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February 16, 2009

NY95-219-04

Gould Electronics Inc.
34929 Curtis Blvd.
Eastlake, OH 44095

Attention: James F. Cronmiller

**SAMPLING EVENT REPORT
YEAR THIRTEEN – JULY/NOVEMBER, 2008
LONG TERM MONITORING PROGRAM
MARATHON REMEDIATION SITE**

Gentlemen:

Enclosed is the report of the sampling event conducted during Year 13 of the Long Term Monitoring Program for the Marathon Remediation Site. This report covers the November, 2008 sampling of sediment in East Foundry Cove and the July sampling (two wells) of the Plant Area groundwater.

If you have any questions concerning the contents of this report, please contact me at (610) 840-9142.

Very truly yours,

ADVANCED GEOSERVICES ENGINEERING, P.C.

Paul F. Marano

Paul F. Marano, P.E.
Senior Project Consultant

PFM:car

cc: P. Tames, USEPA
W. Mizerak, NYSDEC ✓
E. Lind, Audubon Society
R. Shaheen, Scenic Hudson, Inc.





INTRODUCTION

This Sampling Event Report covers the Year 13 sampling event of the long term monitoring program for the Marathon Remediation Site. This work was conducted in July and November 2008 in accordance with Advanced GeoServices' recommendations for future monitoring presented in the "Five Year Review, Long Term Monitoring Program, Marathon Remediation Site" dated May 2, 2001. The sampling procedures and analytical protocols are described in the December 20, 1995 "Long Term Monitoring Plan for the Marathon Remediation Site" and the Supplemental Long Term Monitoring Plan issued February 21, 1996.

SAMPLING EVENT

The Year 13 event included sampling and analyses of two wells (7S and MB-3) within the Plant Ground area (Area II) and sediment from East Foundry Cove (Area III). The groundwater sampling was conducted in July as detailed in the December 20, 1995 Long Term Monitoring Plan. The East Foundry Cove sediment samples were collected with a hand auger in November (in accordance with the Supplemental Long Term Monitoring Plan of February 21, 1996).

ANALYTICAL RESULTS

Laboratory analyses of the samples were conducted by Severn Trent Laboratories (STL) of Edison, NJ (NY Certification # 11452). Validation of the analytical data was performed by Advanced GeoServices. The validation report for the sediment and groundwater samples is included as Appendix A. Summaries of the analytical data are included in the validation reports in the Appendices and the results are also presented on the following tables.

East Foundry Cove Sediments

Table A shows the cadmium levels detected in the sediment samples obtained from East Foundry Cove during this sampling event. For comparison purposes, the pre-remediation and post-remediation cadmium levels reported by others and the results from the previous Long Term Monitoring Program sampling events are also included in the table. The analytical results are within the range of variation experienced during previous sampling events.

Plant Ground Area Groundwater

Tables B, C, and D present the Plant Ground Area groundwater sample analyses of the two wells (7S and MB-3) from this sampling event. These tables show the concentrations of trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and tetrachloroethene (PCE), respectively. For comparison purposes, these tables also include the results from past groundwater sampling events (all wells)



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performed by Advanced GeoServices and others, as well as the results of the previous Long Term Monitoring Program sampling events. The TCE, TCA, and PCE concentrations in Wells MB-3 and 7S are consistent with previous results.

FUTURE SAMPLING

The next sampling event is scheduled for the summer of 2009. The planned sampling will include the sediment in East Foundry Cove. The groundwater sampling for 2009 will be performed as part of the Groundwater Protectiveness Determination Study; the work plan for this study is presently under review by EPA.

TABLES

TABLE A

CADMIUM CONCENTRATIONS (mg/kg)
AREA III SEDIMENT SAMPLES

| SAMPLE LOCATION | RE-REMEDIATED (1) | POST-REMEDIATED (2) | LTM SAMPLING EVENT | | | | | | | | | | | | | |
|-----------------|-------------------|---------------------|--------------------|--------------|--------------|------------|-------|------|--------------|------------|-------------|------------|----------|--------------|----------|------------|
| | | | 11/95 | 3/96 | 6/96 | 4/97 | 4/98 | 4/99 | 4/00 | 8/01 | 10/02 | 11/03 | 11/04 | 09/06 | 08/07 | 11/08 |
| EFC-1S | 171 | 15.7 | 16J(52J) | 7.08 | 6.91 | 0.386 | 14.2J | 20.8 | 14.2J(13.5J) | 10.5(14.1) | 16.7J | 6.3J | 17.1 | 22.9 | 13.5(12) | 4.9 |
| EFC-2S | 873 | 19.4 | 85 | 14.4J(29.0J) | 7.76 | 46.4 | 46.3J | 58.7 | 96.9J | 19.8 | 58.1J(145J) | 31.7J | 50.5 | 22.5 | 130.0 | 79.4(62.3) |
| EFC-3S | 127 | 4.0 | 6 | 1.55 | 3.15 | 21.5(16.0) | 7J | 0.34 | 0.83J | 12.7 | 0.31J | 0.16U | 20.4 | 6 | 0.22U | 0.32 |
| EFC-4S | 998 | 12.9 | 190 | 0.959 | 50.6 | 104 | 2.9J | 67.1 | 277J | 69.8 | 58.3J | 50J(50.3J) | 35(32.7) | 0.35J(0.55J) | 16.1 | 31.4 |
| ERC-5S | 43.1 | 6.3 | 42 | 21.2 | 9.69J(4.01J) | 0.454 | 75J | 9.4 | 100J | 57.3 | 3.5 | 20.8J | 36.8 | 18.6 | 0.3U | 8.6 |
| EFP-1S | 14.2 | 6.0 | 130 | 15.9 | 5.7 | 5.56 | 106J | 38.8 | 3.9J | | | | | | | |
| EFP-2S | 722 | 6.6 | 60 | 25.2 | 28.1 | 2.07 | 27.4J | 74 | 0.4J | | | | | | | |
| CSPA-1S | 221 | 11.0 | 0.28U | 34.9 | 7.17 | 2.66 | 2.6 | 2.6 | 1.5J | | | | | | | |
| CSPA-2S | 11.6 | 24.9 | 3.4 | 994 | 4.26 | 22.8 | 4.9 | 3.3 | 42.7J | | | | | | | |
| CONTROL | 4.8 | --- | 24 | 7.1 | 6.34 | 103 | 1.5 | 8.3 | 2J | | | | | | | |
| WFC-1S | --- | --- | 17 | 12.7 | 7.41 | 6.25 | 5.3J | 63.6 | 1.3J | 18.1J | | | 3.1 | 27.4 | | |
| WFC-2S | 89 samples | --- | 11 | 11.7 | 20 | 5.48 | 6.9J | 83.5 | 92.5J | 50 | | | 2.6(2.4) | 28.7 | | |
| WFC-3S | 1.1 to 569 | --- | 77 | 21.7 | 10.4 | 11.8 | 8.9J | 143 | 10.8J | 67.2J | | | 4 | 0.3J | | |
| WFC-4S | 43.9 mean | --- | 27 | 14.5 | 4.54 | 19.8 | 17.9J | 49.5 | 1.4J | 10.8(15.1) | | | 6.8 | 11.6(9.8) | | |
| WFC-5S | --- | --- | 85 | 16.4 | 61.4 | 31.2 | 55.7J | 137 | 52.8J | 150J | | | 14.6 | 144 | | |

NOTES:

- (1) Samples obtained by Malcolm-Pirnie and others prior to the Remedial Action. These are the reported data closest to the present LTM sampling location.
- (2) Average value of either the two closest post-remediation sample node locations or the analytical results of the various testing agencies (Sevenson, IQAT, and USCOE) for the same node location.

