACTABLE MATERIAL

| Analyte  | Result | Reporting Limit | MDL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-----|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B24074 Extracted: 02/24/09</b>              |        |                 |     |       |             |               |      |             |     |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B24074-BLK1)</b>       |        |                 |     |       |             |               |      |             |     |           |                 |
| Hexane Extractable Material (Oil & Grease)             | ND     | 5.0             | 1.4 | mg/l  |             |               |      |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B24074-BS1)</b>          |        |                 |     |       |             |               |      |             |     |           |                 |
| Hexane Extractable Material (Oil & Grease)             | 19.2   | 5.0             | 1.4 | mg/l  | 20.0        |               | 96   | 78-114      |     |           |                 |
| <b>LCS Dup Analyzed: 02/24/2009 (9B24074-BSD1)</b>     |        |                 |     |       |             |               |      |             |     |           |                 |
| Hexane Extractable Material (Oil & Grease)             | 18.8   | 5.0             | 1.4 | mg/l  | 20.0        |               | 94   | 78-114      | 2   | 11        |                 |
| <b>Matrix Spike Analyzed: 02/24/2009 (9B24074-MS1)</b> |        |                 |     |       |             |               |      |             |     |           |                 |
| Hexane Extractable Material (Oil & Grease)             | 21.1   | 4.8             | 1.3 | mg/l  | 19.1        | 3.73          | 90   | 78-114      |     |           |                 |

Source: ISB2624-01

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### METALS

| Analyte  | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | RPD Limits | RPD RPD | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------|-----------|------------|---------|-----------------|
| <b>Batch: 9B17091 Extracted: 02/17/09</b>        |        |                 |        |       |             |               |           |            |         |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17091-BLK1)</b> |        |                 |        |       |             |               |           |            |         |                 |
| Arsenic  | ND     | 10              | 7.0    | ug/l  |             |               |           |            |         |                 |
| Barium   | ND     | 0.010           | 0.0060 | mg/l  |             |               |           |            |         |                 |
| Beryllium  | ND     | 2.0             | 0.90   | ug/l  |             |               |           |            |         |                 |
| Boron  | ND     | 0.050           | 0.020  | mg/l  |             |               |           |            |         |                 |
| Calcium  | ND     | 0.10            | 0.050  | mg/l  |             |               |           |            |         |                 |
| Chromium   | 4.13   | 5.0             | 2.0    | ug/l  |             |               |           |            |         | Ja              |
| Cobalt   | ND     | 10              | 2.0    | ug/l  |             |               |           |            |         |                 |
| Iron   | 0.0168 | 0.040           | 0.015  | mg/l  |             |               |           |            |         | Ja              |
| Magnesium  | ND     | 0.020           | 0.012  | mg/l  |             |               |           |            |         |                 |
| Manganese  | ND     | 20              | 7.0    | ug/l  |             |               |           |            |         |                 |
| Nickel   | 2.91   | 10              | 2.0    | ug/l  |             |               |           |            |         | B, Ja           |
| Vanadium   | ND     | 10              | 3.0    | ug/l  |             |               |           |            |         |                 |
| Zinc   | ND     | 20              | 6.0    | ug/l  |             |               |           |            |         |                 |
| <b>LCS Analyzed: 02/17/2009 (9B17091-BS1)</b>    |        |                 |        |       |             |               |           |            |         |                 |
| Arsenic  | 499    | 10              | 7.0    | ug/l  | 500         |               | 100       | 85-115     |         |                 |
| Barium   | 0.531  | 0.010           | 0.0060 | mg/l  | 0.500       |               | 106       | 85-115     |         |                 |
| Beryllium  | 478    | 2.0             | 0.90   | ug/l  | 500         |               | 96        | 85-115     |         |                 |
| Boron  | 0.497  | 0.050           | 0.020  | mg/l  | 0.500       |               | 99        | 85-115     |         |                 |
| Calcium  | 2.41   | 0.10            | 0.050  | mg/l  | 2.50        |               | 96        | 85-115     |         |                 |
| Chromium   | 477    | 5.0             | 2.0    | ug/l  | 500         |               | 95        | 85-115     |         |                 |
| Cobalt   | 461    | 10              | 2.0    | ug/l  | 500         |               | 92        | 85-115     |         |                 |
| Iron   | 0.487  | 0.040           | 0.015  | mg/l  | 0.500       |               | 97        | 85-115     |         |                 |
| Magnesium  | 2.41   | 0.020           | 0.012  | mg/l  | 2.50        |               | 97        | 85-115     |         |                 |
| Manganese  | 475    | 20              | 7.0    | ug/l  | 500         |               | 95        | 85-115     |         |                 |
| Nickel   | 486    | 10              | 2.0    | ug/l  | 500         |               | 97        | 85-115     |         |                 |
| Vanadium   | 497    | 10              | 3.0    | ug/l  | 500         |               | 99        | 85-115     |         |                 |
| Zinc   | 482    | 20              | 6.0    | ug/l  | 500         |               | 96        | 85-115     |         |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## METHOD BLANK/QC DATA

### METALS

| Analyte  | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17091 Extracted: 02/17/09</b>              |        |                 |        |       |             |                           |           |             |     |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B17091-MS1)</b> |        |                 |        |       |             | <b>Source: ISB1812-01</b> |           |             |     |           |                 |
| Arsenic  | 552    | 10              | 7.0    | ug/l  | 500         | 48.0                      | 101       | 70-130      |     |           |                 |
| Barium   | 1.81   | 0.010           | 0.0060 | mg/l  | 0.500       | 1.27                      | 108       | 70-130      |     |           |                 |
| Beryllium  | 483    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 97        | 70-130      |     |           |                 |
| Boron  | 2.46   | 0.050           | 0.020  | mg/l  | 0.500       | 1.91                      | 109       | 70-130      |     |           |                 |
| Calcium  | 39.5   | 0.10            | 0.050  | mg/l  | 2.50        | 37.3                      | 90        | 70-130      |     |           | MHA             |
| Chromium   | 483    | 5.0             | 2.0    | ug/l  | 500         | 6.42                      | 95        | 70-130      |     |           |                 |
| Cobalt   | 467    | 10              | 2.0    | ug/l  | 500         | ND                        | 93        | 70-130      |     |           |                 |
| Iron   | 1.36   | 0.040           | 0.015  | mg/l  | 0.500       | 0.753                     | 122       | 70-130      |     |           |                 |
| Magnesium  | 14.0   | 0.020           | 0.012  | mg/l  | 2.50        | 11.5                      | 98        | 70-130      |     |           | MHA             |
| Manganese  | 549    | 20              | 7.0    | ug/l  | 500         | 68.9                      | 96        | 70-130      |     |           |                 |
| Nickel   | 487    | 10              | 2.0    | ug/l  | 500         | 9.87                      | 95        | 70-130      |     |           |                 |
| Vanadium   | 502    | 10              | 3.0    | ug/l  | 500         | ND                        | 100       | 70-130      |     |           |                 |
| Zinc   | 511    | 20              | 6.0    | ug/l  | 500         | 26.8                      | 97        | 70-130      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B17091-MS2)</b> |        |                 |        |       |             | <b>Source: ISB1812-02</b> |           |             |     |           |                 |
| Arsenic  | 494    | 10              | 7.0    | ug/l  | 500         | ND                        | 99        | 70-130      |     |           |                 |
| Barium   | 0.841  | 0.010           | 0.0060 | mg/l  | 0.500       | 0.323                     | 104       | 70-130      |     |           |                 |
| Beryllium  | 470    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 94        | 70-130      |     |           |                 |
| Boron  | 1.20   | 0.050           | 0.020  | mg/l  | 0.500       | 0.720                     | 95        | 70-130      |     |           |                 |
| Calcium  | 133    | 0.10            | 0.050  | mg/l  | 2.50        | 133                       | 20        | 70-130      |     |           | MHA             |
| Chromium   | 463    | 5.0             | 2.0    | ug/l  | 500         | 4.84                      | 92        | 70-130      |     |           |                 |
| Cobalt   | 451    | 10              | 2.0    | ug/l  | 500         | ND                        | 90        | 70-130      |     |           |                 |
| Iron   | 0.961  | 0.040           | 0.015  | mg/l  | 0.500       | 0.487                     | 95        | 70-130      |     |           |                 |
| Magnesium  | 35.7   | 0.020           | 0.012  | mg/l  | 2.50        | 33.8                      | 79        | 70-130      |     |           | MHA             |
| Manganese  | 519    | 20              | 7.0    | ug/l  | 500         | 53.2                      | 93        | 70-130      |     |           |                 |
| Nickel   | 463    | 10              | 2.0    | ug/l  | 500         | 4.44                      | 92        | 70-130      |     |           |                 |
| Vanadium   | 489    | 10              | 3.0    | ug/l  | 500         | 3.53                      | 97        | 70-130      |     |           |                 |
| Zinc   | 511    | 20              | 6.0    | ug/l  | 500         | 38.2                      | 95        | 70-130      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### METALS

| Analyte   | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17091 Extracted: 02/17/09</b>                   |        |                 |        |       |             |                           |           |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/17/2009 (9B17091-MSD1)</b> |        |                 |        |       |             | <b>Source: ISB1812-01</b> |           |             |     |           |                 |
| Arsenic   | 545    | 10              | 7.0    | ug/l  | 500         | 48.0                      | 99        | 70-130      | 1   | 20        |                 |
| Barium  | 1.78   | 0.010           | 0.0060 | mg/l  | 0.500       | 1.27                      | 101       | 70-130      | 2   | 20        |                 |
| Beryllium   | 477    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 95        | 70-130      | 1   | 20        |                 |
| Boron   | 2.40   | 0.050           | 0.020  | mg/l  | 0.500       | 1.91                      | 97        | 70-130      | 2   | 20        |                 |
| Calcium   | 39.4   | 0.10            | 0.050  | mg/l  | 2.50        | 37.3                      | 85        | 70-130      | 0   | 20        | MHA             |
| Chromium  | 472    | 5.0             | 2.0    | ug/l  | 500         | 6.42                      | 93        | 70-130      | 2   | 20        |                 |
| Cobalt  | 460    | 10              | 2.0    | ug/l  | 500         | ND                        | 92        | 70-130      | 1   | 20        |                 |
| Iron  | 1.25   | 0.040           | 0.015  | mg/l  | 0.500       | 0.753                     | 100       | 70-130      | 8   | 20        |                 |
| Magnesium   | 13.8   | 0.020           | 0.012  | mg/l  | 2.50        | 11.5                      | 91        | 70-130      | 1   | 20        | MHA             |
| Manganese   | 541    | 20              | 7.0    | ug/l  | 500         | 68.9                      | 94        | 70-130      | 1   | 20        |                 |
| Nickel  | 479    | 10              | 2.0    | ug/l  | 500         | 9.87                      | 94        | 70-130      | 2   | 20        |                 |
| Vanadium  | 494    | 10              | 3.0    | ug/l  | 500         | ND                        | 99        | 70-130      | 1   | 20        |                 |
| Zinc  | 505    | 20              | 6.0    | ug/l  | 500         | 26.8                      | 96        | 70-130      | 1   | 20        |                 |

**Batch: 9B23088 Extracted: 02/23/09**

**Blank Analyzed: 02/24/2009 (9B23088-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 |  |  |  |  |  |  |    |
| Selenium | 0.402 | 2.0 | 0.30 | ug/l |  |  |  |  |  |  | Ja |
| Silver   | ND    | 1.0 | 0.30 | ug/l |  |  |  |  |  |  |    |
| Thallium | ND    | 1.0 | 0.20 | ug/l |  |  |  |  |  |  |    |

**LCS Analyzed: 02/24/2009 (9B23088-BS1)**

|          |      |     |      |      |      |  |     |        |  |  |  |
|----------|------|-----|------|------|------|--|-----|--------|--|--|--|
| Antimony | 81.2 | 2.0 | 0.20 | ug/l | 80.0 |  | 102 | 85-115 |  |  |  |
| Cadmium  | 79.6 | 1.0 | 0.11 | ug/l | 80.0 |  | 100 | 85-115 |  |  |  |
| Copper   | 80.0 | 2.0 | 0.75 | ug/l | 80.0 |  | 100 | 85-115 |  |  |  |
| Lead     | 83.7 | 1.0 | 0.30 | ug/l | 80.0 |  | 105 | 85-115 |  |  |  |
| Selenium | 77.8 | 2.0 | 0.30 | ug/l | 80.0 |  | 97  | 85-115 |  |  |  |
| Silver   | 80.2 | 1.0 | 0.30 | ug/l | 80.0 |  | 100 | 85-115 |  |  |  |
| Thallium | 83.6 | 1.0 | 0.20 | ug/l | 80.0 |  | 104 | 85-115 |  |  |  |

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## METHOD BLANK/QC DATA

### METALS

| Analyte   | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B23088 Extracted: 02/23/09</b>                   |        |                 |      |       |             |                           |           |             |     |           |                 |
| <b>Matrix Spike Analyzed: 02/24/2009 (9B23088-MS1)</b>      |        |                 |      |       |             | <b>Source: ISB1530-03</b> |           |             |     |           |                 |
| Antimony  | 85.5   | 2.0             | 0.20 | ug/l  | 80.0        | 0.241                     | 107       | 70-130      |     |           |                 |
| Cadmium   | 84.1   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 105       | 70-130      |     |           |                 |
| Copper  | 75.7   | 2.0             | 0.75 | ug/l  | 80.0        | 1.56                      | 93        | 70-130      |     |           |                 |
| Lead  | 76.4   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 95        | 70-130      |     |           |                 |
| Selenium  | 76.0   | 2.0             | 0.30 | ug/l  | 80.0        | ND                        | 95        | 70-130      |     |           |                 |
| Silver  | 82.5   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 103       | 70-130      |     |           |                 |
| Thallium  | 77.3   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 97        | 70-130      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/24/2009 (9B23088-MS2)</b>      |        |                 |      |       |             | <b>Source: ISB1780-01</b> |           |             |     |           |                 |
| Antimony  | 82.0   | 2.0             | 0.20 | ug/l  | 80.0        | ND                        | 102       | 70-130      |     |           |                 |
| Cadmium   | 79.0   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 99        | 70-130      |     |           |                 |
| Copper  | 74.4   | 2.0             | 0.75 | ug/l  | 80.0        | 1.17                      | 92        | 70-130      |     |           |                 |
| Lead  | 77.8   | 1.0             | 0.30 | ug/l  | 80.0        | 0.676                     | 96        | 70-130      |     |           |                 |
| Selenium  | 75.3   | 2.0             | 0.30 | ug/l  | 80.0        | 0.988                     | 93        | 70-130      |     |           |                 |
| Silver  | 77.0   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 96        | 70-130      |     |           |                 |
| Thallium  | 77.9   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 97        | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/24/2009 (9B23088-MSD1)</b> |        |                 |      |       |             | <b>Source: ISB1530-03</b> |           |             |     |           |                 |
| Antimony  | 85.0   | 2.0             | 0.20 | ug/l  | 80.0        | 0.241                     | 106       | 70-130      | 1   | 20        |                 |
| Cadmium   | 81.7   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 102       | 70-130      | 3   | 20        |                 |
| Copper  | 75.5   | 2.0             | 0.75 | ug/l  | 80.0        | 1.56                      | 92        | 70-130      | 0   | 20        |                 |
| Lead  | 76.0   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 95        | 70-130      | 1   | 20        |                 |
| Selenium  | 74.4   | 2.0             | 0.30 | ug/l  | 80.0        | ND                        | 93        | 70-130      | 2   | 20        |                 |
| Silver  | 79.7   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 100       | 70-130      | 3   | 20        |                 |
| Thallium  | 78.0   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 97        | 70-130      | 1   | 20        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### DISSOLVED METALS

| Analyte   | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B20105 Extracted: 02/20/09</b>                   |        |                 |        |       |             |               |           |             |         |           |                 |
| <b>Blank Analyzed: 02/21/2009-02/24/2009 (9B20105-BLK1)</b> |        |                 |        |       |             |               |           |             |         |           |                 |
| Arsenic   | ND     | 10              | 7.0    | ug/l  |             |               |           |             |         |           |                 |
| Barium  | ND     | 0.010           | 0.0060 | mg/l  |             |               |           |             |         |           |                 |
| Beryllium   | ND     | 2.0             | 0.90   | ug/l  |             |               |           |             |         |           |                 |
| Boron   | ND     | 0.050           | 0.020  | mg/l  |             |               |           |             |         |           |                 |
| Calcium   | ND     | 0.10            | 0.050  | mg/l  |             |               |           |             |         |           |                 |
| Chromium  | ND     | 5.0             | 2.0    | ug/l  |             |               |           |             |         |           |                 |
| Cobalt  | ND     | 10              | 2.0    | ug/l  |             |               |           |             |         |           |                 |
| Iron  | ND     | 0.040           | 0.015  | mg/l  |             |               |           |             |         |           |                 |
| Magnesium   | ND     | 0.020           | 0.012  | mg/l  |             |               |           |             |         |           |                 |
| Manganese   | ND     | 20              | 7.0    | ug/l  |             |               |           |             |         |           |                 |
| Nickel  | ND     | 10              | 2.0    | ug/l  |             |               |           |             |         |           |                 |
| Vanadium  | ND     | 10              | 3.0    | ug/l  |             |               |           |             |         |           |                 |
| Zinc  | ND     | 20              | 6.0    | ug/l  |             |               |           |             |         |           |                 |
| <b>LCS Analyzed: 02/21/2009-02/24/2009 (9B20105-BS1)</b>    |        |                 |        |       |             |               |           |             |         |           |                 |
| Arsenic   | 490    | 10              | 7.0    | ug/l  | 500         |               | 98        | 85-115      |         |           |                 |
| Barium  | 0.492  | 0.010           | 0.0060 | mg/l  | 0.500       |               | 98        | 85-115      |         |           |                 |
| Beryllium   | 479    | 2.0             | 0.90   | ug/l  | 500         |               | 96        | 85-115      |         |           |                 |
| Boron   | 0.473  | 0.050           | 0.020  | mg/l  | 0.500       |               | 95        | 85-115      |         |           |                 |
| Calcium   | 2.54   | 0.10            | 0.050  | mg/l  | 2.50        |               | 101       | 85-115      |         |           |                 |
| Chromium  | 488    | 5.0             | 2.0    | ug/l  | 500         |               | 98        | 85-115      |         |           |                 |
| Cobalt  | 478    | 10              | 2.0    | ug/l  | 500         |               | 96        | 85-115      |         |           |                 |
| Iron  | 0.508  | 0.040           | 0.015  | mg/l  | 0.500       |               | 102       | 85-115      |         |           |                 |
| Magnesium   | 2.50   | 0.020           | 0.012  | mg/l  | 2.50        |               | 100       | 85-115      |         |           |                 |
| Manganese   | 490    | 20              | 7.0    | ug/l  | 500         |               | 98        | 85-115      |         |           |                 |
| Nickel  | 483    | 10              | 2.0    | ug/l  | 500         |               | 97        | 85-115      |         |           |                 |
| Vanadium  | 484    | 10              | 3.0    | ug/l  | 500         |               | 97        | 85-115      |         |           |                 |
| Zinc  | 477    | 20              | 6.0    | ug/l  | 500         |               | 95        | 85-115      |         |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### DISSOLVED METALS

| Analyte   | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|-----------|-------------|---------|-----------|-----------------|
| <b>Batch: 9B20105 Extracted: 02/20/09</b>                         |        |                 |        |       |             |                           |           |             |         |           |                 |
| <b>Matrix Spike Analyzed: 02/21/2009-02/24/2009 (9B20105-MS1)</b> |        |                 |        |       |             | <b>Source: ISB1822-01</b> |           |             |         |           |                 |
| Arsenic   | 470    | 10              | 7.0    | ug/l  | 500         | ND                        | 94        | 70-130      |         |           |                 |
| Barium  | 0.508  | 0.010           | 0.0060 | mg/l  | 0.500       | 0.0401                    | 94        | 70-130      |         |           |                 |
| Beryllium   | 468    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 94        | 70-130      |         |           |                 |
| Boron   | 0.525  | 0.050           | 0.020  | mg/l  | 0.500       | 0.0464                    | 96        | 70-130      |         |           |                 |
| Calcium   | 73.3   | 0.10            | 0.050  | mg/l  | 2.50        | 70.6                      | 109       | 70-130      |         |           | MHA             |
| Chromium  | 477    | 5.0             | 2.0    | ug/l  | 500         | 2.34                      | 95        | 70-130      |         |           |                 |
| Cobalt  | 468    | 10              | 2.0    | ug/l  | 500         | ND                        | 94        | 70-130      |         |           |                 |
| Iron  | 0.532  | 0.040           | 0.015  | mg/l  | 0.500       | 0.0482                    | 97        | 70-130      |         |           |                 |
| Magnesium   | 49.5   | 0.020           | 0.012  | mg/l  | 2.50        | 47.2                      | 93        | 70-130      |         |           | MHA             |
| Manganese   | 494    | 20              | 7.0    | ug/l  | 500         | 13.6                      | 96        | 70-130      |         |           |                 |
| Nickel  | 468    | 10              | 2.0    | ug/l  | 500         | 2.07                      | 93        | 70-130      |         |           |                 |
| Vanadium  | 475    | 10              | 3.0    | ug/l  | 500         | ND                        | 95        | 70-130      |         |           |                 |
| Zinc  | 461    | 20              | 6.0    | ug/l  | 500         | ND                        | 92        | 70-130      |         |           |                 |
| <b>Matrix Spike Analyzed: 02/21/2009-02/24/2009 (9B20105-MS2)</b> |        |                 |        |       |             | <b>Source: ISB1823-01</b> |           |             |         |           |                 |
| Arsenic   | 489    | 10              | 7.0    | ug/l  | 500         | ND                        | 98        | 70-130      |         |           |                 |
| Barium  | 0.500  | 0.010           | 0.0060 | mg/l  | 0.500       | 0.0102                    | 98        | 70-130      |         |           |                 |
| Beryllium   | 479    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 96        | 70-130      |         |           |                 |
| Boron   | 0.484  | 0.050           | 0.020  | mg/l  | 0.500       | 0.0201                    | 93        | 70-130      |         |           |                 |
| Calcium   | 9.85   | 0.10            | 0.050  | mg/l  | 2.50        | 7.36                      | 100       | 70-130      |         |           |                 |
| Chromium  | 492    | 5.0             | 2.0    | ug/l  | 500         | ND                        | 98        | 70-130      |         |           |                 |
| Cobalt  | 478    | 10              | 2.0    | ug/l  | 500         | ND                        | 96        | 70-130      |         |           |                 |
| Iron  | 1.62   | 0.040           | 0.015  | mg/l  | 0.500       | 1.11                      | 103       | 70-130      |         |           |                 |
| Magnesium   | 3.78   | 0.020           | 0.012  | mg/l  | 2.50        | 1.29                      | 100       | 70-130      |         |           |                 |
| Manganese   | 499    | 20              | 7.0    | ug/l  | 500         | 10.0                      | 98        | 70-130      |         |           |                 |
| Nickel  | 487    | 10              | 2.0    | ug/l  | 500         | ND                        | 97        | 70-130      |         |           |                 |
| Vanadium  | 487    | 10              | 3.0    | ug/l  | 500         | 3.58                      | 97        | 70-130      |         |           |                 |
| Zinc  | 478    | 20              | 6.0    | ug/l  | 500         | ND                        | 96        | 70-130      |         |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## 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 |
|--|--------|-----------------|--------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B20105 Extracted: 02/20/09</b>                              |        |                 |        |       |             |                           |           |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/21/2009-02/24/2009 (9B20105-MSD1)</b> |        |                 |        |       |             | <b>Source: ISB1822-01</b> |           |             |     |           |                 |
| Arsenic  | 476    | 10              | 7.0    | ug/l  | 500         | ND                        | 95        | 70-130      | 1   | 20        |                 |
| Barium   | 0.516  | 0.010           | 0.0060 | mg/l  | 0.500       | 0.0401                    | 95        | 70-130      | 2   | 20        |                 |
| Beryllium  | 468    | 2.0             | 0.90   | ug/l  | 500         | ND                        | 94        | 70-130      | 0   | 20        |                 |
| Boron  | 0.522  | 0.050           | 0.020  | mg/l  | 0.500       | 0.0464                    | 95        | 70-130      | 1   | 20        |                 |
| Calcium  | 72.8   | 0.10            | 0.050  | mg/l  | 2.50        | 70.6                      | 90        | 70-130      | 1   | 20        | MHA             |
| Chromium   | 484    | 5.0             | 2.0    | ug/l  | 500         | 2.34                      | 96        | 70-130      | 1   | 20        |                 |
| Cobalt   | 468    | 10              | 2.0    | ug/l  | 500         | ND                        | 94        | 70-130      | 0   | 20        |                 |
| Iron   | 0.531  | 0.040           | 0.015  | mg/l  | 0.500       | 0.0482                    | 97        | 70-130      | 0   | 20        |                 |
| Magnesium  | 48.9   | 0.020           | 0.012  | mg/l  | 2.50        | 47.2                      | 70        | 70-130      | 1   | 20        | MHA             |
| Manganese  | 494    | 20              | 7.0    | ug/l  | 500         | 13.6                      | 96        | 70-130      | 0   | 20        |                 |
| Nickel   | 474    | 10              | 2.0    | ug/l  | 500         | 2.07                      | 94        | 70-130      | 1   | 20        |                 |
| Vanadium   | 475    | 10              | 3.0    | ug/l  | 500         | ND                        | 95        | 70-130      | 0   | 20        |                 |
| Zinc   | 461    | 20              | 6.0    | ug/l  | 500         | ND                        | 92        | 70-130      | 0   | 20        |                 |

**Batch: 9B20106 Extracted: 02/20/09**

**Blank Analyzed: 02/23/2009 (9B20106-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 |  |  |  |  |  |  |  |
| Selenium | ND | 2.0 | 0.30 | ug/l |  |  |  |  |  |  |  |
| Silver   | ND | 1.0 | 0.30 | ug/l |  |  |  |  |  |  |  |
| Thallium | ND | 1.0 | 0.20 | ug/l |  |  |  |  |  |  |  |

**LCS Analyzed: 02/23/2009 (9B20106-BS1)**

|          |      |     |      |      |      |  |     |        |  |  |  |
|----------|------|-----|------|------|------|--|-----|--------|--|--|--|
| Antimony | 85.1 | 2.0 | 0.20 | ug/l | 80.0 |  | 106 | 85-115 |  |  |  |
| Cadmium  | 83.3 | 1.0 | 0.11 | ug/l | 80.0 |  | 104 | 85-115 |  |  |  |
| Copper   | 78.1 | 2.0 | 0.75 | ug/l | 80.0 |  | 98  | 85-115 |  |  |  |
| Lead     | 83.7 | 1.0 | 0.30 | ug/l | 80.0 |  | 105 | 85-115 |  |  |  |
| Selenium | 76.6 | 2.0 | 0.30 | ug/l | 80.0 |  | 96  | 85-115 |  |  |  |
| Silver   | 82.4 | 1.0 | 0.30 | ug/l | 80.0 |  | 103 | 85-115 |  |  |  |
| Thallium | 83.4 | 1.0 | 0.20 | ug/l | 80.0 |  | 104 | 85-115 |  |  |  |

**TestAmerica Irvine**

Joseph Doak  
 Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

## 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 |
|---|--------|-----------------|------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B20106 Extracted: 02/20/09</b>                   |        |                 |      |       |             |                           |           |             |     |           |                 |
| <b>Matrix Spike Analyzed: 02/23/2009 (9B20106-MS1)</b>      |        |                 |      |       |             | <b>Source: ISB1693-01</b> |           |             |     |           |                 |
| Antimony  | 85.2   | 2.0             | 0.20 | ug/l  | 80.0        | 0.558                     | 106       | 70-130      |     |           |                 |
| Cadmium   | 82.0   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 103       | 70-130      |     |           |                 |
| Copper  | 78.5   | 2.0             | 0.75 | ug/l  | 80.0        | 1.32                      | 97        | 70-130      |     |           |                 |
| Lead  | 83.6   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 105       | 70-130      |     |           |                 |
| Selenium  | 74.0   | 2.0             | 0.30 | ug/l  | 80.0        | ND                        | 92        | 70-130      |     |           |                 |
| Silver  | 79.7   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 100       | 70-130      |     |           |                 |
| Thallium  | 83.6   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 105       | 70-130      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/23/2009 (9B20106-MS2)</b>      |        |                 |      |       |             | <b>Source: ISB1694-01</b> |           |             |     |           |                 |
| Antimony  | 87.7   | 2.0             | 0.20 | ug/l  | 80.0        | 0.567                     | 109       | 70-130      |     |           |                 |
| Cadmium   | 82.9   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 104       | 70-130      |     |           |                 |
| Copper  | 76.3   | 2.0             | 0.75 | ug/l  | 80.0        | 1.12                      | 94        | 70-130      |     |           |                 |
| Lead  | 81.7   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 102       | 70-130      |     |           |                 |
| Selenium  | 74.5   | 2.0             | 0.30 | ug/l  | 80.0        | ND                        | 93        | 70-130      |     |           |                 |
| Silver  | 80.1   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 100       | 70-130      |     |           |                 |
| Thallium  | 81.6   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 102       | 70-130      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/23/2009 (9B20106-MSD1)</b> |        |                 |      |       |             | <b>Source: ISB1693-01</b> |           |             |     |           |                 |
| Antimony  | 88.4   | 2.0             | 0.20 | ug/l  | 80.0        | 0.558                     | 110       | 70-130      | 4   | 20        |                 |
| Cadmium   | 84.3   | 1.0             | 0.11 | ug/l  | 80.0        | ND                        | 105       | 70-130      | 3   | 20        |                 |
| Copper  | 78.9   | 2.0             | 0.75 | ug/l  | 80.0        | 1.32                      | 97        | 70-130      | 0   | 20        |                 |
| Lead  | 83.6   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 105       | 70-130      | 0   | 20        |                 |
| Selenium  | 75.7   | 2.0             | 0.30 | ug/l  | 80.0        | ND                        | 95        | 70-130      | 2   | 20        |                 |
| Silver  | 82.0   | 1.0             | 0.30 | ug/l  | 80.0        | ND                        | 102       | 70-130      | 3   | 20        |                 |
| Thallium  | 83.1   | 1.0             | 0.20 | ug/l  | 80.0        | ND                        | 104       | 70-130      | 1   | 20        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC %REC | RPD Limits | RPD RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|------------|---------|-----------|-----------------|
| <b>Batch: 9B16057 Extracted: 02/16/09</b>                   |        |                 |       |       |             |                           |           |            |         |           |                 |
| <b>Blank Analyzed: 02/16/2009 (9B16057-BLK1)</b>            |        |                 |       |       |             |                           |           |            |         |           |                 |
| Chloride  | ND     | 0.50            | 0.25  | mg/l  |             |                           |           |            |         |           |                 |
| Nitrate-N   | ND     | 0.11            | 0.060 | mg/l  |             |                           |           |            |         |           |                 |
| Nitrite-N   | ND     | 0.15            | 0.090 | mg/l  |             |                           |           |            |         |           |                 |
| Nitrate/Nitrite-N   | ND     | 0.26            | 0.15  | mg/l  |             |                           |           |            |         |           |                 |
| Sulfate   | ND     | 0.50            | 0.20  | mg/l  |             |                           |           |            |         |           |                 |
| <b>LCS Analyzed: 02/16/2009 (9B16057-BS1)</b>               |        |                 |       |       |             |                           |           |            |         |           |                 |
| Chloride  | 4.54   | 0.50            | 0.25  | mg/l  | 5.00        |                           | 91        | 90-110     |         |           | M-3             |
| Nitrate-N   | 1.11   | 0.11            | 0.060 | mg/l  | 1.13        |                           | 98        | 90-110     |         |           |                 |
| Nitrite-N   | 1.55   | 0.15            | 0.090 | mg/l  | 1.52        |                           | 102       | 90-110     |         |           |                 |
| Sulfate   | 9.13   | 0.50            | 0.20  | mg/l  | 10.0        |                           | 91        | 90-110     |         |           |                 |
| <b>Matrix Spike Analyzed: 02/16/2009 (9B16057-MS1)</b>      |        |                 |       |       |             |                           |           |            |         |           |                 |
|   |        |                 |       |       |             | <b>Source: ISB1719-03</b> |           |            |         |           |                 |
| Nitrate-N   | 4.50   | 0.11            | 0.060 | mg/l  | 1.13        | 3.20                      | 115       | 80-120     |         |           |                 |
| Nitrite-N   | 2.06   | 0.15            | 0.090 | mg/l  | 1.52        | ND                        | 136       | 80-120     |         |           | MI              |
| Sulfate   | 16.3   | 0.50            | 0.20  | mg/l  | 10.0        | 5.12                      | 112       | 80-120     |         |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B16057-MS2)</b>      |        |                 |       |       |             |                           |           |            |         |           |                 |
|   |        |                 |       |       |             | <b>Source: ISB1806-01</b> |           |            |         |           |                 |
| Chloride  | 13.9   | 0.50            | 0.25  | mg/l  | 5.00        | 8.38                      | 111       | 80-120     |         |           |                 |
| Nitrate-N   | 1.88   | 0.11            | 0.060 | mg/l  | 1.13        | 0.664                     | 108       | 80-120     |         |           |                 |
| Nitrite-N   | 1.70   | 0.15            | 0.090 | mg/l  | 1.52        | ND                        | 112       | 80-120     |         |           |                 |
| Sulfate   | 15.8   | 0.50            | 0.20  | mg/l  | 10.0        | 4.54                      | 113       | 80-120     |         |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/16/2009 (9B16057-MSD1)</b> |        |                 |       |       |             |                           |           |            |         |           |                 |
|   |        |                 |       |       |             | <b>Source: ISB1719-03</b> |           |            |         |           |                 |
| Nitrate-N   | 4.51   | 0.11            | 0.060 | mg/l  | 1.13        | 3.20                      | 116       | 80-120     | 0       | 20        |                 |
| Nitrite-N   | 2.07   | 0.15            | 0.090 | mg/l  | 1.52        | ND                        | 136       | 80-120     | 1       | 20        | MI              |
| Sulfate   | 16.0   | 0.50            | 0.20  | mg/l  | 10.0        | 5.12                      | 109       | 80-120     | 2       | 20        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 9B16073 Extracted: 02/16/09</u></b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/16/2009 (9B16073-BLK1)</b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| Chromium VI   | ND     | 1.0             | 0.25   | ug/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 02/16/2009 (9B16073-BS1)</b>               |        |                 |        |       |             |                           |      |             |     |           |                 |
| Chromium VI   | 50.8   | 1.0             | 0.25   | ug/l  | 50.0        |                           | 102  | 90-110      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/16/2009 (9B16073-MS1)</b>      |        |                 |        |       |             |                           |      |             |     |           |                 |
|   |        |                 |        |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Chromium VI   | 55.1   | 1.0             | 0.25   | ug/l  | 50.0        | ND                        | 110  | 90-110      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/16/2009 (9B16073-MSD1)</b> |        |                 |        |       |             |                           |      |             |     |           |                 |
|   |        |                 |        |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Chromium VI   | 57.8   | 1.0             | 0.25   | ug/l  | 50.0        | ND                        | 116  | 90-110      | 5   | 10        | MI              |
| <b><u>Batch: 9B16095 Extracted: 02/16/09</u></b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/16/2009 (9B16095-BLK1)</b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| Total Cyanide   | ND     | 0.0050          | 0.0022 | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 02/16/2009 (9B16095-BS1)</b>               |        |                 |        |       |             |                           |      |             |     |           |                 |
| Total Cyanide   | 0.206  | 0.0050          | 0.0022 | mg/l  | 0.200       |                           | 103  | 90-110      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/16/2009 (9B16095-MS1)</b>      |        |                 |        |       |             |                           |      |             |     |           |                 |
|   |        |                 |        |       |             | <b>Source: ISB1724-01</b> |      |             |     |           |                 |
| Total Cyanide   | 0.177  | 0.0050          | 0.0022 | mg/l  | 0.200       | ND                        | 88   | 70-115      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/16/2009 (9B16095-MSD1)</b> |        |                 |        |       |             |                           |      |             |     |           |                 |
|   |        |                 |        |       |             | <b>Source: ISB1724-01</b> |      |             |     |           |                 |
| Total Cyanide   | 0.176  | 0.0050          | 0.0022 | mg/l  | 0.200       | ND                        | 88   | 70-115      | 0   | 15        |                 |
| <b><u>Batch: 9B17067 Extracted: 02/17/09</u></b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17067-BLK1)</b>            |        |                 |        |       |             |                           |      |             |     |           |                 |
| Turbidity   | ND     | 1.0             | 0.040  | NTU   |             |                           |      |             |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B17067 Extracted: 02/17/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Duplicate Analyzed: 02/17/2009 (9B17067-DUP1)</b>        |        |                 |       |       |             | <b>Source: ISB1815-01</b> |           |             |     |           |                 |
| Turbidity   | 20.2   | 1.0             | 0.040 | NTU   |             | 20.9                      |           |             | 3   | 20        |                 |
| <b>Duplicate Analyzed: 02/17/2009 (9B17067-DUP2)</b>        |        |                 |       |       |             | <b>Source: ISB1831-01</b> |           |             |     |           |                 |
| Turbidity   | 430    | 20              | 0.80  | NTU   |             | 440                       |           |             | 2   | 20        |                 |
| <b>Batch: 9B17098 Extracted: 02/17/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17098-BLK1)</b>            |        |                 |       |       |             |                           |           |             |     |           |                 |
| Surfactants (MBAS)  | ND     | 0.10            | 0.025 | mg/l  |             |                           |           |             |     |           |                 |
| <b>LCS Analyzed: 02/17/2009 (9B17098-BS1)</b>               |        |                 |       |       |             |                           |           |             |     |           |                 |
| Surfactants (MBAS)  | 0.253  | 0.10            | 0.025 | mg/l  | 0.250       |                           | 101       | 90-110      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/17/2009 (9B17098-MS1)</b>      |        |                 |       |       |             | <b>Source: ISB1834-01</b> |           |             |     |           |                 |
| Surfactants (MBAS)  | 0.0697 | 0.10            | 0.025 | mg/l  | 0.250       | ND                        | 28        | 50-125      |     |           | M2, Ja          |
| <b>Matrix Spike Dup Analyzed: 02/17/2009 (9B17098-MSD1)</b> |        |                 |       |       |             | <b>Source: ISB1834-01</b> |           |             |     |           |                 |
| Surfactants (MBAS)  | 0.0709 | 0.10            | 0.025 | mg/l  | 0.250       | ND                        | 28        | 50-125      | 2   | 20        | M2, Ja          |
| <b>Batch: 9B17105 Extracted: 02/17/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/17/2009 (9B17105-BLK1)</b>            |        |                 |       |       |             |                           |           |             |     |           |                 |
| Residual Chlorine   | ND     | 0.10            | 0.10  | mg/l  |             |                           |           |             |     |           |                 |
| <b>Duplicate Analyzed: 02/17/2009 (9B17105-DUP1)</b>        |        |                 |       |       |             | <b>Source: ISB1785-01</b> |           |             |     |           |                 |
| Residual Chlorine   | ND     | 0.10            | 0.10  | mg/l  |             | ND                        |           |             |     | 20        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte  | Result | Reporting Limit | MDL  | Units    | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|------|----------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b><u>Batch: 9B17129 Extracted: 02/17/09</u></b>     |        |                 |      |          |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/22/2009 (9B17129-BLK1)</b>     |        |                 |      |          |             |                           |           |             |     |           |                 |
| Biochemical Oxygen Demand                            | ND     | 2.0             | 0.50 | mg/l     |             |                           |           |             |     |           |                 |
| <b>LCS Analyzed: 02/22/2009 (9B17129-BS1)</b>        |        |                 |      |          |             |                           |           |             |     |           |                 |
| Biochemical Oxygen Demand                            | 202    | 100             | 25   | mg/l     | 198         |                           | 102       | 85-115      |     |           |                 |
| <b>LCS Dup Analyzed: 02/22/2009 (9B17129-BSD1)</b>   |        |                 |      |          |             |                           |           |             |     |           |                 |
| Biochemical Oxygen Demand                            | 201    | 100             | 25   | mg/l     | 198         |                           | 102       | 85-115      | 1   | 20        |                 |
| <b><u>Batch: 9B18054 Extracted: 02/18/09</u></b>     |        |                 |      |          |             |                           |           |             |     |           |                 |
| <b>Duplicate Analyzed: 02/18/2009 (9B18054-DUP1)</b> |        |                 |      |          |             |                           |           |             |     |           |                 |
| Specific Conductance                                 | 255    | 1.0             | 1.0  | umhos/cm |             | Source: ISB1930-01<br>257 |           |             | 1   | 5         |                 |
| <b>Duplicate Analyzed: 02/18/2009 (9B18054-DUP2)</b> |        |                 |      |          |             |                           |           |             |     |           |                 |
| Specific Conductance                                 | 326    | 1.0             | 1.0  | umhos/cm |             | Source: ISB1758-01<br>324 |           |             | 1   | 5         |                 |
| <b>Reference Analyzed: 02/18/2009 (9B18054-SRM1)</b> |        |                 |      |          |             |                           |           |             |     |           |                 |
| Specific Conductance                                 | 982    | 1.0             | 1.0  | umhos/cm | 994         |                           | 99        | 90-110      |     |           |                 |
| <b><u>Batch: 9B18065 Extracted: 02/18/09</u></b>     |        |                 |      |          |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/18/2009 (9B18065-BLK1)</b>     |        |                 |      |          |             |                           |           |             |     |           |                 |
| Total Dissolved Solids                               | ND     | 10              | 10   | mg/l     |             |                           |           |             |     |           |                 |
| <b>LCS Analyzed: 02/18/2009 (9B18065-BS1)</b>        |        |                 |      |          |             |                           |           |             |     |           |                 |
| Total Dissolved Solids                               | 982    | 10              | 10   | mg/l     | 1000        |                           | 98        | 90-110      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B18065 Extracted: 02/18/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Duplicate Analyzed: 02/18/2009 (9B18065-DUP1)</b>        |        |                 |       |       |             | <b>Source: ISB1930-01</b> |           |             |     |           |                 |
| Total Dissolved Solids                                      | 177    | 10              | 10    | mg/l  |             | 172                       |           |             | 3   | 10        |                 |
| <b>Batch: 9B18101 Extracted: 02/18/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/18/2009 (9B18101-BLK1)</b>            |        |                 |       |       |             |                           |           |             |     |           |                 |
| Perchlorate   | ND     | 1.0             | 0.90  | ug/l  |             |                           |           |             |     |           |                 |
| <b>LCS Analyzed: 02/18/2009 (9B18101-BS1)</b>               |        |                 |       |       |             |                           |           |             |     |           |                 |
| Perchlorate   | 23.9   | 1.0             | 0.90  | ug/l  | 25.0        |                           | 96        | 85-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/18/2009 (9B18101-MS1)</b>      |        |                 |       |       |             | <b>Source: ISB1967-03</b> |           |             |     |           |                 |
| Perchlorate   | 24.1   | 1.0             | 0.90  | ug/l  | 25.0        | 1.76                      | 89        | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/18/2009 (9B18101-MSD1)</b> |        |                 |       |       |             | <b>Source: ISB1967-03</b> |           |             |     |           |                 |
| Perchlorate   | 23.7   | 1.0             | 0.90  | ug/l  | 25.0        | 1.76                      | 88        | 80-120      | 2   | 20        |                 |
| <b>Batch: 9B20008 Extracted: 02/20/09</b>                   |        |                 |       |       |             |                           |           |             |     |           |                 |
| <b>Blank Analyzed: 02/20/2009 (9B20008-BLK1)</b>            |        |                 |       |       |             |                           |           |             |     |           |                 |
| Fluoride  | 0.0341 | 0.10            | 0.020 | mg/l  |             |                           |           |             |     |           | Ja              |
| <b>LCS Analyzed: 02/20/2009 (9B20008-BS1)</b>               |        |                 |       |       |             |                           |           |             |     |           |                 |
| Fluoride  | 0.988  | 0.10            | 0.020 | mg/l  | 1.00        |                           | 99        | 90-110      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/20/2009 (9B20008-MS1)</b>      |        |                 |       |       |             | <b>Source: ISB1530-03</b> |           |             |     |           |                 |
| Fluoride  | 1.31   | 0.10            | 0.020 | mg/l  | 1.00        | 0.360                     | 95        | 80-120      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B20008 Extracted: 02/20/09</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/20/2009 (9B20008-MSD1)</b> |        |                 |       |       |             | <b>Source: ISB1530-03</b> |      |             |     |           |                 |
| Fluoride  | 1.32   | 0.10            | 0.020 | mg/l  | 1.00        | 0.360                     | 96   | 80-120      | 1   | 20        |                 |
| <b>Batch: 9B21068 Extracted: 02/21/09</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/21/2009 (9B21068-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Total Suspended Solids                                      | ND     | 10              | 1.0   | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 02/21/2009 (9B21068-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Total Suspended Solids                                      | 990    | 10              | 1.0   | mg/l  | 1000        |                           | 99   | 85-115      |     |           |                 |
| <b>Duplicate Analyzed: 02/21/2009 (9B21068-DUP1)</b>        |        |                 |       |       |             | <b>Source: ISB1750-01</b> |      |             |     |           |                 |
| Total Suspended Solids                                      | 105    | 10              | 1.0   | mg/l  |             | 106                       |      |             | 1   | 10        |                 |
| <b>Batch: 9B24001 Extracted: 02/24/09</b>                   |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B24001-BLK1)</b>            |        |                 |       |       |             |                           |      |             |     |           |                 |
| Total Organic Carbon  | ND     | 1.0             | 0.50  | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B24001-BS1)</b>               |        |                 |       |       |             |                           |      |             |     |           |                 |
| Total Organic Carbon  | 9.88   | 1.0             | 0.50  | mg/l  | 10.0        |                           | 99   | 90-110      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/24/2009 (9B24001-MS1)</b>      |        |                 |       |       |             | <b>Source: ISB1736-03</b> |      |             |     |           |                 |
| Total Organic Carbon  | 10.7   | 1.0             | 0.50  | mg/l  | 5.00        | 4.90                      | 116  | 80-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/24/2009 (9B24001-MSD1)</b> |        |                 |       |       |             | <b>Source: ISB1736-03</b> |      |             |     |           |                 |
| Total Organic Carbon  | 10.8   | 1.0             | 0.50  | mg/l  | 5.00        | 4.90                      | 119  | 80-120      | 1   | 20        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### INORGANICS

| Analyte   | Result | Reporting Limit | MDL  | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9B24128 Extracted: 02/24/09</b>                   |        |                 |      |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/24/2009 (9B24128-BLK1)</b>            |        |                 |      |       |             |                           |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | ND     | 0.50            | 0.50 | mg/l  |             |                           |      |             |     |           |                 |
| <b>LCS Analyzed: 02/24/2009 (9B24128-BS1)</b>               |        |                 |      |       |             |                           |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 10.6   | 0.50            | 0.50 | mg/l  | 10.0        |                           | 106  | 80-115      |     |           |                 |
| <b>Matrix Spike Analyzed: 02/24/2009 (9B24128-MS1)</b>      |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: ISB1703-01</b> |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 10.1   | 0.50            | 0.50 | mg/l  | 10.0        | 0.560                     | 95   | 70-120      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/24/2009 (9B24128-MSD1)</b> |        |                 |      |       |             |                           |      |             |     |           |                 |
|   |        |                 |      |       |             | <b>Source: ISB1703-01</b> |      |             |     |           |                 |
| Ammonia-N (Distilled)                                       | 10.1   | 0.50            | 0.50 | mg/l  | 10.0        | 0.560                     | 95   | 70-120      | 0   | 15        |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### CFR136A 608

| Analyte   | Result | Reporting Limit | MDL    | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|--------|-------|-------------|---------------|-----------|-------------|-----|-----------|-----------------|
| <b>Batch: 9064381 Extracted: 03/05/09</b>           |        |                 |        |       |             |               |           |             |     |           |                 |
| <b>Blank Analyzed: 03/10/2009 (D9C050000381B)</b>   |        |                 |        |       |             |               |           |             |     |           |                 |
| alpha-BHC   | ND     | 0.05            | 0.0053 | ug/L  |             |               |           | -           |     |           |                 |
| Surrogate: Decachlorobiphenyl                       | 0.19   |                 |        | ug/L  | 0.2         |               | 97        | 32-144      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                     | 0.13   |                 |        | ug/L  | 0.2         |               | 65        | 52-117      |     |           |                 |
| <b>LCS Analyzed: 03/10/2009 (D9C050000381C)</b>     |        |                 |        |       |             |               |           |             |     |           |                 |
| alpha-BHC   | 0.479  | 0.05            | 0.0053 | ug/L  | 0.5         |               | 96        | 66-115      | 7   | 50        |                 |
| Surrogate: Decachlorobiphenyl                       | 0.201  |                 |        | ug/L  | 0.2         |               | 100       | 68-122      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                     | 0.111  |                 |        | ug/L  | 0.2         |               | 55        | 54-115      |     |           |                 |
| <b>LCS Dup Analyzed: 03/10/2009 (D9C050000381L)</b> |        |                 |        |       |             |               |           |             |     |           |                 |
| alpha-BHC   | 0.514  | 0.05            | 0.0053 | ug/L  | 0.5         |               | 103       | 66-115      | 7   | 50        |                 |
| Surrogate: Decachlorobiphenyl                       | 0.204  |                 |        | ug/L  | 0.2         |               | 102       | 68-122      |     |           |                 |
| Surrogate: Tetrachloro-m-xylene                     | 0.16   |                 |        | ug/L  | 0.2         |               | 80        | 54-115      |     |           |                 |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### MCAWW 245.1

| Analyte  | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9050174 Extracted: 02/19/09</b>                    |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/19/2009 (D9B190000174B)</b>            |        |                 |       |       |             | <b>Source:</b>            |      |             |     |           |                 |
| Mercury  | ND     | 0.2             | 0.027 | ug/L  |             |                           |      | -           |     |           |                 |
| <b>LCS Analyzed: 02/19/2009 (D9B190000174C)</b>              |        |                 |       |       |             | <b>Source:</b>            |      |             |     |           |                 |
| Mercury  | 4.78   | 0.2             | 0.027 | ug/L  | 5           |                           | 96   | 90-110      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)</b> |        |                 |       |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Mercury  | 4.29   | 0.2             | 0.027 | ug/L  | 5           | 0.032                     | 85   | 90-110      | 0   | 10        | N               |
| <b>Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)</b>     |        |                 |       |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Mercury  | 4.29   | 0.2             | 0.027 | ug/L  | 5           | 0.032                     | 85   | 90-110      | 0   | 10        | N               |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
 Received: 02/16/09