Values shown in parenthesis are field duplicates

TABLE B
TRICHLOROETHENE (TCE) CONCENTRATIONS (ug/l)
AREA II (PLANT GROUNDS) GROUNDWATER

| WELL | SAMPLING EVENTS | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---------------------|-----------------------|-----------------------|----------------------|---------------------|----------------------|----------------------|----------|----------|--------|------------|----------|-------|------|-------------------------|--------|-----------------------|--------|------|--------|--------|-----------------------|-------|--|--|
| | 8/85 ⁽¹⁾ | 88(#1) ⁽¹⁾ | 88(#2) ⁽¹⁾ | 11/93 ⁽²⁾ | 2/94 ⁽²⁾ | 10/94 ⁽²⁾ | 11/95 ⁽³⁾ | 6/96 | 10/96 | 4/97 | 10/97 | 4/98 | 11/98 | 4/99 | 11/99 | 4/00 | 10/00 | 8/01 | 9/03 | 11/04 | 09/06 | 07/07 ⁽⁴⁰⁾ | 07/08 | | |
| 2S | (4) | ND ⁽⁵⁾ | 4J | ND | ND | ND | (6) | ND | 0.4U | 0.4U | 0.4U(0.4U) | 1U | 1U | 0.3U | 1U | 0.2U | 1U | | | | | | | | |
| 4I | | ND | ND | ND | ND | ND | 3.3U | ND | 0.4U | 0.4U | 16 | 4.5(4.3) | 2.4J | 0.3U | 2.1U | 0.2U | 6 | | | | | | | | |
| 4D | | ND | ND | ND | ND | ND | 12 | 2 | 0.4U | 0.7 | 32 | 3.9 | 6.3J | 2.3 | 0.8J | 0.2U | 1U | | | | | | | | |
| 5S | | ND | 1J | ND | ND | ND | 5.6 | ND | 0.4U | 0.4U | 23 | 1U | 1U | 0.3U | 1.1J | 0.2U | 1U | | | | | | | | |
| 5I | | ND | ND | ND | ND | ND | 22 | 4 | 0.4U | 0.4U | 35 | 7.7 | 15J | 8.1 | 2J | 0.2U | 1U | | | | | | | | |
| 6I | | ND | ND | ND | ND | ND | 7.3(5.3) | ND | 0.4U | 0.4U | 1.6 | 1U | 3.4J | 1 | 1U | 0.2U | 1U | | | | | | | | |
| 6D | | | | ND | ND | ND | 10 | 3.5(4.0) | 0.4U | 0.4U | 4.7 | 1U | 3.4J | 0.7 | 1U | 0.2U | 1J | | | | | | | | |
| 7S | | 100 | 82 | 110J | 100(100) | 100 | 80 | 82 | 89 | 99(86) | 99 | 100 | 94J | 84 | 82J(71J) ⁽⁹⁾ | 77(75) | 82(81) ⁽⁹⁾ | 74 | 74 | 76 | 79(74) | 73 | 68 | | |
| 7D | | | | ND | 4.3J | ND | 4.4J | ND | 0.4U | 0.4U | 0.4U | 1U | 1U | 0.7 | 1U | 0.2U | 1U | | | | | | | | |
| V5 | | ND | ND | ND | ND | ND | 22 | ND | 0.4U | 0.4U | 190 | 1U(1U) | 1U | 0.3U | 1U | 0.2U | 1U | | | | | | | | |
| MB-1 | | | 2J | ND | ND | ND | 4.3J | 2.8 | 2.5(2.1) | 0.4U | 0.4U | (8) | 0.9J | 1 | 1.6J | 0.9 | 0.9J | | | | | | | | |
| MB-2 | | | | ND | ND | ND | 6.2 | ND | 0.4U | 0.4U | 0.4U | 1U | 1U | 0.3U | 1U | 0.2U | 1U | | | | | | | | |
| MB-3 | 170 | | 65 | 76J | 73 | 110 | 51 | 120 | 70 | 61 | 64 | 78 | 23J | 62 | 25J | 33 | 46 | 47(46) | 50 | 43(45) | 47 | 44 | 37 | | |

NOTES:

- (1) Sampling performed by others.
- (2) Sampling performed by Advanced GeoServices Corp. during the Remedial Action.
- (3) First long term monitoring sampling event.
- (4) Blank spaces indicate the well was not sampled.
- (5) ND=Not detected (detection limit=5 µg/l) for 1985 through 1995 samples, and 2 µg/l from 1996 to the present).
- (6) Well casing was bent; no sample was obtained.
- (7) MB-1 duplicate was a blind duplicate listed as MB-100 for analysis.
- (8) Well dry during sampling event.
- (9) 7S duplicate was a blind duplicate listed as 71 for analysis.
- (10) Samples collected as part of in-situ bioremediation program

Values shown in parenthesis are field duplicates

TABLE C
1,1,1-TRICHLOROETHANE (TCA) CONCENTRATIONS (UG/L)
AREA II (PLANT GROUNDS) GROUNDWATER

| WELL ⁽¹⁾ | SAMPLING EVENTS | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------------------|---------------------|----------------------|----------------------|------|-------|------|-------|------|-------|------|---------------------------|----------|---------------------------|----------|------------|------|----------|-------|----------------------|-------|
| | 11/93 ⁽²⁾ | 2/94 ⁽²⁾ | 10/94 ⁽²⁾ | 11/95 ⁽³⁾ | 6/96 | 10/96 | 4/97 | 10/97 | 4/98 | 11/98 | 4/99 | 11/99 | 4/00 | 10/00 | 8/01 | 10/02 | 9/03 | 11/04 | 09/06 | 07/07 ⁽⁷⁾ | 07/08 |
| 7S | 3.2J | 5U | ND ⁽⁴⁾ | 2.7J | ND | 5.8 | ND | 0.4U | 2 | 3.8J | 3 | 2.1J(1.6J) ⁽⁶⁾ | 1.4(1.2) | 2.3J(2.2J) ⁽⁹⁾ | 2.1 | 1.4J(1.5J) | 1.2 | 0.9 | 0.7 | 0.6 | 0.4 |
| 7D | ND | 4.8J | ND | ND | ND | 0.4U | ND | 0.4U | 1U | 5U | 1.3U | 5U | 0.2U | 5U | | | | | | | |
| MB-2 | 2J | ⁽⁵⁾ | | ND | ND | 0.4U | ND | 0.4U | 1.3 | 1.2J | 1J | 0.8J | 0.8 | 0.7J | | | | | | | |
| MB-3 | 3J | 7.9 | 6 | 2.7J | 7 | 7.4 | 3 | 0.4U | 4.3 | 5U | 3.7 | 1.2J | 1.9 | 2.1J | 2.2(2.1) | 1.7J | 2.4 | 2.1(2.3) | 1.6 | 1.4 | 1.2 |
| 4D | ND | ND | ND | ND | ND | 5.6 | ND | 0.4U | 1U | 5U | 1.3U | 5U | 0.2U | 5U | | | | | | | |
| 4I | | | | | | | | | | | | | | | | | | | | | |
| V5 | | | | | | | | | | | | | | | | 5U | | | | | |

NOTES:

- (1) All other wells had non-detected results for all sampling events.
- (2) Sampling performed by Advanced GeoServices Corp. during the Remedial Action.
- (3) First long term monitoring sampling event.
- (4) ND=Not detected (detection limit=5 ug/l) for 1993 through 1995 samples, and 2 ug/l from 1996 to the present).
- (5) Blank spaces indicate the well was not sampled.
- (6) 7S duplicate was a blind duplicate listed as 7I for analysis.
- (7) Samples collected as part of in-situ bioremediation program.

Values shown in parenthesis are field duplicates

TABLE D
TETRACHLOROETHENE (PCE) CONCENTRATIONS (mg/l)
AREA II (PLANT GROUNDS) GROUNDWATER

| WELL ⁽¹⁾ | SAMPLING EVENTS | | | | | | | | | | | | | | | | | | | | |
|---------------------|----------------------|---------------------|----------------------|----------------------|------|-------|------------|-------|------|-------|------|---------------------------|----------|-------------------------|----------|----------|------|----------|--------|----------------------|-------|
| | 11/93 ⁽²⁾ | 2/94 ⁽²⁾ | 10/94 ⁽²⁾ | 11/95 ⁽³⁾ | 6/96 | 10/96 | 4/97 | 10/97 | 4/98 | 11/98 | 4/99 | 11/99 | 4/00 | 10/00 | 8/01 | 10/02 | 9/03 | 11/04 | 09/06 | 07/07 ⁽⁶⁾ | 07/08 |
| 7S | 1.21 | 5.2 | ND(4) | 7.7 | 3 | 1.3 | 0.4U(7.2J) | 3.1 | 4.5 | 5.61 | 6.3 | 4.8J(4.3J) ⁽⁵⁾ | 4.0(3.6) | 5.4(5.2) ⁽⁵⁾ | 3.8 | 3.3(3.2) | 3.5 | 3.5 | 4.2(4) | 4.5 | 4.8 |
| MB-3 | ND | ND | ND | 3.21 | 3 | 0.4U | ND | 3.6 | 2.6 | 2.21 | 2.7 | 2.21 | 3.3 | 2.7 | 4.8(4.9) | 4 | 4.2 | 2.3(2.5) | 1.8 | 2 | 1.4 |
| 4I | | | | | | | | | | | | | | | 1U | | | | | | |
| V5 | | | | | | | | | | | | | | | 1U | | | | | | |

NOTES:

- (1) All other wells had non-detect results for all sampling events.
- (2) Sampling performed by Advanced GeoServices Corp. during the Remedial Action.
- (3) First long term monitoring sampling event.
- (4) NID=Not detected (detection limit=5 µg/l) for 1993 through 1995 samples, and 2 µg/l from 1996 to the present).
- (5) 7S duplicate was a blind duplicate listed as 7I for analysis.
- (6) Samples collected as part of in-situ bioremediation program

Values shown in parenthesis are field duplicates

DATA VALIDATION REPORT
OF
GROUNDWATER SAMPLES
COLLECTED ON JUNE 17-18, 2008
FOR
ORGANIC AND CONVENTIONAL ANALYSES

Laboratory Case Number X193

PREPARED FOR:

GOULD ELECTRONICS INC.
MARATHON SITE
COLD SPRING, NEW YORK

PREPARED BY:

ADVANCED GEOSERVICES CORP.
WEST CHESTER, PENNSYLVANIA

August 27, 2008
Project Number NY 95-219-03

DATA VALIDATION REPORT ORGANIC COMPOUNDS

INTRODUCTION

This data validation report addresses the organic results from the groundwater samples collected from the Marathon Site monitoring wells on June 17-18, 2008, in Cold Spring, New York. Samples were analyzed by Test America in Edison, NJ (TA). The samples were analyzed for volatile organic compounds (VOCs) by USEPA *Test Methods for Evaluating Solid Waste Physical/Chemical Methods* (SW-846) Method 8260B. The sample results were reported under TA Case Numbers X193.

The qualified analytical results are presented on the data summary table. The data summary table lists both non-detected and detected results. Support documentation summarizing the specifics of this review is presented at the end of this report.

VOLATILE ORGANIC COMPOUNDS AND DISSOLVED GASSES

Three monitoring well groundwater samples, one field duplicate sample, one equipment blank, and one trip blank sample were collected and analyzed for VOCs by USEPA SW-846 Method 8260B.

This organic review has been performed with guidance from the USEPA "Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994. The findings presented in this report are based upon a review of all data supplied by the laboratory(s). The information examined consists of sample results, analytical holding times, initial and continuing calibrations, gas chromatographic/mass spectrometric (GC/MS) tunes, blank analysis results, matrix spike/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs), surrogate spike recoveries, standard areas and retention times.

Holding times were met for all samples. All GC/MS tunes for the target analytes were within the method criteria. All analytes and system monitoring compounds, except those addressed in the "QUALIFIER" section of this report, were within the method-required limits for the initial and continuing calibrations with average relative response factors (RRF) greater than or equal to 0.05. In some cases, the correlation coefficient (r) was calculated instead of the RRF, the correlation coefficients were greater than 0.995. All analytes and system monitoring compounds were within the method-required limits for the initial and continuing calibrations with percent relative standard deviations (% RSD) or percent differences (%D) less than 15 percent or 20 percent, respectively. The laboratory, equipment, and trip blanks were free of contamination. All volatile system monitoring compound recoveries and internal standard areas were within acceptance limits. All detected compounds met the relative retention time and mass spectral identification criteria. Samples MW-7S and MW-7SD were field duplicates. Field duplicate results were precise. The percent recoveries for the MS and MSD were acceptable.

QUALIFIERS

The volatile initial calibration for X193 reported relative response factors (RRFs) for acetone below the criteria of 0.05. All MB-3, MW-4, MW-7S, MW-7SD, EB-1-071808, and TB-1-071708 sample results and reporting limits for acetone were qualified as estimated (J) if detected and rejected (R) if undetected.

SUMMARY

The results are acceptable as qualified.

DATA VALIDATION REPORT CONVENTIONALS

INTRODUCTION

This data validation report addresses the conventional analysis results from the groundwater samples collected from the Marathon Site monitoring wells on June 17-18, 2008, in Cold Spring, New York. All samples were analyzed by Test America in Edison, NJ (TA). Groundwater samples were analyzed for total organic carbon (TOC). The conventional parameters were analyzed by USEPA *Methods of Chemical Analysis of Water and Wastes*. The sample results were reported under TA Case Number X193.

The qualified analytical results are presented on the data summary table. The data summary table lists both non-detected and detected results. Support documentation summarizing the specifics of this review is presented at the end of this report.

CONVENTIONAL PARAMETERS

Three monitoring well groundwater samples, one field duplicate sample and one equipment blank sample were collected and analyzed for conventional analyses by USEPA *Methods of Chemical Analysis of Water and Wastes*.

This conventional data review has been performed with guidance from the USEPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", July, 2002. The findings presented in this report are based upon a review of all data supplied by the laboratory. The information examined consists of sample results, analytical holding times, initial and continuing calibration standard recoveries, calibration curves, blank analysis results, matrix spike (MS) recoveries, matrix spike duplicate (MSD) recoveries, laboratory and field duplicate relative percent differences (RPD), and laboratory control sample results.

Holding times were met for TOC. Initial and continuing calibration standard sample results were accurate. Calibration curves had correlation coefficients within QC limits. The laboratory and equipment blanks were free of contamination except for those addressed in the "QUALIFIERS" section of this report. Field duplicate results were precise. Laboratory control sample, laboratory duplicates, MS, and MSD percent recoveries were acceptable. Samples MW-7S and MW-7SD were field duplicates. Field duplicate results were precise.