## METHOD BLANK/QC DATA

### MCAWW 245.1-DISS

| Analyte  | Result | Reporting Limit | MDL   | Units | Spike Level | Source Result             | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------|-------------|---------------------------|------|-------------|-----|-----------|-----------------|
| <b>Batch: 9050182 Extracted: 02/19/09</b>                    |        |                 |       |       |             |                           |      |             |     |           |                 |
| <b>Blank Analyzed: 02/19/2009 (D9B190000182B)</b>            |        |                 |       |       |             | <b>Source:</b>            |      |             |     |           |                 |
| Mercury  | ND     | 0.2             | 0.027 | ug/L  |             |                           |      | -           |     |           |                 |
| <b>LCS Analyzed: 02/19/2009 (D9B190000182C)</b>              |        |                 |       |       |             | <b>Source:</b>            |      |             |     |           |                 |
| Mercury  | 4.63   | 0.2             | 0.027 | ug/L  | 5           |                           | 93   | 90-110      |     |           |                 |
| <b>Matrix Spike Dup Analyzed: 02/19/2009 (D9B190119001D)</b> |        |                 |       |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Mercury  | 4.55   | 0.2             | 0.027 | ug/L  | 5           | 0.03                      | 90   | 90-110      | 0   | 10        |                 |
| <b>Matrix Spike Analyzed: 02/19/2009 (D9B190119001S)</b>     |        |                 |       |       |             | <b>Source: ISB1796-01</b> |      |             |     |           |                 |
| Mercury  | 4.57   | 0.2             | 0.027 | ug/L  | 5           | 0.03                      | 91   | 90-110      | 0   | 10        |                 |

**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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## 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 |
|-------------------|---|--|-------------|-------------|--------------|------------------|
| ISB1796-01        | 1664-HEM  | Hexane Extractable Material (Oil & Greas | mg/l        | 1.80        | 4.7          | 15               |
| ISB1796-01        | 608-Pest Boeing 001/002 Q (LL)                      | alpha-BHC                                | ug/l        | 0.0100      | 0.0095       | 0.03             |
| ISB1796-01        | 624-Boeing 001/002 Q (Fr113+X), L1,1-Dichloroethene |  | ug/l        | 0           | 0.50         | 6                |
| ISB1796-01        | 624-Boeing 001/002 Q (Fr113+X), LTrichloroethene    |  | ug/l        | 0           | 0.50         | 5                |
| ISB1796-01        | 625+NDMA, LL  | 2,4,6-Trichlorophenol                    | ug/l        | 0           | 0.99         | 13               |
| ISB1796-01        | 625+NDMA, LL  | 2,4-Dinitrotoluene                       | ug/l        | 0           | 5.0          | 18               |
| ISB1796-01        | 625+NDMA, LL  | Bis(2-ethylhexyl)phthalate               | ug/l        | 1.43        | 5.0          | 4                |
| ISB1796-01        | 625+NDMA, LL  | N-Nitrosodimethylamine                   | ug/l        | 0           | 2.0          | 16               |
| ISB1796-01        | 625+NDMA, LL  | Pentachlorophenol                        | ug/l        | 0           | 2.0          | 16               |
| ISB1796-01        | Antimony-200.8                                      | Antimony                                 | ug/l        | 0.28        | 2.0          | 6                |
| ISB1796-01        | Arsenic-200.7                                       | Arsenic                                  | ug/l        | 6.81        | 10           | 10               |
| ISB1796-01        | Barium-200.7  | Barium                                   | mg/l        | 0.13        | 0.010        | 1                |
| ISB1796-01        | Beryllium-200.7                                     | Beryllium                                | ug/l        | 0.73        | 2.0          | 4                |
| ISB1796-01        | BOD - SM5210B                                       | Biochemical Oxygen Demand                | mg/l        | 3.38        | 2.0          | 30               |
| ISB1796-01        | Cadmium-200.8                                       | Cadmium                                  | ug/l        | 0.14        | 1.0          | 3.1              |
| ISB1796-01        | Chloride - 300.0                                    | Chloride                                 | mg/l        | 9.47        | 0.50         | 150              |
| <b>ISB1796-01</b> | <b>Chlorine, Residual (330.5)</b>                   | <b>Residual Chlorine</b>                 | <b>mg/l</b> | <b>0.12</b> | <b>0.20</b>  | <b>0.1</b>       |
| ISB1796-01        | Chromium VI-218.6                                   | Chromium VI                              | ug/l        | 0           | 1.0          | 16               |
| <b>ISB1796-01</b> | <b>Chromium-200.7</b>                               | <b>Chromium</b>                          | <b>ug/l</b> | <b>20</b>   | <b>5.0</b>   | <b>16</b>        |
| ISB1796-01        | Copper-200.8  | Copper                                   | ug/l        | 10          | 2.0          | 14               |
| ISB1796-01        | Cyanide, Total-4500CN-E (5ppb)                      | Total Cyanide                            | mg/l        | 0           | 0.0050       | 0.0085           |
| ISB1796-01        | Fluoride SM4500F,C                                  | Fluoride                                 | mg/l        | 0.20        | 0.10         | 1.6              |
| <b>ISB1796-01</b> | <b>Iron-200.7</b>                                   | <b>Iron</b>                              | <b>mg/l</b> | <b>17</b>   | <b>0.040</b> | <b>0.3</b>       |
| <b>ISB1796-01</b> | <b>Lead-200.8</b>                                   | <b>Lead</b>                              | <b>ug/l</b> | <b>11</b>   | <b>1.0</b>   | <b>5.2</b>       |
| <b>ISB1796-01</b> | <b>Manganese-200.7</b>                              | <b>Manganese</b>                         | <b>ug/l</b> | <b>245</b>  | <b>20</b>    | <b>50</b>        |
| ISB1796-01        | MBAS - SM5540-C                                     | Surfactants (MBAS)                       | mg/l        | 0.029       | 0.10         | 0.5              |
| ISB1796-01        | Nickel-200.7  | Nickel                                   | ug/l        | 13          | 10           | 96               |
| ISB1796-01        | Nitrate-N, 300.0                                    | Nitrate-N                                | mg/l        | 2.66        | 0.11         | 8                |
| ISB1796-01        | Nitrite-N, 300.0                                    | Nitrite-N                                | mg/l        | 0           | 0.15         | 1                |
| ISB1796-01        | Nitrogen, NO3+NO2 -N                                | Nitrate/Nitrite-N                        | mg/l        | 2.66        | 0.26         | 8                |
| ISB1796-01        | Selenium-200.8                                      | Selenium                                 | ug/l        | -1          | 2.0          | 5                |
| ISB1796-01        | Settleable Solids - SM2540F                         | Total Settleable Solids                  | ml/l        | 0.15        | 0.10         | 0.3              |
| ISB1796-01        | Silver-200.8  | Silver                                   | ug/l        | 0.049       | 1.0          | 4.1              |
| ISB1796-01        | Sulfate-300.0                                       | Sulfate                                  | mg/l        | 39          | 0.50         | 300              |
| ISB1796-01        | TDS - SM2540C                                       | Total Dissolved Solids                   | mg/l        | 194         | 10           | 950              |
| ISB1796-01        | Thallium-200.8                                      | Thallium                                 | ug/l        | 0.055       | 1.0          | 2                |
| <b>ISB1796-01</b> | <b>TSS - SM2540D</b>                                | <b>Total Suspended Solids</b>            | <b>mg/l</b> | <b>224</b>  | <b>10</b>    | <b>45</b>        |

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

ISB1796-01 Zinc-200.7 Zinc ug/l 56 20 120

## 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 |
|---------------|--------------------------------|-----------|-------|--------|--------|------------------|
| ISB1796-01RE1 | 608-Pest Boeing 001/002 Q (LL) | alpha-BHC | ug/l  | 0.0034 | 0.0095 | 0.03             |

## 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 |
|------------|---|---------|-------|--------|------|------------------|
| ISB1796-02 | 624-Boeing 001/002 Q (Fr113+X), LI,1-Dichloroethene |         | ug/l  | 0      | 0.50 | 6                |
| ISB1796-02 | 624-Boeing 001/002 Q (Fr113+X), LTrichloroethene    |         | ug/l  | 0      | 0.50 | 5                |

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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## DATA QUALIFIERS AND DEFINITIONS

|             |  |
|-------------|--|
| <b>B</b>    | Analyte was detected in the associated Method Blank.   |
| <b>C</b>    | Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.  |
| <b>HFT</b>  | The holding time for this test is immediate. It was analyzed in the laboratory as soon as possible after receipt.  |
| <b>HTV</b>  | Holding Time Violation   |
| <b>J</b>    | Estimated Result: Result is less than RL and greater than or equal to the MDL.   |
| <b>Ja</b>   | 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. |
| <b>L</b>    | Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.  |
| <b>M1</b>   | The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).   |
| <b>M2</b>   | The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).   |
| <b>M-3</b>  | 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).   |
| <b>M7</b>   | The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).   |
| <b>MHA</b>  | Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).   |
| <b>MNR1</b> | There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.   |
| <b>N</b>    | Spike sample recovery is outside control limits.   |
| <b>N2</b>   | See corrective action report.  |
| <b>R-7</b>  | LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.  |
| <b>RL1</b>  | Reporting limit raised due to sample matrix effects.   |
| <b>Z2</b>   | Surrogate recovery was above the acceptance limits. Data not impacted.   |
| <b>ND</b>   | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.  |
| <b>RPD</b>  | Relative Percent Difference  |

## ADDITIONAL COMMENTS

### For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

### For 1,2-Diphenylhydrazine:

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

### For GRO (C4-C12):

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

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

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

## TestAmerica Irvine

Joseph Doak  
Project Manager

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

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## Certification Summary

### TestAmerica Irvine

| Method         | Matrix | Nelac | California |
|----------------|--------|-------|------------|
| EPA 120.1      | Water  | X     | X          |
| EPA 1664A      | Water  | X     | X          |
| EPA 180.1      | Water  | X     | X          |
| EPA 200.7-Diss | Water  | X     | X          |
| EPA 200.7      | Water  | X     | X          |
| EPA 200.8-Diss | Water  | X     | X          |
| EPA 200.8      | Water  | X     | X          |
| EPA 218.6      | Water  | X     | X          |
| EPA 300.0      | Water  | X     | X          |
| EPA 314.0      | Water  | X     | X          |
| EPA 330.5      | Water  | X     | X          |
| EPA 608        | Water  | X     | X          |
| EPA 624 (MOD.) | Water  |       | X          |
| EPA 624        | Water  | X     | X          |
| EPA 625        | Water  | X     | X          |
| EPA 8015 Mod.  | Water  | X     | X          |
| EPA 8015B      | Water  | X     | X          |
| EPA 8260B-SIM  | Water  | X     | X          |
| Filtration     | Water  | N/A   | N/A        |
| SM 2540D       | Water  | X     | X          |
| SM 4500-F-C    | Water  | X     | X          |
| SM2340B-Diss   | Water  |       |            |
| SM2340B        | Water  | X     | X          |
| SM2540C        | Water  | X     |            |
| SM2540F        | Water  | X     | X          |
| SM4500-CN-C,E  | Water  | X     | X          |
| SM4500NH3-C    | Water  | X     | X          |
| SM5210B        | Water  | X     | X          |
| SM5310B        | Water  | X     | X          |
| SM5540-C       | Water  | X     | X          |

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

### Subcontracted Laboratories

### 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: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09  
Received: 02/16/09

## **Aquatic Testing Laboratories-SUB** *California Cert #1775*

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chrn  
Samples: ISB1796-01

Analysis Performed: Bioassay-Acute 96hr  
Samples: ISB1796-01

## **TestAmerica Denver**

4955 Yarrow Street - Arvada, CO 80002

Method Performed: CFR136A 608  
Samples: ISB1796-01

Method Performed: MCAWW 245.1  
Samples: ISB1796-01

Method Performed: MCAWW 245.1-DISS  
Samples: ISB1796-01

## **TestAmerica St. Louis**

13715 Rider Trail North - Earth City, MO 63045

Analysis Performed: Gamma Spec  
Samples: ISB1796-01

Analysis Performed: Gross Alpha  
Samples: ISB1796-01

Analysis Performed: Gross Beta  
Samples: ISB1796-01

Analysis Performed: Radium, Combined  
Samples: ISB1796-01

Analysis Performed: Strontium 90  
Samples: ISB1796-01

Analysis Performed: Tritium  
Samples: ISB1796-01

Analysis Performed: Uranium, Combined  
Samples: ISB1796-01

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

14201 Franklin Avenue - Tustin, CA 92680

Analysis Performed: Hydrazine  
Samples: ISB1796-01

## **TestAmerica Irvine**

Joseph Doak  
Project Manager

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

Project ID: Annual Outfall 002

Report Number: ISB1796

Sampled: 02/16/09

Received: 02/16/09

**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: ISB1796-01

**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.*

**ISB1796 <Page 77 of 77>**  
**NPDES - 429**

ISB1796

CHAIN OF CUSTODY FORM

Test America Version 12/20/07

| Client Name/Address:   |               | Project:                                |            | ANALYSIS REQUIRED       |                                | Field readings:   |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
|--|---------------|---|------------|-------------------------|--------------------------------|---|---|-------------------------|-------------------|---|-------------------------|--|---------------------------------|--|--|----------------------|--------------------------------------|-------------------|--------------------------------------|---|
| MWH-Arcadia<br>618 Michilinda Avenue, Suite 200<br>Arcadia, CA 91007 |               | Boeing-SSFL NPDES<br>Annual Outfall 002 |            |                         |                                | Temp = 46<br>pH = 7.3<br>Time of readings = 0936  |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Test America Contact: Joseph Doak                                    |               | Phone Number:<br>(626) 568-6691         |            |                         |                                | Comments  |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Project Manager: Bronwyn Kelly                                       |               | Fax Number:<br>(626) 568-6515           |            |                         |                                | As, Ba, Be, Cr, Fe, Mn, Ni<br>exceeded 9/22/07, Mn<br>exceeded on 1/25/08, Fe<br>exceeded on 2/3/08 |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Sampler: <i>Maise/Bawse</i>  |               |   |            |                         |                                |   |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Sample Description   | Sample Matrix | Container Type                          | # of Cont. | Sampling Date/Time      | Preservative                   | Bottle #  | Total Recoverable Metals:<br>Cu, Pb, Hg, B, Ba, Fe, Mn,<br>Sb, As, Be, Cd, Cr, Ni, Se,<br>Ag, Tl, Zn, Co, V, Hardness<br>as CaCO <sub>3</sub> | Cr (VI) (218.6)         | Settleable Solids | TCDD (and all congeners)  | Oil & Grease (1664-HEM) | Cyanide (total recoverable)  | BOD <sub>5</sub> (20 degrees C) | Surfactants (MBAS)   | Cr, SO <sub>4</sub> , NO <sub>3</sub> +NO <sub>2</sub> -N, F,<br>Perchlorate | Nitrate-N, Nitrite-N | Turbidity, TDS, TSS,<br>Conductivity | Ammonia-N (350.2) | Alpha BHC (608) + Pesticides<br>+ PP | 2,4,6 TCP, 2,4 Dinitrotoluene,<br>Bis(2-ethylhexyl)phthalate,<br>NMDA, PCP (SVOCs 625) + PP |
| Outfall 002  | W             | 1L Poly                                 | 1          | 2/16/09 9:30            | HNO <sub>3</sub>               | 1A  | X   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002 Dup  | W             | 1L Poly                                 | 1          |                         | HNO <sub>3</sub>               | 1B  | X   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 1          |                         | None                           | 1C  |   | X                       |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 1L Poly                                 | 1          |                         | None                           | 2   |   |                         | X                 |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 1L Amber                                | 2          |                         | None                           | 3A, 3B  |   |                         |                   | X   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 1L Amber                                | 2          |                         | HCl                            | 4A, 4B  |   |                         |                   | X   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 1          |                         | NaOH                           | 5   |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 1L Poly                                 | 1          |                         | None                           | 6   |   |                         |                   |   |                         |  | X                               |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 2          |                         | None                           | 7A, 7B  |   |                         |                   | X   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 2          |                         | None                           | 8A, 8B  |   |                         |                   |   |                         |  |                                 | X  |  |                      |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 1          |                         | None                           | 9   |   |                         |                   |   |                         |  |                                 |  |  | X                    |                                      |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 2          |                         | None                           | 10A, 10B  |   |                         |                   |   |                         |  |                                 |  |  |                      | X                                    |                   |                                      |   |
| Outfall 002  | W             | 500 ml Poly                             | 1          |                         | H <sub>2</sub> SO <sub>4</sub> | 11  |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      | X                 |                                      |   |
| Outfall 002  | W             | 1L Amber                                | 2          |                         | None                           | 12A, 12B  |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   | X                                    |   |
| Outfall 002  | W             | 1L Amber                                | 2          |                         | None                           | 13A, 13B  |   |                         |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      | X   |
| Relinquished By  |               | <i>Joe Maise</i>                        |            | Date/Time: 2/16/09 9:30 |                                | Received By <i>[Signature]</i>  |   | Date/Time: 2/16/09 1545 |                   | Turn around Time: (check)<br>24 Hours _____ 5 Days _____<br>48 Hours _____ 10 Days _____<br>72 Hours _____ Normal <input checked="" type="checkbox"/> |                         | Sample Integrity: (check)<br>Intact <input checked="" type="checkbox"/> On Ice: <input type="checkbox"/> |                                 | Data Requirements: (check)<br>No Level IV _____ All Level IV _____<br>NPDES Level IV <input checked="" type="checkbox"/> |  |                      |                                      |                   |                                      |   |
| Relinquished By  |               | <i>Maise/Bawse</i>                      |            | Date/Time: 2/16/09 820  |                                | Received By <i>[Signature]</i>  |   | Date/Time: 2/16/09 1820 |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |
| Relinquished By  |               | <i>[Signature]</i>                      |            | Date/Time: _____        |                                | Received By _____   |   | Date/Time: _____        |                   |   |                         |  |                                 |  |  |                      |                                      |                   |                                      |   |

CHAIN OF CUSTODY FORM

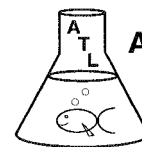
Test America Version 12/20/07

| Client Name/Address:   |               | Project:                                |            | ANALYSIS REQUIRED   |                      |                         |  |             |                      |                         |  |                            |   | Comments               |                     |                            |   |   |
|--|---------------|---|------------|---------------------|----------------------|-------------------------|--|-------------|----------------------|-------------------------|--|----------------------------|---|------------------------|---------------------|----------------------------|---|---|
| MWH-Arcadia<br>618 Michilinda Avenue, Suite 200<br>Arcadia, CA 91007 |               | Boeing-SSFL NPDES<br>Annual Outfall 002 |            | VOCs 624 + A+A+2CVE | Total Organic Carbon | Total Residual Chlorine | Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1) | PCBs        | 8015 - gas           | 8015 - diesel/jet fuel  | Monomethylhydrazine  | Acute and Chronic Toxicity | Total Dissolved Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Cr, Ni, Se, Ag, TI, Zn, Co, V, Hardness as CaCO <sub>3</sub> |                        |                     |                            |   |   |
| Sample Description   | Sample Matrix | Container Type                          | # of Cont. | Sampling Date/Time  | Preservative         | Bottle #                | VOCs 624 + xylenes + Freon 113, Freon 123A, Cyclohexane + PP   | 1,4-Dioxane | Total Organic Carbon | Total Residual Chlorine | Gross Alpha(900.0), Gross Beta(900.0), Tritium (H-3) (906.0), Sr-90 (905.0), Total Combined Radium 226 (903.0 or 903.1) & Radium 228 (904.0), Uranium (908.0), K-40, CS-137 (901.0 or 901.1) | PCBs                       | 8015 - gas  | 8015 - diesel/jet fuel | Monomethylhydrazine | Acute and Chronic Toxicity | Total Dissolved Metals: Cu, Pb, Hg, B, Ba, Fe, Mn, Sb, As, Be, Cd, Cr, Ni, Se, Ag, TI, Zn, Co, V, Hardness as CaCO <sub>3</sub> | Comments  |
| Outfall 002  | W             | VOAs                                    | 5          | 7/16/09 9:30        | HCl                  | 14A, 14B, 14C, 14D, 14E | X  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | VOAs                                    | 3          |                     | None                 | 15A, 15B, 15C           |  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | VOAs                                    | 3          |                     | HCl                  | 16A, 16B, 16C           | X  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | 250 ml Glass                            | 1          |                     | HCl                  | 17                      |  | X           |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | 150 ml Poly                             | 1          |                     | None                 | 18                      |  |             | X                    |                         |  |                            |   |                        |                     |                            |   | TRC Exceeded on 2/3/08  |
| Outfall 002  | W             | 2.5 Gal Cube 500 ml Amber               | 1          |                     | None                 | 19A                     |  |             |                      |                         | X  |                            |   |                        |                     |                            |   | Unfiltered and unpreserved analysis   |
| Outfall 002  | W             | 1L Amber                                | 2          |                     | None                 | 20A, 20B                |  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | VOAs                                    | 1          |                     | HCl                  | 21A                     |  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002 Dup  | W             | VOAs                                    | 2          |                     | HCl                  | 21B, 21C                |  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Outfall 002  | W             | 1L Amber                                | 1          |                     | None                 | 22A                     |  |             |                      |                         |  |                            |   | X                      |                     |                            |   |   |
| Outfall 002 Dup  | W             | 1L Amber                                | 1          |                     | None                 | 22B                     |  |             |                      |                         |  |                            |   | X                      |                     |                            |   |   |
| Outfall 002  | W             | 1L Amber                                | 2          |                     | None                 | 23A, 23B                |  |             |                      |                         |  |                            |   | X                      |                     |                            |   |   |
| Outfall 002  | W             | 1 Gal Cube                              | 2          |                     | None                 | 24A, 24B                |  |             |                      |                         |  |                            |   | X                      |                     |                            |   | Exceeded 9/22/07; (Test 4 more rain events)   |
| Outfall 002  | W             | 1L Poly                                 | 1          |                     | None                 | 25                      |  |             |                      |                         |  |                            |   |                        |                     |                            |   | Filter w/in 24hrs of receipt at lab; As, Ba, Be, Cr, Fe, Mn, Ni exceeded 9/22/07. Mn exceeded on 1/25/08, Fe exceeded on 2/3/08 |
| Trip Blanks  | W             | VOAs                                    | 3          |                     | HCl                  | 26A, 26B, 26C           | X  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Trip Blanks  | W             | VOAs                                    | 3          | 7/16/09 9:30        | None                 | 27A, 27B, 27C           |  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Relinquished By  | [Signature]   |   | 2/16/09    | Date/Time: 1545     | Received By          | [Signature]             | Date/Time: 1545  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Relinquished By  | [Signature]   |   | 2/16/09    | Date/Time: 1820     | Received By          | [Signature]             | Date/Time: 1820  |             |                      |                         |  |                            |   |                        |                     |                            |   |   |
| Relinquished By  | [Signature]   |   |            | Date/Time:          | Received By          | [Signature]             | Date/Time:   |             |                      |                         |  |                            |   |                        |                     |                            |   |   |

Turn around Time: (check) 24 Hours \_\_\_\_\_ 5 Days \_\_\_\_\_  
 48 Hours \_\_\_\_\_ 10 Days \_\_\_\_\_  
 72 Hours \_\_\_\_\_ Normal \_\_\_\_\_  
 Sample Integrity: (check) Intact \_\_\_\_\_ On Ice: 3.9/13.3  
 Data Requirements: (check) No Level IV \_\_\_\_\_ All Level IV \_\_\_\_\_  
 NPDES Level IV X



# LABORATORY REPORT



**Aquatic  
Testing  
Laboratories**

**Date:** February 25, 2009

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

*"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

**Laboratory No.:** A-09021704  
**Sample I.D.:** ISB1786-01 (Outfall 001)

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

Date Sampled: 02/16/09  
Date Received: 02/17/09  
Temp. Received: 0.5°C  
Chlorine (TRC): 0.0 mg/l  
Date Tested: 02/17/09 to 02/24/09

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


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

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

## Result Summary:

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

**Quality Control:** Reviewed and approved by:

  
Joseph A. LeMay  
Laboratory Director

**FATHEAD MINNOW PERCENT SURVIVAL TEST  
EPA Method 2000.0**



Lab No.: A-09021704-001  
Client/ID: TestAmerica - ISB1786-01

Start Date: 02/17/2009

**TEST SUMMARY**

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

Source: In-laboratory Culture.  
Test type: Static-Renewal.  
Test Protocol: EPA-821-R-02-012.  
Endpoints: Percent Survival at 96 hrs.  
Test chamber: 600 ml beakers.  
Temperature: 20 +/- 1°C.  
Number of fish per chamber: 10.  
QA/QC Batch No.: RT-090203.

**TEST DATA**

|         |         | °C   | DO   | pH  | # Dead |   | Analyst & Time of Readings |
|---------|---------|------|------|-----|--------|---|----------------------------|
|         |         |      |      |     | A      | B |                            |
| INITIAL | Control | 20.6 | 8.8  | 8.0 | 0      | 0 | Rv                         |
|         | 100%    | 19.6 | 11.3 | 7.5 | 0      | 0 | 1400                       |
| 24 Hr   | Control | 19.7 | 8.4  | 7.4 | 0      | 0 | Rv                         |
|         | 100%    | 19.8 | 8.4  | 6.7 | 0      | 0 | 1300                       |
| 48 Hr   | Control | 20.0 | 7.7  | 7.3 | 0      | 0 | Rv                         |
|         | 100%    | 20.0 | 7.8  | 6.8 | 0      | 0 | 1300                       |
| Renewal | Control | 20.4 | 8.9  | 7.7 | 0      | 0 | Rv                         |
|         | 100%    | 19.2 | 11.4 | 6.3 | 0      | 0 | 1300                       |
| 72 Hr   | Control | 19.5 | 8.0  | 7.3 | 0      | 0 | Rv                         |
|         | 100%    | 19.7 | 7.9  | 6.5 | 0      | 0 | 1230                       |
| 96 Hr   | Control | 20.2 | 7.9  | 7.6 | 0      | 0 | Rv                         |
|         | 100%    | 20.4 | 8.0  | 6.8 | 0      | 0 | 1400                       |

**Comments:**

Sample as received: Chlorine: 0.0 mg/l; pH: 7.5; Conductivity: 102 umho; Temp: 0.5°C;  
DO: 11.3 mg/l; Alkalinity: 20 mg/l; Hardness: 40 mg/l; NH<sub>3</sub>-N: 0.3 mg/l.  
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.  
Control: Alkalinity: 61 mg/l; Hardness: 94 mg/l; Conductivity: 300 umho.  
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No  
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.  
Dissolved Oxygen (DO) readings in mg/l O<sub>2</sub>.

**RESULTS**

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

# ***CERIODAPHNIA SURVIVAL AND REPRODUCTION TEST***

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

**CERIODAPHNIA CHRONIC BIOASSAY  
EPA METHOD 1002.0**



Lab No.: A-09021704-001  
Client/ID: Test America - ISB1786-01 (Outfall 001)

Date Tested: 02/17/09 to 02/24/09

**TEST SUMMARY**

|   |  |
|---|--|
| Test type: Daily static-renewal.                | Endpoints: Survival and Reproduction.    |
| Species: <i>Ceriodaphnia dubia</i> .            | Source: In-laboratory culture.           |
| Age: < 24 hrs; all released within 8 hrs.       | Food: .1 ml YTC, algae per day.          |
| Test vessel size: 30 ml.                        | Test solution volume: 15 ml.             |
| Number of test organisms per vessel: 1.         | Number of replicates: 10.                |
| Temperature: 25 +/- 1°C.                        | Photoperiod: 16/8 hrs. light/dark cycle. |
| Dilution water: Mod. hard reconstituted (MHRW). | Test duration: 7 days.                   |
| QA/QC Batch No.: RT-090203.                     | Statistics: ToxCalc computer program.    |

**RESULTS SUMMARY**

| Sample Concentration | Percent Survival | Mean Number of Young Per Female |
|----------------------|------------------|---------------------------------|
| Control              | 100%             | 17.4                            |
| 100% Sample          | 100%             | 24.4                            |

\* 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 (17.4 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 = 14.8%)                                    |
| Statistically significantly different concentrations relative difference > 13%        | Pass (no concentration significantly different)        |
| Concentration response relationship acceptable  | Pass (no significant response at concentration tested) |

**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

Start Date: 2/17/2009 15:00 Test ID: 9021704c Sample ID: ISB1786-01  
 End Date: 2/24/2009 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial  
 Sample Date: 2/16/2009 14:00 Protocol: FWCH 4TH-EPA-821-R-02-0 Test Species: CD-Ceriodaphnia dubia

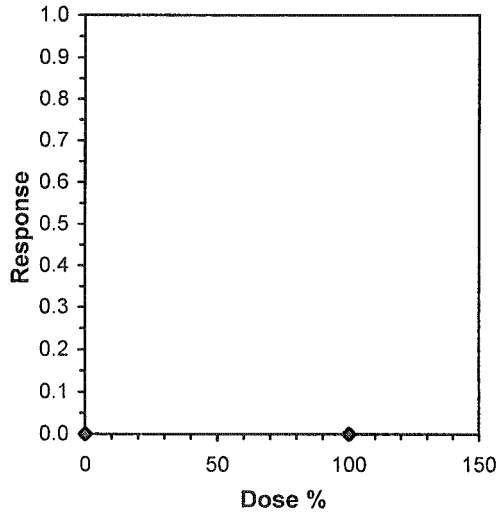
Comments:

| 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: 2/17/2009 15:00 Test ID: 9021704c Sample ID: ISB1786-01  
 End Date: 2/24/2009 15:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: EFF2-Industrial  
 Sample Date: 2/16/2009 14:00 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 | 18.000 | 18.000 | 11.000 | 17.000 | 20.000 | 16.000 | 16.000 | 12.000 | 19.000 |
| 100       | 27.000 | 22.000 | 24.000 | 25.000 | 24.000 | 26.000 | 22.000 | 24.000 | 25.000 | 25.000 |

| Conc-%    | Mean   | N-Mean | Transform: Untransformed |        |        |        |    | Rank Sum | 1-Tailed Critical | Isotonic |        |
|-----------|--------|--------|--------------------------|--------|--------|--------|----|----------|-------------------|----------|--------|
|           |        |        | Mean                     | Min    | Max    | CV%    | N  |          |                   | Mean     | N-Mean |
| D-Control | 17.400 | 1.0000 | 17.400                   | 11.000 | 27.000 | 25.444 | 10 |          |                   | 20.900   | 1.0000 |
| 100       | 24.400 | 1.4023 | 24.400                   | 22.000 | 27.000 | 6.466  | 10 | 145.50   | 82.00             | 20.900   | 1.0000 |

**Auxiliary Tests**

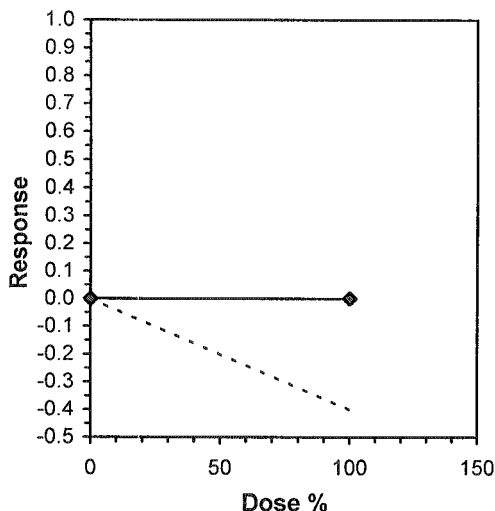
|   | Statistic | Critical | Skew    | Kurt    |
|---|-----------|----------|---------|---------|
| Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.05) | 0.88456   | 0.905    | 0.82274 | 3.85168 |
| F-Test indicates unequal variances (p = 5.12E-03)                 | 7.875     | 6.54109  |         |         |

**Hypothesis Test (1-tail, 0.05)**

Wilcoxon Two-Sample Test indicates no significant differences  
 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 DUBIA CHRONIC BIOASSAY  
EPA METHOD 1002.0 Raw Data Sheet**



Lab No.: A-09021704-001

Client ID: TestAmerica - ISB1786-01

Start Date: 02/17/2009

|                   |      | 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: |      | 1500  | 1400 | 1400  | 1500 | 1500  | 1500 | 1500  | 1600 | 1600  | 1500 | 1500  | 1600 | 1600  | 1500 |
| Control           | DO   | 9.0   | 9.2  | 9.2   | 8.4  | 8.9   | 9.3  | 9.4   | 9.1  | 9.6   | 9.3  | 8.9   | 8.8  | 8.9   | 8.5  |
|                   | pH   | 7.9   | 7.7  | 7.7   | 7.8  | 7.7   | 7.8  | 7.6   | 7.9  | 7.6   | 7.8  | 7.6   | 8.0  | 7.7   | 7.7  |
|                   | Temp | 25.7  | 24.5 | 25.4  | 24.3 | 25.5  | 24.2 | 25.5  | 24.4 | 25.4  | 24.1 | 25.4  | 24.4 | 25.2  | 24.2 |
| 100%              | DO   | 11.0  | 9.7  | 10.4  | 8.8  | 10.3  | 9.6  | 10.2  | 9.7  | 9.7   | 9.5  | 9.6   | 9.0  | 9.5   | 9.3  |
|                   | pH   | 6.2   | 7.0  | 6.4   | 7.2  | 6.5   | 7.2  | 6.4   | 7.4  | 6.3   | 7.4  | 6.3   | 7.3  | 6.1   | 7.0  |
|                   | Temp | 25.7  | 24.4 | 25.6  | 24.5 | 25.6  | 24.5 | 25.8  | 24.4 | 25.5  | 24.6 | 25.3  | 24.9 | 25.0  | 24.6 |

| Additional Parameters                | Control | 100% Sample |
|--------------------------------------|---------|-------------|
| Conductivity (umohms)                | 300     | 102         |
| Alkalinity (mg/l CaCO <sub>3</sub> ) | 61      | 20          |
| Hardness (mg/l CaCO <sub>3</sub> )   | 94      | 40          |
| Ammonia (mg/l NH <sub>3</sub> -N)    | <0.1    | 0.3         |

| Source of Neonates |    |    |    |    |    |    |    |    |    |    |  |
|--------------------|----|----|----|----|----|----|----|----|----|----|--|
| Replicate:         | A  | B  | C  | D  | E  | F  | G  | H  | I  | J  |  |
| Brood ID:          | A1 | B2 | C3 | D2 | E1 | F2 | G3 | H1 | I1 | J3 |  |

| 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                        | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              | Rm               |
|         | 4     | 4                        | 4  | 4  | 0  | 0  | 2  | 3  | 2  | 0  | 3  | 22               | 10              | Rm               |
|         | 5     | 0                        | 0  | 0  | 5  | 4  | 0  | 4  | 5  | 4  | 6  | 28               | 10              | Rm               |
|         | 6     | 8                        | 4  | 6  | 0  | 4  | 6  | 0  | 0  | 0  | 10 | 38               | 10              | Rm               |
|         | 7     | 15                       | 10 | 8  | 6  | 9  | 12 | 9  | 9  | 8  | 0  | 86               | 10              | Rm               |
|         | Total | 27                       | 18 | 18 | 11 | 17 | 20 | 16 | 16 | 12 | 19 | 174              | 10              | Rm               |
| 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                        | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              | Rm               |
|         | 4     | 6                        | 4  | 5  | 5  | 4  | 4  | 4  | 4  | 4  | 4  | 44               | 10              | Rm               |
|         | 5     | 10                       | 9  | 10 | 9  | 10 | 10 | 8  | 9  | 11 | 10 | 96               | 10              | Rm               |
|         | 6     | 0                        | 9  | 9  | 11 | 10 | 12 | 10 | 11 | 10 | 11 | 93               | 10              | Rm               |
|         | 7     | 11                       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 11               | 10              | Rm               |
|         | Total | 27                       | 22 | 24 | 25 | 24 | 26 | 22 | 24 | 25 | 25 | 244              | 10              | Rm               |

Circled fourth brood not used in statistical analysis.

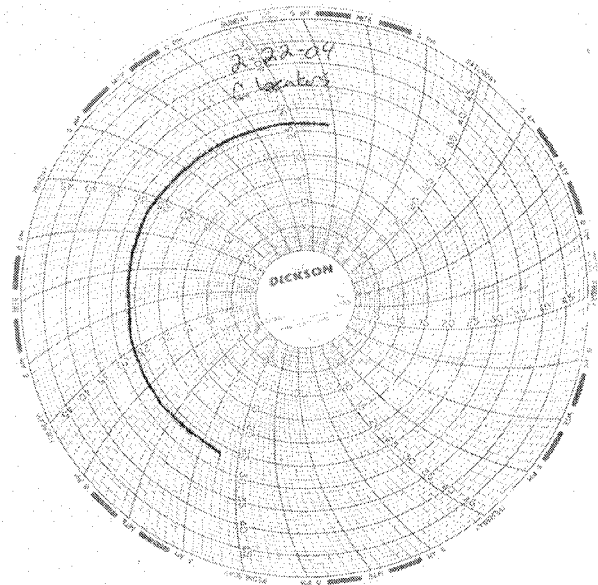
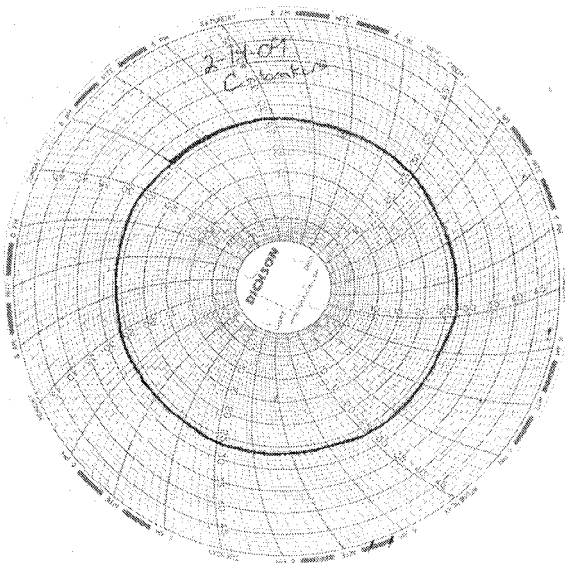
7<sup>th</sup> day only used if <60% of the surviving control females have produced their third brood.