QUALIFIERS

The continuing calibration blank for TOC had a detection of 0.325 mg/L. Sample results and reporting limits for TOC for samples MB-3, MW-7S, and MW-7SD were qualified as undetected (U) due to blank contamination

SUMMARY

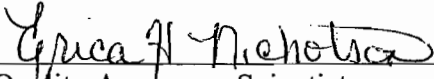
The results are acceptable as qualified or reported.

QUALIFIER CODES

- U - Denotes the compound or analyte was not detected at or above the associated detection limit.
- J - Denotes an estimated value or the result is below the quantitation limit.
- UJ - Denotes an estimated detection or quantitation limit.
- R - Denotes a rejected result. The analyte may or may not be present.

Data review was performed by an experienced quality assurance scientist independent of the analytical laboratory.

This is to certify that I have examined the analytical data and based on the information provided to me by the laboratory, in my professional judgment the data are acceptable for use except where qualified with qualifiers that modify the usefulness of those individual values.



Quality Assurance Scientist

8.29.08
Date



Quality Assurance Manager

8/29/2008
Date

TABLES

MARATHON
7/2008 Groundwater, 7/17-7/18/2008
STL Edison# X193 Project# NY-95-219

| Sample Location | | MB-3 | | | MW-4 | | | MW-7S | | | MW-7SD | | | EB-1-071808 | | |
|---------------------------|-------|-------------|---|----|-------------|---|----|-------------|---|----|-------------|---|----|-----------------|---|----|
| Lab ID | | 936640 | | | 936641 | | | 936642 | | | 936643 | | | 936644 | | |
| Sample Date | | 7/17/2008 | | | 7/18/2008 | | | 7/18/2008 | | | 7/18/2008 | | | 7/18/2008 | | |
| Matrix | | Groundwater | | | Groundwater | | | Groundwater | | | Groundwater | | | Aqueous | | |
| Remarks | | | | | | | | | | | FD of MW-7S | | | Equipment Blank | | |
| Parameter | Units | Result | Q | RL | Result | Q | RL | Result | Q | RL | Result | Q | RL | Result | Q | RL |
| Volatiles | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 1.2 | J | 5 | 1.4 | J | 5 | 0.4 | J | 5 | 0.3 | J | 5 | | U | 5 |
| 1,1,2,2-Tetrachloroethane | ug/L | | U | 1 | | U | 1 | | U | 1 | | U | 1 | | U | 1 |
| 1,1,2-Trichloroethane | ug/L | | U | 3 | | U | 3 | | U | 3 | | U | 3 | | U | 3 |
| 1,1-Dichloroethane | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| 1,1-Dichloroethene | ug/L | | U | 2 | | U | 2 | | U | 2 | | U | 2 | | U | 2 |
| 1,2-Dichloroethane | ug/L | | U | 2 | | U | 2 | | U | 2 | | U | 2 | | U | 2 |
| 1,2-Dichloropropane | ug/L | | U | 1 | | U | 1 | | U | 1 | | U | 1 | | U | 1 |
| 2-Butanone | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| 2-Hexanone | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| 4-Methyl-2-Pentanone | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Acetone | ug/L | | R | 5 | | R | 5 | | R | 5 | | R | 5 | 5.6 | J | 5 |
| Benzene | ug/L | | U | 1 | | U | 1 | | U | 1 | | U | 1 | | U | 1 |
| Bromodichloromethane | ug/L | | U | 1 | | U | 1 | | U | 1 | | U | 1 | | U | 1 |
| Bromoform | ug/L | | U | 4 | | U | 4 | | U | 4 | | U | 4 | | U | 4 |
| Bromomethane | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Carbon Disulfide | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Carbon Tetrachloride | ug/L | | U | 2 | | U | 2 | | U | 2 | | U | 2 | | U | 2 |
| Chlorobenzene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Chloroethane | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Chloroform | ug/L | 0.7 | J | 5 | 0.8 | J | 5 | 0.6 | J | 5 | 0.6 | J | 5 | | U | 5 |
| Chloromethane | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| cis-1,2-Dichloroethene | ug/L | 0.1 | J | 5 | 0.2 | J | 5 | 2.4 | J | 5 | 2.4 | J | 5 | | U | 5 |
| cis-1,3-Dichloropropene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Dibromochloromethane | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Ethylbenzene | ug/L | | U | 4 | | U | 4 | | U | 4 | | U | 4 | | U | 4 |
| Methylene Chloride | ug/L | | U | 3 | | U | 3 | | U | 3 | | U | 3 | | U | 3 |
| Styrene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Tetrachloroethene | ug/L | 1.4 | | 1 | 2 | | 1 | 4.8 | | 1 | 5 | | 1 | | U | 1 |
| Toluene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | 0.3 | J | 5 |
| trans-1,2-Dichloroethene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| trans-1,3-Dichloropropene | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Trichloroethene | ug/L | 37 | | 1 | 56 | | 1 | 68 | | 1 | 69 | | 1 | | U | 1 |
| Vinyl Chloride | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Xylene (Total) | ug/L | | U | 5 | | U | 5 | | U | 5 | | U | 5 | | U | 5 |
| Conventionals | | | | | | | | | | | | | | | | |
| Total Organic Carbon | mg/l | 1.1 | U | 1 | | U | 1 | 1.3 | U | 1 | 1.4 | U | 1 | | U | 1 |

QA Scientist  Date 8/28/2008

MARATHON
7/2008 Groundwater, 7/17-7/18/2008
STL Edison# X193 Project# NY-95-219

| Sample Location | | TB-1-071708 | | |
|---------------------------|-------|-------------|----|----|
| Lab ID | | 936645 | | |
| Sample Date | | 7/17/2008 | | |
| Matrix | | Aqueous | | |
| Remarks | | Trip Blank | | |
| Parameter | Units | Result | Q | RL |
| Volatiles | | | | |
| 1,1,1-Trichloroethane | ug/L | | U | 5 |
| 1,1,2,2-Tetrachloroethane | ug/L | | U | 1 |
| 1,1,2-Trichloroethane | ug/L | | U | 3 |
| 1,1-Dichloroethane | ug/L | | U | 5 |
| 1,1-Dichloroethene | ug/L | | U | 2 |
| 1,2-Dichloroethane | ug/L | | U | 2 |
| 1,2-Dichloropropane | ug/L | | U | 1 |
| 2-Butanone | ug/L | | U | 5 |
| 2-Hexanone | ug/L | | U | 5 |
| 4-Methyl-2-Pentanone | ug/L | | U | 5 |
| Acetone | ug/L | | R | 5 |
| Benzene | ug/L | | U | 1 |
| Bromodichloromethane | ug/L | | U | 1 |
| Bromoform | ug/L | | U | 4 |
| Bromomethane | ug/L | | U | 5 |
| Carbon Disulfide | ug/L | | U | 5 |
| Carbon Tetrachloride | ug/L | | U | 2 |
| Chlorobenzene | ug/L | | U | 5 |
| Chloroethane | ug/L | | U | 5 |
| Chloroform | ug/L | | U | 5 |
| Chloromethane | ug/L | | U | 5 |
| cis-1,2-Dichloroethene | ug/L | | U | 5 |
| cis-1,3-Dichloropropene | ug/L | | U | 5 |
| Dibromochloromethane | ug/L | | U | 5 |
| Ethylbenzene | ug/L | | U | 4 |
| Methylene Chloride | ug/L | | U | 3 |
| Styrene | ug/L | | U | 5 |
| Tetrachloroethene | ug/L | | U | 1 |
| Toluene | ug/L | | U | 5 |
| trans-1,2-Dichloroethene | ug/L | | U | 5 |
| trans-1,3-Dichloropropene | ug/L | | U | 5 |
| Trichloroethene | ug/L | | U | 1 |
| Vinyl Chloride | ug/L | | U | 5 |
| Xylene (Total) | ug/L | | U | 5 |
| Conventionals | | | | |
| Total Organic Carbon | mg/l | | NA | |

QA Scientist  Date 8/28/2008

SUPPORT DOCUMENTATION
ORGANICS

VOLATILE DATA VALIDATION SUMMARY

Site Name: Marathon
 Project Number: N495-219-02
 Sampling Date(s): 7.17-7.18.08

Laboratory: Test America - Edison
 Case/Order No.: X193


Compound List: TCL Priority Pollutant Appendix IX Other _____
 Method: CLP SOW 3/90 40 CFR 136 SW-846 Method 8260B Other _____

The following table indicates the data validation criteria examined, any problems identified, and the QA action applied.

| Data Validation Criteria: | Accept | FYI | Qualify | Comments |
|-------------------------------------|--------|-----|---------|---------------------|
| Holding Times | ✓ | | | DA = 6-7 |
| GC/MS Tuning | ✓ | | | |
| Initial Calibrations | | | ✓ | |
| Continuing Calibrations | | ✓ | | |
| Blank Analysis Results | | ✓ | | |
| System Monitoring/Surrogate Results | ✓ | | | |
| MS/MSD Results | ✓ | | | |
| Field Duplicate Results | ✓ | | | -MIS-7S -MIS-7SD |
| Internal Standard Areas/RT | ✓ | | | |
| Laboratory Control Sample Results | ✓ | | | |
| Target Compound Identification | ✓ | | | |
| TIC Identification | | | | NA |
| Quantitation/Detection Limits | ✓ | | | |
| System Performance | ✓ | | | |
| Overall Assessment of Data | ✓ | | | |
| Other: | | | | |

General Comments: _____

Accept - No qualification required.
 FYI - For your information only, no qualification necessary.
 Qualify - Qualify as rejected, estimated or biased.
 NR - Not Reviewed
 NA - Not Applicable


 QA Scientist Erica Nicholson
 Date 8.12.08

Client ID: MB-3
Site: Marathon

Lab Sample No: 936640
Lab Job No: X193

Date Sampled: 07/17/08
Date Received: 07/18/08
Date Analyzed: 07/24/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28899.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | ND 2 | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | 0.1J | 5.0 |
| Chloroform | 0.7J | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | 1.2J | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | 37 | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | 1.4 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

Client ID: MW-4
Site: Marathon

Lab Sample No: 936641
Lab Job No: X193

Date Sampled: 07/18/08
Date Received: 07/18/08
Date Analyzed: 07/24/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28900.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | ND ² | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | 0.2J | 5.0 |
| Chloroform | 0.8J | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | 1.4J | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | 56 | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | 2.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

Client ID: MW-7S
Site: Marathon

Lab Sample No: 936642
Lab Job No: X193

Date Sampled: 07/18/08
Date Received: 07/18/08
Date Analyzed: 07/25/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28924.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | ND 2 | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | 2.4J | 5.0 |
| Chloroform | 0.6J | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | 0.4J | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | 68 | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | 4.8 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

Client ID: MW-7SD
Site: Marathon

Lab Sample No: 936643
Lab Job No: X193

Date Sampled: 07/18/08
Date Received: 07/18/08
Date Analyzed: 07/25/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28925.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | ND 2 | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | 2.4J | 5.0 |
| Chloroform | 0.6J | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | 0.3J | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | 69 | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | 5.0 | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

Client ID: EB-1-071808
Site: Marathon

Lab Sample No: 936644
Lab Job No: X193

Date Sampled: 07/18/08
Date Received: 07/18/08
Date Analyzed: 07/24/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28898.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | 5.6 J | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | ND | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | ND | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | 0.3J | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

FYI: Acetone and toluene were ND in all samples,
No qualifiers assigned

JHN
8.12.08

Client ID: TB-1-071808
Site: Marathon

Lab Sample No: 936645
Lab Job No: X193

Date Sampled: 07/17/08
Date Received: 07/18/08
Date Analyzed: 07/25/08
GC Column: Rtx-VMS
Instrument ID: VOAMS3.i
Lab File ID: c28933.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

| <u>Parameter</u> | <u>Analytical Result</u> <u>Units: ug/l</u> | <u>Quantitation</u> <u>Limit</u> <u>Units: ug/l</u> |
|---------------------------|--|---|
| Chloromethane | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Vinyl Chloride | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Methylene Chloride | ND | 3.0 |
| Acetone | ND 2 | 5.0 |
| Carbon Disulfide | ND | 5.0 |
| 1,1-Dichloroethene | ND | 2.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| cis-1,2-Dichloroethene | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,2-Dichloroethane | ND | 2.0 |
| 2-Butanone | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon Tetrachloride | ND | 2.0 |
| Bromodichloromethane | ND | 1.0 |
| 1,2-Dichloropropane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Trichloroethene | ND | 1.0 |
| Dibromochloromethane | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 3.0 |
| Benzene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| Bromoform | ND | 4.0 |
| 4-Methyl-2-Pentanone | ND | 5.0 |
| 2-Hexanone | ND | 5.0 |
| Tetrachloroethene | ND | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| Toluene | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 4.0 |
| Styrene | ND | 5.0 |
| Xylene (Total) | ND | 5.0 |