# Test Temperature Chart

Test No: A-090217

Date Tested: 02/17/09 to 02/24/09

Acceptable Range: 25 $\pm$ 1 $^{\circ}$ C







***CHAIN  
OF  
CUSTODY***

SUBCONTRACT ORDER

TestAmerica Irvine

ISB1786

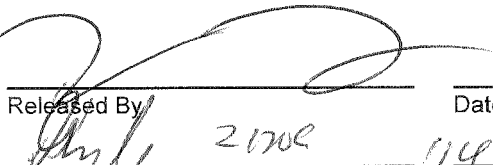
SENDING LABORATORY:

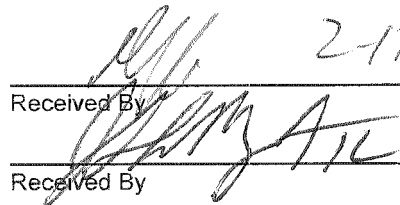
TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak

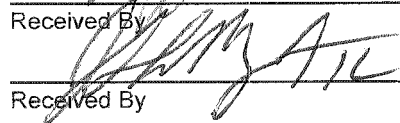
RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB  
4350 Transport Street, Unit 107  
Ventura, CA 93003  
Phone : (805) 650-0546  
Fax: (805) 650-0756  
Project Location: CA - CALIFORNIA  
Receipt Temperature: 0-5 °C Ice: (Y) / N

| Analysis              | Units           | Due      | Expires                 | Comments                                      |
|-----------------------|-----------------|----------|-------------------------|---|
| Sample ID: ISB1786-01 | Water           |          | Sampled: 02/16/09 14:00 |   |
| Bioassay-7 dy Chnrc   | N/A             | 02/25/09 | 02/18/09 02:00          | Cerio, EPA/821-R02-013, Sub to AqTox Labs     |
| Bioassay-Acute 96hr   | % Survival      | 02/25/09 | 02/18/09 02:00          | FH minnow, EPA/821-R02-012, Sub to AqTox Labs |
| Level 4 Data Package  | N/A             | 02/25/09 | 03/16/09 14:00          |   |
| Containers Supplied:  |                 |          |                         |   |
| 1 gal Poly (AU)       | 1 gal Poly (AV) |          |                         |   |

Released By:  Date/Time: 2/17/09 11:42

Received By:  Date/Time: 2-17-09 7:14:5

Received By:  Date/Time: 2-17-09 11:42



***REFERENCE  
TOXICANT  
DATA***

*Fathead Minnow  
Acute Toxicity Test  
Reference  
Toxicant  
Data*

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



QA/QC Batch No.: RT-090203

**TEST SUMMARY**

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

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

**TEST DATA**

| Date/Time: | INITIAL            |            |            | 24 Hr              |            |            |           |           | 48 Hr              |            |            |          |          |
|------------|--------------------|------------|------------|--------------------|------------|------------|-----------|-----------|--------------------|------------|------------|----------|----------|
|            | <u>2-3-09 1430</u> |            |            | <u>2-4-09 1400</u> |            |            |           |           | <u>2-5-09 1330</u> |            |            |          |          |
|            | <u>Rn</u>          |            |            | <u>Rn</u>          |            |            |           |           | <u>Rn</u>          |            |            |          |          |
|            | °C                 | DO         | pH         | °C                 | DO         | pH         | # Dead    |           | °C                 | DO         | pH         | # Dead   |          |
| A          |                    |            |            |                    |            |            | B         | A         |                    |            |            | B        |          |
| Control    | <u>20.7</u>        | <u>8.6</u> | <u>7.7</u> | <u>20.2</u>        | <u>8.0</u> | <u>7.5</u> | <u>0</u>  | <u>0</u>  | <u>20.0</u>        | <u>7.5</u> | <u>7.9</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l   | <u>20.7</u>        | <u>8.6</u> | <u>7.7</u> | <u>20.2</u>        | <u>7.8</u> | <u>7.5</u> | <u>0</u>  | <u>0</u>  | <u>20.0</u>        | <u>7.8</u> | <u>7.7</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l   | <u>20.7</u>        | <u>8.7</u> | <u>7.7</u> | <u>20.2</u>        | <u>7.5</u> | <u>7.4</u> | <u>0</u>  | <u>0</u>  | <u>20.1</u>        | <u>8.0</u> | <u>7.6</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l   | <u>20.7</u>        | <u>8.7</u> | <u>7.8</u> | <u>20.2</u>        | <u>7.3</u> | <u>7.3</u> | <u>0</u>  | <u>0</u>  | <u>20.1</u>        | <u>7.8</u> | <u>7.6</u> | <u>0</u> | <u>0</u> |
| 8.0 mg/l   | <u>20.7</u>        | <u>8.7</u> | <u>7.8</u> | <u>20.1</u>        | <u>5.9</u> | <u>7.2</u> | <u>10</u> | <u>10</u> | <u>-</u>           | <u>-</u>   | <u>-</u>   | <u>-</u> | <u>-</u> |

| Date/Time: | RENEWAL            |            |            | 72 Hr              |            |            |          |          | 96 Hr              |            |            |          |          |
|------------|--------------------|------------|------------|--------------------|------------|------------|----------|----------|--------------------|------------|------------|----------|----------|
|            | <u>2-5-09 1330</u> |            |            | <u>2-6-09 1300</u> |            |            |          |          | <u>2-7-09 1400</u> |            |            |          |          |
|            | <u>Rn</u>          |            |            | <u>Rn</u>          |            |            |          |          | <u>Rn</u>          |            |            |          |          |
|            | °C                 | DO         | pH         | °C                 | DO         | pH         | # Dead   |          | °C                 | DO         | pH         | # Dead   |          |
| A          |                    |            |            |                    |            |            | B        | A        |                    |            |            | B        |          |
| Control    | <u>20.8</u>        | <u>8.8</u> | <u>7.7</u> | <u>20.1</u>        | <u>6.6</u> | <u>7.5</u> | <u>0</u> | <u>0</u> | <u>19.6</u>        | <u>6.0</u> | <u>7.4</u> | <u>0</u> | <u>0</u> |
| 1.0 mg/l   | <u>20.8</u>        | <u>8.8</u> | <u>7.7</u> | <u>20.2</u>        | <u>6.9</u> | <u>7.5</u> | <u>0</u> | <u>0</u> | <u>19.5</u>        | <u>6.2</u> | <u>7.4</u> | <u>0</u> | <u>0</u> |
| 2.0 mg/l   | <u>20.8</u>        | <u>8.8</u> | <u>7.8</u> | <u>20.1</u>        | <u>6.7</u> | <u>7.5</u> | <u>0</u> | <u>0</u> | <u>19.5</u>        | <u>6.1</u> | <u>7.3</u> | <u>0</u> | <u>0</u> |
| 4.0 mg/l   | <u>20.8</u>        | <u>8.9</u> | <u>7.8</u> | <u>20.2</u>        | <u>6.9</u> | <u>7.5</u> | <u>0</u> | <u>0</u> | <u>19.5</u>        | <u>6.3</u> | <u>7.3</u> | <u>0</u> | <u>0</u> |
| 8.0 mg/l   | <u>-</u>           | <u>-</u>   | <u>-</u>   | <u>-</u>           | <u>-</u>   | <u>-</u>   | <u>-</u> | <u>-</u> | <u>-</u>           | <u>-</u>   | <u>-</u>   | <u>-</u> | <u>-</u> |

Comments: Control: Alkalinity: 70 mg/l; Hardness: 92 mg/l; Conductivity: 312 umho.  
 SDS: Alkalinity: 71 mg/l; Hardness: 93 mg/l; Conductivity: 318 umho.

Concentration-response relationship acceptable? (see attached computer analysis):

Yes (response curve normal)

No (dose interrupted indicated or non-normal)

**Acute Fish Test-96 Hr Survival**

Start Date: 2/3/2009 14:30    Test ID: RT-090203    Sample ID: REF-Ref Toxicant  
 End Date: 2/7/2009 14:00    Lab ID: CAATL-Aquatic Testing Labs    Sample Type: SDS-Sodium dodecyl sulfate  
 Sample Date: 2/3/2009    Protocol: ACUTE-EPA-821-R-02-012    Test Species: PP-Pimephales promelas  
 Comments:

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

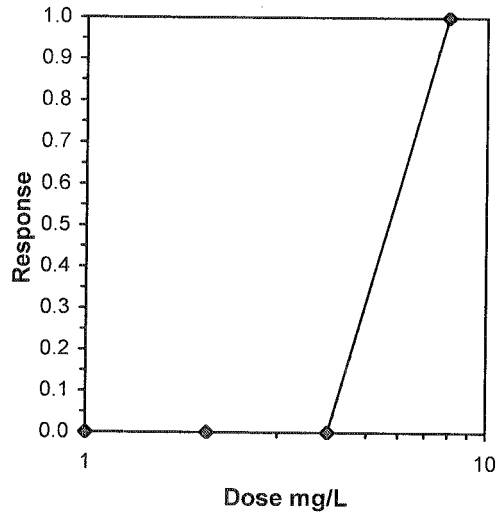
| Conc-mg/L | Transform: Arcsin Square Root |        |        |        |        |       |   | Number Resp | Total Number |
|-----------|-------------------------------|--------|--------|--------|--------|-------|---|-------------|--------------|
|           | Mean                          | N-Mean |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

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

**Graphical Method**

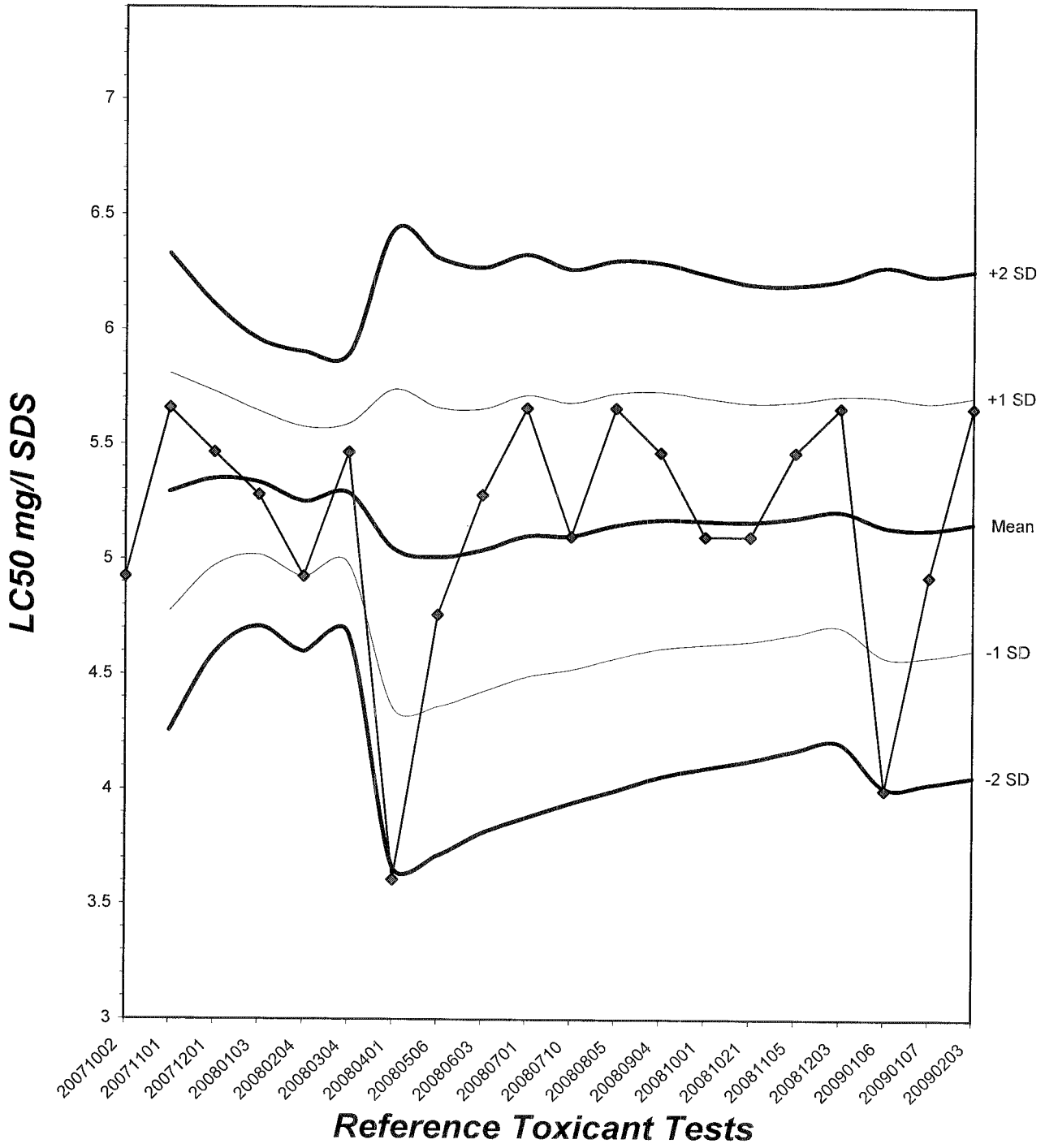
| Trim Level | EC50   |
|------------|--------|
| 0.0%       | 5.6569 |

5.6569



# Fathead Minnow Acute Laboratory Control Chart

CV% = 10.7



# TEST ORGANISM LOG



## FATHEAD MINNOW - LARVAL (*Pimephales promelas*)

QA/QC BATCH NO.: RT-090203

SOURCE: In-Lab Culture

DATE HATCHED: 1-20-09

APPROXIMATE QUANTITY: 400

GENERAL APPEARANCE: good

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

DATE USED IN LAB: 2-13-09

AVERAGE FISH WEIGHT: 0.006 gm

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

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

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

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

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

### ACCLIMATION WATER QUALITY:

Temp.: 20.7 °C

pH: 7.7

Ammonia: 401 mg/l NH<sub>3</sub>-N

DO: 8.6 mg/l

Alkalinity: 70 mg/l

Hardness: 92 mg/l

READINGS RECORDED BY: \_\_\_\_\_

DATE: 2-7-09

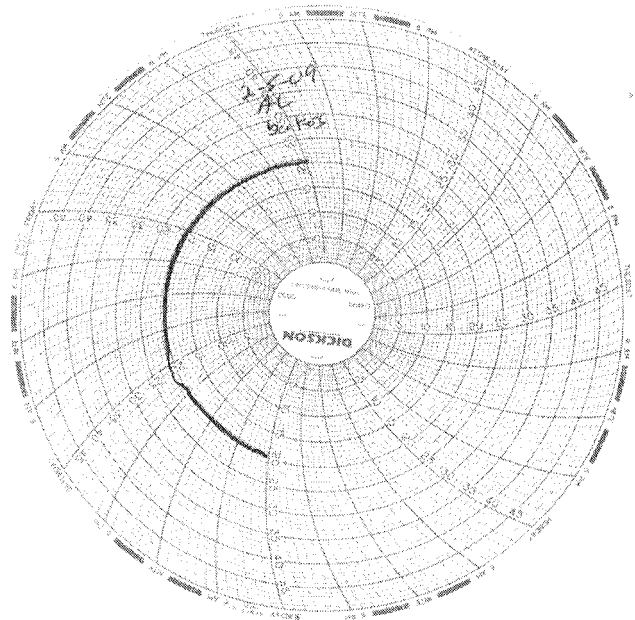
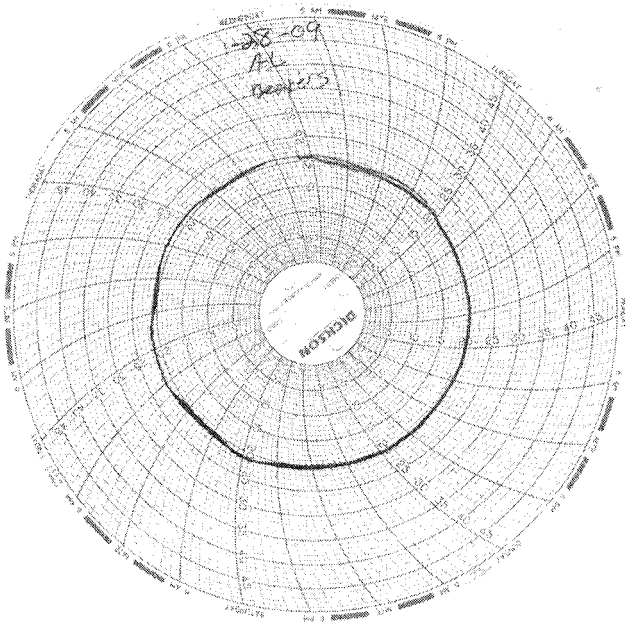


# *Test Temperature Chart*

*Test No: RT-090203*

*Date Tested: 02/03/09 to 02/07/09*

*Acceptable Range: 20 $\pm$ 1 $^{\circ}$ C*



*Ceriodaphnia dubia*  
*Chronic Toxicity Test*  
*Reference*  
*Toxicant*  
*Data*

# CERIODAPHNIA CHRONIC BIOASSAY

## EPA METHOD 1002.0 REFERENCE TOXICANT - NaCl



QA/QC Batch No.: RT-090203

Date Tested: 02/03/09 to 02/10/09

### TEST SUMMARY

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

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

### RESULTS SUMMARY

| Sample Concentration | Percent Survival |   | Mean Number of Young Per Female |    |
|----------------------|------------------|---|---------------------------------|----|
| Control              | 100%             |   | 24.1                            |    |
| 0.25 g/l             | 100%             |   | 25.5                            |    |
| 0.5 g/l              | 100%             |   | 23.5                            |    |
| 1.0 g/l              | 100%             |   | 16.4                            | *  |
| 2.0 g/l              | 90%              |   | 3.5                             | *  |
| 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     | 2.6 g/l  |
| Reproduction IC25 | 0.85 g/l |

### QA/QC TEST ACCEPTABILITY

| Parameter  | Result  |
|--|---|
| Control survival ≥ 80%                           | Pass (100% Survival)                                      |
| ≥ 15 young per surviving control female          | Pass (24.1 young)   |
| ≥ 60% surviving controls had 3 broods            | Pass (90% with 3 broods)                                  |
| PMSD < 47% for reproduction                      | Pass (PMSD = 9.6%)  |
| Stat. sig. diff. conc. relative difference > 13% | Pass (Stat. sig. diff. conc. relative difference = 31.9%) |
| Concentration response relationship acceptable   | Pass (Response curve normal)                              |

**Ceriodaphnia Survival and Reproduction Test-7 Day Survival**

Start Date: 2/3/2009 16:00    Test ID: RT-090203c    Sample ID: REF-Ref Toxicant  
 End Date: 2/10/2009 15:30    Lab ID: CAATL-Aquatic Testing Labs    Sample Type: NACL-Sodium chloride  
 Sample Date: 2/3/2009    Protocol: FWCH 4TH-EPA-821-R-02-0    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 | 0.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4         | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| Conc-gm/L | Mean   | N-Mean | Resp | Not Resp | Total | N  | Fisher's Exact P | 1-Tailed Critical | Number Resp | Total Number |
|-----------|--------|--------|------|----------|-------|----|------------------|-------------------|-------------|--------------|
| D-Control | 1.0000 | 1.0000 | 0    | 10       | 10    | 10 |                  |                   | 0           | 10           |
| 0.25      | 1.0000 | 1.0000 | 0    | 10       | 10    | 10 | 1.0000           | 0.0500            | 0           | 10           |
| 0.5       | 1.0000 | 1.0000 | 0    | 10       | 10    | 10 | 1.0000           | 0.0500            | 0           | 10           |
| 1         | 1.0000 | 1.0000 | 0    | 10       | 10    | 10 | 1.0000           | 0.0500            | 0           | 10           |
| 2         | 0.9000 | 0.9000 | 1    | 9        | 10    | 10 | 0.5000           | 0.0500            | 1           | 10           |
| 4         | 0.0000 | 0.0000 | 10   | 0        | 10    | 10 |                  |                   | 10          | 10           |

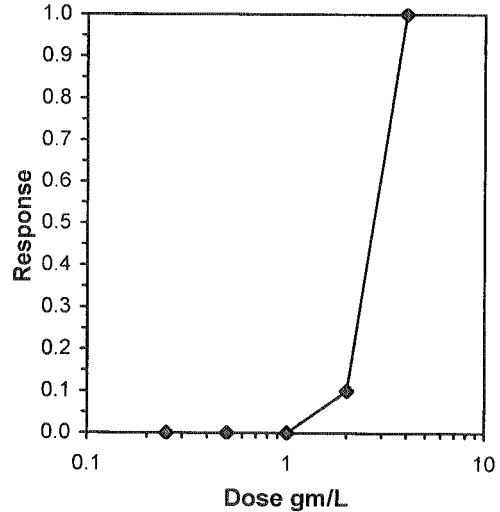
**Hypothesis Test (1-tail, 0.05)**    NOEC    LOEC    ChV    TU

Fisher's Exact Test                      2            4            2.82843

Treatments vs D-Control

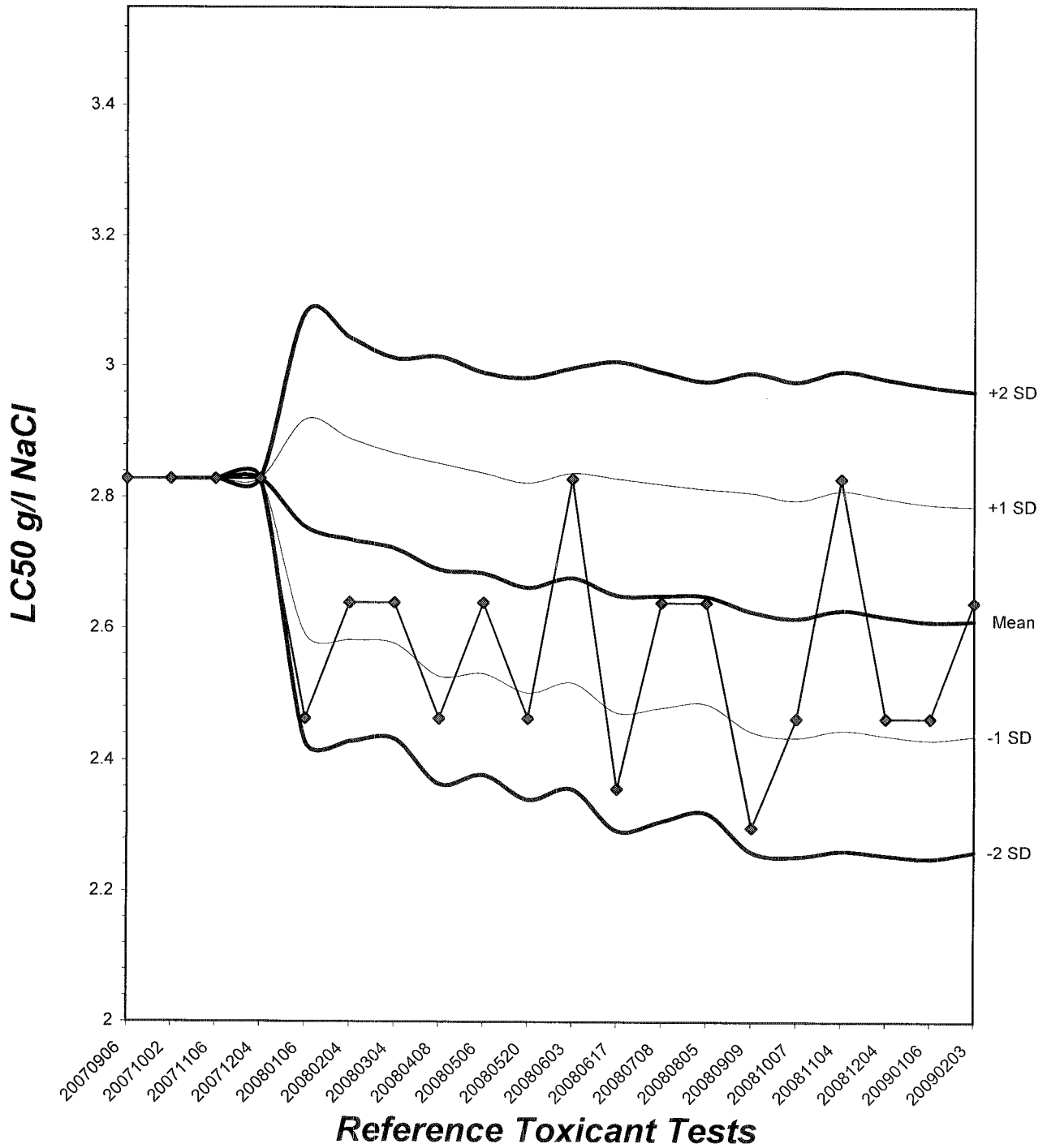
**Trimmed Spearman-Kärber**

| Trim Level | EC50   | 95% CL        |
|------------|--------|---------------|
| 0.0%       | 2.6390 | 2.3138 3.0099 |
| 5.0%       | 2.6984 | 2.2899 3.1798 |
| 10.0%      | 2.7216 | 2.5094 2.9517 |
| 20.0%      | 2.7216 | 2.5094 2.9517 |
| Auto-0.0%  | 2.6390 | 2.3138 3.0099 |



# Ceriodaphnia Chronic Survival Laboratory Control Chart

CV% = 6.71



**Ceriodaphnia Survival and Reproduction Test-Reproduction**

Start Date: 2/3/2009 16:00    Test ID: RT-090203c    Sample ID: REF-Ref Toxicant  
 End Date: 2/10/2009 15:30    Lab ID: CAATL-Aquatic Testing Labs    Sample Type: NACL-Sodium chloride  
 Sample Date: 2/3/2009    Protocol: FWCH 4TH-EPA-821-R-02-0    Test Species: CD-Ceriodaphnia dubia

Comments:

| Conc-gm/L | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| D-Control | 25.000 | 19.000 | 26.000 | 25.000 | 24.000 | 25.000 | 24.000 | 25.000 | 22.000 | 26.000 |
| 0.25      | 20.000 | 26.000 | 29.000 | 30.000 | 26.000 | 25.000 | 26.000 | 24.000 | 25.000 | 24.000 |
| 0.5       | 26.000 | 18.000 | 20.000 | 22.000 | 23.000 | 25.000 | 27.000 | 24.000 | 30.000 | 20.000 |
| 1         | 10.000 | 9.000  | 20.000 | 21.000 | 23.000 | 20.000 | 10.000 | 22.000 | 19.000 | 10.000 |
| 2         | 2.000  | 2.000  | 4.000  | 2.000  | 5.000  | 5.000  | 2.000  | 6.000  | 5.000  | 2.000  |
| 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 | 24.100 | 1.0000 | 24.100                   | 19.000 | 26.000 | 8.846  | 10 |          |                   | 24.800   | 1.0000 |
| 0.25      | 25.500 | 1.0581 | 25.500                   | 20.000 | 30.000 | 10.819 | 10 | 121.00   | 76.00             | 24.800   | 1.0000 |
| 0.5       | 23.500 | 0.9751 | 23.500                   | 18.000 | 30.000 | 15.571 | 10 | 98.50    | 76.00             | 23.500   | 0.9476 |
| *1        | 16.400 | 0.6805 | 16.400                   | 9.000  | 23.000 | 35.578 | 10 | 62.00    | 76.00             | 16.400   | 0.6613 |
| *2        | 3.500  | 0.1452 | 3.500                    | 2.000  | 6.000  | 47.140 | 10 | 55.00    | 76.00             | 3.500    | 0.1411 |
| 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 normal distribution (p > 0.05) | 0.95819   | 0.947    | -0.3265 | -0.1582 |
| Bartlett's Test indicates unequal variances (p = 2.14E-03)   | 16.7726   | 13.2767  |         |         |

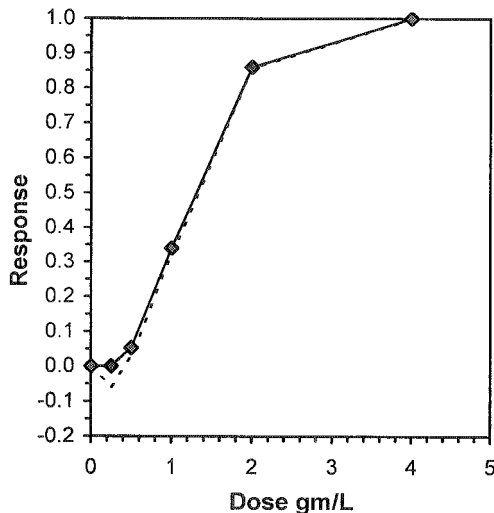
**Hypothesis Test (1-tail, 0.05)**

|                            | NOEC | LOEC | ChV     | TU |
|----------------------------|------|------|---------|----|
| Steel's Many-One Rank Test | 0.5  | 1    | 0.70711 |    |

Treatments vs D-Control

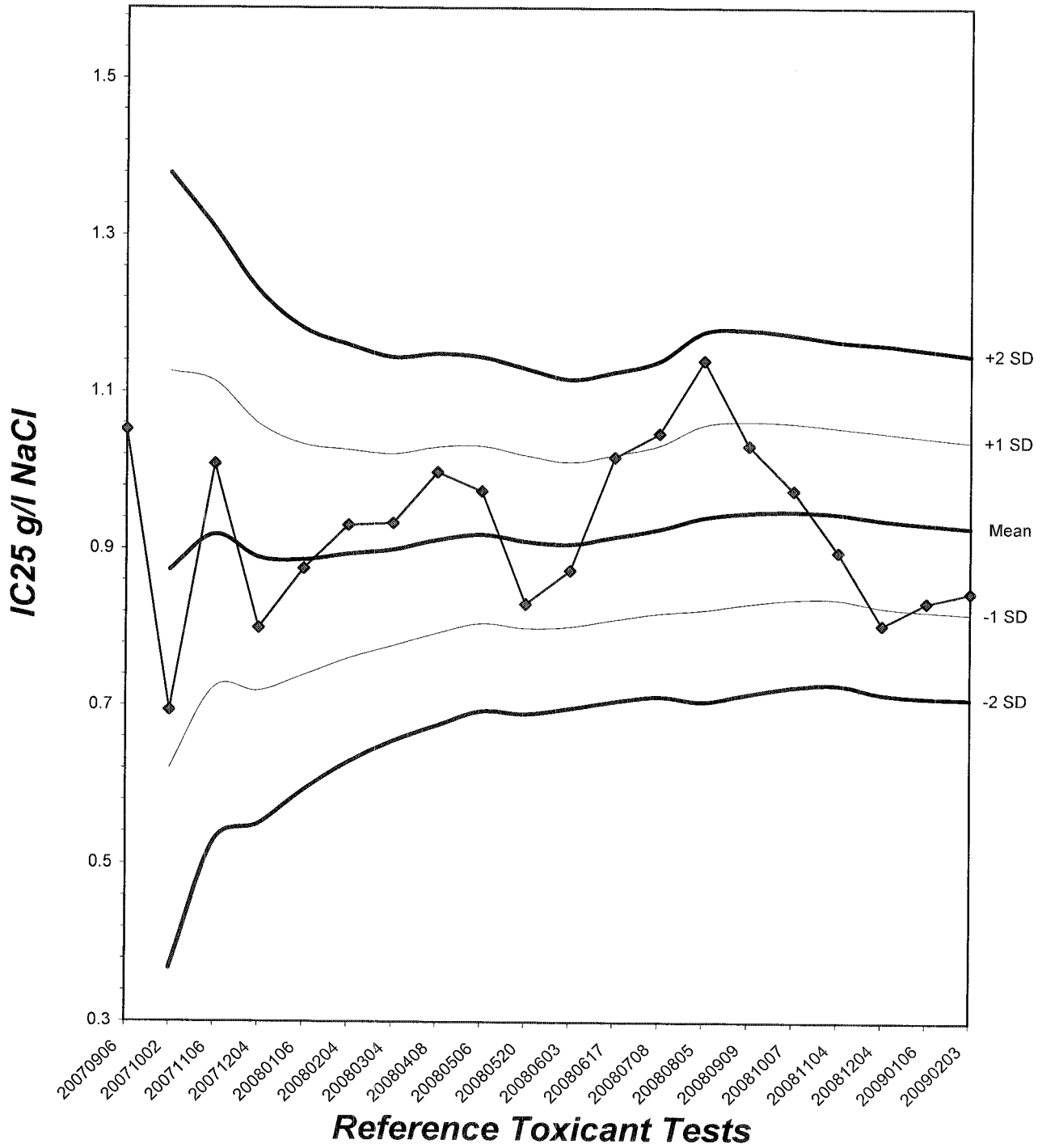
**Linear Interpolation (200 Resamples)**

| Point | gm/L   | SD     | 95% CL |        | Skew    |
|-------|--------|--------|--------|--------|---------|
| IC05  | 0.4885 | 0.0860 | 0.3398 | 0.6005 | -0.0581 |
| IC10  | 0.5831 | 0.0780 | 0.4322 | 0.7065 | 0.2232  |
| IC15  | 0.6704 | 0.0835 | 0.5271 | 0.8274 | 0.7408  |
| IC20  | 0.7577 | 0.0888 | 0.6245 | 0.9501 | 0.7504  |
| IC25  | 0.8451 | 0.0959 | 0.7133 | 1.0505 | 0.6224  |
| IC40  | 1.1178 | 0.1068 | 0.9221 | 1.2861 | -0.1220 |
| IC50  | 1.3101 | 0.0961 | 1.0946 | 1.4453 | -0.6206 |



# Ceriodaphnia Chronic Reproduction Laboratory Control Chart

CV% = 11.8



# CERIODAPHNIA DUBIA CHRONIC BIOASSAY

Reference Toxicant - NaCl

## Reproduction and Survival Raw Data Sheet



QA/QC No.: RT-090203

Start Date: 02/03/2009

| Sample   | Day   | Number of Young Produced |    |    |               |    |    |    |    |    |    | Total Live Young | No. Live Adults | Analyst Initials |
|----------|-------|--------------------------|----|----|---------------|----|----|----|----|----|----|------------------|-----------------|------------------|
|          |       | A                        | B  | C  | D             | E  | F  | G  | H  | I  | J  |                  |                 |                  |
| Control  | 1     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              | R                |
|          | 2     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              |                  |
|          | 3     | 3                        | 0  | 0  | 5             | 4  | 4  | 3  | 4  | 3  | 4  | 30               | 10              |                  |
|          | 4     | 8                        | 3  | 4  | 7             | 6  | 7  | 0  | 6  | 0  | 7  | 48               | 10              |                  |
|          | 5     | 0                        | 0  | 10 | <del>10</del> | 0  | 14 | 7  | 0  | 6  | 0  | 37               | 10              |                  |
|          | 6     | 14                       | 16 | 0  | 13            | 0  | 0  | 0  | 0  | 0  | 15 | 58               | 10              |                  |
|          | 7     | 13                       | 0  | 12 | 0             | 14 | 12 | 14 | 15 | 13 | 0  | 68               | 10              |                  |
|          | Total | 25                       | 19 | 26 | 25            | 24 | 25 | 24 | 25 | 22 | 26 | 241              | 10              |                  |
| 0.25 g/l | 1     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 10               | R               |                  |
|          | 2     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 10               |                 |                  |
|          | 3     | 3                        | 0  | 0  | 0             | 5  | 0  | 4  | 3  | 0  | 0  | 15               |                 | 10               |
|          | 4     | 7                        | 4  | 3  | 4             | 0  | 3  | 0  | 7  | 4  | 3  | 35               |                 | 10               |
|          | 5     | 0                        | 8  | 11 | 10            | 7  | 12 | 7  | 14 | 7  | 6  | 82               |                 | 10               |
|          | 6     | 0                        | 0  | 15 | 16            | 0  | 0  | 0  | 0  | 0  | 0  | 31               |                 | 10               |
|          | 7     | 10                       | 14 | 0  | 0             | 14 | 10 | 15 | 12 | 14 | 15 | 92               |                 | 10               |
|          | Total | 20                       | 26 | 29 | 30            | 26 | 25 | 26 | 24 | 25 | 24 | 255              |                 | 10               |
| 0.5 g/l  | 1     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 10               | R               |                  |
|          | 2     | 0                        | 0  | 0  | 0             | 0  | 0  | 0  | 0  | 0  | 0  | 10               |                 |                  |
|          | 3     | 0                        | 0  | 0  | 0             | 4  | 4  | 0  | 4  | 3  | 0  | 15               |                 | 10               |
|          | 4     | 5                        | 6  | 5  | 4             | 0  | 0  | 4  | 0  | 0  | 3  | 27               |                 | 10               |
|          | 5     | 7                        | 0  | 0  | 8             | 6  | 7  | 9  | 6  | 11 | 7  | 61               |                 | 10               |
|          | 6     | 0                        | 0  | 0  | 0             | 0  | 14 | 0  | 0  | 16 | 10 | 40               |                 | 10               |
|          | 7     | 14                       | 12 | 15 | 10            | 13 | 0  | 14 | 14 | 0  | 0  | 92               |                 | 10               |
|          | Total | 26                       | 18 | 20 | 22            | 23 | 25 | 27 | 24 | 30 | 20 | 235              |                 | 10               |

Circled fourth brood not used in statistical analysis.

7<sup>th</sup> 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-090203

Start Date: 02/03/2009

| 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                | 0               | 10               | R |
|         | 2     | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 0               | 10               |   |
|         | 3     | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 0               | 10               |   |
|         | 4     | 4                        | 3 | 4  | 3  | 2  | 4  | 3  | 2  | 3  | 4  |                  | 32              | 10               |   |
|         | 5     | 0                        | 0 | 0  | 11 | 10 | 7  | 0  | 11 | 0  | 0  |                  | 53              | 10               |   |
|         | 6     | 6                        | 0 | 0  | 0  | 11 | 0  | 7  | 0  | 0  | 6  |                  | 30              | 10               |   |
|         | 7     | 0                        | 6 | 10 | 7  | 0  | 9  | 0  | 9  | 8  | 0  |                  | 49              | 10               |   |
|         | Total | 10                       | 9 | 20 | 21 | 23 | 20 | 10 | 22 | 19 | 10 |                  | 164             | 10               |   |
| 2.0 g/l | 1     | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              | R                |   |
|         | 2     | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              |                  |   |
|         | 3     | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                | 10              |                  |   |
|         | 4     | 2                        | 0 | 0  | 0  | 0  | 0  | 0  | 2  | 3  | 0  | 7                | 10              |                  |   |
|         | 5     | 0                        | 2 | 2  | 0  | 3  | 2  | 2  | 0  | 0  | 0  | 11               | 10              |                  |   |
|         | 6     | 0                        | 0 | 0  | 2  | 0  | 0  | 0  | 4  | 2  | 0  | 8                | 10              |                  |   |
|         | 7     | 0                        | X | 2  | 0  | 2  | 3  | 0  | 0  | 0  | 2  | 9                | 10              |                  |   |
|         | Total | 2                        | 2 | 4  | 2  | 5  | 5  | 2  | 6  | 5  | 2  | 35               | 9               |                  |   |
| 4.0 g/l | 1     | X                        | X | X  | X  | X  | X  | X  | X  | X  | X  | 0                | 0               | R                |   |
|         | 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.

7<sup>th</sup> 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-090203

Start Date: 02/03/2009

|                   |      | 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: |      | Rm      | Rm    | Rm      | Rm    | Rm      | Rm    | Rm      | Rm    | Rm      | Jr    | Rm      | Jr    | Rm      | Jr    |
| Time of Readings: |      | 1600    | 1500  | 1500    | 1500  | 1500    | 1500  | 1500    | 1700  | 1700    | 1500  | 1500    | 1530  | 1530    | 1530  |
| Control           | DO   | 8.3     | 8.8   | 8.8     | 9.2   | 8.4     | 8.8   | 8.5     | 8.7   | 8.4     | 8.1   | 8.3     | 8.5   | 8.5     | 8.4   |
|                   | pH   | 7.8     | 8.1   | 8.2     | 8.0   | 7.7     | 7.8   | 7.7     | 7.8   | 7.7     | 7.7   | 7.7     | 7.8   | 7.7     | 7.8   |
|                   | Temp | 25.0    | 24.1  | 24.2    | 24.0  | 25.5    | 24.1  | 25.5    | 24.0  | 25.0    | 24.1  | 24.7    | 24.6  | 25.0    | 24.1  |
| 0.25 g/l          | DO   | 8.4     | 8.7   | 8.8     | 9.1   | 8.4     | 8.7   | 8.5     | 8.6   | 8.4     | 8.3   | 8.4     | 8.2   | 8.5     | 8.3   |
|                   | pH   | 7.8     | 8.1   | 8.2     | 8.0   | 7.7     | 7.8   | 7.7     | 7.8   | 7.7     | 7.7   | 7.8     | 7.8   | 7.7     | 7.8   |
|                   | Temp | 25.0    | 24.2  | 24.2    | 24.1  | 25.5    | 24.3  | 25.5    | 24.2  | 25.0    | 24.3  | 24.8    | 24.2  | 24.8    | 24.4  |
| 0.5 g/l           | DO   | 8.4     | 8.7   | 8.7     | 9.1   | 8.5     | 8.7   | 8.4     | 8.6   | 8.3     | 8.2   | 8.3     | 8.3   | 8.4     | 8.2   |
|                   | pH   | 7.8     | 8.2   | 8.2     | 8.0   | 7.8     | 7.8   | 7.7     | 7.9   | 7.8     | 7.7   | 7.8     | 7.8   | 7.7     | 7.7   |
|                   | Temp | 25.0    | 24.0  | 24.2    | 24.0  | 25.5    | 24.1  | 25.4    | 24.0  | 25.0    | 24.2  | 24.9    | 24.4  | 24.7    | 24.2  |
| 1.0 g/l           | DO   | 8.4     | 8.8   | 8.7     | 9.0   | 8.5     | 8.8   | 8.4     | 8.7   | 8.3     | 8.1   | 8.4     | 8.4   | 8.2     | 8.3   |
|                   | pH   | 7.8     | 8.2   | 8.2     | 8.1   | 7.8     | 7.8   | 7.8     | 7.9   | 7.8     | 7.8   | 7.9     | 7.8   | 7.7     | 7.7   |
|                   | Temp | 25.0    | 24.0  | 24.1    | 24.3  | 25.4    | 24.2  | 25.3    | 24.1  | 25.0    | 24.3  | 24.4    | 24.3  | 24.6    | 24.1  |
| 2.0 g/l           | DO   | 8.4     | 8.9   | 8.7     | 9.1   | 8.5     | 8.9   | 8.3     | 8.9   | 8.3     | 8.2   | 8.5     | 8.2   | 8.3     | 8.4   |
|                   | pH   | 7.9     | 8.2   | 8.2     | 8.1   | 7.8     | 7.9   | 7.8     | 7.9   | 7.8     | 7.8   | 7.8     | 7.8   | 7.8     | 7.7   |
|                   | Temp | 24.9    | 24.3  | 24.0    | 24.0  | 25.3    | 24.2  | 25.1    | 24.2  | 25.0    | 24.4  | 25.0    | 24.4  | 24.3    | 24.4  |
| 4.0 g/l           | DO   | 8.5     | 9.0   | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     |
|                   | pH   | 7.9     | 8.2   | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     |
|                   | Temp | 24.8    | 24.2  | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     | -       | -     |

Dissolved Oxygen (DO) readings are in mg/l O<sub>2</sub>; 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)                    | 312     | 300   | 305   | 6420               | 3350  | 3500  |
| Alkalinity (mg/l CaCO <sub>3</sub> ) | 70      | 60    | 60    | 71                 | 64    | 63    |
| Hardness (mg/l CaCO <sub>3</sub> )   | 92      | 93    | 92    | 93                 | 93    | 93    |

### Source of Neonates

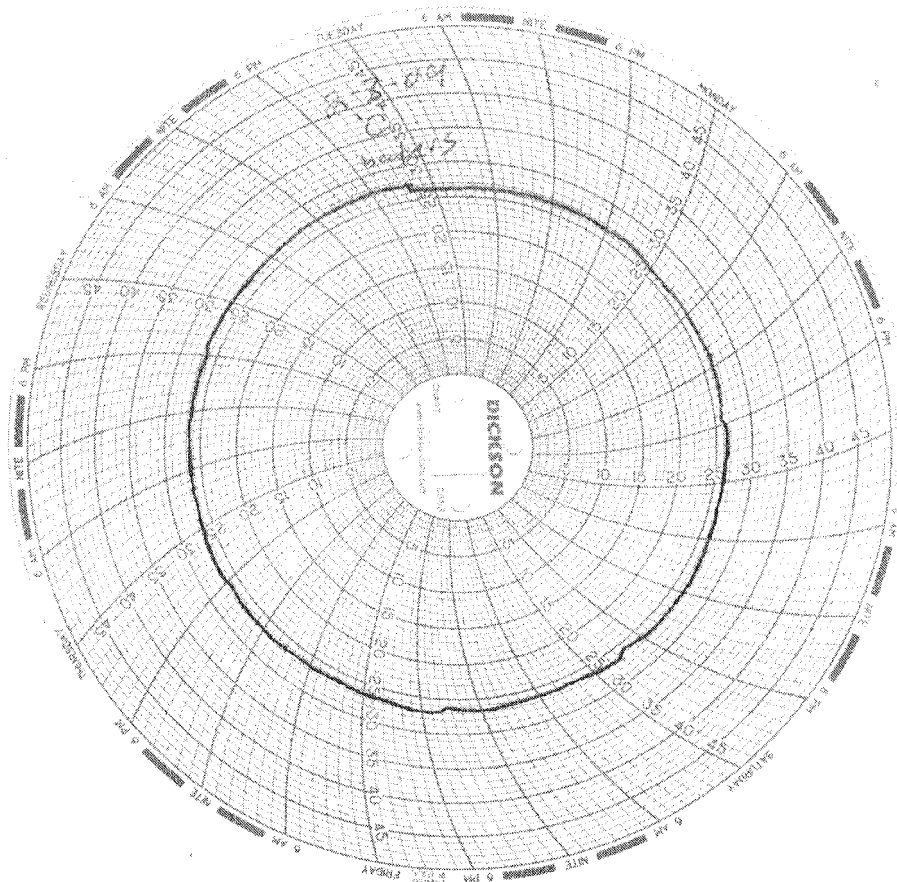
|            |    |    |    |    |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|----|----|----|----|
| Replicate: | A  | B  | C  | D  | E  | F  | G  | H  | I  | J  |
| Brood ID:  | A1 | B2 | C3 | D2 | E3 | F2 | G1 | H3 | I1 | J2 |

# *Test Temperature Chart*

*Test No: RT-090203*

*Date Tested: 02/03/09 to 02/10/09*

*Acceptable Range: 25 +/- 1°C*





TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

MWH-Pasadena / Boeing

Lot D9B190119

Project ISB1796

Joseph Doak  
17461 Derian Avenue  
Suite 100  
Irvine, CA 92614

TestAmerica Laboratories, Inc.

  
for DiLea Griego  
Project Manager

February 25, 2009

# Table of Contents

## Standard Deliverables with Supporting Documentation

### Report Contents

### Number of Pages

#### Standard Deliverables

*(The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.)*

- Table of Contents
- Case Narrative
- Executive Summary – Detection Highlights
- Methods Summary
- Method/Analyst Summary
- Lot Sample Summary
- Analytical Results
- QC Data Association Summary
- Chain-of-Custody

#### Supporting Documentation

*(Note: A one-page "Description of Supporting Documentation" is provided at the beginning of this section.)*

Check below when supporting documentation is present.