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

| LAB FILE ID: | RRF5: C28839 | RRF10: C28840 | RRF20: C28841 | | |
|---------------------------|---------------|----------------|---------------|-------|--------|
| | RRF50: C28842 | RRF100: C28843 | | | |
| COMPOUND | RRF5 | RRF10 | RRF20 | RRF50 | RRF100 |
| Chloromethane | 0.370 | 0.392 | 0.419 | 0.407 | 0.426 |
| Bromomethane | 0.248 | 0.232 | 0.258 | 0.276 | 0.308 |
| Vinyl Chloride | 0.306 | 0.369 | 0.417 | 0.404 | 0.422 |
| Chloroethane | 0.186 | 0.184 | 0.208 | 0.198 | 0.208 |
| Methylene Chloride | 0.433 | 0.397 | 0.393 | 0.399 | 0.388 |
| * Acetone | 0.079 | 0.058 | 0.043 | 0.039 | 0.037 |
| Carbon Disulfide | 0.550 | 0.635 | 0.723 | 0.751 | 0.845 |
| Trichlorofluoromethane | 0.506 | 0.537 | 0.605 | 0.599 | 0.663 |
| 1,1-Dichloroethene | 0.408 | 0.351 | 0.338 | 0.355 | 0.356 |
| 1,1-Dichloroethane | 0.654 | 0.665 | 0.640 | 0.660 | 0.663 |
| trans-1,2-Dichloroethene | 0.406 | 0.384 | 0.384 | 0.392 | 0.399 |
| cis-1,2-Dichloroethene | 0.391 | 0.379 | 0.365 | 0.376 | 0.374 |
| Chloroform | 0.557 | 0.570 | 0.552 | 0.577 | 0.576 |
| 1,2-Dichloroethane | 0.485 | 0.453 | 0.414 | 0.440 | 0.438 |
| 2-Butanone | 0.076 | 0.067 | 0.064 | 0.061 | 0.063 |
| 1,1,1-Trichloroethane | 0.429 | 0.473 | 0.458 | 0.490 | 0.502 |
| Carbon Tetrachloride | 0.323 | 0.334 | 0.344 | 0.378 | 0.398 |
| Bromodichloromethane | 0.377 | 0.342 | 0.351 | 0.392 | 0.410 |
| 1,2-Dichloropropane | 0.354 | 0.341 | 0.330 | 0.343 | 0.341 |
| cis-1,3-Dichloropropene | 0.456 | 0.461 | 0.454 | 0.507 | 0.518 |
| Trichloroethene | 0.380 | 0.336 | 0.319 | 0.343 | 0.342 |
| Dibromochloromethane | 0.227 | 0.270 | 0.271 | 0.330 | 0.344 |
| 1,1,2-Trichloroethane | 0.262 | 0.276 | 0.260 | 0.274 | 0.273 |
| Benzene | 1.557 | 1.419 | 1.359 | 1.405 | 1.376 |
| trans-1,3-Dichloropropene | 0.419 | 0.456 | 0.422 | 0.507 | 0.515 |
| 2-Chloroethyl Vinyl Ether | 0.074 | 0.098 | 0.094 | 0.088 | 0.098 |
| Bromoform | 0.143 | 0.170 | 0.166 | 0.212 | 0.236 |
| 4-Methyl-2-Pentanone | 0.291 | 0.407 | 0.315 | 0.304 | 0.323 |
| 2-Hexanone | 0.272 | 0.404 | 0.279 | 0.261 | 0.270 |
| Tetrachloroethene | 0.498 | 0.447 | 0.422 | 0.431 | 0.438 |
| 1,1,2,2-Tetrachloroethane | 0.977 | 0.819 | 0.749 | 0.774 | 0.762 |
| Toluene | 1.625 | 1.681 | 1.589 | 1.639 | 1.602 |
| Chlorobenzene | 1.088 | 1.100 | 1.015 | 1.039 | 1.039 |
| Ethylbenzene | 0.564 | 0.548 | 0.536 | 0.565 | 0.568 |
| Styrene | 0.999 | 1.064 | 1.007 | 1.065 | 1.080 |
| Xylene (Total) | 0.628 | 0.676 | 0.636 | 0.681 | 0.682 |
| Ethyl Ether | 0.284 | 0.351 | 0.314 | 0.310 | 0.321 |
| Acrolein | 0.083 | 0.083 | 0.082 | 0.080 | 0.082 |
| Freon TF | 0.288 | 0.400 | 0.411 | 0.389 | 0.420 |

* = All samples associated

BHM
8.12.08 96

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

| LAB FILE ID: | | RRF5: C28839 | RRF10: C28840 | RRF20: C28841 | | |
|-----------------------------|-------|---------------|----------------|---------------|--------|--|
| | | RRF50: C28842 | RRF100: C28843 | | | |
| COMPOUND | RRF5 | RRF10 | RRF20 | RRF50 | RRF100 | |
| NR Isopropanol | 0.024 | 0.023 | 0.022 | 0.022 | 0.022 | |
| NR Acetonitrile | 0.047 | 0.048 | 0.043 | 0.041 | 0.042 | |
| NR TBA | 0.044 | 0.065 | 0.041 | 0.039 | 0.040 | |
| Acrylonitrile | 0.139 | 0.146 | 0.141 | 0.139 | 0.144 | |
| MTBE | 1.108 | 1.221 | 1.194 | 1.143 | 1.194 | |
| Hexane | 0.324 | 0.267 | 0.280 | 0.308 | 0.324 | |
| DIPE | 0.979 | 1.118 | 1.117 | 1.072 | 1.092 | |
| NR Ethyl Acetate | 0.036 | 0.046 | 0.042 | 0.040 | 0.042 | |
| Vinyl Acetate | 0.509 | 0.526 | 0.548 | 0.528 | 0.556 | |
| Tetrahydrofuran | 0.160 | 0.154 | 0.147 | 0.142 | 0.150 | |
| Cyclohexane | 0.448 | 0.593 | 0.634 | 0.598 | 0.630 | |
| Isobutanol | | | | | | |
| Isopropyl Acetate | 0.572 | 0.687 | 0.636 | 0.616 | 0.640 | |
| n-Heptane | 0.484 | 0.404 | 0.426 | 0.464 | 0.468 | |
| n-Butanol | | | | | | |
| Propyl Acetate | 0.456 | 0.565 | 0.484 | 0.456 | 0.480 | |
| Butyl Acetate | 0.490 | 0.724 | 0.564 | 0.556 | 0.579 | |
| 1,2-Dibromoethane | 0.326 | 0.333 | 0.310 | 0.327 | 0.328 | |
| 1,3-Dichlorobenzene | 1.550 | 1.526 | 1.418 | 1.432 | 1.453 | |
| 1,4-Dichlorobenzene | 1.656 | 1.558 | 1.460 | 1.497 | 1.490 | |
| 1,2-Dichlorobenzene | 1.495 | 1.441 | 1.375 | 1.412 | 1.390 | |
| Naphthalene | 3.062 | 2.648 | 2.380 | 2.388 | 2.320 | |
| Methylnaphthalene (total) | | | | | | |
| Dimethylnaphthalene (total) | | | | | | |
| Dichlorodifluoromethane | 0.265 | 0.276 | 0.324 | 0.308 | 0.330 | |
| 1,1-Dichloropropene | 0.450 | 0.469 | 0.452 | 0.470 | 0.474 | |
| 1,2,4-Trichlorobenzene | 0.950 | 0.864 | 0.781 | 0.830 | 0.852 | |
| Hexachlorobutadiene | 0.376 | 0.228 | 0.210 | 0.211 | 0.224 | |
| NR 1,4-Dioxane | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | |
| Methyl Acrylate | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.273 | 0.297 | 0.294 | 0.329 | 0.345 | |
| 1,2,3-Trichlorobenzene | 0.911 | 0.799 | 0.752 | 0.765 | 0.766 | |
| 1,2,3-Trichloropropane | 0.250 | 0.274 | 0.254 | 0.248 | 0.246 | |
| 1,2,4-Trimethylbenzene | 2.386 | 2.307 | 2.238 | 2.273 | 2.255 | |
| 1,3,5-Trimethylbenzene | 2.221 | 2.330 | 2.232 | 2.329 | 2.292 | |
| 1,3-Dichloropropane | 0.587 | 0.605 | 0.553 | 0.580 | 0.581 | |
| 2,2-Dichloropropane | 0.428 | 0.426 | 0.423 | 0.460 | 0.450 | |
| 2-Chlorotoluene | 2.117 | 2.126 | 2.040 | 2.043 | 1.992 | |
| 4-Chlorotoluene | 2.262 | 2.206 | 2.119 | 2.154 | 2.131 | |