- Volatile GC/MS
- Semivolatile GC/MS
- Volatile GC
- Semivolatile GC
- LC/MS or HPLC
- Metals
- General Chemistry
- Subcontracted Data

## Quality Control Definitions of Qualifiers

| Qualifier | Definition   |
|-----------|--|
| U         | Result is less than the method detection limit (MDL).  |
| B         | Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.<br>Inorganics: Estimated result. Result is less than the RL |
| J         | Organics: Estimated result. Result is less than RL<br>Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.     |
| E         | Estimated result. Result concentrations exceed the calibration range.  |
| p         | Relative Percent Difference (RPD) is outside control limits.   |
| *         | Surrogate or Relative Percent Difference (RPD) is outside control limits.  |
| DIL       | The concentration is estimated or not reported due to dilution.  |
| COL       | More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.  |
| CHI       | More than 40% difference between the primary and confirmation detector results. The higher of the two results is reported.   |
| L         | Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.   |
| a         | Spiked analyte recovery is outside stated control limits.  |
| N         | Spiked analyte recovery is outside stated control limits.  |
| NC        | The recovery and/or RPD were not calculated.   |
| MSB       | The recovery and/or RPD were not calculated because the sample amount was greater than four times the spike amount.  |

## Case Narrative

Enclosed is the report for one sample received at TestAmerica Laboratories, Inc. – Denver laboratory on February 18, 2009. The results included in this report relate only to the samples in this report and have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

This report may include reporting limits (RLs) less than the Denver laboratory's standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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

## Quality Control Summary for Lot D9B190119

### Sample Receiving

The cooler temperature upon receipt at the laboratory was acceptable at 2.6°C.

### Total Mercury –Method 245.1

MS/MSD (Matrix Spike/Matrix Spike Duplicate) analyses were performed on sample ISB1796-01. The MS/MSD for method 245.1 exhibited spike compound recoveries below the QC limits for Mercury. The acceptable LCS (Laboratory Control Sample) analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No anomalies were observed.

### Dissolved Mercury –Method 245.1

No anomalies were observed.

# EXECUTIVE SUMMARY - Detection Highlights

D9B190119

| <u>PARAMETER</u>              | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>ANALYTICAL<br/>METHOD</u> |
|-------------------------------|---------------|----------------------------|--------------|------------------------------|
| ISB1796-01 02/16/09 09:30 001 |               |                            |              |                              |
| Mercury - DISSOLVED           | 0.030 J       | 0.20                       | ug/L         | MCAWW 245.1                  |
| Mercury                       | 0.032 J       | 0.20                       | ug/L         | MCAWW 245.1                  |



# METHODS SUMMARY

D9B190119

| <u>PARAMETER</u>                      | <u>ANALYTICAL<br/>METHOD</u> | <u>PREPARATION<br/>METHOD</u> |
|---------------------------------------|------------------------------|-------------------------------|
| Dissolved Mercury (CVAA)              | MCAWW 245.1                  | MCAWW 245.1                   |
| Mercury (Manual Cold Vapor Technique) | MCAWW 245.1                  | MCAWW 245.1                   |

## References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

# METHOD / ANALYST SUMMARY

D9B190119

| <u>ANALYTICAL<br/>METHOD</u> | <u>ANALYST</u>       | <u>ANALYST<br/>ID</u> |
|------------------------------|----------------------|-----------------------|
| MCAWW 245.1                  | Christopher Grisdale | 9582                  |

## References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.

# SAMPLE SUMMARY

D9B190119

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| K7EHT       | 001            | ISB1796-01              | 02/16/09            | 09:30            |

**NOTE (S) :**

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

# QC DATA ASSOCIATION SUMMARY

D9B190119

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | WATER         | MCAWW 245.1                  |                          | 9050174                 | 9050101        |
|                | WATER         | MCAWW 245.1                  |                          | 9050182                 | 9050105        |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Total Metals

CLP-Like Forms

Lot ID: D9B190119

Client: TA Irvine

Method: 245.1

Associated Samples: -001

Batch: 9050174

Total Metals  
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine

SDG No.: D9B190119

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SOW No.: \_\_\_\_\_

| <u>Sample ID.</u>     | <u>Lab Sample No.</u>  |
|-----------------------|------------------------|
| <u>ISB1796-01</u>     | <u>D9B190119-001</u>   |
| <u>ISB1796-01 MS</u>  | <u>D9B190119-001S</u>  |
| <u>ISB1796-01 MSD</u> | <u>D9B190119-001SD</u> |

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: *Yongming Ding*

Name: Yongming Ding

Date: 2/24/2009

Title: Analyst V

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050174  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:** ISB1796-01  
**Lab Sample ID:** D9B190119-001  
**Lab WorkOrder:** K7EHT  
**Date/Time Collected:** 02/16/09 09:30  
**Date/Time Received:** 02/18/09 10:15  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 17:21  
**Instrument ID:** 023

| CAS No.   | Analyte | Conc. | MDL   | RL   | Q |
|-----------|---------|-------|-------|------|---|
| 7439-97-6 | Mercury | 0.032 | 0.027 | 0.20 | J |

Total Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|---------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|         | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Mercury | 7.000               | 7.087 | 101.2 | 5.000                  | 4.879 | 97.6  | 4.931 | 98.6  | CV |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115



**Total Metals**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D9B190119

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

| Analyte | CRDL Standard for AA |         |      | CRDL Standard for ICP |       |       |       |    |
|---------|----------------------|---------|------|-----------------------|-------|-------|-------|----|
|         | True                 | Found   | %R   | Initial               |       | Final |       |    |
|         |                      |         |      | True                  | Found | %R    | Found | %R |
| Mercury | 0.200                | 0.19300 | 96.5 |                       |       |       |       |    |

Comments:

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:**  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050174  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9B190000-174B  
**Lab WorkOrder:** K7EN8  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 17:16  
**Instrument ID:** 023

| CAS No.   | Analyte | Conc. | MDL   | RL   | Q |
|-----------|---------|-------|-------|------|---|
| 7439-97-6 | Mercury | 0.027 | 0.027 | 0.20 | U |

**Total Metals**

-3-

**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) |         |   |  |  |         | Preparation Blank | M |
|---------|-----------------------------|-------------------------------------|---------|---|--|--|---------|-------------------|---|
|         |                             | 1                                   | 2       | 3 |  |  |         |                   |   |
| Mercury | 0.027 U                     | 0.027 U                             | 0.027 U |   |  |  | 0.027 U | CV                |   |

Comments:

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050174  
**MS Sample Aliquot:** 10 mL  
**MS Dilution Factor:** 1

**Client Sample ID:** ISB1796-01  
**MS Lab Sample ID:** D9B190119-001S  
**MS Lab WorkOrder:** K7EHT  
**Date/Time Collected:** 02/16/09 09:30  
**Date/Time Received:** 02/18/09 10:15  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 17:23  
**Instrument ID:** 023

| Analyte | Spike Amount | Sample Result | C | MS Result | C | % Rec | Q | QC Limit |
|---------|--------------|---------------|---|-----------|---|-------|---|----------|
| Mercury | 5.00         | 0.032         | J | 4.29      |   | 85    | N | 90 - 110 |

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

Lab Name: TESTAMERICA DENVER

Lot/SDG Number: D9B190119

Matrix: WATER

% Moisture: N/A

Basis: Wet

Analysis Method: 245.1

Unit: ug/L

QC Batch ID: 9050174

MSD Sample Aliquot: 10 mL

MSD Dilution Factor: 1

Client Sample ID: ISB1796-01

MSD Lab Sample ID: D9B190119-001D

MSD Lab WorkOrder: K7EHT

Date/Time Collected: 02/16/09 09:30

Date/Time Received: 02/18/09 10:15

Date Leached:

Date/Time Extracted: 02/19/09 13:30

Date/Time Analyzed: 02/19/09 17:25

Instrument ID: 023

| Analyte | Spike Amount | Sample Result | C | MSD Result | C | % Rec | Q | RPD | Q | QC Limits |     |
|---------|--------------|---------------|---|------------|---|-------|---|-----|---|-----------|-----|
|         |              |               |   |            |   |       |   |     |   | % Rec     | RPD |
| Mercury | 5.00         | 0.032         | J | 4.29       |   | 85    | N | 0.0 |   | 90 - 110  | 10  |

## TestAmerica Irvine

### Total Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050174  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9B190000-174C  
**Lab WorkOrder:** K7EN8  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 17:18  
**Instrument ID:** 023

| Analyte | True | Found | %Rec | Q | Limits   |
|---------|------|-------|------|---|----------|
| Mercury | 5.00 | 4.78  | 96   |   | 90 - 110 |

**Total Metals**  
-10-  
**DETECTION LIMITS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

ICP ID Number: \_\_\_\_\_ Date: 12/26/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: \_\_\_\_\_

| Analyte | Wave-length (nm) | Back-ground | PQL (ug/L) | MDL (ug/L) | M  |
|---------|------------------|-------------|------------|------------|----|
| Mercury | 253.70           |             | 0.20       | 0.027      | CV |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Metals

-13-

PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Method: CV Prep Method: \_\_\_\_\_

| Sample ID      | Preparation Date | Initial Volume | Final Volume (mL) |
|----------------|------------------|----------------|-------------------|
| MB9050174      | 2/19/2009        | 10.0           | 10.0              |
| Check Sample   | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01     | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01 MS  | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01 MSD | 2/19/2009        | 10.0           | 10.0              |

Comments:



Total Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D9B190119

Instrument ID Number: Cetac M7500 Hg Method: CV

Start Date: 2/19/2009 End Date: 2/19/2009

| Sample ID.     | D/F  | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |   |  |
|----------------|------|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|---|--|
|                |      |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>E | S<br>E | A<br>G | N<br>A | T<br>L | V | Z<br>N | C<br>N |   |  |
| Cal Blank      | 1.00 | 15:48 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std1           | 1.00 | 15:50 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std2           | 1.00 | 15:52 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std3           | 1.00 | 15:54 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std4           | 1.00 | 15:57 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std5           | 1.00 | 15:59 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Std6           | 1.00 | 16:01 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ICB            | 1.00 | 16:04 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ICV            | 1.00 | 16:07 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| RL             | 1.00 | 16:09 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| CCV            | 1.00 | 17:02 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| CCB            | 1.00 | 17:04 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ZZZZZZ         | 1.00 | 17:07 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |   |  |
| ZZZZZZ         | 1.00 | 17:09 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |   |  |
| ZZZZZZ         | 1.00 | 17:11 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |   |  |
| ZZZZZZ         | 1.00 | 17:14 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        |   |  |
| MB9050174      | 1.00 | 17:16 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| Check Sample   | 1.00 | 17:18 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ISB1796-01     | 1.00 | 17:21 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ISB1796-01 MS  | 1.00 | 17:23 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| ISB1796-01 MSD | 1.00 | 17:25 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| CCV            | 1.00 | 17:28 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |
| CCB            | 1.00 | 17:30 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |        |        | X |  |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Dissolved Metals

CLP-Like Forms

Lot ID: D9B190119

Client: TA Irvine

Method: 245.1

Associated Samples: -001

Batch: 9050182

Dissolved Metals  
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: TestAmerica Irvine

SDG No.: D9B190119

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_

SAS No.: \_\_\_\_\_

SOW No.: \_\_\_\_\_

| <u>Sample ID.</u>     | <u>Lab Sample No.</u>  |
|-----------------------|------------------------|
| <u>ISB1796-01</u>     | <u>D9B190119-001</u>   |
| <u>ISB1796-01 MS</u>  | <u>D9B190119-001S</u>  |
| <u>ISB1796-01 MSD</u> | <u>D9B190119-001SD</u> |

Were ICP interelement corrections applied? Yes/No YES

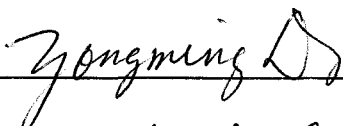
Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: Yongming Ding

Date: 2/24/2009

Title: Analyst V

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050182  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:** ISB1796-01  
**Lab Sample ID:** D9B190119-001  
**Lab WorkOrder:** K7EHT  
**Date/Time Collected:** 02/16/09 09:30  
**Date/Time Received:** 02/18/09 10:15  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 16:21  
**Instrument ID:** 023

| CAS No.   | Analyte | Conc. | MDL   | RL   | Q |
|-----------|---------|-------|-------|------|---|
| 7439-97-6 | Mercury | 0.030 | 0.027 | 0.20 | J |

Dissolved Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|---------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|         | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Mercury | 7.000               | 7.087 | 101.2 | 5.000                  | 5.110 | 102.2 | 4.974 | 99.5  | CV |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Dissolved Metals

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Initial Calibration Source: Inorganic Ventures

Continuing Calibration Source: Ultra Scientific

Concentration Units: ug/L

| Analyte | Initial Calibration |       |       | Continuing Calibration |       |       |       |       | M  |
|---------|---------------------|-------|-------|------------------------|-------|-------|-------|-------|----|
|         | True                | Found | %R(1) | True                   | Found | %R(1) | Found | %R(1) |    |
| Mercury |                     |       |       | 5.000                  | 5.127 | 102.5 | 5.097 | 101.9 | CV |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

**Dissolved Metals**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D9B190119

AA CRDL Standard Source: Ultra Scientific

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

| Analyte | CRDL Standard for AA |         |      | CRDL Standard for ICP |       |       |       |    |
|---------|----------------------|---------|------|-----------------------|-------|-------|-------|----|
|         | True                 | Found   | %R   | Initial               |       | Final |       |    |
|         |                      |         |      | True                  | Found | %R    | Found | %R |
| Mercury | 0.200                | 0.19300 | 96.5 |                       |       |       |       |    |

Comments:

**TestAmerica Irvine**

**Dissolved Metals Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:**  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050182  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9B190000-182B  
**Lab WorkOrder:** K7EPP  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 16:16  
**Instrument ID:** 023

| CAS No.   | Analyte | Conc. | MDL   | RL   | Q |
|-----------|---------|-------|-------|------|---|
| 7439-97-6 | Mercury | 0.027 | 0.027 | 0.20 | U |



**Dissolved Metals**

-3-

**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) |         |         |         |         |         | Preparation Blank | M |
|---------|-----------------------------|-------------------------------------|---------|---------|---------|---------|---------|-------------------|---|
|         |                             | 1                                   | 2       | 3       | 4       | 5       | 6       |                   |   |
| Mercury | 0.027 U                     | 0.027 U                             | 0.027 U | 0.027 U | 0.027 U | 0.027 U | 0.027 U | CV                |   |

Comments:

**Dissolved Metals**

-3-

**BLANKS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | Continuing Calibration Blank (ug/L) |   |   |   |   |   | Preparation Blank | M  |
|---------|-----------------------------|-------------------------------------|---|---|---|---|---|-------------------|----|
|         |                             | 1                                   | C | 2 | C | 3 | C |                   |    |
| Mercury |                             | 0.027                               | U |   |   |   |   |                   | CV |

Comments:

## TestAmerica Irvine

### Dissolved Metals Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050182  
**MS Sample Aliquot:** 10 mL  
**MS Dilution Factor:** 1

**Client Sample ID:** ISB1796-01  
**MS Lab Sample ID:** D9B190119-001S  
**MS Lab WorkOrder:** K7EHT  
**Date/Time Collected:** 02/16/09 09:30  
**Date/Time Received:** 02/18/09 10:15  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 16:23  
**Instrument ID:** 023

| Analyte | Spike Amount | Sample Result | C | MS Result | C | % Rec | Q | QC Limit |
|---------|--------------|---------------|---|-----------|---|-------|---|----------|
| Mercury | 5.00         | 0.030         | J | 4.57      |   | 91    |   | 90 - 110 |

**TestAmerica Irvine**

**Dissolved Metals Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050182  
**MSD Sample Aliquot:** 10 mL  
**MSD Dilution Factor:** 1

**Client Sample ID:** ISB1796-01  
**MSD Lab Sample ID:** D9B190119-001D  
**MSD Lab WorkOrder:** K7EHT  
**Date/Time Collected:** 02/16/09 09:30  
**Date/Time Received:** 02/18/09 10:15  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 16:25  
**Instrument ID:** 023

| Analyte | Spike Amount | Sample Result | C | MSD Result | C | % Rec | Q | RPD  | Q | QC Limits |     |
|---------|--------------|---------------|---|------------|---|-------|---|------|---|-----------|-----|
|         |              |               |   |            |   |       |   |      |   | % Rec     | RPD |
| Mercury | 5.00         | 0.030         | J | 4.55       |   | 90    |   | 0.37 |   | 90 - 110  | 10  |

**TestAmerica Irvine**

**Dissolved Metals Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9B190119  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 245.1  
**Unit:** ug/L  
**QC Batch ID:** 9050182  
**Sample Aliquot:** 10 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9B190000-182C  
**Lab WorkOrder:** K7EPP  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 02/19/09 13:30  
**Date/Time Analyzed:** 02/19/09 20:18  
**Instrument ID:** 023

| Analyte | True | Found | %Rec | Q | Limits   |
|---------|------|-------|------|---|----------|
| Mercury | 5.00 | 4.63  | 93   |   | 90 - 110 |

**Dissolved Metals**  
-10-  
**DETECTION LIMITS**

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

ICP ID Number: \_\_\_\_\_ Date: 12/26/2008

Flame AA ID Number: Cetac M7500 Hg

Furnace AA ID Number: \_\_\_\_\_

| Analyte | Wave-length (nm) | Back-ground | PQL (ug/L) | MDL (ug/L) | M  |
|---------|------------------|-------------|------------|------------|----|
| Mercury | 253.70           |             | 0.20       | 0.027      | CV |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dissolved Metals

-13-

PREPARATION LOG

Contract: TestAmerica Irvine

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: D9B190119

Method: CV Prep Method: \_\_\_\_\_

| Sample ID      | Preparation Date | Initial Volume | Final Volume (mL) |
|----------------|------------------|----------------|-------------------|
| MB9050182      | 2/19/2009        | 10.0           | 10.0              |
| Check Sample   | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01     | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01 MS  | 2/19/2009        | 10.0           | 10.0              |
| ISB1796-01 MSD | 2/19/2009        | 10.0           | 10.0              |

Comments:

Dissolved Metals

-14-

ANALYSIS RUN LOG

Contract: TestAmerica Irvine  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: D9B190119  
 Instrument ID Number: Cetac M7500 Hg Method: CV  
 Start Date: 2/19/2009 End Date: 2/19/2009

| Sample ID.     | D/F  | Time  | % R | Analytes |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
|----------------|------|-------|-----|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|--|
|                |      |       |     | A<br>L   | S<br>B | A<br>S | B<br>A | B<br>E | C<br>D | C<br>A | C<br>R | C<br>O | C<br>U | F<br>E | P<br>B | M<br>G | M<br>N | H<br>G | N<br>I | K<br>I | S<br>E | A<br>G | N<br>A | T<br>A | V<br>L | Z<br>N | C<br>N |   |  |  |  |
| Cal Blank      | 1.00 | 15:48 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std1           | 1.00 | 15:50 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std2           | 1.00 | 15:52 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std3           | 1.00 | 15:54 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std4           | 1.00 | 15:57 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std5           | 1.00 | 15:59 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Std6           | 1.00 | 16:01 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ICB            | 1.00 | 16:04 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ICV            | 1.00 | 16:07 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| RL             | 1.00 | 16:09 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCV            | 1.00 | 16:11 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCB            | 1.00 | 16:14 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| MB9050182      | 1.00 | 16:16 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ZZZZZZ         | 1.00 | 16:18 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
| ISB1796-01     | 1.00 | 16:21 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ISB1796-01 MS  | 1.00 | 16:23 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ISB1796-01 MSD | 1.00 | 16:25 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| ZZZZZZ         | 1.00 | 16:27 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
| ZZZZZZ         | 1.00 | 16:30 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
| ZZZZZZ         | 1.00 | 16:32 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
| ZZZZZZ         | 1.00 | 16:34 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |   |  |  |  |
| CCV            | 1.00 | 16:37 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCB            | 1.00 | 16:39 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCV            | 1.00 | 20:14 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCB            | 1.00 | 20:16 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| Check Sample   | 1.00 | 20:18 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCV            | 1.00 | 20:21 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |
| CCB            | 1.00 | 20:23 |     |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X |  |  |  |

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



TestAmerica Denver  
Sample Receiving Checklist

Lot #: D9B190119 Date/Time Received: 2/18/9 1015

Company Name & Sampling Site: Irvine

PM to Complete This Section: Yes No  
Residual chlorine check required:   Quarantined:

Quote #: 12743

Special Instructions:

Time Zone:  
• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): 1  
Temperatures (°C): 2.6

N/A Yes No

Initials

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR. lt
- 2. Coolers scanned for radiation. Is the reading  $\leq$  to background levels? Yes:  No:
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative  HCl  4±2°C  Sodium Thiosulfate  Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

TestAmerica Denver  
Sample Receiving Checklist

Lot # D9B190119

Login Checks:

N/A Yes No

Initials  
AE

- 19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
- 22. Were special log in instructions read and followed?
- 23. Were AFCEE metals logged for refrigerated storage?
- 24. Were tests logged checked against the COC? Which samples were confirmed? All
- 25. Was a Rush form completed for quick TAT?
- 26. Was a Short Hold form completed for any short holds?
- 27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials

A

- 28. Was the subcontract COC signed and sent with samples to bottle prep?
- 29. Were sample labels double-checked by a second person?
- 30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
- 31. Did the sample ID, Date, and Time from label match what was logged?
- 32. Were stickers for special archiving instructions affixed to each box? See #27
- 33. Were AFCEE metals stored refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

216  
AB  
IRI  
2/18/9

SUBCONTRACT ORDER

TestAmerica Irvine

ISB1796

SENDING LABORATORY:

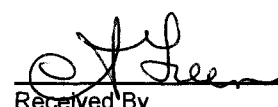
TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak  
Client: MWH-Pasadena/Boeing

RECEIVING LABORATORY:

TestAmerica Denver  
4955 Yarrow Street  
Arvada, CO 80002  
Phone: (303) 736-0100  
Fax: (303) 431-7171  
Project Location: CA - CALIFORNIA  
Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

| Analysis                     | Units               | Due                            | Expires        | Interlab Price | Surch | Comments                       |
|------------------------------|---------------------|--------------------------------|----------------|----------------|-------|--------------------------------|
| <b>Sample ID: ISB1796-01</b> |                     |                                |                |                |       |                                |
| <b>Water</b>                 |                     | <b>Sampled: 02/16/09 09:30</b> |                |                |       |                                |
| Level 4 + EDD-OUT            | N/A                 | 02/25/09                       | 03/16/09 09:30 | \$0.00         | 0%    | **LEVEL IV QC, ACCESS 7 EDD**  |
| Mercury - 245.1, Diss -OUT   | ug/l                | 02/25/09                       | 03/16/09 09:30 | \$36.00        | 0%    | OUT to Denver, Boeing, J flags |
| Mercury - 245.1-OUT          | ug/l                | 02/17/09                       | 03/16/09 09:30 | \$36.00        | 100%  | OUT to Denver, Boeing, J flags |
| <i>Containers Supplied:</i>  |                     |                                |                |                |       |                                |
| 125 mL Poly (AX)             | 1 L Poly w/HNO3 (B) |                                |                |                |       |                                |

  
Released By \_\_\_\_\_ Date/Time 02-17-09 16:43

  
Received By \_\_\_\_\_ Date/Time 2/18/9 10:15

Released By \_\_\_\_\_ Date/Time  
TestAmerica

Received By \_\_\_\_\_ Date/Time  
NPDES - 498 Page 1 of 1 39

# Metals

## Supporting Documentation

Sample Sequence, Instrument Printouts

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9B190119

Client: TA - IRVING - Boeing

Batch(es) #: 9050182 + 9050174

Associated Samples: 1

*I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.*

Signature/Date: Christopher Giudale 2/20/09

# *Metals Raw Data RoadMap*

| <i>LotID</i> |     | <i>Metal</i> | <i>WorkOrder</i> | <i>Anal Date</i> | <i>TestDesc</i> | <i>Batch</i> | <i>File Id</i> | <i>Instr</i> |
|--------------|-----|--------------|------------------|------------------|-----------------|--------------|----------------|--------------|
| D9B190119    | 1 D | HG           | K7EHT1AG         | 20090219         | M2451DS         | 9050182      | 090219AA       | 023          |
| D9B190119    | 1 S | HG           | K7EHT1AF         | 20090219         | M2451DS         | 9050182      | 090219AA       | 023          |
| D9B190119    | 1   | HG           | K7EHT1AC         | 20090219         | M2451DS         | 9050182      | 090219AA       | 023          |
| D9B190119    | 1 D | HG           | K7EHT1AE         | 20090219         | M2451_L         | 9050174      | 090219AA       | 023          |
| D9B190119    | 1 S | HG           | K7EHT1AD         | 20090219         | M2451_L         | 9050174      | 090219AA       | 023          |
| D9B190119    | 1   | HG           | K7EHT1AA         | 20090219         | M2451_L         | 9050174      | 090219AA       | 023          |

# Metals

## Supporting Documentation

Sample Sequence, Instrument Printouts

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID: D9B190121

Client: TA - Irvine - Boeing

Batch(es) #: 9050182 + 9050174

Associated Samples: 1

*I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.*

Signature/Date: Christopher Girdale 2/20/09

# *Metals Raw Data RoadMap*

| <i>LotID</i> |   | <i>Metal</i> | <i>WorkOrder</i> | <i>Anal Date</i> | <i>TestDesc</i> | <i>Batch</i> | <i>File Id</i> | <i>Instr</i> |
|--------------|---|--------------|------------------|------------------|-----------------|--------------|----------------|--------------|
| D9B190121    | 1 | HG           | K7EH51AC         | 20090219         | M2451DS         | 9050182      | 090219AA       | 023          |
| D9B190121    | 1 | HG           | K7EH51AA         | 20090219         | M2451_L         | 9050174      | 090219AA       | 023          |

**METALS  
PREPARATION LOGS  
CVAA**

**TestAmerica**

**THE LEADER IN ENVIRONMENTAL TESTING**



**SUPPLEMENTAL METALS PREP SHEET**

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

**Hg PREP & ANALYSIS - WATERS**

SOP: DEN-MT-0015 QC Batch #: 9050182

|                     |              |                         |              |
|---------------------|--------------|-------------------------|--------------|
| Prep Date: 02/19/09 | Prep By: CGG | Analysis Date: 02/19/09 | Analyst: CGG |
|---------------------|--------------|-------------------------|--------------|

Balance ID: H53865

Thermometer ID: MT 4025

| Digestion Cycles | Start Time | Temp °C | End Time | Temp °C |
|------------------|------------|---------|----------|---------|
|                  | 13:30      | 93      | 15:30    | 93      |

Purple color persists or black ppt present:  Yes  No If "No", explain in Comments below.

**Digestion Tube Lot # :**

For dissolved mercury only, were samples filtered in the lab?  Yes  No

One or more samples were filtered prior to analysis at the instrument.  Yes  No

If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.

Analyst(s) Initials:

**Reagents Used**

| Reagent                                      | Manufacturer | Lot #  | Standards Log # | Vol (mL)            |
|--|--------------|--------|-----------------|---------------------|
| HNO <sub>3</sub>                             | JT Baker     | G25032 |                 | 0.25                |
| H <sub>2</sub> SO <sub>4</sub>               | Fisher       | E49F06 |                 | 0.5                 |
| HCl  | JT Baker     | G36024 |                 | used by instrument  |
| 10% SnCl <sub>2</sub>                        | Fisher       | G20637 | STD-1027-09     | added by instrument |
| NaCl / NH <sub>2</sub> OH                    | Fisher       | G28617 | STD-1026-09     | 0.6                 |
|  | Fisher       | G06476 |                 |                     |
| KMnO <sub>4</sub>                            | Fisher       | G10662 | STD-0920-09     | 1.5                 |
| K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | Fisher       | 083661 | STD-0351-09     | 0.8                 |

**Parent Calibration Stock Standards**

|                     | Lot #      | Verification # | Exp. Date |
|---------------------|------------|----------------|-----------|
| Second Source       | A2-HG02056 | STD-2364-08    | 06/01/09  |
| Primary Calibration | H00091     | STD-1683-08    | 05/01/09  |

**Standards Preparation**

Final digestate volume = 10 ml

| Standards         | Final Conc | Parent Standard   | Standards Log #                      | Vol (mL) | Pipette |
|-------------------|------------|-------------------|--------------------------------------|----------|---------|
| Cal Working       | 10 mg/L    | Primary Cal       | See Attached Standards Log Printouts | 1.00     | 7       |
| Daily Cal Working | 100 ug/L   | Cal Working       |                                      | 1.00     | 7       |
| ICAL 0.2          | 0.2 ug/L   | Daily Cal Working |                                      | 0.2      | 7       |
| ICAL 0.5          | 0.5 ug/L   | Daily Cal Working |                                      | 0.5      | 7       |
| ICAL 1            | 1.0 ug/L   | Daily Cal Working |                                      | 1.0      | 7       |
| ICAL 2            | 2.0 ug/L   | Daily Cal Working |                                      | 2.0      | 7       |
| ICAL 5            | 5.0 ug/L   | Daily Cal Working |                                      | 5.0      | 24      |
| ICAL 10           | 10 ug/L    | Daily Cal Working |                                      | 10.0     | 24      |
| CCV               | 5 ug/L     | Daily Cal Working |                                      | 5.0      | 7       |
| ICV Intermed      | 700 ug/L   | ICV Stock         |                                      | 0.70     | 7       |
| ICV Daily Working | 7.0 ug/L   | ICV Intermed      |                                      | 1.00     | 7       |
| LCS               | 5 ug/L     | Daily Cal Working |                                      | 0.5      | 7       |
| MS/MSD            | 5 ug/L     | Daily Cal Working |                                      | 0.5      | 7       |
| RL                | 0.2 ug/L   | Daily Cal Working |                                      | 0.2      | 7       |

**Second Source ICV Intermediate Stock Standard Prep**

Standards Log #: STD-0993-09

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments Dissolved - 245.1 Boeing

I certify that all information above is correct and complete.

Signature: Chris Grodala

Date: 2/20/09

REVIEWED BY: [Signature]

Date: 2/20/09

TestAmerica Laboratories, Inc.  
Metals Prep Log/ Batch Summary

Prep Date: 02/19/09 MS  
Due Date: 02/24/09

| Lot                | Work Order         |     | Due Date:<br>SDG:          | Initial Weight/Volume |
|--------------------|--------------------|-----|----------------------------|-----------------------|
| D9B190000<br>Water | K7EPP              | B 1 | Due Date:<br>SDG:          | <u>10 mL</u>          |
| D9B190000<br>Water | K7EPP              | C 2 | Due Date:<br>SDG:          | <u>10 mL</u>          |
| D9B190119<br>Water | K7EHT<br>Dissolved | 3   | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190119<br>Water | K7EHT<br>Dissolved | S 4 | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190119<br>Water | K7EHT<br>Dissolved | D 5 | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190121<br>Water | K7EH5<br>Dissolved | 6   | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190123<br>Water | K7EH6<br>Dissolved | 7   | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190125<br>Water | K7EJJ<br>Dissolved | 8   | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190126<br>Water | K7EJ6<br>Dissolved | 9   | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190127<br>Water | K7EJ8<br>Dissolved | 10  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190128<br>Water | K7EJ9<br>Dissolved | 11  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190129<br>Water | K7EKA<br>Dissolved | 12  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190130<br>Water | K7EKD<br>Dissolved | 13  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190131<br>Water | K7EKE<br>Dissolved | 14  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190132<br>Water | K7EKK<br>Dissolved | 15  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190133<br>Water | K7EKJ<br>Dissolved | 16  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190134<br>Water | K7EKN<br>Dissolved | 17  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190135<br>Water | K7EKM<br>Dissolved | 18  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190137<br>Water | K7EKW<br>Dissolved | 19  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |
| D9B190138<br>Water | K7EKX<br>Dissolved | 20  | Due Date: 02/24/09<br>SDG: | <u>10 mL</u>          |

MS  
2/20/09

Batch Number: 9050182

TestAmerica Laboratories, Inc.  
Metals Prep Log/ Batch Summary

Prepared By:

B

Prep Date: 02/19/09 *EM*  
Due Date: 02/24/09

Lot

Work Order

Initial Weight/Volume

**Comments:**

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

**SUPPLEMENTAL METALS PREP SHEET**

(Used in conjunction with METALS PREP LOG/BATCH SUMMARY)



THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Denver

**Hg PREP & ANALYSIS - WATERS**

SOP: DEN-MT-0015 QC Batch #: 9050174

|                     |              |                         |              |
|---------------------|--------------|-------------------------|--------------|
| Prep Date: 02/19/09 | Prep By: CGG | Analysis Date: 02/19/09 | Analyst: CGG |
|---------------------|--------------|-------------------------|--------------|

|                           |                                |
|---------------------------|--------------------------------|
| <b>Balance ID:</b> H53865 | <b>Thermometer ID:</b> MT 4025 |
|---------------------------|--------------------------------|

| Digestion Cycles | Start Time | Temp °C | End Time | Temp °C |
|------------------|------------|---------|----------|---------|
|                  | 13:30      | 93      | 15:30    | 93      |

Purple color persists or black ppt present:  Yes  No If "No", explain in Comments below.

**Digestion Tube Lot # :**

For dissolved mercury only, were samples filtered in the lab?  Yes  No

One or more samples were filtered prior to analysis at the instrument.  Yes  No

If "yes", then the method blank and the LCS were also filtered in the same manner using the same type of filter.

Analyst(s) Initials: CG

**Reagents Used**

| Reagent                                      | Manufacturer | Lot #  | Standards Log # | Vol (mL)            |
|--|--------------|--------|-----------------|---------------------|
| HNO <sub>3</sub>                             | JT Baker     | G25032 |                 | 0.25                |
| H <sub>2</sub> SO <sub>4</sub>               | Fisher       | E49F06 |                 | 0.5                 |
| HCl  | JT Baker     | G36024 |                 | used by instrument  |
| 10% SnCl <sub>2</sub>                        | Fisher       | G20637 | STD-1027-09     | added by instrument |
| NaCl / NH <sub>2</sub> OH                    | Fisher       | G28617 | STD-1026-09     | 0.6                 |
|  | Fisher       | G06476 |                 |                     |
| KMnO <sub>4</sub>                            | Fisher       | G10662 | STD-0920-09     | 1.5                 |
| K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> | Fisher       | 083661 | STD-0351-09     | 0.8                 |

**Parent Calibration Stock Standards**

|                     | Lot #      | Verification # | Exp. Date |
|---------------------|------------|----------------|-----------|
| Second Source       | A2-HG02056 | STD-2364-08    | 06/01/09  |
| Primary Calibration | H00091     | STD-1683-08    | 05/01/09  |

**Standards Preparation** Final digestate volume = 10 mls

| Standards         | Final Conc | Parent Standard   | Standards Log #                      | Vol (mL) | Pipette |
|-------------------|------------|-------------------|--------------------------------------|----------|---------|
| Cal Working       | 10 mg/L    | Primary Cal       | See Attached Standards Log Printouts | 1.00     | 7       |
| Daily Cal Working | 100 ug/L   | Cal Working       |                                      | 1.00     | 7       |
| ICAL 0.2          | 0.2 ug/L   | Daily Cal Working |                                      | 0.2      | 7       |
| ICAL 0.5          | 0.5 ug/L   | Daily Cal Working |                                      | 0.5      | 7       |
| ICAL 1            | 1.0 ug/L   | Daily Cal Working |                                      | 1.0      | 7       |
| ICAL 2            | 2.0 ug/L   | Daily Cal Working |                                      | 2.0      | 7       |
| ICAL 5            | 5.0 ug/L   | Daily Cal Working |                                      | 5.0      | 24      |
| ICAL 10           | 10 ug/L    | Daily Cal Working |                                      | 10.0     | 24      |
| CCV               | 5 ug/L     | Daily Cal Working |                                      | 5.0      | 7       |
| ICV Intermed      | 700 ug/L   | ICV Stock         |                                      | 0.70     | 7       |
| ICV Daily Working | 7.0 ug/L   | ICV Intermed      |                                      | 1.00     | 7       |
| LCS               | 5 ug/L     | Daily Cal Working |                                      | 0.5      | 7       |
| MS/MSD            | 5 ug/L     | Daily Cal Working |                                      | 0.5      | 7       |
| RL                | 0.2 ug/L   | Daily Cal Working |                                      | 0.2      | 7       |

**Second Source ICV Intermediate Stock Standard Prep** Standards Log #: STD-0993-09

NOTE: Details for each reagent & standard prep are documented in the attached Standards Preparation Logbook Record.

Comments Total - 245.1 - Boiling

I certify that all information above is correct and complete.

Signature: Chris Grisdale Date: 2/20/09

REVIEWED BY: L Date: 2/20/09

TestAmerica Laboratories, Inc.  
Metals Prep Log/ Batch Summary

Prep Date: 02/19/09 *CS*  
Due Date: 02/24/09

| Lot                            | Work Order       |               | Due Date:                              | Initial Weight/Volume |
|--------------------------------|------------------|---------------|--|-----------------------|
| D9B190000<br>Water             | K7EN8            | B 1           | SDG:                                   | <u>10 mL</u>          |
| D9B190000<br>Water             | K7EN8            | C 2           | SDG:                                   | <u>10 mL</u>          |
| D9B190119<br>Water             | K7EHT            | 3             | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190119<br>Water             | K7EHT            | S 4           | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190119<br>Water             | K7EHT            | D 5           | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190121<br>Water             | K7EH5            | 6             | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190123<br>Water             | K7EH6            | 7             | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190125<br>Water             | K7EJJ            | 8             | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190126<br>Water             | K7EJ6            | 9             | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190127<br>Water             | K7EJ8            | 10            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190128<br>Water             | K7EJ9            | 11            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190129<br>Water             | K7EKA            | 12            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190130<br>Water             | K7EKD            | 13            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| <del>D9B190131<br/>Water</del> | <del>K7EKE</del> | <del>14</del> | <del>Due Date: 02/24/09<br/>SDG:</del> | <del>10 mL</del>      |
| D9B190132<br>Water             | K7EKK            | 15            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190133<br>Water             | K7EKJ            | 16            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190134<br>Water             | K7EKN            | 17            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190135<br>Water             | K7EKM            | 18            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190137<br>Water             | K7EKW            | 19            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |
| D9B190138<br>Water             | K7EKX            | 20            | Due Date: 02/24/09<br>SDG:             | <u>10 mL</u>          |

*MA,*  
*No total*  
*Vol. Received*  
*CS 2/18/09*

*✓*  
*2/20/09*

Batch Number: 9050174

TestAmerica Laboratories, Inc.  
Metals Prep Log/ Batch Summary

Prepared By:

OS

Prep Date: 02/19/09 OS  
Due Date: 02/24/09

Lot

Work Order

Initial Weight/Volume

**Comments:**

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

**METALS  
SAMPLE DATA  
CVAA**

**TestAmerica**

**THE LEADER IN ENVIRONMENTAL TESTING**

# TestAmerica Denver

## Standards Preparation Logbook Record

Feb-20-2009

Logbook: \\Densvr06\StdsLog\metals.std

### STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra)

Analyst: grisdalec

Vendor: Ultra Scientific (Metals) Lot No.: H00091 Vendor's Expiration Date: 05-01-2009  
Solvent: 2% HN03  
Date Prep./Opened: 04-03-2008 Date Received: 03-31-2008  
Date Expires(1): 04-03-2009 (1 Year)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by 0 (Verification ID: -)

| <u>Component</u> | <u>Initial Conc (%)</u> | <u>Final Conc (%)</u> |
|------------------|-------------------------|-----------------------|
| Mercuric Nitrate | 100.00                  | 100.00                |

### STD2364-08, Hg Inorganic Ventures ICV 100ppm Std

Analyst: grisdalec

Vendor: Inorganic Ventures Lot No.: A2-HG02056 Vendor's Expiration Date: 06-01-2009  
Solvent: 3.3%HCl  
Date Prep./Opened: 05-01-2008 Date Received: 05-02-2007  
Date Expires(1): 05-01-2009 (1 Year)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by 0 (Verification ID: -)

| <u>Component</u> | <u>Initial Conc (mg/L)</u> | <u>Final Conc (mg/L)</u> |
|------------------|----------------------------|--------------------------|
| Hg               | 100.00                     | 100.00                   |

### STD0437-09, 10 mg/L Hg Calibration Std

Analyst: wellsld

Solvent: 1% HN03 Lot No.: G02058 Volume (ml): 100.00  
Date Prep./Opened: 01-26-2009  
Date Expires(1): 02-26-2009 (1 Month)  
Date Expires(2): 02-26-2009 (1 Month)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1683-08, 1000 mg/L Hg Calibration Stock Standard (Ultra) Aliquot Amount (ml): 1.0000  
Parent Date Expires(1): 04-03-2009 Parent Date Expires(2): 05-01-2009

| <u>Component</u> | <u>Initial Conc (%)</u> | <u>Final Conc (mg/L)</u> |
|------------------|-------------------------|--------------------------|
| Mercuric Nitrate | 100.00                  | 10,000                   |



STD0993-09, Hg Inorganic Ventures ICV 700ppb

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G02058  
Date Prep./Opened: 02-18-2009  
Date Expires(1): 03-04-2009 (2 Weeks)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD2364-08, Hg Inorganic Ventures ICV 100ppm Std  
Parent Date Expires(1): 05-01-2009 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 0.7000

| Component | Initial Conc (mg/L) | Final Conc (ug/L) |
|-----------|---------------------|-------------------|
| Hg        | 100.00              | 700.00            |

STD1017-09, 100 ppb Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 02-20-2009 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD0437-09, 10 mg/L Hg Calibration Std  
Parent Date Expires(1): 02-26-2009 Parent Date Expires(2): 02-26-2009

Aliquot Amount (ml): 1.0000

| Component        | Initial Conc (mg/L) | Final Conc (ug/ml) |
|------------------|---------------------|--------------------|
| Mercuric Nitrate | 10,000              | 100.00             |

STD1018-09, Blank Daily Hg Calibration Std

Analyst: GRISDALEC

Vendor: Baker Lot No.: G17027  
Solvent: 1% HN03  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 08-19-2009 (6 Months)  
Date Expires(2): 02-19-2010 (1 Year)  
Date Verified: 12-31--4714 by 0 (Verification ID:-)

| Component   | Initial Conc (%) | Final Conc (%) |
|-------------|------------------|----------------|
| Nitric Acid | 1.0000           | 1.0000         |

STD1019-09, 0.2 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 02-20-2009 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.2000  
 Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 0.2000                    |

STD1020-09, 0.5 ppb Daily Hg Calibration Std Analyst: GRISDALEC  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 02-19-2009  
 Date Expires(1): 02-20-2009 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 0.5000  
 Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 0.5000                    |

STD1021-09, 1.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 02-19-2009  
 Date Expires(1): 02-20-2009 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 1.0000  
 Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 1.0000                    |

STD1022-09, 2.0 ppb Daily Hg Calibration Std Analyst: GRISDALEC  
 Solvent: 1% HN03 Lot No.: G17027 Volume (ml): 100.00  
 Date Prep./Opened: 02-19-2009  
 Date Expires(1): 02-20-2009 (1 Day)  
 Date Expires(2): 05-01-2009 (None)  
 Date Verified: 12-31--4714 by - (Verification ID: 0)

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std Aliquot Amount (ml): 2.0000  
 Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 2.0000                    |

STD1023-09, 5.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 02-20-2009 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std  
Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 5.0000

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 5.0000                    |

STD1024-09, 10.0 ppb Daily Hg Calibration Std

Analyst: GRISDALEC

Solvent: 1% HN03 Lot No.: G17027  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 02-20-2009 (1 Day)  
Date Expires(2): 05-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Date Consumed: 12-06-2006

Parent Std No.: STD1017-09, 100 ppb Hg Calibration Std  
Parent Date Expires(1): 02-20-2009 Parent Date Expires(2): 05-01-2009

Aliquot Amount (ml): 10.000

| <u>Component</u> | <u>Initial Conc (ug/ml)</u> | <u>Final Conc (ug/ml)</u> |
|------------------|-----------------------------|---------------------------|
| Mercuric Nitrate | 100.00                      | 10.000                    |

STD1025-09, Hg Daily ICV 7ppb Calibration Std

Analyst: GRISDALEC

Solvent: 1% HNO3 Lot No.: G17027  
Date Prep./Opened: 02-19-2009  
Date Expires(1): 02-20-2009 (1 Day)  
Date Expires(2): 06-01-2009 (None)  
Date Verified: 12-31--4714 by - (Verification ID: 0)

Volume (ml): 100.00

Parent Std No.: STD0993-09, Hg Inorganic Ventures ICV 700ppb  
Parent Date Expires(1): 03-04-2009 Parent Date Expires(2): 06-01-2009

Aliquot Amount (ml): 1.0000

| <u>Component</u> | <u>Initial Conc (ug/L)</u> | <u>Final Conc (ug/L)</u> |
|------------------|----------------------------|--------------------------|
| Hg               | 700.00                     | 7.0000                   |

Reviewed By:

Christopher Grisdale 2/20/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 02/20/09 07:53:42

Sequence: 090219AA Date: 02/19/09 15:48 Analyst: CGG ICV: CAL/CCV: Comment

| #  | Sample ID                             | Lot No. | Batch              | Matrix             | Raw             | DF             | Result          | Units          | %R               | Analyzed Date             | Q                        |
|----|---------------------------------------|---------|--------------------|--------------------|-----------------|----------------|-----------------|----------------|------------------|---------------------------|--------------------------|
| 1  | Cal Blank                             |         |                    |                    | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 15:48            | <input type="checkbox"/> |
| 2  | Std1 = 0.200                          |         |                    |                    | 0.20            | 1.0            | 0.20            | ppb            | 100.0%           | 02/19/09 15:50            | <input type="checkbox"/> |
| 3  | Std2 = 0.500                          |         |                    |                    | 0.50            | 1.0            | 0.50            | ppb            | 100.0%           | 02/19/09 15:52            | <input type="checkbox"/> |
| 4  | Std3 = 1.00                           |         |                    |                    | 1.00            | 1.0            | 1.00            | ppb            | 100.0%           | 02/19/09 15:54            | <input type="checkbox"/> |
| 5  | Std4 = 2.00                           |         |                    |                    | 2.00            | 1.0            | 2.00            | ppb            | 100.0%           | 02/19/09 15:57            | <input type="checkbox"/> |
| 6  | Std5 = 5.00                           |         |                    |                    | 5.00            | 1.0            | 5.00            | ppb            | 100.0%           | 02/19/09 15:59            | <input type="checkbox"/> |
| 7  | Std6 = 10.0                           |         |                    |                    | 10.00           | 1.0            | 10.00           | ppb            | 100.0%           | 02/19/09 16:01            | <input type="checkbox"/> |
| 8  | ICB                                   |         |                    |                    | -0.00           | 1.0            | -0.00           | ppb            |                  | 02/19/09 16:04            | <input type="checkbox"/> |
| 9  | ICV = 7.00                            |         |                    |                    | 7.09            | 1.0            | 7.09            | ppb            | 101.2%           | 02/19/09 16:07            | <input type="checkbox"/> |
| 10 | RL = 0.200                            |         |                    |                    | 0.19            | 1.0            | 0.19            | ppb            |                  | 02/19/09 16:09            | <input type="checkbox"/> |
| 11 | CCV = 5.00                            |         |                    |                    | 5.11            | 1.0            | 5.11            | ppb            | 102.2%           | 02/19/09 16:11            | <input type="checkbox"/> |
| 12 | CCB                                   |         |                    |                    | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 16:14            | <input type="checkbox"/> |
| 13 | K7EPPBF D9B190000                     |         | 9050182            |                    | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 16:16            | <input type="checkbox"/> |
| 14 | <del>K7EPPCF D9B190000 = 5.00</del>   |         | <del>9050182</del> |                    | <del>4.37</del> | <del>1.0</del> | <del>4.37</del> | <del>ppb</del> | <del>87.5%</del> | <del>02/19/09 16:16</del> | <input type="checkbox"/> |
| 15 | K7EHTF D9B190119-1                    |         | 9050182            | AQUEOUS            | 0.03            | 1.0            | 0.03            | ppb            |                  | 02/19/09 16:21            | <input type="checkbox"/> |
| 16 | K7EHTSF D9B190119-1 = 5.00            |         | 9050182            | AQUEOUS            | 4.57            | 1.0            | 4.57            | ppb            |                  | 02/19/09 16:23            | <input type="checkbox"/> |
| 17 | K7EHTDF D9B190119-1 = 5.00            |         | 9050182            | AQUEOUS            | 4.55            | 1.0            | 4.55            | ppb            |                  | 02/19/09 16:25            | <input type="checkbox"/> |
| 18 | <del>K7EHTSE D9B190119-1 = 5.00</del> |         | <del>9050182</del> | <del>AQUEOUS</del> | <del>4.65</del> | <del>1.0</del> | <del>4.65</del> | <del>ppb</del> |                  | <del>02/19/09 16:27</del> | <input type="checkbox"/> |
| 19 | <del>K7EHTDF D9B190119-1 = 5.00</del> |         | <del>9050182</del> | <del>AQUEOUS</del> | <del>4.65</del> | <del>1.0</del> | <del>4.65</del> | <del>ppb</del> |                  | <del>02/19/09 16:30</del> | <input type="checkbox"/> |
| 20 | K7EH5F D9B190121-1                    |         | 9050182            | AQUEOUS            | 0.02            | 1.0            | 0.02            | ppb            |                  | 02/19/09 16:32            | <input type="checkbox"/> |
| 21 | K7EH6F D9B190123-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:34            | <input type="checkbox"/> |
| 22 | CCV = 5.00                            |         |                    |                    | 4.97            | 1.0            | 4.97            | ppb            | 99.5%            | 02/19/09 16:37            | <input type="checkbox"/> |
| 23 | CCB                                   |         |                    |                    | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 16:39            | <input type="checkbox"/> |
| 24 | K7EJF D9B190125-1                     |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:41            | <input type="checkbox"/> |
| 25 | K7EJ6F D9B190126-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:44            | <input type="checkbox"/> |
| 26 | K7EJ8F D9B190127-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:46            | <input type="checkbox"/> |
| 27 | K7EJ9F D9B190128-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:48            | <input type="checkbox"/> |
| 28 | K7EKAF D9B190129-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:51            | <input type="checkbox"/> |
| 29 | K7EKDF D9B190130-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:53            | <input type="checkbox"/> |
| 30 | K7EK6F D9B190131-1                    |         | 9050182            | AQUEOUS            | 0.01            | 1.0            | 0.01            | ppb            |                  | 02/19/09 16:55            | <input type="checkbox"/> |
| 31 | K7EK7F D9B190132-1                    |         | 9050182            | AQUEOUS            | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 16:57            | <input type="checkbox"/> |
| 32 | K7EKJ D9B190133-1                     |         | <del>9050182</del> | <del>AQUEOUS</del> | 0.00            | 1.0            | 0.00            | ppb            |                  | 02/19/09 17:00            | <input type="checkbox"/> |
| 33 | CCV = 5.00                            |         |                    |                    | 4.88            | 1.0            | 4.88            | ppb            | 97.6%            | 02/19/09 17:02            | <input type="checkbox"/> |
| 34 | CCB                                   |         |                    |                    | -0.00           | 1.0            | -0.00           | ppb            |                  | 02/19/09 17:04            | <input type="checkbox"/> |

NA Bad read, see  
 Return later.  
 on 2/20/09  
 NA confirms above  
 on 2/20/09

X 2/20/09

Jan 21/20/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 02/20/09 07:53:42

Sequence: 090219AA

Date: 02/19/09 15:48

Analyst: CGG

ICV:

CAL/CCV:

| #  | Sample ID | Lot No.            | Batch   | Matrix  | Raw   | DF  | Result | Units | %R    | Analyzed Date  | Comment | Q |
|----|-----------|--------------------|---------|---------|-------|-----|--------|-------|-------|----------------|---------|---|
| 35 | K7EKNF    | D9B190134-1        | 9050182 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |       | 02/19/09 17:07 |         |   |
| 36 | K7EKMF    | D9B190135-1        | 9050182 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |       | 02/19/09 17:09 |         |   |
| 37 | K7EKWF    | D9B190137-1        | 9050182 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |       | 02/19/09 17:11 |         |   |
| 38 | K7EKXF    | D9B190138-1        | 9050182 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |       | 02/19/09 17:14 |         |   |
| 39 | K7EN8B    | D9B190000          | 9050174 |         | 0.00  | 1.0 | 0.00   | ppb   |       | 02/19/09 17:16 |         |   |
| 40 | K7EN8C    | D9B190000 = 5.00   | 9050174 |         | 4.78  | 1.0 | 4.78   | ppb   | 95.6% | 02/19/09 17:18 |         |   |
| 41 | K7EHT     | D9B190119-1        | 9050174 | AQUEOUS | 0.03  | 1.0 | 0.03   | ppb   |       | 02/19/09 17:21 |         |   |
| 42 | K7EHTS    | D9B190119-1 = 5.00 | 9050174 | AQUEOUS | 4.29  | 1.0 | 4.29   | ppb   |       | 02/19/09 17:23 |         |   |
| 43 | K7EHTD    | D9B190119-1 = 5.00 | 9050174 | AQUEOUS | 4.29  | 1.0 | 4.29   | ppb   |       | 02/19/09 17:25 |         |   |
| 44 | CCV       | = 5.00             |         |         | 4.93  | 1.0 | 4.93   | ppb   | 98.6% | 02/19/09 17:28 |         |   |
| 45 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |       | 02/19/09 17:30 |         |   |
| 46 | K7EHTS    | D9B190119-1 = 5.00 | 9050174 | AQUEOUS | 4.25  | 1.0 | 4.25   | ppb   |       | 02/19/09 17:32 |         |   |
| 47 | K7EHTD    | D9B190119-1 = 5.00 | 9050174 | AQUEOUS | 4.29  | 1.0 | 4.29   | ppb   |       | 02/19/09 17:34 |         |   |
| 48 | K7EH5     | D9B190121-1        | 9050174 | AQUEOUS | 0.04  | 1.0 | 0.04   | ppb   |       | 02/19/09 17:37 |         |   |
| 49 | K7EH6     | D9B190123-1        | 9050174 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |       | 02/19/09 17:39 |         |   |
| 50 | K7EJJ     | D9B190125-1        | 9050174 | AQUEOUS | 0.05  | 1.0 | 0.05   | ppb   |       | 02/19/09 17:41 |         |   |
| 51 | K7EJ6     | D9B190126-1        | 9050174 | AQUEOUS | 0.04  | 1.0 | 0.04   | ppb   |       | 02/19/09 17:44 |         |   |
| 52 | K7EJ8     | D9B190127-1        | 9050174 | AQUEOUS | 0.02  | 1.0 | 0.02   | ppb   |       | 02/19/09 17:46 |         |   |
| 53 | K7EJ9     | D9B190128-1        | 9050174 | AQUEOUS | 0.05  | 1.0 | 0.05   | ppb   |       | 02/19/09 17:48 |         |   |
| 54 | K7EKA     | D9B190129-1        | 9050174 | AQUEOUS | 0.05  | 1.0 | 0.05   | ppb   |       | 02/19/09 17:51 |         |   |
| 55 | CCV       | = 5.00             |         |         | 4.92  | 1.0 | 4.92   | ppb   | 98.5% | 02/19/09 17:53 |         |   |
| 56 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |       | 02/19/09 17:55 |         |   |
| 57 | K7EKD     | D9B190130-1        | 9050174 | AQUEOUS | 0.03  | 1.0 | 0.03   | ppb   |       | 02/19/09 17:57 |         |   |
| 58 | K7EKK     | D9B190132-1        | 9050174 | AQUEOUS | 0.11  | 1.0 | 0.11   | ppb   |       | 02/19/09 18:00 |         |   |
| 59 | K7EKJ     | D9B190133-1        | 9050174 | AQUEOUS | 0.03  | 1.0 | 0.03   | ppb   |       | 02/19/09 18:02 |         |   |
| 60 | K7EKN     | D9B190134-1        | 9050174 | AQUEOUS | 0.02  | 1.0 | 0.02   | ppb   |       | 02/19/09 18:04 |         |   |
| 61 | K7EKM     | D9B190135-1        | 9050174 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |       | 02/19/09 18:07 |         |   |
| 62 | K7EKW     | D9B190137-1        | 9050174 | AQUEOUS | 0.07  | 1.0 | 0.07   | ppb   |       | 02/19/09 18:09 |         |   |
| 63 | K7EKX     | D9B190138-1        | 9050174 | AQUEOUS | 0.03  | 1.0 | 0.03   | ppb   |       | 02/19/09 18:11 |         |   |
| 64 | K7EN3B    | D9B190000          | 9050173 |         | -0.00 | 1.0 | -0.00  | ppb   |       | 02/19/09 18:14 |         |   |
| 65 | K7EN3C    | D9B190000 = 5.00   | 9050173 |         | 4.83  | 1.0 | 4.83   | ppb   | 96.6% | 02/19/09 18:16 |         |   |
| 66 | CCV       | = 5.00             |         |         | 4.96  | 1.0 | 4.96   | ppb   | 99.3% | 02/19/09 18:18 |         |   |
| 67 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |       | 02/19/09 18:20 |         |   |
| 68 | K7DXC     | D9B180282-1        | 9050173 | AQUEOUS | 0.16  | 1.0 | 0.16   | ppb   |       | 02/19/09 18:23 |         |   |

NA Confirms above  
ms/MSD low.  
02/20/09

JCS 2/20/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 02/20/09 07:53:42

Sequence: 090219AA

Date: 02/19/09 15:48

Analyst: CGG

ICV:

CAL/CCV:

| #   | Sample ID | Lot No.            | Batch   | Matrix   | Raw   | DF  | Result | Units | %R     | Analyzed Date  | Comment | Q                        |
|-----|-----------|--------------------|---------|----------|-------|-----|--------|-------|--------|----------------|---------|--------------------------|
| 69  | K7DXCS    | D9B180282-1 = 5.00 | 9050173 | AQUEOUS  | 4.55  | 1.0 | 4.55   | ppb   |        | 02/19/09 18:25 |         | <input type="checkbox"/> |
| 70  | K7DXCD    | D9B180282-1 = 5.00 | 9050173 | AQUEOUS  | 4.91  | 1.0 | 4.91   | ppb   |        | 02/19/09 18:27 |         | <input type="checkbox"/> |
| 71  | K7EF3     | D9B190114-1        | 9050173 | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 18:30 |         | <input type="checkbox"/> |
| 72  | K7EGE     | D9B190114-3        | 9050173 | AQUEOUS  | 0.09  | 1.0 | 0.09   | ppb   |        | 02/19/09 18:32 |         | <input type="checkbox"/> |
| 73  | K7EGM     | D9B190114-5        | 9050173 | AQUEOUS  | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 18:34 |         | <input type="checkbox"/> |
| 74  | K7EGQ     | D9B190114-7        | 9050173 | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 18:37 |         | <input type="checkbox"/> |
| 75  | K7EG3     | D9B190114-9        | 9050173 | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 18:39 |         | <input type="checkbox"/> |
| 76  | K7EHD     | D9B190114-11       | 9050173 | AQUEOUS  | 0.80  | 1.0 | 0.80   | ppb   |        | 02/19/09 18:41 |         | <input type="checkbox"/> |
| 77  | CCV       | = 5.00             |         |          | 4.97  | 1.0 | 4.97   | ppb   | 99.4%  | 02/19/09 18:44 |         | <input type="checkbox"/> |
| 78  | CCB       |                    |         |          | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 18:46 |         | <input type="checkbox"/> |
| 79  | K7D19BT   | D9B180000          | 9050172 |          | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 18:48 |         | <input type="checkbox"/> |
| 80  | K7ENVCT   | D9B190000 = 5.00   | 9050172 |          | 4.92  | 1.0 | 4.92   | ppb   | 98.4%  | 02/19/09 18:50 |         | <input type="checkbox"/> |
| 81  | K7A6XT    | D9B170257-1        | 9050172 | LEACHATE | 0.05  | 1.0 | 0.05   | ppb   |        | 02/19/09 18:53 |         | <input type="checkbox"/> |
| 82  | K7A6XP5T  | D9B170257          | 9050172 | LEACHATE | 0.01  | 5.0 | 0.01   | ppb   |        | 02/19/09 18:55 |         | <input type="checkbox"/> |
| 83  | K7A6XST   | D9B170257-1 = 5.00 | 9050172 | LEACHATE | 4.78  | 1.0 | 4.78   | ppb   |        | 02/19/09 18:57 |         | <input type="checkbox"/> |
| 84  | K7A6XDT   | D9B170257-1 = 5.00 | 9050172 | LEACHATE | 4.19  | 1.0 | 4.19   | ppb   |        | 02/19/09 19:00 |         | <input type="checkbox"/> |
| 85  | K7D2VBT   | D9B180000          | 9050170 |          | 0.00  | 1.0 | 0.01   | ppb   |        | 02/19/09 19:02 |         | <input type="checkbox"/> |
| 86  | K7ENRCT   | D9B190000 = 5.00   | 9050170 |          | 4.98  | 1.0 | 4.98   | ppb   | 99.5%  | 02/19/09 19:04 |         | <input type="checkbox"/> |
| 87  | K7A62T    | D9B170257-2        | 9050170 | LEACHATE | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 19:07 |         | <input type="checkbox"/> |
| 88  | CCV       | = 5.00             |         |          | 5.10  | 1.0 | 5.10   | ppb   | 101.9% | 02/19/09 19:09 |         | <input type="checkbox"/> |
| 89  | CCB       |                    |         |          | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:11 |         | <input type="checkbox"/> |
| 90  | K7A62P5T  | D9B170257          | 9050170 | LEACHATE | 0.00  | 5.0 | 0.01   | ppb   |        | 02/19/09 19:14 |         | <input type="checkbox"/> |
| 91  | K7A62ST   | D9B170257-2 = 5.00 | 9050170 | LEACHATE | 5.27  | 1.0 | 5.27   | ppb   |        | 02/19/09 19:16 |         | <input type="checkbox"/> |
| 92  | K7A62DT   | D9B170257-2 = 5.00 | 9050170 | LEACHATE | 4.85  | 1.0 | 4.85   | ppb   |        | 02/19/09 19:18 |         | <input type="checkbox"/> |
| 93  | K7EPWBF   | D9B190000          | 9050183 |          | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:21 |         | <input type="checkbox"/> |
| 94  | K7EPWCF   | D9B190000 = 5.00   | 9050183 |          | 5.06  | 1.0 | 5.06   | ppb   | 101.3% | 02/19/09 19:23 |         | <input type="checkbox"/> |
| 95  | K7D51     |                    |         | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:25 |         | <input type="checkbox"/> |
| 96  | K7D51SF   | D9B180302-2 = 5.00 | 9050183 | AQUEOUS  | 5.21  | 1.0 | 5.21   | ppb   |        | 02/19/09 19:27 |         | <input type="checkbox"/> |
| 97  | K7D51DF   | D9B180302-2 = 5.00 | 9050183 | AQUEOUS  | 5.06  | 1.0 | 5.06   | ppb   |        | 02/19/09 19:30 |         | <input type="checkbox"/> |
| 98  | K7D55F    | D9B180302-4        | 9050183 | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:32 |         | <input type="checkbox"/> |
| 99  | CCV       | = 5.00             |         |          | 5.10  | 1.0 | 5.10   | ppb   | 101.9% | 02/19/09 19:34 |         | <input type="checkbox"/> |
| 100 | CCB       |                    |         |          | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 19:37 |         | <input type="checkbox"/> |
| 101 | K7D57F    | D9B180302-6        | 9050183 | AQUEOUS  | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 19:39 |         | <input type="checkbox"/> |
| 102 | K7D59F    | D9B180302-8        | 9050183 | AQUEOUS  | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:41 |         | <input type="checkbox"/> |

jos 2/20/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 02/20/09 07:53:42

Sequence: 090219AA Date: 02/19/09 15:48 Analyst: CGG ICV: CAL/CCV: Comment

| #   | Sample ID | Lot No.            | Batch   | Matrix  | Raw   | DF  | Result | Units | %R     | Analyzed Date  | Q |
|-----|-----------|--------------------|---------|---------|-------|-----|--------|-------|--------|----------------|---|
| 103 | K7D6FF    | D9B180302-10       | 9050183 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:44 | ☐ |
| 104 | K7D6HF    | D9B180302-12       | 9050183 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:46 | ☐ |
| 105 | K7D6LF    | D9B180302-14       | 9050183 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 19:48 | ☐ |
| 106 | K7EPKB    | D9B190000          | 9050181 |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 19:51 | ☐ |
| 107 | K7EPKC    | D9B190000 = 5.00   | 9050181 |         | 4.97  | 1.0 | 4.97   | ppb   | 99.4%  | 02/19/09 19:53 | ☐ |
| 108 | K7D5W     | D9B180302-1        | 9050181 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 19:55 | ☐ |
| 109 | K7D5WS    | D9B180302-1 = 5.00 | 9050181 | AQUEOUS | 4.67  | 1.0 | 4.67   | ppb   |        | 02/19/09 19:57 | ☐ |
| 110 | CCV       | = 5.00             |         |         | 5.13  | 1.0 | 5.13   | ppb   | 102.6% | 02/19/09 20:00 | ☐ |
| 111 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:02 | ☐ |
| 112 | K7D5WD    | D9B180302-1 = 5.00 | 9050181 | AQUEOUS | 4.66  | 1.0 | 4.66   | ppb   |        | 02/19/09 20:04 | ☐ |
| 113 | K7D52     | D9B180302-3        | 9050181 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 20:07 | ☐ |
| 114 | K7D56     | D9B180302-5        | 9050181 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 20:09 | ☐ |
| 115 | CCV       | = 5.00             |         |         | 5.13  | 1.0 | 5.13   | ppb   | 102.5% | 02/19/09 20:14 | ☐ |
| 116 | CCB       |                    |         |         | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:16 | ☐ |
| 117 | K7EPPCF   | D9B190000 = 5.00   | 9050182 |         | 4.63  | 1.0 | 4.63   | ppb   | 92.5%  | 02/19/09 20:18 | ☐ |
| 118 | CCV       | = 5.00             |         |         | 5.10  | 1.0 | 5.10   | ppb   | 101.9% | 02/19/09 20:21 | ☐ |
| 119 | CCB       |                    |         |         | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:23 | ☐ |
| 120 | K7D58     | D9B180302-7        | 9050181 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:25 | ☐ |
| 121 | K7D6E     | D9B180302-9        | 9050181 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:28 | ☐ |
| 122 | K7D6G     | D9B180302-11       | 9050181 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:30 | ☐ |
| 123 | K7D6K     | D9B180302-13       | 9050181 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:32 | ☐ |
| 124 | K7EPPB    | D9B190000          | 9050177 |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:35 | ☐ |
| 125 | K7EPPC    | D9B190000 = 5.00   | 9050177 |         | 5.06  | 1.0 | 5.06   | ppb   | 101.2% | 02/19/09 20:37 | ☐ |
| 126 | CCV       | = 5.00             |         |         | 5.16  | 1.0 | 5.16   | ppb   | 103.2% | 02/19/09 20:39 | ☐ |
| 127 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:42 | ☐ |
| 128 | K7C9X     | D9B180183-1        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:44 | ☐ |
| 129 | K7C9XS    | D9B180183-1 = 5.00 | 9050177 | AQUEOUS | 4.99  | 1.0 | 4.99   | ppb   |        | 02/19/09 20:46 | ☐ |
| 130 | K7C9XD    | D9B180183-1 = 5.00 | 9050177 | AQUEOUS | 5.03  | 1.0 | 5.03   | ppb   |        | 02/19/09 20:49 | ☐ |
| 131 | K7C90     | D9B180183-2        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:51 | ☐ |
| 132 | K7C91     | D9B180183-3        | 9050177 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:53 | ☐ |
| 133 | K7C92     | D9B180183-4        | 9050177 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 20:55 | ☐ |
| 134 | K7C93     | D9B180183-5        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 20:58 | ☐ |
| 135 | K7C95     | D9B180183-7        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 21:00 | ☐ |
| 136 | K7DA9     | D9B180189-1        | 9050177 | AQUEOUS | 0.08  | 1.0 | 0.08   | ppb   |        | 02/19/09 21:02 | ☐ |

☐

Jan 2/20/09

Denver

RUN SUMMARY

Method: CVHG - Mercury (Cold Vapor Mercury)

Instrument: A (023)

Reported: 02/20/09 07:53:42

Sequence: 090219AA Date: 02/19/09 15:48 Analyst: CGG ICV: CAL/CCV: Comment

| #   | Sample ID | Lot No.            | Batch   | Matrix  | Raw   | DF  | Result | Units | %R     | Analyzed Date  | Q |
|-----|-----------|--------------------|---------|---------|-------|-----|--------|-------|--------|----------------|---|
| 137 | CCV       | = 5.00             |         |         | 5.03  | 1.0 | 5.03   | ppb   | 100.7% | 02/19/09 21:05 | Q |
| 138 | CCB       |                    |         |         | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:07 | Q |
| 139 | K7DQ6     | D9B180260-1        | 9050177 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:09 | Q |
| 140 | K7DRC     | D9B180260-2        | 9050177 | AQUEOUS | 0.24  | 1.0 | 0.24   | ppb   |        | 02/19/09 21:12 | Q |
| 141 | K7DRW     | D9B180264-1        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 21:14 | Q |
| 142 | K7DRX     | D9B180264-2        | 9050177 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 21:16 | Q |
| 143 | K7DR0     | D9B180264-3        | 9050177 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:19 | Q |
| 144 | K7EPHB    | D9B190000          | 9050178 |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 21:21 | Q |
| 145 | K7EPHC    | D9B190000 = 5.00   | 9050178 |         | 5.07  | 1.0 | 5.07   | ppb   | 101.4% | 02/19/09 21:23 | Q |
| 146 | K7DCL     | D9B180192-1        | 9050178 | AQUEOUS | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 21:26 | Q |
| 147 | K7DCLS    | D9B180192-1 = 5.00 | 9050178 | AQUEOUS | 4.99  | 1.0 | 4.99   | ppb   |        | 02/19/09 21:28 | Q |
| 148 | CCV       | = 5.00             |         |         | 5.11  | 1.0 | 5.11   | ppb   | 102.3% | 02/19/09 21:30 | Q |
| 149 | CCB       |                    |         |         | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:32 | Q |
| 150 | K7DCLD    | D9B180192-1 = 5.00 | 9050178 | AQUEOUS | 5.04  | 1.0 | 5.04   | ppb   |        | 02/19/09 21:35 | Q |
| 151 | K7DCV     | D9B180192-2        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:37 | Q |
| 152 | K7DCW     | D9B180192-3        | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:39 | Q |
| 153 | K7DCX     | D9B180192-4        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:42 | Q |
| 154 | K7DC0     | D9B180192-5        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:44 | Q |
| 155 | K7DC1     | D9B180192-6        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:46 | Q |
| 156 | K7DC5     | D9B180192-7        | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:49 | Q |
| 157 | CCV       | = 5.00             |         |         | 5.11  | 1.0 | 5.11   | ppb   | 102.1% | 02/19/09 21:51 | Q |
| 158 | CCB       |                    |         |         | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 21:53 | Q |
| 159 | K7DC9     | D9B180192-8        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:56 | Q |
| 160 | K7DDD     | D9B180192-9        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 21:58 | Q |
| 161 | K7DDG     | D9B180192-10       | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 22:00 | Q |
| 162 | K7DDL     | D9B180192-11       | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 22:03 | Q |
| 163 | K7DDQ     | D9B180192-12       | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 22:05 | Q |
| 164 | K7DLC     | D9B180238-1        | 9050178 | AQUEOUS | 0.01  | 1.0 | 0.01   | ppb   |        | 02/19/09 22:07 | Q |
| 165 | K7DLK     | D9B180238-3        | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 22:10 | Q |
| 166 | K7DLM     | D9B180238-5        | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.01   | ppb   |        | 02/19/09 22:12 | Q |
| 167 | K7DLR     | D9B180238-7        | 9050178 | AQUEOUS | 0.00  | 1.0 | 0.00   | ppb   |        | 02/19/09 22:14 | Q |
| 168 | CCV       | = 5.00             |         |         | 5.11  | 1.0 | 5.11   | ppb   | 102.3% | 02/19/09 22:17 | Q |
| 169 | CCB       |                    |         |         | -0.00 | 1.0 | -0.00  | ppb   |        | 02/19/09 22:19 | Q |

Jan 21/20/09



# CETAC Hg Analysis Report

Analyst: grisdalec

Worksheet file: C:\Program Files\QuickTrace\Worksheets\090219AA.wsz

Date Started: 2/19/2009 2:59:16 PM

Comment:

## Results

| Sample Name | Type | Date/Time            | Conc (ppb) | $\mu$ Abs | %RSD  | Flags | Wt.  | Vol. | ODF  |
|-------------|------|----------------------|------------|-----------|-------|-------|------|------|------|
| Cal Blank   | STD  | 02/19/09 03:48:02 pm | 0.000      | 14        | 18.60 | ✓     | 1.00 | 1.00 | 1.00 |
| Std1        | STD  | 02/19/09 03:50:20 pm | 0.200      | 1787      | 0.12  | ✓     | 1.00 | 1.00 | 1.00 |
| Std2        | STD  | 02/19/09 03:52:38 pm | 0.500      | 4635      | 0.61  | ✓     | 1.00 | 1.00 | 1.00 |
| Std3        | STD  | 02/19/09 03:54:57 pm | 1.000      | 9314      | 0.41  | ✓     | 1.00 | 1.00 | 1.00 |
| Std4        | STD  | 02/19/09 03:57:16 pm | 2.000      | 18476     | 0.80  | ✓     | 1.00 | 1.00 | 1.00 |
| Std5        | STD  | 02/19/09 03:59:36 pm | 5.000      | 45013     | 0.78  | ✓     | 1.00 | 1.00 | 1.00 |
| Std6        | STD  | 02/19/09 04:01:57 pm | 10.000     | 91311     | 0.59  | ✓     | 1.00 | 1.00 | 1.00 |

### Calibration

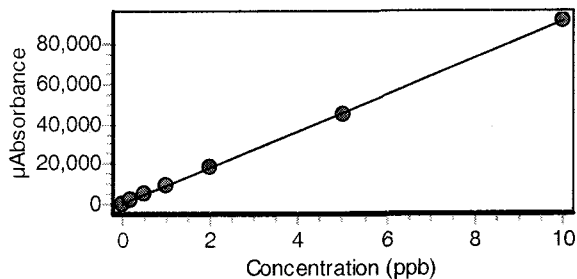
Equation:  $A = 39.070 + 9105.741C$

R2: 0.99993

SEE: 296.9909

Flags:

*Checked  
2/20/09*



|                     |      |                      |        |       |       |   |      |      |      |
|---------------------|------|----------------------|--------|-------|-------|---|------|------|------|
| ICB ✓               | ICB  | 02/19/09 04:04:55 pm | -0.002 | 25    | 14.57 | ✓ | 1.00 | 1.00 | 1.00 |
| ICV                 | ICV  | 02/19/09 04:07:16 pm | 7.087  | 64572 | 0.59  | ✓ | 1.00 | 1.00 | 1.00 |
| % Recovery 101.24 ✓ |      |                      |        |       |       |   |      |      |      |
| RL                  | CRDL | 02/19/09 04:09:34 pm | 0.193  | 1799  | 0.58  | ✓ | 1.00 | 1.00 | 1.00 |
| % Recovery 96.66 ✓  |      |                      |        |       |       |   |      |      |      |

| Sample Name                                      | Type           | Date/Time                       | Conc<br>(ppb)    | μAbs             | %RSD            | Flags | Wt.             | Vol.<br>ODF              |
|--|----------------|---------------------------------|------------------|------------------|-----------------|-------|-----------------|--------------------------|
| CCV<br>% Recovery 102.20 ✓                       | CCV            | 02/19/09 04:11:54 pm            | 5.110 ✓          | 46567            | 0.20            |       | 1.00            | 1.00<br>1.00             |
| CCB  | CCB            | 02/19/09 04:14:11 pm            | 0.000 ✓          | 42               | 6.48            |       | 1.00            | 1.00<br>1.00             |
| K7EPPB   | UNK            | 02/19/09 04:16:28 pm            | 0.001 ✓          | 45               | 4.22            |       | 1.00            | 1.00<br>1.00             |
| <del>K7EPPC</del>                                | <del>UNK</del> | <del>02/19/09 04:18:46 pm</del> | <del>4.374</del> | <del>39865</del> | <del>1.13</del> |       | <del>1.00</del> | <del>1.00<br/>1.00</del> |
| <i>NA, Bad read see result below. CS 2/20/09</i> |                |                                 |                  |                  |                 |       |                 |                          |
| K7EHT  | UNK            | 02/19/09 04:21:03 pm            | 0.030            | 316              | 1.36            |       | 1.00            | 1.00<br>1.00             |
| K7EHTS   | UNK            | 02/19/09 04:23:21 pm            | 4.566 ✓          | 41619            | 2.55            |       | 1.00            | 1.00<br>1.00             |
| K7EHTD   | UNK            | 02/19/09 04:25:40 pm            | 4.549 ✓          | 41460            | 0.52            |       | 1.00            | 1.00<br>1.00             |
| <del>K7EHTS</del>                                | <del>UNK</del> | <del>02/19/09 04:27:57 pm</del> | <del>4.652</del> | <del>42398</del> | <del>2.56</del> |       | <del>1.00</del> | <del>1.00<br/>1.00</del> |
| <i>NA, Confirms above CS 2/20/09</i>             |                |                                 |                  |                  |                 |       |                 |                          |
| <del>K7EHTD</del>                                | <del>UNK</del> | <del>02/19/09 04:30:16 pm</del> | <del>4.650</del> | <del>42381</del> | <del>1.77</del> |       | <del>1.00</del> | <del>1.00<br/>1.00</del> |
| K7EH5  | UNK            | 02/19/09 04:32:34 pm            | 0.019            | 208              | 1.56            |       | 1.00            | 1.00<br>1.00             |
| K7EH6  | UNK            | 02/19/09 04:34:53 pm            | 0.010            | 133              | 2.27            |       | 1.00            | 1.00<br>1.00             |
| CCV<br>% Recovery 99.49 ✓                        | CCV            | 02/19/09 04:37:13 pm            | 4.974 ✓          | 45335            | 0.38            |       | 1.00            | 1.00<br>1.00             |
| CCB  | CCB            | 02/19/09 04:39:30 pm            | 0.000 ✓          | 43               | 5.83            |       | 1.00            | 1.00<br>1.00             |
| K7EJJ  | UNK            | 02/19/09 04:41:49 pm            | 0.007            | 102              | 0.79            |       | 1.00            | 1.00<br>1.00             |
| K7EJ6  | UNK            | 02/19/09 04:44:09 pm            | 0.007            | 104              | 3.75            |       | 1.00            | 1.00<br>1.00             |
| K7EJ8  | UNK            | 02/19/09 04:46:28 pm            | 0.012            | 149              | 4.73            |       | 1.00            | 1.00<br>1.00             |
| K7EJ9  | UNK            | 02/19/09 04:48:48 pm            | 0.007            | 99               | 1.47            |       | 1.00            | 1.00<br>1.00             |

| Sample Name               | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD   | Flags | Wt.  | Vol.<br>ODF  |
|---------------------------|------|----------------------|---------------|-------|--------|-------|------|--------------|
| K7EKA                     | UNK  | 02/19/09 04:51:08 pm | 0.008         | 109   | 4.30   |       | 1.00 | 1.00<br>1.00 |
| K7EKD                     | UNK  | 02/19/09 04:53:25 pm | 0.012         | 147   | 1.74   |       | 1.00 | 1.00<br>1.00 |
| K7EKE                     | UNK  | 02/19/09 04:55:42 pm | 0.010         | 127   | 1.45   |       | 1.00 | 1.00<br>1.00 |
| K7EKK                     | UNK  | 02/19/09 04:57:59 pm | 0.005         | 87    | 1.20   |       | 1.00 | 1.00<br>1.00 |
| K7EKJ                     | UNK  | 02/19/09 05:00:17 pm | 0.004         | 76    | 3.46   |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 97.58 ✓ | CCV  | 02/19/09 05:02:37 pm | 4.879 ✓       | 44465 | 0.80   |       | 1.00 | 1.00<br>1.00 |
| CCB                       | CCB  | 02/19/09 05:04:54 pm | -0.001 ✓      | 28    | 10.33  |       | 1.00 | 1.00<br>1.00 |
| K7EKN                     | UNK  | 02/19/09 05:07:12 pm | 0.009         | 118   | 7.20 s |       | 1.00 | 1.00<br>1.00 |
| K7EKM                     | UNK  | 02/19/09 05:09:30 pm | 0.003         | 64    | 3.94   |       | 1.00 | 1.00<br>1.00 |
| K7EKW                     | UNK  | 02/19/09 05:11:48 pm | 0.008         | 108   | 2.37   |       | 1.00 | 1.00<br>1.00 |
| K7EKX                     | UNK  | 02/19/09 05:14:07 pm | 0.010         | 130   | 2.53   |       | 1.00 | 1.00<br>1.00 |
| K7EN8B                    | UNK  | 02/19/09 05:16:26 pm | 0.000 ✓       | 37    | 10.65  |       | 1.00 | 1.00<br>1.00 |
| K7ENCC                    | UNK  | 02/19/09 05:18:45 pm | 4.781 ✓       | 43578 | 0.86   |       | 1.00 | 1.00<br>1.00 |
| K7EHT                     | UNK  | 02/19/09 05:21:05 pm | 0.032         | 332   | 0.65   |       | 1.00 | 1.00<br>1.00 |
| K7EHTS                    | UNK  | 02/19/09 05:23:25 pm | 4.293 ✓       | 39128 | 0.81   |       | 1.00 | 1.00<br>1.00 |
| K7EHTD                    | UNK  | 02/19/09 05:25:41 pm | 4.292 ✓       | 39125 | 0.66   |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 98.61 ✓ | CCV  | 02/19/09 05:28:01 pm | 4.931 ✓       | 44936 | 0.74   |       | 1.00 | 1.00<br>1.00 |

| Sample Name                                  | Type           | Date/Time                       | Conc (ppb)       | μAbs             | %RSD            | Flags | Wt.             | Vol.            | ODF             |
|--|----------------|---------------------------------|------------------|------------------|-----------------|-------|-----------------|-----------------|-----------------|
| CCB  | CCB            | 02/19/09 05:30:18 pm            | -0.001 ✓         | 33               | 10.11           |       | 1.00            | 1.00            | 1.00            |
| <del>K7EHTS</del>                            | <del>UNK</del> | <del>02/19/09 05:32:38 pm</del> | <del>4.254</del> | <del>38775</del> | <del>0.99</del> |       | <del>1.00</del> | <del>1.00</del> | <del>1.00</del> |
| <i>NA, Confirms above results as 2/20/09</i> |                |                                 |                  |                  |                 |       |                 |                 |                 |
| <del>K7EHTD</del>                            | <del>UNK</del> | <del>02/19/09 05:34:55 pm</del> | <del>4.294</del> | <del>39140</del> | <del>0.61</del> |       | <del>1.00</del> | <del>1.00</del> | <del>1.00</del> |
| K7EH5  | UNK            | 02/19/09 05:37:12 pm            | 0.039            | 390              | 0.72            |       | 1.00            | 1.00            | 1.00            |
| K7EH6  | UNK            | 02/19/09 05:39:29 pm            | 0.013            | 154              | 1.58            |       | 1.00            | 1.00            | 1.00            |
| K7EJJ  | UNK            | 02/19/09 05:41:47 pm            | 0.045            | 453              | 0.64            |       | 1.00            | 1.00            | 1.00            |
| K7EJ6  | UNK            | 02/19/09 05:44:05 pm            | 0.043            | 427              | 0.22            |       | 1.00            | 1.00            | 1.00            |
| K7EJ8  | UNK            | 02/19/09 05:46:23 pm            | 0.022            | 238              | 1.12            |       | 1.00            | 1.00            | 1.00            |
| K7EJ9  | UNK            | 02/19/09 05:48:41 pm            | 0.054            | 528              | 0.58            |       | 1.00            | 1.00            | 1.00            |
| K7EKA  | UNK            | 02/19/09 05:51:00 pm            | 0.051            | 502              | 0.31            |       | 1.00            | 1.00            | 1.00            |
| CCV  | CCV            | 02/19/09 05:53:20 pm            | 4.924 ✓          | 44873            | 0.82            |       | 1.00            | 1.00            | 1.00            |
| % Recovery                                   | 98.47 ✓        |                                 |                  |                  |                 |       |                 |                 |                 |
| CCB  | CCB            | 02/19/09 05:55:37 pm            | -0.002 ✓         | 22               | 26.75           |       | 1.00            | 1.00            | 1.00            |
| K7EKD  | UNK            | 02/19/09 05:57:56 pm            | 0.033            | 341              | 0.84            |       | 1.00            | 1.00            | 1.00            |
| K7EKK  | UNK            | 02/19/09 06:00:15 pm            | 0.106            | 1003             | 0.82            |       | 1.00            | 1.00            | 1.00            |
| K7EKJ  | UNK            | 02/19/09 06:02:35 pm            | 0.027            | 287              | 0.63            |       | 1.00            | 1.00            | 1.00            |
| K7EKN  | UNK            | 02/19/09 06:04:55 pm            | 0.019            | 208              | 2.50            |       | 1.00            | 1.00            | 1.00            |
| K7EKM  | UNK            | 02/19/09 06:07:12 pm            | 0.000            | 40               | 8.88            |       | 1.00            | 1.00            | 1.00            |

| Sample Name               | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD  | Flags | Wt.  | Vol.<br>ODF  |
|---------------------------|------|----------------------|---------------|-------|-------|-------|------|--------------|
| K7EKW                     | UNK  | 02/19/09 06:09:29 pm | 0.071         | 687   | 0.46  |       | 1.00 | 1.00<br>1.00 |
| K7EKX                     | UNK  | 02/19/09 06:11:46 pm | 0.034         | 345   | 1.00  |       | 1.00 | 1.00<br>1.00 |
| K7EN3B                    | UNK  | 02/19/09 06:14:04 pm | -0.002 ✓      | 18    | 16.76 |       | 1.00 | 1.00<br>1.00 |
| K7EN3C                    | UNK  | 02/19/09 06:16:22 pm | 4.832 ✓       | 44036 | 0.35  |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 99.25 ✓ | CCV  | 02/19/09 06:18:42 pm | 4.963 ✓       | 45227 | 0.80  |       | 1.00 | 1.00<br>1.00 |
| CCB                       | CCB  | 02/19/09 06:20:59 pm | -0.002 ✓      | 24    | 10.51 |       | 1.00 | 1.00<br>1.00 |
| K7DXC                     | UNK  | 02/19/09 06:23:17 pm | 0.158         | 1478  | 0.31  |       | 1.00 | 1.00<br>1.00 |
| K7DXCS                    | UNK  | 02/19/09 06:25:35 pm | 4.549 ✓       | 41463 | 0.42  |       | 1.00 | 1.00<br>1.00 |
| K7DXCD                    | UNK  | 02/19/09 06:27:54 pm | 4.908 ✓       | 44730 | 0.75  |       | 1.00 | 1.00<br>1.00 |
| K7EF3                     | UNK  | 02/19/09 06:30:13 pm | -0.003        | 9     | 38.34 |       | 1.00 | 1.00<br>1.00 |
| K7EGE                     | UNK  | 02/19/09 06:32:32 pm | 0.093         | 886   | 0.78  |       | 1.00 | 1.00<br>1.00 |
| K7EGM                     | UNK  | 02/19/09 06:34:52 pm | 0.008         | 116   | 1.35  |       | 1.00 | 1.00<br>1.00 |
| K7EGQ                     | UNK  | 02/19/09 06:37:12 pm | -0.003        | 9     | 23.09 |       | 1.00 | 1.00<br>1.00 |
| K7EG3                     | UNK  | 02/19/09 06:39:30 pm | -0.001        | 30    | 14.88 |       | 1.00 | 1.00<br>1.00 |
| K7EHD                     | UNK  | 02/19/09 06:41:47 pm | 0.803         | 7348  | 0.54  |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 99.44 ✓ | CCV  | 02/19/09 06:44:07 pm | 4.972 ✓       | 45315 | 0.75  |       | 1.00 | 1.00<br>1.00 |
| CCB                       | CCB  | 02/19/09 06:46:24 pm | 0.000 ✓       | 38    | 11.14 |       | 1.00 | 1.00<br>1.00 |