NR = Not Reported

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

| LAB FILE ID: | RRF5: C28839 | RRF10: C28840 | RRF20: C28841 | | |
|----------------------------|---------------|----------------|---------------|-------|--------|
| | RRF50: C28842 | RRF100: C28843 | | | |
| COMPOUND | RRF5 | RRF10 | RRF20 | RRF50 | RRF100 |
| Bromobenzene | 0.882 | 0.866 | 0.824 | 0.840 | 0.826 |
| Bromochloromethane | 0.189 | 0.181 | 0.185 | 0.185 | 0.186 |
| Dibromomethane | 0.193 | 0.198 | 0.189 | 0.199 | 0.197 |
| Isopropylbenzene | 1.544 | 1.588 | 1.527 | 1.599 | 1.583 |
| n-Butylbenzene | 0.559 | 0.480 | 0.470 | 0.471 | 0.505 |
| n-Propylbenzene | 3.386 | 3.446 | 3.351 | 3.389 | 3.316 |
| p-Isopropyltoluene | 2.193 | 2.150 | 2.093 | 2.214 | 2.239 |
| sec-Butylbenzene | 2.706 | 2.396 | 2.318 | 2.382 | 2.405 |
| tert-Butylbenzene | 1.917 | 1.830 | 1.793 | 1.857 | 1.874 |
| Allyl chloride | | | | | |
| Benzyl chloride | 0.140 | 0.257 | 0.224 | 0.264 | 0.310 |
| Epichlorohydrin | 0.030 | 0.037 | 0.029 | 0.027 | 0.028 |
| Isoprene | 0.368 | 0.506 | 0.521 | 0.497 | 0.541 |
| Methyl methacrylate | 0.246 | 0.299 | 0.261 | 0.256 | 0.270 |
| n-Pentane | 0.063 | 0.070 | 0.071 | 0.067 | 0.070 |
| Allyl alcohol | | | | | |
| 2-Octanol | | | | | |
| 2-Octanone | | | | | |
| Ethyl Acrylate | | | | | |
| Butyl Acrylate | | | | | |
| Butyl Methacrylate | | | | | |
| Ethyl methacrylate | | | | | |
| Ethanol | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 |
| Methyl Acetate | 0.112 | 0.101 | 0.098 | 0.095 | 0.099 |
| Methyl cyclohexane | 0.434 | 0.600 | 0.649 | 0.625 | 0.658 |
| Cyclohexanone | | | | | |
| p-Ethyltoluene | | | | | |
| 1,4-Diethylbenzene | | | | | |
| 1,2,4,5-Tetramethylbenzene | | | | | |
| Propylene Oxide | | | | | |
| Camphene (total) | | | | | |
| Camphor | | | | | |
| Amyl Acetate | | | | | |
| 2-Methylnaphthalene | | | | | |
| 1-Chlorohexane | | | | | |
| Chlorotrifluoromethane | | | | | |
| Chlorodifluoromethane | | | | | |
| tert-Amylmethyl Ether | | | | | |
| Iodomethane | | | | | |

NR

NR

NR = Not Reported

YAH
8.12.08

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

| LAB FILE ID: | RRF5: C28839 | RRF10: C28840 | RRF20: C28841 | | |
|-----------------------------|---------------|----------------|---------------|-------|--------|
| | RRF50: C28842 | RRF100: C28843 | | | |
| COMPOUND | RRF5 | RRF10 | RRF20 | RRF50 | RRF100 |
| trans-1,4-Dichloro-2-butene | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.114 | 0.118 | 0.120 | 0.130 | 0.138 |
| 1,3,5-Trichlorobenzene | | | | | |
| 1,2-Dichlorotrifluoroethane | | | | | |
| 1-Bromo-2-chloroethane | | | | | |
| 4-Chlorobenzotrifluoride | | | | | |
| 2-Chloropropene | | | | | |
| tert-Butyl ethyl ether | | | | | |
| 1,3-Butadiene | | | | | |
| n-Propanol | 0.003 | 0.002 | 0.002 | 0.002 | 0.003 |
| Acetaldehyde | | | | | |
| 1,2-Dichloroethane-d4 (SUR) | 0.382 | 0.358 | 0.344 | 0.384 | 0.400 |
| Toluene-d8 (SUR) | 1.325 | 1.243 | 1.249 | 1.285 | 1.332 |
| Bromofluorobenzene (SUR) | 0.929 | 0.826 | 0.822 | 0.832 | 0.869 |

NR

NR = Not Reported

ETH
8.12.08

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

RRF200: C28844

| COMPOUND | RRF200 |
|---------------------------|--------|
| Chloromethane | 0.429 |
| Bromomethane | 0.325 |
| Vinyl Chloride | 0.420 |
| Chloroethane | 0.205 |
| Methylene Chloride | 0.411 |
| * Acetone | 0.038 |
| Carbon Disulfide | 0.872 |
| Trichlorofluoromethane | 0.657 |
| 1,1-Dichloroethene | 0.383 |
| 1,1-Dichloroethane | 0.696 |
| trans-1,2-Dichloroethene | 0.424 |
| cis-1,2-Dichloroethene | 0.402 |
| Chloroform | 0.618 |
| 1,2-Dichloroethane | 0.458 |
| 2-Butanone | 0.066 |
| 1,1,1-Trichloroethane | 0.543 |
| Carbon Tetrachloride | 0.438 |
| Bromodichloromethane | 0.449 |
| 1,2-Dichloropropane | 0.364 |
| cis-1,3-Dichloropropene | 0.554 |
| Trichloroethene | 0.376 |
| Dibromochloromethane | 0.378 |
| 1,1,2-Trichloroethane | 0.285 |
| Benzene | 1.425 |
| trans-1,3-Dichloropropene | 0.548 |
| 2-Chloroethyl Vinyl Ether | |
| Bromoform | 0.272 |
| 4-Methyl-2-Pentanone | 0.324 |
| 2-Hexanone | 0.261 |
| Tetrachloroethene | 0.479 |
| 1,1,2,2-Tetrachloroethane | 0.787 |
| Toluene | 1.646 |
| Chlorobenzene | 1.083 |
| Ethylbenzene | 0.610 |
| Styrene | 1.129 |
| Xylene (Total) | 0.713 |
| Ethyl Ether | 0.314 |
| Acrolein | 0.083 |
| Freon TF | 0.424 |

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

* = All samples associated

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

RRF200: C28844

| | COMPOUND | RRF200 |
|----|-----------------------------|--------|
| NR | Isopropanol | 0.022 |
| NR | Acetonitrile | 0.040 |
| NR | TBA | 0.040 |
| | Acrylonitrile | 0.141 |
| | MTBE | 1.166 |
| | Hexane | 0.329 |
| | DIPE | 1.061 |
| NR | Ethyl Acetate | 0.041 |
| | Vinyl Acetate | 0.527 |
| | Tetrahydrofuran | 0.148 |
| | Cyclohexane | 0.638 |
| | Isobutanol | |
| | Isopropyl Acetate | 0.620 |
| | n-Heptane | 0.478 |
| | n-Butanol | |
| | Propyl Acetate | 0.467 |
| | Butyl Acetate | 0.553 |
| | 1,2-Dibromoethane | 0.338 |
| | 1,3-Dichlorobenzene | 1.545 |
| | 1,4-Dichlorobenzene | 1.560 |
| | 1,2-Dichlorobenzene | 1.458 |
| | Naphthalene | 2.290 |
| | Methylnaphthalene (total) | |
| | Dimethylnaphthalene (total) | |
| | Dichlorodifluoromethane | 0.339 |
| | 1,1-Dichloropropene | 0.510 |
| | 1,2,4-Trichlorobenzene | 0.937 |
| | Hexachlorobutadiene | 0.255 |
| NR | 1,4-Dioxane | 0.004 |
| | Methyl Acrylate | |
| | 1,1,1,2-Tetrachloroethane | 0.373 |
| | 1,2,3-Trichlorobenzene | 0.827 |
| | 1,2,3-Trichloropropane | 0.256 |
| | 1,2,4-Trimethylbenzene | 2.333 |
| | 1,3,5-Trimethylbenzene | 2.384 |
| | 1,3-Dichloropropane | 0.598 |
| | 2,2-Dichloropropane | 0.489 |
| | 2-Chlorotoluene | 2.044 |
| | 4-Chlorotoluene | 2.176 |

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

NR = Not Reported

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS3

Calibration Date(s): 07/23/08 07/23/08

Heated Purge: (Y/N) N

Calibration Time(s): 0946 1136

RRF200: C28844

| COMPOUND | RRF200 |
|----------------------------|--------|
| Bromobenzene | 0.880 |
| Bromochloromethane | 0.203 |
| Dibromomethane | 0.214 |
| Isopropylbenzene | |
| n-Butylbenzene | 0.557 |
| n-Propylbenzene | 3.307 |
| p-Isopropyltoluene | 2.408 |
| sec-Butylbenzene | 2.538 |
| tert-Butylbenzene | 2.016 |
| Allyl chloride | |
| Benzyl chloride | 0.330 |
| NR Epichlorohydrin | 0.024 |
| Isoprene | 0.538 |
| Methyl methacrylate | 0.270 |
| n-Pentane | 0.072 |
| Allyl alcohol | |
| 2-Octanol | |
| 2-Octanone | |
| Ethyl Acrylate | |
| Butyl Acrylate | |
| Butyl Methacrylate | |
| NR Ethyl methacrylate | |
| Ethanol | 0.004 |
| Methyl Acetate | 0.097 |
| Methyl cyclohexane | 0.674 |
| Cyclohexanone | |
| p-Ethyltoluene | |
| 1,4-Diethylbenzene | |
| 1,2,4,5-Tetramethylbenzene | |
| Propylene Oxide | |
| Camphene (total) | |
| Camphor | |
| Amyl Acetate | |
| 2-Methylnaphthalene | |
| 1-Chlorohexane | |
| Chlorotrifluoromethane | |
| Chlorodifluoromethane | |
| tert-Amylmethyl Ether | |
| Iodomethane | |

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

NR = Not Reported

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 0843

Lab File ID: C28880

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946

1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|------------------------------|---------------|---------------------|----------------|---------|--------------|------------------|-----------|
| Chloromethane | 0.4070000 | 0.4003556 | 0.4003556 | 0.1 | 1.63 | 50.00 | AVRG |
| Bromomethane | 0.2740000 | 0.2386647 | 0.2386647 | | 12.90 | 50.00 | AVRG |
| Vinyl Chloride | 0.3900000 | 0.4135860 | 0.4135860 | | -6.05 | 20.00 | AVRG |
| Chloroethane | 0.1980000 | 0.2346631 | 0.2346631 | | -18.52 | 50.00 | AVRG |
| Methylene Chloride | 0.4040000 | 0.4058105 | 0.4058105 | | -0.45 | 50.00 | AVRG |
| * Acetone | 50.293517 | 50.000000 | 0.0380697 | | -0.59 | 50.00 | LINR |
| Carbon Disulfide | 43.085434 | 50.000000 | 0.7418586 | | 13.83 | 50.00 | LINR |
| Trichlorofluoromethane | 0.5940000 | 0.6411412 | 0.6411412 | | -7.94 | 50.00 | AVRG |
| 1,1-Dichloroethene | 0.3650000 | 0.3680205 | 0.3680205 | | -0.83 | 20.00 | AVRG |
| 1,1-Dichloroethane | 0.6630000 | 0.6534485 | 0.6534485 | 0.1 | 1.44 | 50.00 | AVRG |
| trans-1,2-Dichloroethene | 0.3980000 | 0.4068290 | 0.4068290 | | -2.22 | 50.00 | AVRG |
| cis-1,2-Dichloroethene | 0.3810000 | 0.3828846 | 0.3828846 | | -0.49 | 50.00 | AVRG |
| Chloroform | 0.5750000 | 0.6160029 | 0.6160029 | | -7.13 | 20.00 | AVRG |
| 1,2-Dichloroethane | 0.4480000 | 0.4702719 | 0.4702719 | | -4.97 | 50.00 | AVRG |
| 2-Butanone | 0.0660000 | 0.0624844 | 0.0624844 | | 5.33 | 50.00 | AVRG |
| 1,1,1-Trichloroethane | 0.4820000 | 0.5357130 | 0.5357130 | | -11.14 | 50.00 | AVRG |
| Carbon Tetrachloride | 0.3690000 | 0.4127497 | 0.4127497 | | -11.86 | 50.00 | AVRG |
| Bromodichloromethane | 0.3870000 | 0.4221046 | 0.4221046 | | -9.07 | 50.00 | AVRG |
| 1,2-Dichloropropane | 0.3460000 | 0.3462082 | 0.3462082 | | -0.06 | 20.00 | AVRG |
| cis-1,3-Dichloropropene | 0.4920000 | 0.5263942 | 0.5263942 | | -6.99 | 50.00 | AVRG |
| Trichloroethene | 0.3490000 | 0.3542813 | 0.3542813 | | -1.51 | 50.00 | AVRG |
| Dibromochloromethane | 45.273211 | 50.000000 | 0.3341295 | | 9.45 | 50.00 | LINR |
| 1,1,2-Trichloroethane | 0.2720000 | 0.2699820 | 0.2699820 | | 0.74 | 50.00 | AVRG |
| Benzene | 1.4240000 | 1.4237428 | 1.4237428 | | 0.02 | 50.00 | AVRG |
| trans-1,3-Dichloropropene | 0.4780000 | 0.5126930 | 0.5126930 | | -7.26 | 50.00 | AVRG |
| NR 2-Chloroethyl Vinyl Ether | 0.0900000 | 0.0633408 | 0.0633408 | | 29.62 | 50.00 | AVRG |
| Bromoform | 51.154153 | 50.000000 | 0.2227028 | 0.1 | -2.31 | 50.00 | 2RDR |
| 4-Methyl-2-Pentanone | 0.3270000 | 0.3022097 | 0.3022097 | | 7.58 | 50.00 | AVRG |
| 2-Hexanone | 45.781251 | 50.000000 | 0.2411800 | | 8.44 | 50.00 | LINR |
| Tetrachloroethene | 0.4520000 | 0.4594747 | 0.4594747 | | -1.65 | 50.00 | AVRG |
| 1,1,2,2-Tetrachloroethane | 0.8110000 | 0.7451153 | 0.7451153 | 0.3 | 8.12 | 50.00 | AVRG |
| Toluene | 1.6300000 | 1.6482611 | 1.6482611 | | -1.12 | 20.00 | AVRG |
| Chlorobenzene | 1.0610000 | 1.0744637 | 1.0744637 | 0.3 | -1.27 | 50.00 | AVRG |
| Ethylbenzene | 0.5650000 | 0.5824043 | 0.5824043 | | -3.08 | 20.00 | AVRG |
| Styrene | 1.0570000 | 1.0840689 | 1.0840689 | | -2.56 | 50.00 | AVRG |
| Xylene (Total) | 0.6690000 | 0.7039293 | 0.7039293 | | -5.22 | 50.00 | AVRG |
| Ethyl Ether | 0.3160000 | 0.2956479 | 0.2956479 | | 6.44 | 50.00 | AVRG |
| Acrolein | 0.0820000 | 0.0801370 