| Sample Name         | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD   | Flags | Wt.  | Vol.<br>ODF  |
|---------------------|------|----------------------|---------------|-------|--------|-------|------|--------------|
| K7D19B              | UNK  | 02/19/09 06:48:42 pm | 0.004 ✓       | 79    | 3.02   |       | 1.00 | 1.00<br>1.00 |
| K7ENVC              | UNK  | 02/19/09 06:50:59 pm | 4.922 ✓       | 44856 | 0.42   |       | 1.00 | 1.00<br>1.00 |
| K7A6X               | UNK  | 02/19/09 06:53:17 pm | 0.049 -       | 486   | 0.49   |       | 1.00 | 1.00<br>1.00 |
| K7A6XP5             | UNK  | 02/19/09 06:55:35 pm | 0.014 ✓       | 168   | 2.55   |       | 1.00 | 1.00<br>1.00 |
| K7A6XS              | UNK  | 02/19/09 06:57:54 pm | 4.780 ✓       | 43561 | 1.25   |       | 1.00 | 1.00<br>1.00 |
| K7A6XD              | UNK  | 02/19/09 07:00:12 pm | 4.189 ✓       | 38184 | 0.32   |       | 1.00 | 1.00<br>1.00 |
| K7D2VB              | UNK  | 02/19/09 07:02:31 pm | 0.005 ✓       | 81    | 4.30   |       | 1.00 | 1.00<br>1.00 |
| K7ENRC              | UNK  | 02/19/09 07:04:51 pm | 4.976 ✓       | 45352 | 1.24   |       | 1.00 | 1.00<br>1.00 |
| K7A62               | UNK  | 02/19/09 07:07:10 pm | 0.004         | 74    | 4.95   |       | 1.00 | 1.00<br>1.00 |
| CCV                 | CCV  | 02/19/09 07:09:30 pm | 5.097 ✓       | 46452 | 0.61   |       | 1.00 | 1.00<br>1.00 |
| % Recovery 101.94 ✓ |      |                      |               |       |        |       |      |              |
| CCB                 | CCB  | 02/19/09 07:11:47 pm | -0.001 ✓      | 33    | 8.51   |       | 1.00 | 1.00<br>1.00 |
| K7A62P5             | UNK  | 02/19/09 07:14:07 pm | 0.005 -       | 88    | 5.26   |       | 1.00 | 1.00<br>1.00 |
| K7A62S              | UNK  | 02/19/09 07:16:25 pm | 5.268 ✓       | 48011 | 1.22   |       | 1.00 | 1.00<br>1.00 |
| K7A62D              | UNK  | 02/19/09 07:18:43 pm | 4.851 ✓       | 44208 | 0.89   |       | 1.00 | 1.00<br>1.00 |
| K7EPWB              | UNK  | 02/19/09 07:21:01 pm | -0.004 ✓      | 3     | 207.49 |       | 1.00 | 1.00<br>1.00 |
| K7EPWC              | UNK  | 02/19/09 07:23:19 pm | 5.063 ✓       | 46142 | 0.66   |       | 1.00 | 1.00<br>1.00 |
| K7D51               | UNK  | 02/19/09 07:25:37 pm | -0.002        | 23    | 12.80  |       | 1.00 | 1.00<br>1.00 |

| Sample Name                | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD  | Flags | Wt.  | Vol. | ODF  |
|----------------------------|------|----------------------|---------------|-------|-------|-------|------|------|------|
| K7D51S                     | UNK  | 02/19/09 07:27:55 pm | 5.210 ✓       | 47482 | 0.67  |       | 1.00 | 1.00 | 1.00 |
| K7D51D                     | UNK  | 02/19/09 07:30:14 pm | 5.058 ✓       | 46093 | 0.75  |       | 1.00 | 1.00 | 1.00 |
| K7D55                      | UNK  | 02/19/09 07:32:32 pm | -0.003        | 14    | 25.57 |       | 1.00 | 1.00 | 1.00 |
| CCV<br>% Recovery 101.94 ✓ | CCV  | 02/19/09 07:34:52 pm | 5.097 ✓       | 46449 | 0.80  |       | 1.00 | 1.00 | 1.00 |
| CCB                        | CCB  | 02/19/09 07:37:09 pm | 0.000 ✓       | 40    | 13.91 |       | 1.00 | 1.00 | 1.00 |
| K7D57                      | UNK  | 02/19/09 07:39:28 pm | 0.000         | 39    | 14.47 |       | 1.00 | 1.00 | 1.00 |
| K7D59                      | UNK  | 02/19/09 07:41:48 pm | -0.002        | 24    | 15.86 |       | 1.00 | 1.00 | 1.00 |
| K7D6F                      | UNK  | 02/19/09 07:44:07 pm | -0.001        | 27    | 3.96  |       | 1.00 | 1.00 | 1.00 |
| K7D6H                      | UNK  | 02/19/09 07:46:27 pm | -0.002        | 24    | 7.75  |       | 1.00 | 1.00 | 1.00 |
| K7D6L                      | UNK  | 02/19/09 07:48:45 pm | 0.002         | 58    | 4.69  |       | 1.00 | 1.00 | 1.00 |
| K7EPKB                     | UNK  | 02/19/09 07:51:04 pm | -0.002 ✓      | 24    | 18.98 |       | 1.00 | 1.00 | 1.00 |
| K7EPKC                     | UNK  | 02/19/09 07:53:22 pm | 4.972 ✓       | 45313 | 0.50  |       | 1.00 | 1.00 | 1.00 |
| K7D5W                      | UNK  | 02/19/09 07:55:40 pm | 0.015         | 174   | 0.65  |       | 1.00 | 1.00 | 1.00 |
| K7D5WS                     | UNK  | 02/19/09 07:57:58 pm | 4.666 ✓       | 42523 | 0.80  |       | 1.00 | 1.00 | 1.00 |
| CCV<br>% Recovery 102.56 ✓ | CCV  | 02/19/09 08:00:18 pm | 5.128 ✓       | 46731 | 1.13  |       | 1.00 | 1.00 | 1.00 |
| CCB                        | CCB  | 02/19/09 08:02:35 pm | -0.002 ✓      | 18    | 17.35 |       | 1.00 | 1.00 | 1.00 |
| K7D5WD                     | UNK  | 02/19/09 08:04:54 pm | 4.655 ✓       | 42423 | 0.43  |       | 1.00 | 1.00 | 1.00 |

✓ NPDES 3/20/09

| Sample Name                      | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD  | Flags | Wt.  | Vol.<br>ODF  |
|----------------------------------|------|----------------------|---------------|-------|-------|-------|------|--------------|
| K7D52                            | UNK  | 02/19/09 08:07:12 pm | 0.008         | 108   | 2.06  |       | 1.00 | 1.00<br>1.00 |
| K7D56                            | UNK  | 02/19/09 08:09:31 pm | 0.011         | 138   | 1.50  |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 102.55 ✓       | CCV  | 02/19/09 08:14:22 pm | 5.127 ✓       | 46728 | 0.66  |       | 1.00 | 1.00<br>1.00 |
| CCB                              | CCB  | 02/19/09 08:16:39 pm | 0.000 ✓       | 37    | 5.75  |       | 1.00 | 1.00<br>1.00 |
| <u>K7EPPC</u> RR ✓<br>vs 2/20/09 | UNK  | 02/19/09 08:18:56 pm | 4.626 ✓       | 42165 | 2.04  |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 101.94 ✓       | CCV  | 02/19/09 08:21:16 pm | 5.097 ✓       | 46453 | 0.72  |       | 1.00 | 1.00<br>1.00 |
| CCB                              | CCB  | 02/19/09 08:23:33 pm | 0.000 ✓       | 38    | 10.78 |       | 1.00 | 1.00<br>1.00 |
| K7D58                            | UNK  | 02/19/09 08:25:52 pm | -0.002        | 17    | 6.63  |       | 1.00 | 1.00<br>1.00 |
| K7D6E                            | UNK  | 02/19/09 08:28:11 pm | -0.001        | 33    | 9.16  |       | 1.00 | 1.00<br>1.00 |
| K7D6G                            | UNK  | 02/19/09 08:30:31 pm | 0.001         | 46    | 7.28  |       | 1.00 | 1.00<br>1.00 |
| K7D6K                            | UNK  | 02/19/09 08:32:51 pm | 0.001         | 45    | 6.70  |       | 1.00 | 1.00<br>1.00 |
| K7EPFB                           | UNK  | 02/19/09 08:35:09 pm | -0.002 ✓      | 24    | 10.63 |       | 1.00 | 1.00<br>1.00 |
| K7EPFC                           | UNK  | 02/19/09 08:37:28 pm | 5.062 ✓       | 46132 | 0.91  |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 103.16 ✓       | CCV  | 02/19/09 08:39:48 pm | 5.158 ✓       | 47006 | 0.65  |       | 1.00 | 1.00<br>1.00 |
| CCB                              | CCB  | 02/19/09 08:42:05 pm | -0.001 ✓      | 29    | 10.40 |       | 1.00 | 1.00<br>1.00 |
| K7C9X                            | UNK  | 02/19/09 08:44:23 pm | -0.002        | 25    | 8.94  |       | 1.00 | 1.00<br>1.00 |
| K7C9XS                           | UNK  | 02/19/09 08:46:42 pm | 4.989 ✓       | 45471 | 0.90  |       | 1.00 | 1.00<br>1.00 |



| Sample Name | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD  | Flags | Wt.  | Vol. |
|-------------|------|----------------------|---------------|-------|-------|-------|------|------|
|             |      |                      |               |       |       |       | ODF  |      |
| K7C9XD      | UNK  | 02/19/09 08:49:00 pm | 5.027 ✓       | 45813 | 1.26  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7C90       | UNK  | 02/19/09 08:51:19 pm | -0.003        | 9     | 59.84 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7C91       | UNK  | 02/19/09 08:53:37 pm | 0.000         | 41    | 8.43  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7C92       | UNK  | 02/19/09 08:55:56 pm | 0.000         | 36    | 3.61  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7C93       | UNK  | 02/19/09 08:58:15 pm | -0.001        | 29    | 16.78 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7C95       | UNK  | 02/19/09 09:00:34 pm | -0.001        | 30    | 5.00  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DA9       | UNK  | 02/19/09 09:02:54 pm | 0.081         | 781   | 2.18  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| CCV         | CCV  | 02/19/09 09:05:14 pm | 5.035 ✓       | 45890 | 0.76  |       | 1.00 | 1.00 |
| % Recovery  |      | 100.71 ✓             |               |       |       |       | 1.00 |      |
| CCB         | CCB  | 02/19/09 09:07:31 pm | 0.000 ✓       | 35    | 7.19  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DQ6       | UNK  | 02/19/09 09:09:51 pm | 0.005         | 81    | 2.80  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DRC       | UNK  | 02/19/09 09:12:10 pm | 0.242         | 2246  | 0.60  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DRW       | UNK  | 02/19/09 09:14:29 pm | -0.001        | 30    | 12.33 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DRX       | UNK  | 02/19/09 09:16:47 pm | -0.002        | 19    | 10.16 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DR0       | UNK  | 02/19/09 09:19:06 pm | 0.000         | 39    | 8.64  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7EPHB      | UNK  | 02/19/09 09:21:25 pm | -0.003 ✓      | 11    | 51.66 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7EPHC      | UNK  | 02/19/09 09:23:44 pm | 5.070 ✓       | 46207 | 0.75  |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |
| K7DCL       | UNK  | 02/19/09 09:26:03 pm | -0.003        | 16    | 32.38 |       | 1.00 | 1.00 |
|             |      |                      |               |       |       |       | 1.00 |      |

| Sample Name                | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD | Flags | Wt.  | Vol.<br>ODF  |
|----------------------------|------|----------------------|---------------|-------|------|-------|------|--------------|
| K7DCLS                     | UNK  | 02/19/09 09:28:22 pm | 4.995 ✓       | 45527 | 1.34 |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 102.25 ✓ | CCV  | 02/19/09 09:30:42 pm | 5.113 ✓       | 46594 | 1.70 |       | 1.00 | 1.00<br>1.00 |
| CCB                        | CCB  | 02/19/09 09:32:59 pm | 0.000 ✓       | 35    | 3.49 |       | 1.00 | 1.00<br>1.00 |
| K7DCLD                     | UNK  | 02/19/09 09:35:18 pm | 5.042 ✓       | 45954 | 0.83 |       | 1.00 | 1.00<br>1.00 |
| K7DCV                      | UNK  | 02/19/09 09:37:37 pm | 0.006         | 97    | 4.19 |       | 1.00 | 1.00<br>1.00 |
| K7DCW                      | UNK  | 02/19/09 09:39:56 pm | 0.005         | 89    | 2.05 |       | 1.00 | 1.00<br>1.00 |
| K7DCX                      | UNK  | 02/19/09 09:42:16 pm | 0.007         | 101   | 3.18 |       | 1.00 | 1.00<br>1.00 |
| K7DC0                      | UNK  | 02/19/09 09:44:35 pm | 0.006         | 96    | 5.53 |       | 1.00 | 1.00<br>1.00 |
| K7DC1                      | UNK  | 02/19/09 09:46:54 pm | 0.006         | 94    | 4.57 |       | 1.00 | 1.00<br>1.00 |
| K7DC5                      | UNK  | 02/19/09 09:49:13 pm | 0.000         | 39    | 2.72 |       | 1.00 | 1.00<br>1.00 |
| CCV<br>% Recovery 102.12 ✓ | CCV  | 02/19/09 09:51:33 pm | 5.106 ✓       | 46532 | 0.90 |       | 1.00 | 1.00<br>1.00 |
| CCB                        | CCB  | 02/19/09 09:53:51 pm | 0.000 ✓       | 38    | 6.18 |       | 1.00 | 1.00<br>1.00 |
| K7DC9                      | UNK  | 02/19/09 09:56:10 pm | 0.013         | 155   | 1.19 |       | 1.00 | 1.00<br>1.00 |
| K7DDD                      | UNK  | 02/19/09 09:58:29 pm | 0.006         | 93    | 2.63 |       | 1.00 | 1.00<br>1.00 |
| K7DDG                      | UNK  | 02/19/09 10:00:48 pm | 0.003         | 70    | 4.21 |       | 1.00 | 1.00<br>1.00 |
| K7DDL                      | UNK  | 02/19/09 10:03:07 pm | 0.002         | 58    | 4.97 |       | 1.00 | 1.00<br>1.00 |
| K7DDQ                      | UNK  | 02/19/09 10:05:26 pm | 0.003         | 63    | 2.08 |       | 1.00 | 1.00<br>1.00 |

| Sample Name                | Type | Date/Time            | Conc<br>(ppb) | μAbs  | %RSD  | Flags | Wt.<br>ODF   | Vol. |
|----------------------------|------|----------------------|---------------|-------|-------|-------|--------------|------|
| K7DLC                      | UNK  | 02/19/09 10:07:45 pm | 0.006         | 90    | 5.92  |       | 1.00<br>1.00 | 1.00 |
| K7DLK                      | UNK  | 02/19/09 10:10:04 pm | 0.003         | 67    | 3.64  |       | 1.00<br>1.00 | 1.00 |
| K7DLM                      | UNK  | 02/19/09 10:12:24 pm | 0.005         | 86    | 1.69  |       | 1.00<br>1.00 | 1.00 |
| K7DLR                      | UNK  | 02/19/09 10:14:44 pm | 0.003         | 65    | 3.33  |       | 1.00<br>1.00 | 1.00 |
| CCV<br>% Recovery 102.26 ✓ | CCV  | 02/19/09 10:17:03 pm | 5.113 ✓       | 46599 | 0.95  |       | 1.00<br>1.00 | 1.00 |
| CCB                        | CCB  | 02/19/09 10:19:20 pm | -0.002 ✓      | 24    | 15.52 |       | 1.00<br>1.00 | 1.00 |

# Analysis Parameters

## Instrument

### Conditions

| Gas flow (mL/min) | Sample Uptake (s) | Rinse (s) | Read delay (s) | Replicates (#) | Replicate time (s) | Pump speed (%) | Wavelength (nm) |
|-------------------|-------------------|-----------|----------------|----------------|--------------------|----------------|-----------------|
| 100               | 40.00             | 90.00     | 50.00          | 4              | 1.50               | 50             | 253.65          |

### Instrumental Zero

Zero before first sample: No

Zero periodically: Yes  
Before each calibration.

### Baseline Correction

| #1 Start time (s) | #1 End time (s) | #2 Start time (s) | #2 End time (s) |
|-------------------|-----------------|-------------------|-----------------|
| 25.00             | 29.00           |                   |                 |

### Standby Mode

Enabled: Yes

Standby Options: pump slow

### Autodilution

Enabled: Yes

Condition: Saturate

Tube # range: 4:1 - 4:60

If no autodilution tubes remaining continue undiluted

## Calibration

### Settings

| Algorithm | Through blank | Weighted fit | Cal. Type | Racalibration rate | Reslope rate | Reslope standard |
|-----------|---------------|--------------|-----------|--------------------|--------------|------------------|
| Linear    | No            | No           | Normal    | 0                  | 0            | N/A              |

### Limits

| Calibration slope |           | Reslope   |           | Coeff. of Determination |
|-------------------|-----------|-----------|-----------|-------------------------|
| Lower (%)         | Upper (%) | Lower (%) | Upper (%) |                         |
| 20                | 150       | 75        | 125       | 0.99500                 |

Error action: Flag and continue

## QC

GLP Override: Yes

### QC Tests

**CCB**

Concentration  
(ppb)  
0.2000

Failure flag: Q

Error action for manually inserted QC: Stop analysis

**ICB**

Concentration  
(ppb)  
0.2000

Failure flag: Z

Error action for manually inserted QC: Stop analysis

**CCV**

| Concentration<br>(ppb) | Low Limit<br>% | High Limit<br>% |
|------------------------|----------------|-----------------|
| 5.0000                 | 80.0000        | 120.0000        |

Failure flag: Q

Error action for manually inserted QC: Stop analysis

**ICV**

| Concentration<br>(ppb) | Low Limit<br>% | High Limit<br>% |
|------------------------|----------------|-----------------|
| 7.0000                 | 90.0000        | 110.0000        |

Failure flag: Q

Error action for manually inserted QC: Stop analysis

**CRDL**

| Concentration<br>(ppb) | Low Limit<br>% | High Limit<br>% |
|------------------------|----------------|-----------------|
| 0.2000                 | 70.0000        | 130.0000        |

Failure flag: Y

Error action for manually inserted QC: Stop analysis

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

MWH-Pasadena / Boeing

Lot D9C050252

Project ISB1796

Joseph Doak  
17461 Derian Avenue  
Suite 100  
Irvine, CA 92614

TestAmerica Laboratories, Inc.

  
for: DiLea Griego  
Project Manager

March 11, 2009

## Case Narrative

Enclosed is the report for two samples received at TestAmerica Laboratories, Inc. – Denver laboratory on February 24, 2009. The results included in this report relate only to the samples in this report and have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

This report may include reporting limits (RLs) less than the Denver laboratory's standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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

## Quality Control Summary for Lot D9C050252

### Sample Receiving

The cooler temperature upon receipt at the laboratory was acceptable at 5.1°C.

Sample ISB1796-01, requesting alpha-BHC by Method 608, was received at the TestAmerica Denver laboratory after the recommended sample holding time had expired. The client was notified on March 9, 2009.

### Alpha-BHC – Method 608

Sample ISB1796-01, requesting alpha-BHC by Method 608, was received at the TestAmerica Denver laboratory after the recommended sample holding time had expired. Please note that the sample result should be considered estimated. The sample has been flagged with "HTV" as appropriate.

The sample ISB1796-01 was observed to have heavy emulsions with methylene chloride during the Method 608 extraction process.

The method required MS/MSD analyses were not performed for QC batch 9064381, due to insufficient sample volume. Method precision and accuracy were verified by the acceptable LCS/LCSD analysis data.

No anomalies were observed.

# EXECUTIVE SUMMARY - Detection Highlights

D9C050252

| <u>PARAMETER</u>                | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>ANALYTICAL<br/>METHOD</u> |
|---------------------------------|---------------|----------------------------|--------------|------------------------------|
| <b>NO DETECTABLE PARAMETERS</b> |               |                            |              |                              |



# METHODS SUMMARY

D9C050252

| <u>PARAMETER</u>                   | <u>ANALYTICAL<br/>METHOD</u> | <u>PREPARATION<br/>METHOD</u> |
|------------------------------------|------------------------------|-------------------------------|
| Organochlorine Pesticides and PCBs | CFR136A 608                  | CFR136A 608                   |

## References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

# METHOD / ANALYST SUMMARY

D9C050252

| <u>ANALYTICAL<br/>METHOD</u> | <u>ANALYST</u> | <u>ANALYST<br/>ID</u> |
|------------------------------|----------------|-----------------------|
| CFR136A 608                  | Dennis Jonsrud | 009226                |

## References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

# SAMPLE SUMMARY

D9C050252

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| K74KE       | 001            | ISB1796-01              | 02/16/09            | 09:30            |

**NOTE (S) :**

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

# QC DATA ASSOCIATION SUMMARY

D9C050252

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | WATER         | CFR136A 608                  |                          | 9064381                 |                |

## Quality Control Definitions of Qualifiers

| Qualifier | Definition   |
|-----------|--|
| U         | Result is less than the method detection limit (MDL).  |
| B         | Organics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.<br>Inorganics: Estimated result. Result is less than the RL |
| J         | Organics: Estimated result. Result is less than RL<br>Inorganics: Method blank contamination. The associated method blank contains the target analyte at a reportable level.     |
| E         | Estimated result. Result concentrations exceed the calibration range.  |
| p         | Relative Percent Difference (RPD) is outside control limits.   |
| *         | Surrogate or Relative Percent Difference (RPD) is outside control limits.  |
| DIL       | The concentration is estimated or not reported due to dilution.  |
| COL       | More than 40% difference between the primary and confirmation detector results. The lower of the two results is reported.  |
| CHI       | More than 40% difference between the primary and confirmation detector results. The higher of the two results is reported.   |
| L         | Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.   |
| a         | Spiked analyte recovery is outside stated control limits.  |
| N         | Spiked analyte recovery is outside stated control limits.  |
| NC        | The recovery and/or RPD were not calculated.   |
| MSB       | The recovery and/or RPD were not calculated because the sample amount was greater than four times the spike amount.  |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Semivolatile GC

CLP-Like Forms

Lot ID:           D9C050252          

Client:           TestAmerica-Irvine          

Method:           608          

Associated Sample:           001          

Batch:           9064381

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica Irvine

### Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D9C050252  
Matrix: WATER  
% Moisture: N/A  
Basis: Wet  
Analysis Method: 608  
Unit: ug/L  
QC Batch ID: 9064381  
Sample Aliquot: 993 mL  
Dilution Factor: 1

Client Sample ID: ISB1796-01  
Lab Sample ID: D9C050252-001  
Lab WorkOrder: K74KE1AA  
Date/Time Collected: 02/16/09 09:30  
Date/Time Received: 03/05/09 09:15  
Date Leached:  
Date/Time Extracted: 03/05/09 16:00  
Date/Time Analyzed: 03/10/09 16:58  
Instrument ID: P2

| CAS No.  | Analyte   | Conc. | MDL    | RL    | Q     |
|----------|-----------|-------|--------|-------|-------|
| 319-84-6 | alpha-BHC | 0.050 | 0.0053 | 0.050 | U HTV |

| CAS No.   | Surrogate            | % Rec | Lower Limit | Upper Limit | Q |
|-----------|----------------------|-------|-------------|-------------|---|
| 2051-24-3 | Decachlorobiphenyl   | 64    | 32          | 144         |   |
| 877-09-8  | Tetrachloro-m-xylene | 78    | 52          | 117         |   |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica Irvine

### Analysis Data Sheet

Lab Name: TESTAMERICA DENVER  
Lot/SDG Number: D9C050252  
Matrix: WATER  
% Moisture:  
Basis: Wet  
Analysis Method: 608  
Unit: ug/L  
QC Batch ID: 9064381  
Sample Aliquot: 1000 mL  
Dilution Factor: 1

Client Sample ID:  
Lab Sample ID: D9C050000-381B  
Lab WorkOrder: K74R21AA  
Date/Time Collected:  
Date/Time Received:  
Date Leached:  
Date/Time Extracted: 03/05/09 16:00  
Date/Time Analyzed: 03/10/09 17:31  
Instrument ID: P2

| CAS No.  | Analyte   | Conc. | MDL    | RL    | Q |
|----------|-----------|-------|--------|-------|---|
| 319-84-6 | alpha-BHC | 0.050 | 0.0053 | 0.050 | U |

| CAS No.   | Surrogate            | % Rec | Lower Limit | Upper Limit | Q |
|-----------|----------------------|-------|-------------|-------------|---|
| 2051-24-3 | Decachlorobiphenyl   | 97    | 32          | 144         |   |
| 877-09-8  | Tetrachloro-m-xylene | 65    | 52          | 117         |   |



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Irvine

## Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER

Extraction I09DM01

Lot/SDG Number: D9C050252

QC Batch ID: 9064381

| Client ID       | Work Order | SRG1 | SRG2 | SRG3 | SRG4 | SRG5 | SRG6 | SRG7 | SRG8 | TOT OUT |
|-----------------|------------|------|------|------|------|------|------|------|------|---------|
| CHECK SAMPLE    | K74R21AC   | 100  | 55   |      |      |      |      |      |      | 0       |
| DUPLICATE CHECK | K74R21AD   | 102  | 80   |      |      |      |      |      |      | 0       |

| Surrogate Number | Surrogate Name       | Lower Control Limit | Upper Control Limit |
|------------------|----------------------|---------------------|---------------------|
| SRG 1            | Decachlorobiphenyl   | 68                  | 122                 |
| SRG 2            | Tetrachloro-m-xylene | 54                  | 115                 |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Irvine

## Surrogate Recovery Summary

Lab Name: TESTAMERICA DENVER

Extraction I09DM01

Lot/SDG Number: D9C050252

QC Batch ID: 9064381

| Client ID       | Work Order | SRG1 | SRG2 | SRG3 | SRG4 | SRG5 | SRG6 | SRG7 | SRG8 | TOT OUT |
|-----------------|------------|------|------|------|------|------|------|------|------|---------|
| ISB1796-01      | K74KE1AA   | 64   | 78   |      |      |      |      |      |      | 0       |
| INTRA-LAB BLANK | K74R21AA   | 97   | 65   |      |      |      |      |      |      | 0       |

| Surrogate Number | Surrogate Name       | Lower Control Limit | Upper Control Limit |
|------------------|----------------------|---------------------|---------------------|
| SRG 1            | Decachlorobiphenyl   | 32                  | 144                 |
| SRG 2            | Tetrachloro-m-xylene | 52                  | 117                 |

**TestAmerica Irvine**

**Analysis Data Sheet**

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9C050252  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 608  
**Unit:** ug/L  
**QC Batch ID:** 9064381  
**Sample Aliquot:** 1000 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9C050000-381C  
**Lab WorkOrder:** K74R21AC  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 03/05/09 16:00  
**Date/Time Analyzed:** 03/10/09 15:02  
**Instrument ID:** P2

| Analyte   | True  | Found | %Rec | Q | Limits   |
|-----------|-------|-------|------|---|----------|
| alpha-BHC | 0.500 | 0.479 | 96   |   | 66 - 115 |

| CAS No.   | Surrogate            | % Rec | Lower Limit | Upper Limit | Q |
|-----------|----------------------|-------|-------------|-------------|---|
| 2051-24-3 | Decachlorobiphenyl   | 100   | 68          | 122         |   |
| 877-09-8  | Tetrachloro-m-xylene | 55    | 54          | 115         |   |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica Irvine

### Analysis Data Sheet

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9C050252  
**Matrix:** WATER  
**% Moisture:** N/A  
**Basis:** Wet  
**Analysis Method:** 608  
**Unit:** ug/L  
**QC Batch ID:** 9064381  
**Sample Aliquot:** 1000 mL  
**Dilution Factor:** 1

**Client Sample ID:**  
**Lab Sample ID:** D9C050000-381L  
**Lab WorkOrder:** K74R21AD  
**Date/Time Collected:**  
**Date/Time Received:**  
**Date Leached:**  
**Date/Time Extracted:** 03/05/09 16:00  
**Date/Time Analyzed:** 03/10/09 15:19  
**Instrument ID:** P2

| Analyte   | True  | Found | C | % Rec | Q | RPD | Q | QC Limits |     |
|-----------|-------|-------|---|-------|---|-----|---|-----------|-----|
|           |       |       |   |       |   |     |   | % Rec     | RPD |
| alpha-BHC | 0.500 | 0.514 |   | 103   |   | 6.9 |   | 66 - 115  | 50  |

| CAS No.   | Surrogate            | % Rec | Lower Limit | Upper Limit | Q |
|-----------|----------------------|-------|-------------|-------------|---|
| 2051-24-3 | Decachlorobiphenyl   | 102   | 68          | 122         |   |
| 877-09-8  | Tetrachloro-m-xylene | 80    | 54          | 115         |   |

## TestAmerica Irvine

### Method Blank Summary

**Lab Name:** TESTAMERICA DENVER  
**Lot/SDG Number:** D9C050252  
**Matrix:** WATER  
**Analysis Method:** 608  
**Extraction Method:** I09DM01  
**QC Batch ID:** 9064381

**Lab File ID:** 025F2501.  
**Lab Sample ID:** D9C050000-381B  
**Lab Work Order:** K74R21AA  
**Date/Time Extracted:** 03/05/09 16:00  
**Date/Time Analyzed:** 03/10/09 17:31  
**Instrument ID:** P2

| Client ID       | Sample Work Order # | Lab File ID | Date Analyzed | Time Analyzed |
|-----------------|---------------------|-------------|---------------|---------------|
| ISB1796-01      | K74KE1AA            | 025F2501.   | 03/10/09      | 16:58         |
| CHECK SAMPLE    | K74R21AC C          | 018F1801.   | 03/10/09      | 15:02         |
| DUPLICATE CHECK | K74R21AD L          | 019F1901.   | 03/10/09      | 15:19         |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\P2\_8081\_1.m  
 Last Edit : 02-Mar-2009 07:44 GC\_P2.i

Calibration File Names:  
 Level 1: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\016F1601.D  
 Level 2: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\015F1501.D  
 Level 3: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\014F1401.D  
 Level 4: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\020F2001.D  
 Level 5: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\012F1201.D  
 Level 6: \\DensVr03\Public\chem\GCS\GC\_P2.i\0301091.b\011F1101.D

SEE CALIBRATION HISTORY

| Compound                 | Level  |         |         |         |         |          | Curve | b          | Coefficients |            | %RSD<br>or R <sup>2</sup> |
|--------------------------|--------|---------|---------|---------|---------|----------|-------|------------|--------------|------------|---------------------------|
|                          | 1      | 2       | 3       | 4       | 5       | 6        |       |            | m1           | m2         |                           |
| 1 Trichlorophenol        | 4.0000 | 10.0000 | 25.0000 | 50.0000 | 75.0000 | 100.0000 | LNLR  | 0.000e+000 | 0.000e+000   | 0.000e+000 | <-                        |
| 3 Hexachlorobenzene      | 134212 | 315320  | 749989  | 1505326 | 2221704 | 2926219  | WLINR | -0.57439   | 29460        | 0.99986    |                           |
| 4 Diallate               | 452507 | 845506  | 1940628 | 2669939 | 3729395 | 7240854  | WLINR | -125       | 732          | 0.99939    |                           |
| 5 alpha-BHC              | 38459  | 38449   | 38020   | 39276   | 39235   | 39397    | AVRG  |            | 38806        | 1.46700    |                           |
| 6 gamma-BHC (Lindane)    | 34186  | 33968   | 33253   | 34123   | 33802   | 33855    | AVRG  |            | 33864        | 0.98721    |                           |
| 7 beta-BHC               | 64946  | 153688  | 361787  | 739364  | 1091642 | 1450446  | WLINR | -0.49998   | 14467        | 0.99980    |                           |
| 8 delta-BHC              | 32342  | 32379   | 32216   | 33576   | 33776   | 34028    | AVRG  |            | 33053        | 2.49793    |                           |
| 9 Technical Chlordane(1) | +++++  | +++++   | +++++   | 62955   | +++++   | +++++    | LNLR  | 0.000e+000 | 1259         | 1.00000    |                           |
| (2)                      | +++++  | +++++   | +++++   | 58110   | +++++   | +++++    | LNLR  | 0.000e+000 | 1162         | 1.00000    |                           |
| (3)                      | +++++  | +++++   | +++++   | 189044  | +++++   | +++++    | LNLR  | 0.000e+000 | 3781         | 1.00000    |                           |
| (4)                      | +++++  | +++++   | +++++   | 163060  | +++++   | +++++    | LNLR  | 0.000e+000 | 3261         | 1.00000    |                           |
| (5)                      | +++++  | +++++   | +++++   | 45998   | +++++   | +++++    | LNLR  | 0.000e+000 | 920          | 1.00000    |                           |
| 10 Heptachlor            | 32819  | 31807   | 30648   | 30887   | 30142   | 29637    | AVRG  |            | 30990        | 3.73206    |                           |
| 11 Aldrin                | 32264  | 31523   | 30597   | 30799   | 30099   | 29915    | AVRG  |            | 30866        | 2.88235    |                           |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\DensVr03\Public\chem\GCS\GC\_P2.1\0301091.b\P2\_8081\_1.m  
 Last Edit : 02-Mar-2009 07:44 GC\_P2.1

| Compound              | Level  |         |         |         |         |          | Curve | b          | Coefficients |            | RSD     |
|-----------------------|--------|---------|---------|---------|---------|----------|-------|------------|--------------|------------|---------|
|                       | 1      | 2       | 3       | 4       | 5       | 6        |       |            | m1           | m2         |         |
| 12 Chlorpyrifos       | 4.0000 | 10.0000 | 25.0000 | 50.0000 | 75.0000 | 100.0000 | QUAD  | 0.27386    | 0.00007      | 8.164e-012 | 1.00000 |
| 13 Isodrin            | 350928 | 683789  | 1548966 | 2071965 | 2772389 | 4714063  | QUAD  | 1.69109    | 0.00003      | 1.249e-012 | 1.00000 |
| 14 Dicofof            | 160063 | 330772  | 746171  | 976783  | 1260428 | 1927426  | QUAD  | 25.57394   | 0.00015      | 1.812e-010 | 0.99970 |
| 15 2,4'-DDE           | 99724  | 208446  | 503473  | 686252  | 947908  | 1746614  | QUAD  | 0.10517    | 0.00005      | 5.968e-012 | 0.99998 |
| 16 Heptachlor epoxide | 123604 | 293941  | 699497  | 1395171 | 2035527 | 2672820  | WLINR | -0.58077   | 27207        |            | 0.99958 |
| 17 Toxaphene (1)      | +++++  | +++++   | +++++   | 37454   | +++++   | +++++    | WLINR | 0.000e+000 | 187          |            | 1.00000 |
| (2)                   | +++++  | +++++   | +++++   | 83236   | +++++   | +++++    | WLINR | 0.000e+000 | 416          |            | 1.00000 |
| (3)                   | +++++  | +++++   | +++++   | 74322   | +++++   | +++++    | WLINR | 0.000e+000 | 372          |            | 1.00000 |
| (4)                   | +++++  | +++++   | +++++   | 113409  | +++++   | +++++    | WLINR | 0.000e+000 | 567          |            | 1.00000 |
| (5)                   | +++++  | +++++   | +++++   | 75900   | +++++   | +++++    | WLINR | 0.000e+000 | 380          |            | 1.00000 |
| 18 gamma-Chlordane    | 30402  | 29092   | 28013   | 28316   | 27804   | 27693    | AVRG  |            | 28552        |            | 3.63098 |
| 19 alpha-Chlordane    | 28848  | 27699   | 26588   | 27234   | 26574   | 26290    | AVRG  |            | 27205        |            | 3.51053 |
| 20 4,4'-DDE           | 27474  | 26840   | 26695   | 27107   | 26744   | 26723    | AVRG  |            | 26930        |            | 1.13654 |
| 21 Endosulfan I       | 117230 | 280359  | 661338  | 1317755 | 1916121 | 2498492  | WLINR | -0.62477   | 25635        |            | 0.99926 |
| 22 2,4'-DDD           | 79151  | 163486  | 637166  | 843010  | 1098901 | 1801327  | QUAD  | 4.30310    | 0.00002      | 1.708e-011 | 0.99926 |
| 23 Dieldrin           | 30507  | 29301   | 28409   | 28695   | 28027   | 27690    | AVRG  |            | 28771        |            | 3.52917 |
| 24 2,4'-DDT           | 97562  | 200953  | 492254  | 689423  | 953494  | 1721521  | QUAD  | 0.70716    | 0.00004      | 7.480e-012 | 0.99996 |
| 25 Endrin             | 24260  | 23722   | 23442   | 24116   | 24161   | 24029    | AVRG  |            | 23955        |            | 1.29923 |
| 26 Kepone             | 160651 | 324739  | 1183455 | 1896076 | 2844971 | 5317429  | QUAD  | 43.06482   | 0.00015      | 5.356e-012 | 0.99826 |
| 27 4,4'-DDD           | 137155 | 279223  | 648213  | 1286302 | 1856127 | 2521035  | WLINR | -1.55985   | 24543        |            | 0.99971 |
| 28 Chlorobenzilate    | 149139 | 273074  | 565347  | 755461  | 1000452 | 1674856  | QUAD  | -9.75273   | 0.00038      | 1.359e-010 | 0.99995 |
| 29 Endosulfan II      | 102488 | 248724  | 596285  | 1203007 | 1752072 | 2295364  | WLINR | -0.40663   | 23438        |            | 0.99956 |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcom  
 Method file : \\Densvtr03\Public\chem\GCS\GC\_P2.1\0301091.b\P2\_8081\_1.m  
 Last Edit : 02-Mar-2009 07:44 GC\_P2.1

| Compound               | Level   |         |         |         |         |          | Curve | b        | Coefficients |            | %RSD<br>or R <sup>2</sup> |
|------------------------|---------|---------|---------|---------|---------|----------|-------|----------|--------------|------------|---------------------------|
|                        | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6  |       |          | m1           | m2         |                           |
| 30 4,4'-DDT            | 82551   | 205047  | 526359  | 1105132 | 1657077 | 2227471  | WLINR | 0.29983  | 21930        |            | 0.99916                   |
| 31 Endrin aldehyde     | 96914   | 223803  | 525128  | 1029199 | 1489190 | 1947693  | QUAD  | -0.56811 | 0.00005      | 2.404e-012 | 0.99997                   |
| 32 Methoxychlor        | 11482   | 11268   | 11154   | 11115   | 11012   | 11192    | AVRG  |          | 11204        |            | 1.43337                   |
| 33 Mirex               | 97660   | 200201  | 455139  | 897482  | 1287876 | 1719278  | WLINR | -1.74445 | 17017        |            | 0.99981                   |
| 34 Endosulfan sulfate  | 112639  | 253268  | 591334  | 1139393 | 1681628 | 2253569  | WLINR | -1.05912 | 22435        |            | 0.99970                   |
| 35 Endrin ketone       | 118411  | 270453  | 644910  | 1279736 | 1862603 | 2440068  | WLINR | -0.80117 | 24783        |            | 0.99967                   |
| 37 DBPP                | 96294   | 296009  | 1936888 | 3720684 | 7180029 | 23674613 | QUAD  | 389      | 0.00036      | -7.134e-01 | 0.99386                   |
| 2 Tetrachloro-m-xylene | 121420  | 291360  | 695888  | 1395983 | 2055736 | 2714066  | WLINR | -0.45887 | 27395        |            | 0.99980                   |
| 36 Decachlorobiphenyl  | 90065   | 205722  | 483578  | 959339  | 1395732 | 1829166  | WLINR | -0.88308 | 18573        |            | 0.99960                   |



TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\DensVr03\Public\chem\GCS\GC\_P2.1\0301091.b\P2\_8081\_1.m  
 Last Edit : 02-Mar-2009 07:44 GC\_P2.1

| Curve     | Formula                       | Units    |
|-----------|-------------------------------|----------|
| Averaged  | Amt = Resp/ml                 | Response |
| Linear    | Amt = b + Resp/ml             | Response |
| Wt Linear | Amt = b + Resp/ml             | Response |
| Quad      | Amt = b + m1*Resp + m2*Resp^2 | Response |

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\P2\_8081\_1.m  
 Start Cal Date: 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Last Cal Level: 4  
 Last Cal Type : Initial Calibration

Initial Calibration

| Injection Date                       | Sublist     | Calibration File  |
|--------------------------------------|-------------|---|
| Cal Level: 1 , Cal Amount: 4.00000   |             |   |
| 01-MAR-2009 19:55                    | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\016F1601.D |
| 01-MAR-2009 17:59                    | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\009F0901.D |
| Cal Level: 2 , Cal Amount: 10.00000  |             |   |
| 01-MAR-2009 19:39                    | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\015F1501.D |
| 01-MAR-2009 17:43                    | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\008F0801.D |
| Cal Level: 3 , Cal Amount: 25.00000  |             |   |
| 01-MAR-2009 19:22                    | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\014F1401.D |
| 01-MAR-2009 17:26                    | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\007F0701.D |
| Cal Level: 4 , Cal Amount: 50.00000  |             |   |
| 01-MAR-2009 21:01                    | 4-CHLORDANE | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\020F2001.D |
| 01-MAR-2009 20:28                    | 3-TOXAPHENE | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\018F1801.D |
| 01-MAR-2009 19:06                    | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\013F1301.D |
| 01-MAR-2009 17:10                    | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\006F0601.D |
| Cal Level: 5 , Cal Amount: 75.00000  |             |   |
| 01-MAR-2009 18:49                    | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\012F1201.D |
| 01-MAR-2009 16:53                    | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301091.b\005F0501.D |
| Cal Level: 6 , Cal Amount: 100.00000 |             |   |

-----  
01-MAR-2009 18:33 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\011F1101.D  
01-MAR-2009 16:37 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\004F0401.D  
-----

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 3

-----  
01-MAR-2009 20:45 |3-TOXAPHENE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\019F1901.D  
01-MAR-2009 20:12 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\017F1701.D  
01-MAR-2009 19:22 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\014F1401.D  
01-MAR-2009 18:16 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\010F1001.D  
01-MAR-2009 17:26 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\007F0701.D  
01-MAR-2009 15:47 |EVALB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\002F0201.D  
01-MAR-2009 21:01 |4-CHLORDANE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\020F2001.D  
01-MAR-2009 20:28 |3-TOXAPHENE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\018F1801.D  
01-MAR-2009 19:06 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\013F1301.D  
01-MAR-2009 17:10 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\006F0601.D  
-----

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\P2\_8081\_2.m  
 Last Edit : 02-Mar-2009 08:24 GC\_P2.i

Calibration File Names:  
 Level 1: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\016F1601.D  
 Level 2: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\015F1501.D  
 Level 3: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\014F1401.D  
 Level 4: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\020F2001.D  
 Level 5: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\012F1201.D  
 Level 6: \\DensSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\011F1101.D

SEE CALIBRATION HISTORY

| Compound                  | Level   |         |         |         |         |          | Curve | b          | Coefficients |            | OR R <sup>2</sup> |
|---------------------------|---------|---------|---------|---------|---------|----------|-------|------------|--------------|------------|-------------------|
|                           | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6  |       |            | m1           | m2         |                   |
| 1 2,4,5-Trichlorophenol   | ++++    | ++++    | ++++    | ++++    | ++++    | ++++     | AVRG  | 0.000e+000 |              | 0.000e+000 |                   |
| 3 Diallylate              | 712210  | 1334778 | 3112429 | 4310489 | 6072249 | 12317513 | WLNLR | -92.86073  | 1206         | 0.99982    |                   |
| 4 Hexachlorobenzene       | 213764  | 492577  | 1138641 | 2289049 | 3394245 | 4523119  | WLNLR | -0.78333   | 44885        | 0.99980    |                   |
| 5 alpha-BHC               | 60544   | 59240   | 57972   | 59968   | 60170   | 60663    | AVRG  |            | 59760        | 1.69146    |                   |
| 6 gamma-BHC (Lindane)     | 53707   | 51580   | 50085   | 51578   | 51242   | 51763    | AVRG  |            | 51659        | 2.26906    |                   |
| 7 beta-BHC                | 110502  | 251624  | 573890  | 1140848 | 1675716 | 2224461  | WLNLR | -1.01027   | 22240        | 0.99963    |                   |
| 8 Technical Chlordane (1) | ++++    | ++++    | ++++    | 100414  | ++++    | ++++     | LINR  | 0.000e+000 | 2008         | 1.00000    |                   |
| (2)                       | ++++    | ++++    | ++++    | 91398   | ++++    | ++++     | LINR  | 0.000e+000 | 1828         | 1.00000    |                   |
| (3)                       | ++++    | ++++    | ++++    | 302374  | ++++    | ++++     | LINR  | 0.000e+000 | 6047         | 1.00000    |                   |
| (4)                       | ++++    | ++++    | ++++    | 250222  | ++++    | ++++     | LINR  | 0.000e+000 | 5004         | 1.00000    |                   |
| (5)                       | ++++    | ++++    | ++++    | 81023   | ++++    | ++++     | LINR  | 0.000e+000 | 1620         | 1.00000    |                   |
| 9 delta-BHC               | 49732   | 48447   | 48041   | 50010   | 50454   | 51352    | AVRG  |            | 49672        | 2.50009    |                   |
| 10 Heptachlor             | 211681  | 495049  | 1173814 | 2360989 | 3459895 | 4556908  | WLNLR | -0.62520   | 45979        | 0.99980    |                   |
| 11 Aldrin                 | 49516   | 47857   | 45931   | 46580   | 45641   | 45306    | AVRG  |            | 46805        | 3.42837    |                   |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Densvtr03\Public\chem\GCS\GC\_P2.1\0301092.b\P2\_8081\_2.m  
 Last Edit : 02-Mar-2009 08:24 GC\_P2.1

| Compound              | Level   |         |         |         |         |          | Curve | b          | Coefficients |            | RSD<br>or R <sup>2</sup> |
|-----------------------|---------|---------|---------|---------|---------|----------|-------|------------|--------------|------------|--------------------------|
|                       | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6  |       |            | m1           | m2         |                          |
| 12 Chlorpyrifos       | 4.0000  | 10.0000 | 25.0000 | 50.0000 | 75.0000 | 100.0000 | QUAD  | -2.03175   | 0.00005      | 3.233e-012 | 0.99999                  |
| 13 Dicofol            | 559417  | 1065732 | 2359366 | 3145763 | 4231680 | 7234064  | QUAD  | 38.40601   | 0.00027      | 6.925e-011 | 0.99886                  |
| 14 Isodrin            | 71336   | 215694  | 629783  | 917497  | 1330504 | 2254256  | QUAD  | -2.63196   | 0.00002      | 5.125e-013 | 0.99998                  |
| 15 Toxaphene (1)      | 1238821 | 2400688 | 5423062 | 7192163 | 9710358 | 16956012 | QUAD  | 0.000e+000 | 449          | 1.00000    | 1.00000                  |
| (2)                   | +++++   | +++++   | +++++   | 89894   | +++++   | +++++    | LINR  | 0.000e+000 | 390          | 1.00000    | 1.00000                  |
| (3)                   | +++++   | +++++   | +++++   | 78025   | +++++   | +++++    | LINR  | 0.000e+000 | 480          | 1.00000    | 1.00000                  |
| (4)                   | +++++   | +++++   | +++++   | 96086   | +++++   | +++++    | LINR  | 0.000e+000 | 554          | 1.00000    | 1.00000                  |
| (5)                   | +++++   | +++++   | +++++   | 110827  | +++++   | +++++    | LINR  | 0.000e+000 | 633          | 1.00000    | 1.00000                  |
| 16 Heptachlor epoxide | 191128  | 452003  | 1059220 | 2125117 | 3095403 | 4081431  | LINR  | -0.66218   | 41356        | 0.99985    | 0.99985                  |
| 17 gamma-Chlordane    | 200020  | 464122  | 1089835 | 2197088 | 3229351 | 4293745  | LINR  | -0.68146   | 42884        | 0.99981    | 0.99981                  |
| 18 2,4'-DDE           | 175306  | 343282  | 785376  | 1023189 | 1443698 | 2646810  | QUAD  | -1.01796   | 0.00003      | 2.278e-012 | 0.99985                  |
| 19 alpha-Chlordane    | 189561  | 441501  | 1038165 | 2095612 | 3085552 | 4107476  | LINR  | -0.64254   | 40968        | 0.99945    | 0.99945                  |
| 20 Endosulfan I       | 184494  | 427123  | 989194  | 1959830 | 2862393 | 3761446  | LINR  | -0.88732   | 38132        | 0.99975    | 0.99975                  |
| 21 4,4'-DDE           | 195722  | 453978  | 1080819 | 2180777 | 3169013 | 4296001  | LINR  | -0.61627   | 42608        | 0.99971    | 0.99971                  |
| 22 Dieldrin           | 199363  | 468494  | 1105277 | 2219801 | 3241846 | 4277166  | QUAD  | -0.64339   | 43215        | 0.99996    | 0.99996                  |
| 23 2,4'-DDD           | 153389  | 297754  | 665450  | 888613  | 1226356 | 2198937  | QUAD  | -0.85966   | 0.00004      | 4.447e-012 | 0.99996                  |
| 24 Endrin             | 31182   | 33769   | 33367   | 35630   | 35753   | 35363    | AVRG  |            | 34511        | 3.46392    | 3.46392                  |
| 25 Chlorobenzilate    | 154364  | 300710  | 660190  | 875594  | 1204126 | 2128935  | QUAD  | -9.30429   | 0.00036      | 5.406e-011 | 0.99994                  |
| 26 2,4'-DDT           | 162025  | 326831  | 760113  | 1024778 | 1418747 | 2513141  | QUAD  | 0.01063    | 0.00003      | 3.974e-012 | 0.99997                  |
| 27 Kepone             | 213845  | 483266  | 1859824 | 2970372 | 4571877 | 8715841  | QUAD  | 46.40949   | 0.00010      | 1.465e-012 | 0.99827                  |
| 28 4,4'-DDD           | 181299  | 402538  | 924690  | 1844450 | 2795929 | 3818646  | QUAD  | -1.46557   | 0.00003      | -6.972e-01 | 0.99988                  |
| 29 Endosulfan II      | 186979  | 427156  | 970685  | 1927505 | 2765029 | 3616141  | LINR  | -2.05456   | 35796        | 0.99931    | 0.99931                  |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\Densvtr03\Public\chem\GCS\GC\_P2.1\0301092.b\P2\_8081\_2.m  
 Last Edit : 02-Mar-2009 08:24 GC\_P2.1

| Compound                  | Level   |         |         |         |         |          | Curve | b        | Coefficients |            | RSD<br>or R <sup>2</sup> |
|---------------------------|---------|---------|---------|---------|---------|----------|-------|----------|--------------|------------|--------------------------|
|                           | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6  |       |          | m1           | m2         |                          |
| 30 4,4'-DDT               | 4.0000  | 10.0000 | 25.0000 | 50.0000 | 75.0000 | 100.0000 | QUAD  | 0.70547  | 0.00003      | -7.466e-01 | 0.99993                  |
| 31 Endrin aldehyde        | 110541  | 278483  | 728730  | 1545071 | 2372591 | 3222783  | WLNLR | -1.22241 | 30267        |            | 0.99909                  |
| 32 Endosulfan sulfate     | 156234  | 350233  | 805518  | 1567524 | 2266712 | 2966322  | WLNLR | -0.92237 | 33302        |            | 0.99990                  |
| 33 Methoxychlor           | 163198  | 368383  | 864350  | 1703090 | 2509219 | 3338095  | WLNLR | -0.03067 | 14581        |            | 0.99923                  |
| 34 Mirex                  | 59763   | 146502  | 362126  | 730312  | 1134793 | 1407604  | WLNLR | -1.15710 | 24879        |            | 0.99939                  |
| 35 Endrin ketone          | 126902  | 286766  | 652009  | 1278590 | 1872856 | 2466671  | WLNLR | -0.79820 | 35643        |            | 0.99958                  |
| 37 DBPP                   | 169539  | 394610  | 918686  | 1832081 | 2672237 | 3525738  | WLNLR | 500      | 0.00046      | -1.138e-01 | 0.98528                  |
|                           | 35245   | 112680  | 108689  | 2407860 | 5522718 | 22788630 | QUAD  |          |              |            |                          |
| \$ 2 Tetrachloro-m-xylene | 193068  | 454558  | 1072973 | 2159055 | 3185308 | 4218632  | WLNLR | -0.58614 | 42293        |            | 0.99985                  |
| \$ 36 Decachlorobiphenyl  | 128324  | 297912  | 684299  | 1350491 | 1982111 | 2607533  | WLNLR | -0.92004 | 26383        |            | 0.99938                  |

TestAmerica

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Quant Method : ESTD  
 Target Version : 4.14  
 Integrator : FALCON  
 Method file : \\DensVr03\Public\chem\GCS\GC\_P2.1\0301092.b\P2\_8081\_2.m  
 Last Edit : 02-Mar-2009 08:24 GC\_P2.1

| Curve     | Formula                     | Units    |
|-----------|-----------------------------|----------|
| Averaged  | Amt = Rsp/ml                | Response |
| Linear    | Amt = b + Rsp/ml            | Response |
| Wt Linear | Amt = b + Rsp/ml            | Response |
| Quad      | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

Calibration History

Method : \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\P2\_8081\_2.m  
 Start Cal Date: 01-MAR-2009 16:37  
 End Cal Date : 01-MAR-2009 21:01  
 Last Cal Level: 4  
 Last Cal Type : Initial Calibration

Initial Calibration

| Injection Date                      | Sublist     | Calibration File  |
|-------------------------------------|-------------|---|
| Cal Level: 1 , Cal Amount: 4.00000  |             |   |
| 01-MAR-2009 19:55                   | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\016F1601.D |
| 01-MAR-2009 17:59                   | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\009F0901.D |
| Cal Level: 2 , Cal Amount: 10.00000 |             |   |
| 01-MAR-2009 19:39                   | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\015F1501.D |
| 01-MAR-2009 17:43                   | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\008F0801.D |
| Cal Level: 3 , Cal Amount: 25.00000 |             |   |
| 01-MAR-2009 19:22                   | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\014F1401.D |
| 01-MAR-2009 17:26                   | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\007F0701.D |
| Cal Level: 4 , Cal Amount: 50.00000 |             |   |
| 01-MAR-2009 21:01                   | 4-CHLORDANE | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\020F2001.D |
| 01-MAR-2009 20:28                   | 3-TOXAPHENE | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\018F1801.D |
| 01-MAR-2009 19:06                   | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\013F1301.D |
| 01-MAR-2009 17:10                   | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\006F0601.D |
| Cal Level: 5 , Cal Amount: 75.00000 |             |   |
| 01-MAR-2009 18:49                   | 1-INDAB     | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\012F1201.D |
| 01-MAR-2009 16:53                   | 2-AP9       | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\005F0501.D |
| 01-MAR-2009 16:53                   | 1-ALLCOMP   | \\DenSvr03\Public\chem\GCS\GC_P2.i\0301092.b\005F0501.D |



Cal Level: 6 , Cal Amount: 100.00000

01-MAR-2009 18:33 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\011F1101.D  
01-MAR-2009 16:37 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\004F0401.D

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 4

01-MAR-2009 20:45 |3-TOXAPHENE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\019F1901.D  
01-MAR-2009 20:12 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\017F1701.D  
01-MAR-2009 19:22 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\014F1401.D  
01-MAR-2009 18:16 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\010F1001.D  
01-MAR-2009 17:26 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\007F0701.D  
01-MAR-2009 15:47 |EVALB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\002F0201.D  
01-MAR-2009 21:01 |4-CHLORDANE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\020F2001.D  
01-MAR-2009 20:28 |3-TOXAPHENE  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\018F1801.D  
01-MAR-2009 19:06 |1-INDAB  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\013F1301.D  
01-MAR-2009 17:10 |2-AP9  
\\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\006F0601.D

Data File: \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\017F1701.D  
Report Date: 03/02/2009

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
Lab File ID: 017F1701.D  
Analysis Type: NONE

Injection Date: 01-MAR-2009 20:12  
Lab Sample ID: AB SS GSV082908  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED | MEASURED | %D  | MAX  |
|-------------------------|----------|----------|-----|------|
|                         | CONC.    | CONC.    |     | %D   |
| 24 Tetrachloro-m-xylene | 25.0000  | 26.6715  | 6.7 | 15.0 |
| 136 Hexachlorobenzene   | 25.0000  | 26.2887  | 5.2 | 15.0 |
| 2 alpha-BHC             | 25.0000  | 25.8249  | 3.3 | 15.0 |
| 5 gamma-BHC (Lindane)   | 25.0000  | 25.9133  | 3.7 | 15.0 |
| 2 beta-BHC              | 25.0000  | 26.0560  | 4.2 | 15.0 |
| 4 delta-BHC             | 25.0000  | 25.3089  | 1.2 | 15.0 |
| 122 Heptachlor          | 25.0000  | 26.3541  | 5.4 | 15.0 |
| 1 Aldrin                | 25.0000  | 25.8074  | 3.2 | 15.0 |
| 19 Heptachlor epoxide   | 25.0000  | 26.5342  | 6.1 | 15.0 |
| 7 gamma-Chlordane       | 25.0000  | 26.0019  | 4.0 | 15.0 |
| 6 alpha-Chlordane       | 25.0000  | 25.6440  | 2.6 | 15.0 |
| 9 4,4'-DDE              | 25.0000  | 25.9259  | 3.7 | 15.0 |
| 12 Endosulfan I         | 25.0000  | 26.6079  | 6.4 | 15.0 |
| 11 Dieldrin             | 25.0000  | 26.1638  | 4.7 | 15.0 |
| 15 Endrin               | 25.0000  | 26.0263  | 4.1 | 15.0 |
| 8 4,4'-DDD              | 25.0000  | 23.9857  | 4.1 | 15.0 |
| 13 Endosulfan II        | 25.0000  | 26.0986  | 4.4 | 15.0 |
| 10 4,4'-DDT             | 25.0000  | 26.1193  | 4.5 | 15.0 |
| 16 Endrin aldehyde      | 25.0000  | 24.0274  | 3.9 | 15.0 |
| 21 Methoxychlor         | 25.0000  | 26.2579  | 5.0 | 15.0 |
| 22 Mirex                | 25.0000  | 26.0332  | 4.1 | 15.0 |
| 14 Endosulfan sulfate   | 25.0000  | 25.4856  | 1.9 | 15.0 |
| 17 Endrin ketone        | 25.0000  | 26.0827  | 4.3 | 15.0 |
| 23 Decachlorobiphenyl   | 25.0000  | 26.2971  | 5.2 | 15.0 |

Average %D = 4.25

Data File: \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\017F1701.D  
Report Date: 03/02/2009

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
Lab File ID: 017F1701.D  
Analysis Type: NONE

Injection Date: 01-MAR-2009 20:12  
Lab Sample ID: AB SS GSV082908  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED | MEASURED | %D  | MAX  |
|-------------------------|----------|----------|-----|------|
|                         | CONC.    | CONC.    |     | %D   |
| 24 Tetrachloro-m-xylene | 25.0000  | 26.5358  | 6.1 | 15.0 |
| 133 Hexachlorobenzene   | 25.0000  | 26.3797  | 5.5 | 15.0 |
| 2 alpha-BHC             | 25.0000  | 25.5723  | 2.3 | 15.0 |
| 5 gamma-BHC (Lindane)   | 25.0000  | 25.6090  | 2.4 | 15.0 |
| 2 beta-BHC              | 25.0000  | 26.6125  | 6.4 | 15.0 |
| 4 delta-BHC             | 25.0000  | 24.9768  | 0.1 | 15.0 |
| 122 Heptachlor          | 25.0000  | 26.8235  | 7.3 | 15.0 |
| 1 Aldrin                | 25.0000  | 25.7949  | 3.2 | 15.0 |
| 19 Heptachlor epoxide   | 25.0000  | 26.3967  | 5.6 | 15.0 |
| 7 gamma-Chlordane       | 25.0000  | 26.2987  | 5.2 | 15.0 |
| 6 alpha-Chlordane       | 25.0000  | 26.0112  | 4.0 | 15.0 |
| 12 Endosulfan I         | 25.0000  | 26.4247  | 5.7 | 15.0 |
| 9 4,4'-DDE              | 25.0000  | 26.1846  | 4.7 | 15.0 |
| 11 Dieldrin             | 25.0000  | 26.4992  | 6.0 | 15.0 |
| 15 Endrin               | 25.0000  | 26.0572  | 4.2 | 15.0 |
| 8 4,4'-DDD              | 25.0000  | 24.3925  | 2.4 | 15.0 |
| 13 Endosulfan II        | 25.0000  | 26.2839  | 5.1 | 15.0 |
| 10 4,4'-DDT             | 25.0000  | 26.5759  | 6.3 | 15.0 |
| 16 Endrin aldehyde      | 25.0000  | 24.3172  | 2.7 | 15.0 |
| 14 Endosulfan sulfate   | 25.0000  | 25.9608  | 3.8 | 15.0 |
| 21 Methoxychlor         | 25.0000  | 27.0792  | 8.3 | 15.0 |
| 22 Mirex                | 25.0000  | 25.9247  | 3.7 | 15.0 |
| 17 Endrin ketone        | 25.0000  | 25.6481  | 2.6 | 15.0 |
| 23 Decachlorobiphenyl   | 25.0000  | 26.0613  | 4.2 | 15.0 |

Average %D = 4.51

Data File: \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301091.b\019F1901.D  
Report Date: 03/02/2009

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC P2.i  
Lab File ID: 019F1901.D  
Analysis Type: NONE

Injection Date: 01-MAR-2009 20:45  
Lab Sample ID: TOX SS GSV171708  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND      | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D    | MAX<br>%D |
|---------------|-------------------|-------------------|-------|-----------|
| -----         | -----             | -----             | ----- | -----     |
| 108 Toxaphene | 200.0000          | 212.6800          | 6.3   | 15.0      |

Average %D = 6.34

Data File: \\DenSvr03\Public\chem\GCS\GC\_P2.i\0301092.b\019F1901.D  
Report Date: 03/02/2009

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
Lab File ID: 019F1901.D  
Analysis Type: NONE

Injection Date: 01-MAR-2009 20:45  
Lab Sample ID: TOX SS GSV171708  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND      | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D  | MAX<br>%D |
|---------------|-------------------|-------------------|-----|-----------|
| 108 Toxaphene | 200.0000          | 211.1308          | 5.6 | 15.0      |

Average %D = 5.56

CONTINUING CALIBRATION COMPOUNDS  
 PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
 Lab File ID: 016F1601.D  
 Analysis Type: NONE

Injection Date: 10-MAR-2009 14:29  
 Lab Sample ID: AB L4 GSV169908  
 Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D  | MAX<br>%D |
|-------------------------|-------------------|-------------------|-----|-----------|
| 24 Tetrachloro-m-xylene | 50.0000           | 53.5358           | 7.1 | 15.0      |
| 136 Hexachlorobenzene   | 50.0000           | 53.0923           | 6.2 | 15.0      |
| 2 alpha-BHC             | 50.0000           | 54.0570           | 8.1 | 15.0      |
| 5 gamma-BHC (Lindane)   | 50.0000           | 53.6627           | 7.3 | 15.0      |
| 2 beta-BHC              | 50.0000           | 53.6176           | 7.2 | 15.0      |
| 4 delta-BHC             | 50.0000           | 53.6654           | 7.3 | 15.0      |
| 122 Heptachlor          | 50.0000           | 51.3039           | 2.6 | 15.0      |
| 1 Aldrin                | 50.0000           | 53.5924           | 7.2 | 15.0      |
| 19 Heptachlor epoxide   | 50.0000           | 54.0939           | 8.2 | 15.0      |
| 7 gamma-Chlordane       | 50.0000           | 53.3481           | 6.7 | 15.0      |
| 6 alpha-Chlordane       | 50.0000           | 52.7336           | 5.5 | 15.0      |
| 9 4,4'-DDE              | 50.0000           | 52.5718           | 5.1 | 15.0      |
| 12 Endosulfan I         | 50.0000           | 53.7431           | 7.5 | 15.0      |
| 11 Dieldrin             | 50.0000           | 53.3298           | 6.7 | 15.0      |
| 15 Endrin               | 50.0000           | 52.7587           | 5.5 | 15.0      |
| 8 4,4'-DDD              | 50.0000           | 52.3191           | 4.6 | 15.0      |
| 13 Endosulfan II        | 50.0000           | 52.6290           | 5.3 | 15.0      |
| 10 4,4'-DDT             | 50.0000           | 47.9802           | 4.0 | 15.0      |
| 16 Endrin aldehyde      | 50.0000           | 50.8610           | 1.7 | 15.0      |
| 21 Methoxychlor         | 50.0000           | 49.8222           | 0.4 | 15.0      |
| 22 Mirex                | 50.0000           | 53.0556           | 6.1 | 15.0      |
| 14 Endosulfan sulfate   | 50.0000           | 52.3192           | 4.6 | 15.0      |
| 17 Endrin ketone        | 50.0000           | 51.1888           | 2.4 | 15.0      |
| 23 Decachlorobiphenyl   | 50.0000           | 52.4313           | 4.9 | 15.0      |

Average %D = 5.51

CONTINUING CALIBRATION COMPOUNDS  
 PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
 Lab File ID: 016F1601.D  
 Analysis Type: NONE

Injection Date: 10-MAR-2009 14:29  
 Lab Sample ID: AB L4 GSV169908  
 Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED CONC. | MEASURED CONC. | %D   | MAX %D |
|-------------------------|----------------|----------------|------|--------|
| 24 Tetrachloro-m-xylene | 50.0000        | 54.3042        | 8.6  | 15.0   |
| 133 Hexachlorobenzene   | 50.0000        | 54.0795        | 8.2  | 15.0   |
| 2 alpha-BHC             | 50.0000        | 54.7177        | 9.4  | 15.0   |
| 5 gamma-BHC (Lindane)   | 50.0000        | 54.1352        | 8.3  | 15.0   |
| 2 beta-BHC              | 50.0000        | 53.9489        | 7.9  | 15.0   |
| 4 delta-BHC             | 50.0000        | 54.5054        | 9.0  | 15.0   |
| 122 Heptachlor          | 50.0000        | 53.5298        | 7.1  | 15.0   |
| 1 Aldrin                | 50.0000        | 53.8096        | 7.6  | 15.0   |
| 19 Heptachlor epoxide   | 50.0000        | 54.4949        | 9.0  | 15.0   |
| 7 gamma-Chlordane       | 50.0000        | 55.0893        | 10.2 | 15.0   |
| 6 alpha-Chlordane       | 50.0000        | 55.0699        | 10.1 | 15.0   |
| 12 Endosulfan I         | 50.0000        | 54.5539        | 9.1  | 15.0   |
| 9 4,4'-DDE              | 50.0000        | 52.8274        | 5.7  | 15.0   |
| 11 Dieldrin             | 50.0000        | 54.1695        | 8.3  | 15.0   |
| 15 Endrin               | 50.0000        | 55.3592        | 10.7 | 15.0   |
| 8 4,4'-DDD              | 50.0000        | 52.8275        | 5.7  | 15.0   |
| 13 Endosulfan II        | 50.0000        | 54.3644        | 8.7  | 15.0   |
| 10 4,4'-DDT             | 50.0000        | 47.6081        | 4.8  | 15.0   |
| 16 Endrin aldehyde      | 50.0000        | 51.4820        | 3.0  | 15.0   |
| 14 Endosulfan sulfate   | 50.0000        | 53.6669        | 7.3  | 15.0   |
| 21 Methoxychlor         | 50.0000        | 47.0311        | 5.9  | 15.0   |
| 22 Mirex                | 50.0000        | 54.0496        | 8.1  | 15.0   |
| 17 Endrin ketone        | 50.0000        | 51.7917        | 3.6  | 15.0   |
| 23 Decachlorobiphenyl   | 50.0000        | 54.7324        | 9.5  | 15.0   |

Average %D = 7.74

Data File: \\DenSvr03\Public\chem\GCS\GC\_P2.i\0310091.b\029F2901.D  
Report Date: 03/11/2009

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC P2.i  
Lab File ID: 029F2901.D  
Analysis Type: NONE

Injection Date: 10-MAR-2009 18:04  
Lab Sample ID: AB L4 GSV169908  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED<br>CONC. | MEASURED<br>CONC. | %D   | MAX<br>%D |
|-------------------------|-------------------|-------------------|------|-----------|
| 24 Tetrachloro-m-xylene | 50.0000           | 53.0695           | 6.1  | 15.0      |
| 136 Hexachlorobenzene   | 50.0000           | 52.5226           | 5.0  | 15.0      |
| 2 alpha-BHC             | 50.0000           | 53.6137           | 7.2  | 15.0      |
| 5 gamma-BHC (Lindane)   | 50.0000           | 53.0112           | 6.0  | 15.0      |
| 2 beta-BHC              | 50.0000           | 52.8002           | 5.6  | 15.0      |
| 4 delta-BHC             | 50.0000           | 53.8827           | 7.8  | 15.0      |
| 122 Heptachlor          | 50.0000           | 50.8877           | 1.8  | 15.0      |
| 1 Aldrin                | 50.0000           | 52.5576           | 5.1  | 15.0      |
| 19 Heptachlor epoxide   | 50.0000           | 53.3925           | 6.8  | 15.0      |
| 7 gamma-Chlordane       | 50.0000           | 52.6231           | 5.2  | 15.0      |
| 6 alpha-Chlordane       | 50.0000           | 51.1271           | 2.3  | 15.0      |
| 9 4,4'-DDE              | 50.0000           | 52.3318           | 4.7  | 15.0      |
| 12 Endosulfan I         | 50.0000           | 52.8312           | 5.7  | 15.0      |
| 11 Dieldrin             | 50.0000           | 52.8541           | 5.7  | 15.0      |
| 15 Endrin               | 50.0000           | 52.8107           | 5.6  | 15.0      |
| 8 4,4'-DDD              | 50.0000           | 56.9936           | 14.0 | 15.0      |
| 13 Endosulfan II        | 50.0000           | 52.2502           | 4.5  | 15.0      |
| 10 4,4'-DDT             | 50.0000           | 48.6245           | 2.8  | 15.0      |
| 16 Endrin aldehyde      | 50.0000           | 51.0178           | 2.0  | 15.0      |
| 21 Methoxychlor         | 50.0000           | 49.0409           | 1.9  | 15.0      |
| 22 Mirex                | 50.0000           | 53.0413           | 6.1  | 15.0      |
| 14 Endosulfan sulfate   | 50.0000           | 52.2174           | 4.4  | 15.0      |
| 17 Endrin ketone        | 50.0000           | 51.8307           | 3.7  | 15.0      |
| 23 Decachlorobiphenyl   | 50.0000           | 51.5834           | 3.2  | 15.0      |

Average %D = 5.13



CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: GC\_P2.i  
Lab File ID: 029F2901.D  
Analysis Type: NONE

Injection Date: 10-MAR-2009 18:04  
Lab Sample ID: AB L4 GSV169908  
Method File: \\DenSvr03\Public\chem\GCS\GC\_P2.

| COMPOUND                | EXPECTED | MEASURED | %D   | MAX  |
|-------------------------|----------|----------|------|------|
|                         | CONC.    | CONC.    |      | %D   |
| 24 Tetrachloro-m-xylene | 50.0000  | 53.3451  | 6.7  | 15.0 |
| 133 Hexachlorobenzene   | 50.0000  | 53.2189  | 6.4  | 15.0 |
| 2 alpha-BHC             | 50.0000  | 53.8515  | 7.7  | 15.0 |
| 5 gamma-BHC (Lindane)   | 50.0000  | 53.6214  | 7.2  | 15.0 |
| 2 beta-BHC              | 50.0000  | 53.4074  | 6.8  | 15.0 |
| 4 delta-BHC             | 50.0000  | 54.5957  | 9.2  | 15.0 |
| 122 Heptachlor          | 50.0000  | 52.8311  | 5.7  | 15.0 |
| 1 Aldrin                | 50.0000  | 52.9350  | 5.9  | 15.0 |
| 19 Heptachlor epoxide   | 50.0000  | 53.5502  | 7.1  | 15.0 |
| 7 gamma-Chlordane       | 50.0000  | 54.2622  | 8.5  | 15.0 |
| 6 alpha-Chlordane       | 50.0000  | 54.3043  | 8.6  | 15.0 |
| 12 Endosulfan I         | 50.0000  | 53.7885  | 7.6  | 15.0 |
| 9 4,4'-DDE              | 50.0000  | 51.6937  | 3.4  | 15.0 |
| 11 Dieldrin             | 50.0000  | 53.5732  | 7.1  | 15.0 |
| 15 Endrin               | 50.0000  | 53.7645  | 7.5  | 15.0 |
| 8 4,4'-DDD              | 50.0000  | 52.5936  | 5.2  | 15.0 |
| 13 Endosulfan II        | 50.0000  | 53.8157  | 7.6  | 15.0 |
| 10 4,4'-DDT             | 50.0000  | 48.5946  | 2.8  | 15.0 |
| 16 Endrin aldehyde      | 50.0000  | 51.5650  | 3.1  | 15.0 |
| 14 Endosulfan sulfate   | 50.0000  | 53.4999  | 7.0  | 15.0 |
| 21 Methoxychlor         | 50.0000  | 55.8951  | 11.8 | 15.0 |
| 22 Mirex                | 50.0000  | 53.4651  | 6.9  | 15.0 |
| 17 Endrin ketone        | 50.0000  | 52.3587  | 4.7  | 15.0 |
| 23 Decachlorobiphenyl   | 50.0000  | 53.5999  | 7.2  | 15.0 |

Average %D = 6.74

Sequence Table (Front Injector):

Quantification Part:

| Line | Location | SampleName       | SampleAmount | ISTDAmt | Multiplier | Dilution |
|------|----------|------------------|--------------|---------|------------|----------|
| ==== | =====    | =====            | =====        | =====   | =====      | =====    |
| 1    | Vial 1   | PRIMER           |              |         |            |          |
| 2    | Vial 2   | EVAL B STD       |              |         |            |          |
| 3    | Vial 3   | HEXANE           |              |         |            |          |
| 4    | Vial 4   | AP9 L6 GSV186708 |              |         |            |          |
| 5    | Vial 5   | AP9 L5 GSV186808 |              |         |            |          |
| 6    | Vial 6   | AP9 L4 GSV186908 |              |         |            |          |
| 7    | Vial 7   | AP9 L3 GSV187008 |              |         |            |          |
| 8    | Vial 8   | AP9 L2 GSV187108 |              |         |            |          |
| 9    | Vial 9   | AP9 L1 GSV187208 |              |         |            |          |
| 10   | Vial 10  | AP9 SS GSV153308 |              |         |            |          |
| 11   | Vial 11  | AB L6 GSV169708  |              |         |            |          |
| 12   | Vial 12  | AB L5 GSV169808  |              |         |            |          |
| 13   | Vial 13  | AB L4 GSV169908  |              |         |            |          |
| 14   | Vial 14  | AB L3 GSV170008  |              |         |            |          |
| 15   | Vial 15  | AB L2 GSV170108  |              |         |            |          |
| 16   | Vial 16  | AB L1 GSV170208  |              |         |            |          |
| 17   | Vial 17  | AB SS GSV082908  |              |         |            |          |
| 18   | Vial 18  | TOX L1 GSV186408 |              |         |            |          |
| 19   | Vial 19  | TOX SS GSV171708 |              |         |            |          |
| 20   | Vial 20  | CHL L1 GSV171808 |              |         |            |          |
| 21   | Vial 21  | K7QT81AC,LCS     |              |         |            |          |
| 22   | Vial 22  | K7QT81AD,LCSD    |              |         |            |          |
| 23   | Vial 23  | K7DA92A5,189-1   |              |         |            |          |
| 24   | Vial 24  | K7DCV2AW,192-2   |              |         |            |          |
| 25   | Vial 25  | K7DCW2AW,192-3   |              |         |            |          |
| 26   | Vial 26  | K7DCX2AW,192-4   |              |         |            |          |
| 27   | Vial 27  | K7DC12AW,192-6   |              |         |            |          |
| 28   | Vial 28  | K7DLC2AD,238-1   |              |         |            |          |
| 29   | Vial 29  | K7QT81AA,BLK     |              |         |            |          |
| 30   | Vial 30  | AP9 L4 GSV186908 |              |         |            |          |
| 31   | Vial 31  | AB L4 GSV169908  |              |         |            |          |
| 32   | Vial 32  | TOX L1 GSV186408 |              |         |            |          |
| 33   | Vial 33  | K7PXQ1AC,LCS     |              |         |            |          |
| 34   | Vial 34  | K7PXQ1AD,LCSD    |              |         |            |          |
| 35   | Vial 35  | K7PXQ1AE,LCStox  |              |         |            |          |
| 36   | Vial 36  | K7PXQ1AF,LCSDtox |              |         |            |          |
| 37   | Vial 37  | K7AFD2AC,169-1   |              |         |            |          |
| 38   | Vial 38  | K7AFD2AC,169-2   |              |         |            |          |
| 39   | Vial 39  | K7PXQ1AA,BLK     |              |         |            |          |
| 40   | Vial 40  | AP9 L4 GSV186908 |              |         |            |          |
| 41   | Vial 41  | AB L4 GSV169908  |              |         |            |          |
| 42   | Vial 42  | TOX L1 GSV186408 |              |         |            |          |
| 43   | Vial 43  | K7LR01AC,LCS     |              |         |            |          |
| 44   | Vial 44  | K7GEC1AD,360-1   |              |         |            |          |
| 45   | Vial 45  | K7GEH1AP,360-2   |              |         |            |          |
| 46   | Vial 46  | K7GEK1AP,360-3   |              |         |            |          |
| 47   | Vial 47  | K7GEQ1AP,360-4   |              |         |            |          |
| 48   | Vial 48  | K7GER1AP,360-5   |              |         |            |          |
| 49   | Vial 49  | K7GER1CM,360-5MS |              |         |            |          |
| 50   | Vial 50  | K7GER1CN,360-5SD |              |         |            |          |
| 51   | Vial 51  | K7GET1AP,360-6   |              |         |            |          |
| 52   | Vial 52  | K7GEV1AP,360-7   |              |         |            |          |
| 53   | Vial 53  | AP9 L4 GSV186908 |              |         |            |          |
| 54   | Vial 54  | AB L4 GSV169908  |              |         |            |          |
| 55   | Vial 55  | TOX L1 GSV186408 |              |         |            |          |
| 56   | Vial 56  | K7GEW1AP,360-8   |              |         |            |          |
| 57   | Vial 57  | K7GEX1AP,360-9   |              |         |            |          |
| 58   | Vial 58  | K7GE01AP,360-10  |              |         |            |          |

Sequence: C:\HPCHEM\2\SEQUENCE\2030109.S

| Line | Location | SampleName       | SampleAmount | ISTDAmt | Multiplier | Dilution |
|------|----------|------------------|--------------|---------|------------|----------|
| ---- | -----    | -----            | -----        | -----   | -----      | -----    |
| 59   | Vial 59  | K7LR01AA, BLK    |              |         |            |          |
| 60   | Vial 60  | AP9 L4 GSV186908 |              |         |            |          |
| 61   | Vial 61  | AB L4 GSV169908  |              |         |            |          |
| 62   | Vial 62  | TOX L1 GSV186408 |              |         |            |          |
| 63   | Vial 63  | AB L1 GSV170208  |              |         |            |          |
| 64   | Vial 99  | HEXANE           |              |         |            |          |
| 65   | Vial 100 | HEXANE           |              |         |            |          |

Sequence Table (Back Injector):

No entries - empty table!

Sequence Table (Front Injector):

Quantification Part:

| Line | Location | SampleName       | SampleAmount | ISTDAmt | Multiplier | Dilution |
|------|----------|------------------|--------------|---------|------------|----------|
| 1    | Vial 1   | PRIMER           |              |         |            |          |
| 2    | Vial 2   | EVAL B STD       |              |         |            |          |
| 3    | Vial 3   | HEXANE           |              |         |            |          |
| 4    | Vial 4   | AP9 L4 GSV186908 |              |         |            |          |
| 5    | Vial 5   | AB L4 GSV169908  |              |         |            |          |
| 6    | Vial 6   | TOX L1 GSV186408 |              |         |            |          |
| 7    | Vial 7   | K7GER2AP,360-5   |              |         |            |          |
| 8    | Vial 8   | K7GEX2AP,360-9   |              |         |            | 5        |
| 9    | Vial 9   | K7GEO2AP,360-10  |              |         |            |          |
| 10   | Vial 10  | K73EP1AC,LCS     |              |         |            |          |
| 11   | Vial 11  | K73EP1AD,LCS     |              |         |            |          |
| 12   | Vial 12  | K70831A1,267-1   |              |         |            |          |
| 13   | Vial 13  | K70831A1,267-1MS |              |         |            |          |
| 14   | Vial 14  | K73EP1AA,BLK     |              |         |            |          |
| 15   | Vial 15  | AP9 L4 GSV186908 |              |         |            |          |
| 16   | Vial 16  | AB L4 GSV169908  |              |         |            |          |
| 17   | Vial 17  | TOX L1 GSV186408 |              |         |            |          |
| 18   | Vial 18  | K74R21AC,LCS     |              |         |            |          |
| 19   | Vial 19  | K74R21AD,LCS     |              |         |            |          |
| 20   | Vial 20  | K74GP1AA,234-1   |              |         |            |          |
| 21   | Vial 21  | K74G61AA,236-1   |              |         |            |          |
| 22   | Vial 22  | K74HV1AA,239-1   |              |         |            |          |
| 23   | Vial 23  | K74JC1AA,244-1   |              |         |            |          |
| 24   | Vial 24  | K74JL1AA,247-1   |              |         |            |          |
| 25   | Vial 25  | K74KE1AA,252-1   |              |         |            |          |
| 26   | Vial 26  | K74KF1AA,251-1   |              |         |            |          |
| 27   | Vial 27  | K74R21AA,BLK     |              |         |            |          |
| 28   | Vial 28  | AP9 L4 GSV186908 |              |         |            |          |
| 29   | Vial 29  | AB L4 GSV169908  |              |         |            |          |
| 30   | Vial 30  | TOX L1 GSV186408 |              |         |            |          |
| 31   | Vial 31  | K73F01AC,LCS     |              |         |            |          |
| 32   | Vial 32  | K73F01AD,LCStox  |              |         |            |          |
| 33   | Vial 33  | K73F01AE,LCSdtax |              |         |            |          |
| 34   | Vial 34  | K72891AA,305-1   |              |         |            |          |
| 35   | Vial 35  | K72891AA,305-1MS |              |         |            |          |
| 36   | Vial 36  | K72891AA,305-1SD |              |         |            |          |
| 37   | Vial 37  | K73F01AA,BLK     |              |         |            |          |
| 38   | Vial 38  | AP9 L4 GSV186908 |              |         |            |          |
| 39   | Vial 39  | AB L4 GSV169908  |              |         |            |          |
| 40   | Vial 40  | TOX L1 GSV186408 |              |         |            |          |
| 41   | Vial 41  | K7VKT1AC,LCS     |              |         |            |          |
| 42   | Vial 42  | K7TJD1AC,280-3   |              |         |            | 10       |
| 43   | Vial 43  | K7TJD1AE,280-3MS |              |         |            | 10       |
| 44   | Vial 44  | K7TJD1AF,280-3SD |              |         |            | 10       |
| 45   | Vial 45  | K7VKT1AA,BLK     |              |         |            |          |
| 46   | Vial 46  | AP9 L4 GSV186908 |              |         |            |          |
| 47   | Vial 47  | AB L4 GSV169908  |              |         |            |          |
| 48   | Vial 48  | TOX L1 GSV186408 |              |         |            |          |
| 49   | Vial 49  | AB L1 GSV170208  |              |         |            |          |
| 50   | Vial 99  | HEXANE           |              |         |            |          |
| 51   | Vial 100 | HEXANE           |              |         |            |          |

Sequence Table (Back Injector):

No entries - empty table!

**TestAmerica Denver**  
**Sample Receiving Checklist**

Lot #: D9C050252 Date/Time Received: 3/5/9 0915

Company Name & Sampling Site: Irvine

PM to Complete This Section: *Yes*  *No*  Quarantined: *Yes*  *No*

Quote #: 72743

Special Instructions: Set A to 3/11  
↳ R to 3/12

Time Zone:  
 EDT/EST •  CDT/CST •  MDT/MST •  PDT/PST •  OTHER

**Unpacking Checks:**

Cooler #(s): 1  
 Temperatures (°C): 5.1

N/A Yes No

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Coolers scanned for radiation. Is the reading ≤ to background levels? Yes:  No:
- 3. Chain of custody present? If no, document on CUR.
- 4. Bottles broken and/or are leaking? If yes, document on CUR.
- 5. Multiphasic samples obvious? If yes, document on CUR.
- 6. Proper container & preservatives used? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR.
- 7. pH of all samples checked and meet requirements? If no, document on CUR.
- 8. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 9. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 10. Were VOA samples without headspace? If no, document on CUR.
- 11. Were VOA vials preserved? Preservative  HCl  4±2°C  Sodium Thiosulfate  Ascorbic Acid
- 12. Did samples require preservation with sodium thiosulfate?
- 13. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 14. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 15. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 16. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 17. Are analyses with short holding times requested?
- 18. Was a quick Turn Around (TAT) requested?

*Initials*

TestAmerica Denver  
Sample Receiving Checklist

Lot # D9C050252

Login Checks:

Initials

N/A Yes No

- 19. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DV-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 20. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 21. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
- 22. Were special log in instructions read and followed?
- 23. Were AFCEE metals logged for refrigerated storage?
- 24. Were tests logged checked against the COC? Which samples were confirmed? All
- 25. Was a Rush form completed for quick TAT?
- 26. Was a Short Hold form completed for any short holds?
- 27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials

- 28. Was the subcontract COC signed and sent with samples to bottle prep?
- 29. Were sample labels double-checked by a second person?
- 30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
- 31. Did the sample ID, Date, and Time from label match what was logged?
- 32. Were stickers for special archiving instructions affixed to each box? See #27
- 33. Were AFCEE metals stored refrigerated?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

**SUBCONTRACT ORDER**

5.1

**TestAmerica Irvine**

**ISB1796**


**SENDING LABORATORY:**

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

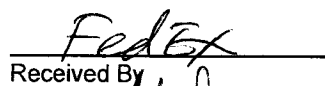
**RECEIVING LABORATORY:**

TestAmerica Denver  
 4955 Yarrow Street  
 Arvada, CO 80002  
 Phone : (303) 736-0100  
 Fax: (303) 431-7171  
 Project Location: CA - CALIFORNIA  
 Receipt Temperature: \_\_\_\_\_ °C      Ice: Y / N

| Analysis                     | Units               | Due                            | Expires        | Interlab Price | Surch | Comments  |
|------------------------------|---------------------|--------------------------------|----------------|----------------|-------|---|
| <b>Sample ID: ISB1796-01</b> |                     |                                |                |                |       |   |
| <b>Water</b>                 |                     | <b>Sampled: 02/16/09 09:30</b> |                |                |       |   |
| 608-Out                      | ug/l                | 03/06/09                       | 02/23/09 09:30 | \$0.00         | 75%   | Alpha BHC ONLY, Low Level. Jflags, Boeing, Denver |
| Level 4 + EDD-OUT            | N/A                 | 02/25/09                       | 03/16/09 09:30 | \$0.00         | 0%    | **LEVEL IV QC, ACCESS 7 EDD**                     |
| Mercury - 245.1, Diss -OUT   | ug/l                | 02/25/09                       | 03/16/09 09:30 | \$36.00        | 0%    | OUT to Denver, Boeing, J flags                    |
| Mercury - 245.1-OUT          | ug/l                | 02/25/09                       | 03/16/09 09:30 | \$36.00        | 0%    | OUT to Denver, Boeing, J flags                    |
| <b>Containers Supplied:</b>  |                     |                                |                |                |       |   |
| 125 mL Poly (AX)             | 1 L Poly w/HNO3 (B) | 1 L Amber (U)                  |                |                |       |   |


 \_\_\_\_\_  
 Released By                      Date/Time

3/4/09 17:00

 \_\_\_\_\_  
 Received By                      Date/Time

3/4/09 17:00

\_\_\_\_\_  
 Released By                      Date/Time

 \_\_\_\_\_  
 Received By                      Date/Time

3/5/9 09:15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

PROJECT NO. BOEING NPDES

SSFL MWH-Pasadena/Boeing

Lot #: F9B180215

Joseph Doak

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

TESTAMERICA LABORATORIES, INC.

*Janis M. Klyan*  
for

Sherryl Adam  
Project Manager

March 17, 2009



**Case Narrative**  
**LOT NUMBER: F9B180215**

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on February 18, 2009. This sample is associated with your SSFL MWH-Pasadena/Boeing project.

The analytical results included in this report meet all applicable quality control procedure requirements.

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

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

**Observations/Nonconformances**

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

There were no observations or non-conformances associated with this project.

**METHODS SUMMARY**

F9B180215

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

**References:**

ASTM Annual Book Of ASTM Standards.

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

**SAMPLE SUMMARY**

F9B180215

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| K7DH2       | 001            | ISB1796-01              | 02/16/09            | 09:30            |

**NOTE(S) :**

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

## TestAmerica Irvine

Client Sample ID: ISB1796-01

## Radiochemistry

Lab Sample ID: F9B180215-001  
 Work Order: K7DH2  
 Matrix: WATER

Date Collected: 02/16/09 0930  
 Date Received: 02/18/09 0930

| Parameter                                       | Result | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | RL    | mdc  | Prep<br>Date    | Analysis<br>Date |
|---|--------|------|--------------------------------------|-------|------|-----------------|------------------|
| <b>Gamma Cs-137 &amp; Hits by EPA 901.1 MOD</b> |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9058211 | Yld %            |
| Cesium 137                                      | -4     | U    | 10                                   | 20    | 19   | 02/27/09        | 03/14/09         |
| Potassium 40                                    | -100   | U    | 3800                                 |       | 200  | 02/27/09        | 03/14/09         |
| <b>Gross Alpha/Beta EPA 900</b>                 |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9050133 | Yld %            |
| Gross Alpha                                     | 6.8    |      | 2.3                                  | 3.0   | 2.4  | 02/24/09        | 03/03/09         |
| Gross Beta                                      | 5.4    |      | 1.1                                  | 4.0   | 1.2  | 02/24/09        | 03/03/09         |
| <b>TRITIUM (Distill) by EPA 906.0 MOD</b>       |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9066052 | Yld %            |
| Tritium   | 230    | U    | 190                                  | 500   | 300  | 03/07/09        | 03/13/09         |
| <b>SR-90 BY GFPC EPA-905 MOD</b>                |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9049442 | Yld % 61         |
| Strontium 90                                    | -0.01  | U    | 0.30                                 | 3.00  | 0.53 | 02/18/09        | 02/28/09         |
| <b>Total Uranium by KPA ASTM 5174-91</b>        |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9050413 | Yld %            |
| Total Uranium                                   | 0.483  | J    | 0.052                                | 0.677 | 0.21 | 02/19/09        | 03/08/09         |
| <b>Radium 226 by EPA 903.0 MOD</b>              |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9049439 | Yld % 95         |
| Radium (226)                                    | 0.37   | J    | 0.16                                 | 1.00  | 0.16 | 02/18/09        | 03/13/09         |
| <b>Radium 228 by GFPC EPA 904 MOD</b>           |        |      |                                      |       |      |                 |                  |
|   |        |      |                                      | pCi/L |      | Batch # 9049441 | Yld % 87         |
| Radium 228                                      | 0.41   | U    | 0.27                                 | 1.00  | 0.41 | 02/18/09        | 03/13/09         |

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

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

U Result is less than the sample detection limit.

## TestAmerica Irvine

Client Sample ID: ISB1796-01 DUP

## Radiochemistry

Lab Sample ID: F9B180215-001X  
 Work Order: K7DH2  
 Matrix: WATER

Date Collected: 02/16/09 0930  
 Date Received: 02/18/09 0930

| Parameter                          | Result | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | RL    | mdc | Prep<br>Date    | Analysis<br>Date |
|------------------------------------|--------|------|--------------------------------------|-------|-----|-----------------|------------------|
| TRITIUM (Distill) by EPA 906.0 MOD |        |      |                                      | pCi/L |     | Batch # 9066052 | Yld %            |
| Tritium                            | 170    | U    | 190                                  | 500   | 310 | 03/07/09        | 03/13/09         |

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC.

U Result is less than the sample detection limit.

## METHOD BLANK REPORT

## Radiochemistry

Client Lot ID: F9B180215  
 Matrix: WATER

| Parameter                            | Result | Qual | Total<br>Uncert.<br>(2 $\sigma$ +/-) | RL      | MDC     | Prep<br>Date | Lab Sample ID<br>Analysis<br>Date |
|--------------------------------------|--------|------|--------------------------------------|---------|---------|--------------|-----------------------------------|
| TRITIUM (Distill) by EPA 906.0 MOD   |        |      | pCi/L                                | Batch # | 9066052 | Yld %        | F9C070000-052B                    |
| Tritium                              | 290    | U    | 200                                  | 500     | 300     | 03/07/09     | 03/13/09                          |
| Radium 226 by EPA 903.0 MOD          |        |      | pCi/L                                | Batch # | 9049439 | Yld % 99     | F9B180000-439B                    |
| Radium (226)                         | -0.02  | U    | 0.10                                 | 1.00    | 0.21    | 02/18/09     | 03/13/09                          |
| Radium 228 by GFPC EPA 904 MOD       |        |      | pCi/L                                | Batch # | 9049441 | Yld % 89     | F9B180000-441B                    |
| Radium 228                           | -0.11  | U    | 0.24                                 | 1.00    | 0.44    | 02/18/09     | 03/13/09                          |
| SR-90 BY GFPC EPA-905 MOD            |        |      | pCi/L                                | Batch # | 9049442 | Yld % 73     | F9B180000-442B                    |
| Strontium 90                         | -0.06  | U    | 0.25                                 | 3.00    | 0.46    | 02/18/09     | 02/28/09                          |
| Total Uranium by KPA ASTM 5174-91    |        |      | pCi/L                                | Batch # | 9050413 | Yld %        | F9B190000-413B                    |
| Total Uranium                        | 0.124  | U    | 0.015                                | 0.677   | 0.21    | 02/19/09     | 03/08/09                          |
| Gross Alpha/Beta EPA 900             |        |      | pCi/L                                | Batch # | 9050133 | Yld %        | F9B190000-133B                    |
| Gross Alpha                          | -0.13  | U    | 0.47                                 | 3.00    | 0.99    | 02/24/09     | 03/04/09                          |
| Gross Beta                           | -0.71  | U    | 0.61                                 | 4.00    | 1.2     | 02/24/09     | 03/04/09                          |
| Gamma Cs-137 & Hits by EPA 901.1 MOD |        |      | pCi/L                                | Batch # | 9058211 | Yld %        | F9B270000-211B                    |
| Cesium 137                           | 4.7    | U    | 9.8                                  | 20.0    | 17      | 02/27/09     | 03/13/09                          |
| Potassium 40                         | -1     | U    | 150                                  |         | 280     | 02/27/09     | 03/13/09                          |

## NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only  
 Bold results are greater than the MDC.

U Result is less than the sample detection limit.

## Laboratory Control Sample Report

## Radiochemistry

Client Lot ID: F9B180215  
 Matrix: WATER

| Parameter                            | Spike Amount | Result  | Total<br>Uncert.<br>(2 $\sigma$ +/-) | MDC       | % Yld          | % Rec    | Lab Sample ID<br>QC Control<br>Limits |
|--------------------------------------|--------------|---------|--------------------------------------|-----------|----------------|----------|---------------------------------------|
| Gross Alpha/Beta EPA 900             |              |         | pCi/L                                | 900.0 MOD |                |          | F9B190000-133C                        |
| Gross Beta                           | 67.6         | 56.3    | 4.9                                  | 1         |                | 83       | (73 - 122)                            |
|                                      | Batch #:     | 9050133 |                                      |           | Analysis Date: | 03/04/09 |                                       |
| Gross Alpha/Beta EPA 900             |              |         | pCi/L                                | 900.0 MOD |                |          | F9B190000-133C                        |
| Gross Alpha                          | 49.4         | 53.2    | 6.0                                  | 1.6       |                | 108      | (73 - 136)                            |
|                                      | Batch #:     | 9050133 |                                      |           | Analysis Date: | 03/04/09 |                                       |
| Total Uranium by KPA ASTM 5174-91    |              |         | pCi/L                                | 5174-91   |                |          | F9B190000-413C                        |
| Total Uranium                        | 27.1         | 29.7    | 3.5                                  | 0.2       |                | 110      | (90 - 118)                            |
|                                      | Batch #:     | 9050413 |                                      |           | Analysis Date: | 03/08/09 |                                       |
| Total Uranium by KPA ASTM 5174-91    |              |         | pCi/L                                | 5174-91   |                |          | F9B190000-413C                        |
| Total Uranium                        | 5.42         | 5.86    | 0.61                                 | 0.21      |                | 108      | (90 - 118)                            |
|                                      | Batch #:     | 9050413 |                                      |           | Analysis Date: | 03/08/09 |                                       |
| Gamma Cs-137 & Hits by EPA 901.1 MOD |              |         | pCi/L                                | 901.1 MOD |                |          | F9B270000-211C                        |
| Americium 241                        | 141000       | 137000  | 11000                                | 500       |                | 97       | (90 - 110)                            |
| Cesium 137                           | 53100        | 51600   | 3000                                 | 200       |                | 97       | (90 - 110)                            |
| Cobalt 60                            | 87900        | 85500   | 4800                                 | 200       |                | 97       | (90 - 110)                            |
|                                      | Batch #:     | 9058211 |                                      |           | Analysis Date: | 03/13/09 |                                       |
| TRITIUM (Distill) by EPA 906.0 MOD   |              |         | pCi/L                                | 906.0 MOD |                |          | F9C070000-052C                        |
| Tritium                              | 4770         | 4330    | 460                                  | 300       |                | 91       | (77 - 110)                            |
|                                      | Batch #:     | 9066052 |                                      |           | Analysis Date: | 03/13/09 |                                       |

## NOTE(S)

MDC is determined by instrument performance only  
 Calculations are performed before rounding to avoid round-off error in calculated results

## Laboratory Control Sample/LCS Duplicate Report

## Radiochemistry

Client Lot ID: F9B180215

Matrix: WATER

| Parameter              | Spike Amount | Result  | Total<br>Uncert.<br>(2 $\sigma$ +/-) | % Yld          | % Rec    | Lab Sample ID        |                |
|------------------------|--------------|---------|--------------------------------------|----------------|----------|----------------------|----------------|
|                        |              |         |                                      |                |          | QC Control<br>Limits | Precision      |
| Radium 226 by EPA      | 903.0 MOD    |         | pCi/L                                | 903.0 MOD      |          |                      | F9B180000-439C |
| Radium (226)           | 11.3         | 13.0    | 1.3                                  | 92             | 115      | (52 - 150)           |                |
| Spk 2                  | 11.3         | 11.2    | 1.2                                  | 96             | 99       | (52 - 150)           | 15 %RPD        |
|                        | Batch #:     | 9049439 |                                      | Analysis Date: | 03/13/09 |                      |                |
| Radium 228 by GFPC EPA | 904 MOD      |         | pCi/L                                | 904 MOD        |          |                      | F9B180000-441C |
| Radium 228             | 7.20         | 8.01    | 0.93                                 | 82             | 111      | (64 - 140)           |                |
| Spk 2                  | 7.20         | 8.65    | 0.97                                 | 84             | 120      | (64 - 140)           | 8 %RPD         |
|                        | Batch #:     | 9049441 |                                      | Analysis Date: | 03/13/09 |                      |                |
| SR-90 BY GFPC EPA      | 905 MOD      |         | pCi/L                                | 905 MOD        |          |                      | F9B180000-442C |
| Strontium 90           | 6.97         | 8.15    | 0.94                                 | 68             | 117      | (78 - 146)           |                |
| Spk 2                  | 6.97         | 8.20    | 0.94                                 | 69             | 118      | (78 - 146)           | 0.5 %RPD       |
|                        | Batch #:     | 9049442 |                                      | Analysis Date: | 02/28/09 |                      |                |

## NOTE(S)

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



DUPLICATE EVALUATION REPORT

Radiochemistry

Client Lot ID: F9B180215  
 Matrix: WATER

Date Sampled: 02/13/09  
 Date Received: 02/17/09

| Parameter                            | SAMPLE Result | Total Uncert. (2σ +/-) | % Yld | DUPLICATE Result    | Total Uncert. (2σ +/-) | % Yld         | QC Sample ID |      |
|--------------------------------------|---------------|------------------------|-------|---------------------|------------------------|---------------|--------------|------|
|                                      |               |                        |       |                     |                        |               | Precision    |      |
| Gamma Cs-137 & Hits by EPA 901.1 MOD |               |                        | pCi/L | 901.1 MOD           |                        | F9B170209-001 |              |      |
| Cesium 137                           | -0.9 U        | 7.9                    |       | -3.1 U              | 9.9                    |               | 112          | %RPD |
| Potassium 40                         | -60 U         | 680                    |       | -90 U               | 3500                   |               | 35           | %RPD |
|                                      | Batch #:      | 9058211 (Sample)       |       | 9058211 (Duplicate) |                        |               |              |      |
| TRITIUM (Distill) by EPA 906.0 MOD   |               |                        | pCi/L | 906.0 MOD           |                        | F9B180215-001 |              |      |
| Tritium                              | 230 U         | 190                    |       | 170 U               | 190                    |               | 31           | %RPD |
|                                      | Batch #:      | 9066052 (Sample)       |       | 9066052 (Duplicate) |                        |               |              |      |
| Gross Alpha/Beta EPA 900             |               |                        | pCi/L | 900.0 MOD           |                        | F9B200166-001 |              |      |
| Gross Alpha                          | 1.86 J        | 0.97                   |       | 1.9 J               | 1.0                    |               | 4            | %RPD |
| Gross Beta                           | 4.2           | 1.2                    |       | 4.1                 | 1.2                    |               | 3            | %RPD |
|                                      | Batch #:      | 9050133 (Sample)       |       | 9050133 (Duplicate) |                        |               |              |      |

NOTE(S)

Data are incomplete without the case narrative.  
 Calculations are performed before rounding to avoid round-off error in calculated results

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

MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

Radiochemistry

Client Lot ID: F9B170209  
 Matrix: WATER

Date Sampled: 02/13/09 1525  
 Date Received: 02/17/09 0900

| Parameter                   | Spike Amount | SPIKE Result | Total Uncert. (2σ +/-) | Spike Yld | SAMPLE Result | Total Uncert. (2σ +/-) | QC Sample ID |      | QC Control Limits |
|-----------------------------|--------------|--------------|------------------------|-----------|---------------|------------------------|--------------|------|-------------------|
|                             |              |              |                        |           |               |                        | % Yld        | %Rec |                   |
| Total Uranium by KPA ASTM 5 |              |              | pCi/L                  | 5174-91   |               | F9B170209-001          |              |      |                   |
| Total Uranium               | 27.1         | 30.1         | 3.6                    | 0.435     | J             | 0.051                  |              | 110  | (90 - 121)        |
| Spk2                        | 27.1         | 29.8         | 3.6                    | 0.435     | J             | 0.051                  |              | 108  | (90 - 121)        |
|                             |              |              |                        |           |               |                        | Precision:   | 1    | %RPD              |
| Batch #:                    |              | 9050413      | Analysis date:         |           | 03/08/09      |                        |              |      |                   |

NOTE(S)

Data are incomplete without the case narrative.

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

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

## MATRIX SPIKE REPORT

## Radiochemistry

Client Lot Id: F9B180218  
 Matrix: WATER

Date Sampled: 02/16/09  
 Date Received: 02/18/09

| Parameter                | Spike Amount | Spike Result | Total Uncert. (2σ +/-) | Spike Yld.     | Sample Result | Total Uncert. (2σ +/-) | QC Sample ID  |      | QC Control Limits |
|--------------------------|--------------|--------------|------------------------|----------------|---------------|------------------------|---------------|------|-------------------|
|                          |              |              |                        |                |               |                        | %YLD          | %REC |                   |
| TRITIUM (Distill) by EPA | 906.0        | MOD          | pCi/L                  | 906.0          | MOD           |                        | F9B180218-001 |      |                   |
| Tritium                  | 4770         | 4280         | 450                    | 300            | 200           |                        | 83            |      | (47 - 150)        |
|                          | Batch #:     | 9066052      |                        | Analysis Date: | 03/13/09      |                        |               |      |                   |
| Gross Alpha/Beta EPA     | 900          |              | pCi/L                  | 900.0          | MOD           |                        | F9B200166-001 |      |                   |
| Gross Beta               | 67.5         | 73.3         | 6.2                    | 4.2            | 1.2           |                        | 102           |      | (66 - 147)        |
|                          | Batch #:     | 9050133      |                        | Analysis Date: | 03/04/09      |                        |               |      |                   |
| Gross Alpha/Beta EPA     | 900          |              | pCi/L                  | 900.0          | MOD           |                        | F9B200166-001 |      |                   |
| Gross Alpha              | 49.4         | 39.8         | 5.0                    | 1.86           | 0.97          |                        | 77            |      | (44 - 150)        |
|                          | Batch #:     | 9050133      |                        | Analysis Date: | 03/04/09      |                        |               |      |                   |

## NOTE(S)

Data are incomplete without the case narrative.

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

*Out*  
*331*

**SUBCONTRACT ORDER**

**TestAmerica Irvine  
ISB1796**

**SENDING LABORATORY:**

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

**RECEIVING LABORATORY:**

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

| Analysis   | Units | Due      | Expires        | Interlab Price | Surch | Comments   |
|--|-------|----------|----------------|----------------|-------|--|
| <b>Sample ID: ISB1796-01      Water      Sampled: 02/16/09 09:30</b> |       |          |                |                |       |  |
| Gamma Spec-O   | mg/kg | 02/25/09 | 02/16/10 09:30 | \$250.00       | 0%    | Out St Louis, k-40 and cs-137 only, DO NOT FILTER! |
| Gross Alpha-O  | pCi/L | 02/25/09 | 08/15/09 09:30 | \$100.00       | 50%   | Out St Louis, Boeing permit, DO NOT FILTER!        |
| Gross Beta-O   | pCi/L | 02/25/09 | 08/15/09 09:30 | \$100.00       | 50%   | Out St Louis, Boeing permit, DO NOT FILTER!        |
| Level 4 Data Package - Out   | N/A   | 02/25/09 | 03/16/09 09:30 | \$0.00         | 0%    |  |
| Radium, Combined-O   | pCi/L | 02/25/09 | 02/16/10 09:30 | \$238.00       | 50%   | Out St Louis, Boeing permit, DO NOT FILTER!        |
| Strontium 90-O   | pCi/L | 02/25/09 | 02/16/10 09:30 | \$155.00       | 50%   | Out St Louis, Boeing permit, DO NOT FILTER!        |
| Tritium-O  | pCi/L | 02/25/09 | 02/16/10 09:30 | \$80.00        | 50%   | Out St Louis, Boeing permit, DO NOT FILTER!        |
| Uranium, Combined-O  | pCi/L | 02/25/09 | 02/16/10 09:30 | \$120.00       | 0%    | Out St Louis, Boeing permit, DO NOT FILTER!        |

**Containers Supplied:**

2.5 gal Poly (AJ)      500 mL Amber (AK)

*[Signature]*      2/17/09 17:00  
Released By      Date/Time

FedEx      2/17/09 17:00  
Received By      Date/Time

*[Signature]*      2-18-09  
Received By      Date/Time

Lot #(s): F9B180215 227  
218 228  
222 230  
- 331 - 223 225  
224

**CONDITION UPON RECEIPT FORM**

Client: TA Irvine

Quote No: 81594

COC/RFA No: See Below

Initiated By: UD

Date: 2-18-09 Time: 0930  
2-18-08:00

Shipping Information

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

| Shipping # (s):*                   | Sample Temperature (s):** |
|------------------------------------|---------------------------|
| 1. <u>7963 4985 0273</u> 6. _____  | 1. <u>4</u> 6. _____      |
| 2. <u>7973 4020 4448</u> 7. _____  | 2. <u>3</u> 7. _____      |
| 3. <u>7963 4985 0332</u> 8. _____  | 3. <u>4</u> 8. _____      |
| 4. <u>7963 4985 0240</u> 9. _____  | 4. <u>2</u> 9. _____      |
| 5. <u>7973 4020 4253</u> 10. _____ | 5. <u>3</u> 10. _____     |

\*Numbered shipping lines correspond to Numbered Sample Temp lines

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

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

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

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

Notes: ISB1796  
1787  
1802  
1786  
1785  
1839  
1834  
1808  
1874

**Corrective Action:**

Client Contact Name: \_\_\_\_\_ Informed by: \_\_\_\_\_  
 Sample(s) processed "as is"  
 Sample(s) on hold until: \_\_\_\_\_  
Project Management Review: Sheryl A. Acton If released, notify: \_\_\_\_\_  
Date: 2-19-09

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

# TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

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

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

## REPORT

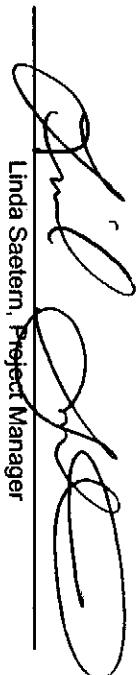
**Attention:** Joseph Doak  
**Sample:** Water / 1 Sample  
**Project Name:** ISB1796  
**P.O. Number:** 2294272  
**Method Number:** 8315 (Modified)  
**Investigation:** Hydrazines

**Laboratory No:** 981794  
**Report Date:** February 20, 2009  
**Sampling Date:** February 16, 2009  
**Receiving Date:** February 17, 2009  
**Extraction Date:** February 18, 2009  
**Analysis Date:** February 19, 2009  
**Units:** µg/L  
**Reported By:** JS

## Analytical Results

| Sample ID                      | Sample Description | Sample Amount (mL) | Dilution Factor | Monomethyl Hydrazine | u-Dimethyl Hydrazine | Hydrazine | Qualifier Codes |
|--------------------------------|--------------------|--------------------|-----------------|----------------------|----------------------|-----------|-----------------|
| 708023-MB                      | Method Blank       | 100                | 1               | ND                   | ND                   | ND        | None            |
| 981794                         | ISB1796-01         | 100                | 1               | ND                   | ND                   | ND        | None            |
| MDL                            |                    |                    |                 | 1.70                 | 1.42                 | 0.60      |                 |
| PQL                            |                    |                    |                 | 5.0                  | 5.0                  | 1.00      |                 |
| <b>Sample Reporting Limits</b> |                    |                    |                 |                      |                      |           |                 |

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

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

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

# TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1937

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

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

**Client Contact:** Joseph Doak  
**Sample:** Water / 1 Sample  
**P.O. Number:** 2294272  
**Method Number:** 8315 (Modified)  
**Investigation:** Hydrazines  
**Run Batch No.:** Extraction: 4766; Analysis: 649

**QC Lab. No.:** 708023  
**Project Lab. No.:** 981794  
**Spiked Sample ID:** 981794  
**Report Date:** February 20, 2009  
**Sampling Date:** February 16, 2009  
**Receiving Date:** February 17, 2009  
**Extraction Date:** February 18, 2009  
**Analysis Date:** February 19, 2009  
**Reported By:** JS

## Quality Control/Quality Assurance Calibration Report

| Parameter            | ICV                      |                       |                  | Control Limits | Flag |
|----------------------|--------------------------|-----------------------|------------------|----------------|------|
|                      | Theoretical Value (ug/L) | Measured Value (ug/L) | Percent Recovery |                |      |
| Monomethyl Hydrazine | 25.0                     | 24.2                  | 96.9             | 85-115         | PASS |
| u-Dimethyl Hydrazine | 25.0                     | 26.2                  | 105              | 85-115         | PASS |
| Hydrazine            | 5.0                      | 5.24                  | 105              | 85-115         | PASS |


| Parameter            | QCS                      |                       |                  | Control Limits | Flag |
|----------------------|--------------------------|-----------------------|------------------|----------------|------|
|                      | Theoretical Value (ug/L) | Measured Value (ug/L) | Percent Recovery |                |      |
| Monomethyl Hydrazine | 50.0                     | 47.3                  | 94.6             | 85-115         | PASS |
| u-Dimethyl Hydrazine | 50.0                     | 49.5                  | 99.0             | 85-115         | PASS |
| Hydrazine            | 10.0                     | 9.05                  | 90.5             | 85-115         | PASS |

## Quality Control/Quality Assurance Spikes Report

| Parameter            | LCS/LCSD     |                         |      |                      |              |      | Control Limits | Accuracy |    |        |
|----------------------|--------------|-------------------------|------|----------------------|--------------|------|----------------|----------|----|--------|
|                      | Spiked Conc. | Recovered Concentration | MB   | Percent Recovery (%) | LCS/LCSD RPD | Flag |                |          |    |        |
| Monomethyl Hydrazine | 50.0         | 49.2                    | 51.2 | 0.0                  | 98.5         | 102  | 4.00%          | PASS     | 20 | 50-150 |
| u-Dimethyl Hydrazine | 50.0         | 52.1                    | 54.9 | 0.0                  | 104          | 110  | 5.12%          | PASS     | 20 | 50-150 |
| Hydrazine            | 10.0         | 9.07                    | 9.90 | 0.0                  | 90.7         | 99.0 | 8.74%          | PASS     | 20 | 50-150 |

| Parameter            | 981794 MS/MSD           |      |        |                      |         |       | Control Limits | Accuracy |        |
|----------------------|-------------------------|------|--------|----------------------|---------|-------|----------------|----------|--------|
|                      | Recovered Concentration | MSD  | Sample | Percent Recovery (%) | MSD RPD | Flag  |                |          |        |
| Monomethyl Hydrazine | 33.4                    | 32.7 | 0.00   | 66.8%                | 65.4%   | 2.10% | PASS           | 20       | 50-150 |
| u-Dimethyl Hydrazine | 48.1                    | 46.5 | 0.00   | 96.1%                | 93.0%   | 3.25% | PASS           | 20       | 50-150 |
| Hydrazine            | 6.88                    | 6.54 | 0.00   | 68.8%                | 65.4%   | 5.12% | PASS           | 20       | 50-150 |

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

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

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

March 07, 2009

**Vista Project I.D.: 31440**

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 February 18, 2009 under your Project Name "ISB1796". 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](mailto:mmailer@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: 2/18/2009**

**Vista Lab. ID**

**Client Sample ID**

31440-001

ISB1796-01

## SECTION II

| Method Blank        |              |                 |                   |             | EPA Method 1613                               |                     |                      |                       |    |
|---------------------|--------------|-----------------|-------------------|-------------|---|---------------------|----------------------|-----------------------|----|
| Matrix:             | Aqueous      | QC Batch No.:   | 1907              | Lab Sample: | 0-MB001                                       | Date Analyzed DB-5: | 24-Feb-09            | Date Analyzed DB-225: | NA |
| Sample Size:        | 1.00 L       | Date Extracted: | 21-Feb-09         |             |   |                     |                      |                       |    |
| Analyte             | Conc. (ug/L) | DL <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers  | Labeled Standard                              | %R                  | LCL-UCL <sup>d</sup> | Qualifiers            |    |
| 2,3,7,8-TCDD        | ND           | 0.000000484     |                   |             | <b>IS</b> 13C-2,3,7,8-TCDD                    | 84.7                | 25 - 164             |                       |    |
| 1,2,3,7,8-PeCDD     | ND           | 0.000000938     |                   |             | 13C-1,2,3,7,8-PeCDD                           | 76.5                | 25 - 181             |                       |    |
| 1,2,3,4,7,8-HxCDD   | ND           | 0.00000107      |                   |             | 13C-1,2,3,4,7,8-HxCDD                         | 82.7                | 32 - 141             |                       |    |
| 1,2,3,6,7,8-HxCDD   | ND           | 0.00000110      |                   |             | 13C-1,2,3,6,7,8-HxCDD                         | 79.3                | 28 - 130             |                       |    |
| 1,2,3,7,8,9-HxCDD   | ND           | 0.00000105      |                   |             | 13C-1,2,3,4,6,7,8-HpCDD                       | 83.7                | 23 - 140             |                       |    |
| 1,2,3,4,6,7,8-HpCDD | ND           | 0.00000347      |                   |             | 13C-OCDD                                      | 74.0                | 17 - 157             |                       |    |
| OCDD                | ND           | 0.00000193      |                   |             | 13C-2,3,7,8-TCDF                              | 93.7                | 24 - 169             |                       |    |
| 2,3,7,8-TCDF        | ND           | 0.000000369     |                   |             | 13C-1,2,3,7,8-PeCDF                           | 80.7                | 24 - 185             |                       |    |
| 1,2,3,7,8-PeCDF     | ND           | 0.000000467     |                   |             | 13C-2,3,4,7,8-PeCDF                           | 79.8                | 21 - 178             |                       |    |
| 2,3,4,7,8-PeCDF     | ND           | 0.000000467     |                   |             | 13C-1,2,3,4,7,8-HxCDF                         | 83.9                | 26 - 152             |                       |    |
| 1,2,3,4,7,8-HxCDF   | ND           | 0.000000652     |                   |             | 13C-1,2,3,6,7,8-HxCDF                         | 80.2                | 26 - 123             |                       |    |
| 1,2,3,6,7,8-HxCDF   | ND           | 0.000000635     |                   |             | 13C-2,3,4,6,7,8-HxCDF                         | 83.8                | 28 - 136             |                       |    |
| 2,3,4,6,7,8-HxCDF   | ND           | 0.000000697     |                   |             | 13C-1,2,3,7,8,9-HxCDF                         | 81.6                | 29 - 147             |                       |    |
| 1,2,3,7,8,9-HxCDF   | ND           | 0.00000100      |                   |             | 13C-1,2,3,4,6,7,8-HpCDF                       | 80.1                | 28 - 143             |                       |    |
| 1,2,3,4,6,7,8-HpCDF | ND           | 0.00000223      |                   |             | 13C-1,2,3,4,7,8,9-HpCDF                       | 85.3                | 26 - 138             |                       |    |
| 1,2,3,4,7,8,9-HpCDF | ND           | 0.00000241      |                   |             | 13C-OCDF                                      | 69.3                | 17 - 157             |                       |    |
| OCDF                | ND           | 0.00000157      |                   |             | <b>CRS</b> 37Cl-2,3,7,8-TCDD                  | 90.8                | 35 - 197             |                       |    |
| Totals              |              |                 |                   |             | Footnotes                                     |                     |                      |                       |    |
| Total TCDD          | ND           | 0.000000484     |                   |             | a. Sample specific estimated detection limit. |                     |                      |                       |    |
| Total PeCDD         | ND           | 0.000000938     |                   |             | b. Estimated maximum possible concentration.  |                     |                      |                       |    |
| Total HxCDD         | ND           | 0.00000107      |                   |             | c. Method detection limit.                    |                     |                      |                       |    |
| Total HpCDD         | ND           | 0.00000347      |                   |             | d. Lower control limit - upper control limit. |                     |                      |                       |    |
| Total TCDF          | ND           | 0.000000369     |                   |             |   |                     |                      |                       |    |
| Total PeCDF         | ND           | 0.000000467     |                   |             |   |                     |                      |                       |    |
| Total HxCDF         | ND           | 0.000000746     |                   |             |   |                     |                      |                       |    |
| Total HpCDF         | ND           | 0.00000232      |                   |             |   |                     |                      |                       |    |

Analyst: JMH

Approved By: Martha M. Maier 07-Mar-2009 08:37

| OPR Results         |             |                 |            | EPA Method 1613              |           |                       |           |
|---------------------|-------------|-----------------|------------|------------------------------|-----------|-----------------------|-----------|
| Matrix:             | Aqueous     | QC Batch No.:   | 1907       | Lab Sample:                  | 0-OPR001  |                       |           |
| Sample Size:        | 1.00 L      | Date Extracted: | 21-Feb-09  | Date Analyzed DB-5:          | 24-Feb-09 | 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        | 10.3            | 6.7 - 15.8 | <b>IS</b> 13C-2,3,7,8-TCDD   | 86.0      | 25 - 164              |           |
| 1,2,3,7,8-PeCDD     | 50.0        | 52.1            | 35 - 71    | 13C-1,2,3,7,8-PeCDD          | 78.7      | 25 - 181              |           |
| 1,2,3,4,7,8-HxCDD   | 50.0        | 51.0            | 35 - 82    | 13C-1,2,3,4,7,8-HxCDD        | 84.9      | 32 - 141              |           |
| 1,2,3,6,7,8-HxCDD   | 50.0        | 50.0            | 38 - 67    | 13C-1,2,3,6,7,8-HxCDD        | 81.1      | 28 - 130              |           |
| 1,2,3,7,8,9-HxCDD   | 50.0        | 49.9            | 32 - 81    | 13C-1,2,3,4,6,7,8-HpCDD      | 79.5      | 23 - 140              |           |
| 1,2,3,4,6,7,8-HpCDD | 50.0        | 50.9            | 35 - 70    | 13C-OCDD                     | 71.0      | 17 - 157              |           |
| OCDD                | 100         | 102             | 78 - 144   | 13C-2,3,7,8-TCDF             | 90.8      | 24 - 169              |           |
| 2,3,7,8-TCDF        | 10.0        | 10.2            | 7.5 - 15.8 | 13C-1,2,3,7,8-PeCDF          | 83.2      | 24 - 185              |           |
| 1,2,3,7,8-PeCDF     | 50.0        | 50.9            | 40 - 67    | 13C-2,3,4,7,8-PeCDF          | 81.4      | 21 - 178              |           |
| 2,3,4,7,8-PeCDF     | 50.0        | 50.9            | 34 - 80    | 13C-1,2,3,4,7,8-HxCDF        | 84.8      | 26 - 152              |           |
| 1,2,3,4,7,8-HxCDF   | 50.0        | 50.9            | 36 - 67    | 13C-1,2,3,6,7,8-HxCDF        | 81.8      | 26 - 123              |           |
| 1,2,3,6,7,8-HxCDF   | 50.0        | 51.5            | 42 - 65    | 13C-2,3,4,6,7,8-HxCDF        | 84.2      | 28 - 136              |           |
| 2,3,4,6,7,8-HxCDF   | 50.0        | 50.1            | 35 - 78    | 13C-1,2,3,7,8,9-HxCDF        | 81.1      | 29 - 147              |           |
| 1,2,3,7,8,9-HxCDF   | 50.0        | 51.3            | 39 - 65    | 13C-1,2,3,4,6,7,8-HpCDF      | 76.4      | 28 - 143              |           |
| 1,2,3,4,6,7,8-HpCDF | 50.0        | 51.0            | 41 - 61    | 13C-1,2,3,4,7,8,9-HpCDF      | 81.1      | 26 - 138              |           |
| 1,2,3,4,7,8,9-HpCDF | 50.0        | 50.6            | 39 - 69    | 13C-OCDF                     | 67.5      | 17 - 157              |           |
| OCDF                | 100         | 105             | 63 - 170   | <b>CRS</b> 37Cl-2,3,7,8-TCDD | 90.9      | 35 - 197              |           |

Analyst: JMH

Approved By: Martha M. Maier 07-Mar-2009 08:37

| Sample ID: <b>ISB1796-01</b> |                         |                 |                   |            | EPA Method 1613                               |           |                       |            |
|------------------------------|-------------------------|-----------------|-------------------|------------|---|-----------|-----------------------|------------|
| Client Data                  |                         |                 | Sample Data       |            | Laboratory Data                               |           |                       |            |
| Name:                        | Test America-Irvine, CA |                 | Matrix:           | Aqueous    | Lab Sample:                                   | 31440-001 | Date Received:        | 18-Feb-09  |
| Project:                     | ISB1796                 |                 | Sample Size:      | 1.05 L     | QC Batch No.:                                 | 1907      | Date Extracted:       | 21-Feb-09  |
| Date Collected:              | 16-Feb-09               |                 |                   |            | Date Analyzed DB-5:                           | 24-Feb-09 | Date Analyzed DB-225: | NA         |
| Time Collected:              | 0930                    |                 |                   |            |   |           |                       |            |
| Analyte                      | Conc. (ug/L)            | DL <sup>a</sup> | EMPC <sup>b</sup> | Qualifiers | Labeled Standard                              | %R        | LCL-UCL <sup>d</sup>  | Qualifiers |
| 2,3,7,8-TCDD                 | ND                      | 0.000000653     |                   |            | <b>IS</b> 13C-2,3,7,8-TCDD                    | 83.9      | 25 - 164              |            |
| 1,2,3,7,8-PeCDD              | ND                      | 0.00000104      |                   |            | 13C-1,2,3,7,8-PeCDD                           | 76.6      | 25 - 181              |            |
| 1,2,3,4,7,8-HxCDD            | ND                      | 0.00000206      |                   |            | 13C-1,2,3,4,7,8-HxCDD                         | 77.7      | 32 - 141              |            |
| 1,2,3,6,7,8-HxCDD            | 0.00000240              |                 |                   | J          | 13C-1,2,3,6,7,8-HxCDD                         | 77.9      | 28 - 130              |            |
| 1,2,3,7,8,9-HxCDD            | ND                      | 0.00000195      |                   |            | 13C-1,2,3,4,6,7,8-HpCDD                       | 72.2      | 23 - 140              |            |
| 1,2,3,4,6,7,8-HpCDD          | 0.0000435               |                 |                   |            | 13C-OCDD                                      | 62.6      | 17 - 157              |            |
| OCDD                         | 0.000380                |                 |                   |            | 13C-2,3,7,8-TCDF                              | 96.4      | 24 - 169              |            |
| 2,3,7,8-TCDF                 | ND                      | 0.000000525     |                   |            | 13C-1,2,3,7,8-PeCDF                           | 80.5      | 24 - 185              |            |
| 1,2,3,7,8-PeCDF              | ND                      | 0.000000830     |                   |            | 13C-2,3,4,7,8-PeCDF                           | 78.8      | 21 - 178              |            |
| 2,3,4,7,8-PeCDF              | ND                      | 0.000000782     |                   |            | 13C-1,2,3,4,7,8-HxCDF                         | 79.9      | 26 - 152              |            |
| 1,2,3,4,7,8-HxCDF            | ND                      | 0.00000112      |                   |            | 13C-1,2,3,6,7,8-HxCDF                         | 75.1      | 26 - 123              |            |
| 1,2,3,6,7,8-HxCDF            | ND                      | 0.00000115      |                   |            | 13C-2,3,4,6,7,8-HxCDF                         | 82.8      | 28 - 136              |            |
| 2,3,4,6,7,8-HxCDF            | ND                      | 0.00000121      |                   |            | 13C-1,2,3,7,8,9-HxCDF                         | 75.6      | 29 - 147              |            |
| 1,2,3,7,8,9-HxCDF            | ND                      | 0.00000171      |                   |            | 13C-1,2,3,4,6,7,8-HpCDF                       | 74.3      | 28 - 143              |            |
| 1,2,3,4,6,7,8-HpCDF          | 0.0000196               |                 |                   | J          | 13C-1,2,3,4,7,8,9-HpCDF                       | 72.2      | 26 - 138              |            |
| 1,2,3,4,7,8,9-HpCDF          | ND                      | 0.00000220      |                   |            | 13C-OCDF                                      | 61.4      | 17 - 157              |            |
| OCDF                         | 0.0000641               |                 |                   |            | <b>CRS</b> 37Cl-2,3,7,8-TCDD                  | 89.4      | 35 - 197              |            |
| Totals                       |                         |                 |                   |            | Footnotes                                     |           |                       |            |
| Total TCDD                   | ND                      | 0.000000653     |                   |            | a. Sample specific estimated detection limit. |           |                       |            |
| Total PeCDD                  | ND                      | 0.00000104      |                   |            | b. Estimated maximum possible concentration.  |           |                       |            |
| Total HxCDD                  | 0.00000524              |                 | 0.00000938        |            | c. Method detection limit.                    |           |                       |            |
| Total HpCDD                  | 0.0000790               |                 |                   |            | d. Lower control limit - upper control limit. |           |                       |            |
| Total TCDF                   | ND                      | 0.000000525     |                   |            |   |           |                       |            |
| Total PeCDF                  | ND                      | 0.000000806     |                   |            |   |           |                       |            |
| Total HxCDF                  | 0.0000136               |                 |                   |            |   |           |                       |            |
| Total HpCDF                  | 0.0000461               |                 |                   |            |   |           |                       |            |

Analyst: JMH

Approved By: Martha M. Maier 07-Mar-2009 08:37

## APPENDIX

## DATA QUALIFIERS & ABBREVIATIONS

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

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

## CERTIFICATIONS

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



SUBCONTRACT ORDER

TestAmerica Irvine

ISB1796

31440

SENDING LABORATORY:

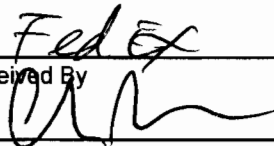
TestAmerica Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 260-3297  
Project Manager: Joseph Doak

RECEIVING LABORATORY:

Vista Analytical Laboratory- SUB  
1104 Windfield Way  
El Dorado Hills, CA 95762  
Phone : (916) 673-1520  
Fax: (916) 673-0106  
Project Location: CA - CALIFORNIA  
Receipt Temperature: 3.9 °C Ice: (Y) / N

| Analysis                    | Units         | Due      | Expires                 | Comments   |
|-----------------------------|---------------|----------|-------------------------|--|
| Sample ID: ISB1796-01       | Water         |          | Sampled: 02/16/09 09:30 |  |
| 1613-Dioxin-HR-Alta         | ug/l          | 02/25/09 | 02/23/09 09:30          | J flags, 17 congeners, no TEQ, ug/L, sub=Vista     |
| EDD + Level 4               | N/A           | 02/25/09 | 03/16/09 09:30          | Excel EDD email to pm, Include Std logs for Lvl IV |
| <i>Containers Supplied:</i> |               |          |                         |  |
| 1 L Amber (E)               | 1 L Amber (F) |          |                         |  |

Released By  2/17/09 17:00  
Date/Time

Received By  2/17/09 17:00  
Date/Time

Project 31440  
Released By \_\_\_\_\_  
Date/Time \_\_\_\_\_

Received By \_\_\_\_\_  
Date/Time 2/18/09 17:00  
MADESSO

**SAMPLE LOG-IN CHECKLIST**



Vista Project #: 31440

TAT unspecified

|                         |                                  |                         |                             |
|-------------------------|----------------------------------|-------------------------|-----------------------------|
| <b>Samples Arrival:</b> | <b>Date/Time</b><br>2/18/09 0950 | <b>Initials:</b><br>C ✓ | <b>Location:</b><br>WR2     |
|                         |                                  |                         | <b>Shelf/Rack:</b><br>M/A   |
| <b>Logged In:</b>       | <b>Date/Time</b><br>2/18/09 1500 | <b>Initials:</b><br>C ✓ | <b>Location:</b><br>WR2     |
|                         |                                  |                         | <b>Shelf/Rack:</b><br>CA    |
| <b>Delivered By:</b>    | <u>FedEx</u>                     | UPS                     | Cal                         |
|                         |                                  | DHL                     | Hand Delivered              |
|                         |                                  | Other                   |                             |
| <b>Preservation:</b>    | <u>Ice</u>                       | Blue Ice                | Dry Ice                     |
|                         |                                  | None                    |                             |
| <b>Temp °C</b>          | 3.9°                             | <b>Time:</b> 0959       | <b>Thermometer ID:</b> IR-1 |

|  | YES            | NO               | NA      |
|--|----------------|------------------|---------|
| Adequate Sample Volume Received? (A & B bottles)                       | ✓              |                  |         |
| Holding Time Acceptable?   | ✓              |                  |         |
| Shipping Container(s) Intact?  | ✓              |                  |         |
| Shipping Custody Seals Intact?   | ✓              |                  |         |
| Shipping Documentation Present?  | ✓              |                  |         |
| Airbill  |                |                  |         |
| Trk #  | 7963 5046 4802 |                  |         |
| Sample Container Intact?   | ✓              |                  |         |
| Sample Custody Seals Intact?   |                |                  | ✓       |
| Chain of Custody / Sample Documentation Present?                       | ✓              |                  |         |
| COC Anomaly/Sample Acceptance Form completed?                          |                |                  | ✓       |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation?     |                |                  | ✓       |
| Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Preservation Documented? |                |                  | None    |
|  | COC            | Sample Container |         |
| Shipping Container   | Vista          | <u>Client</u>    | Retain  |
|  |                | <u>Return</u>    | Dispose |

Comments: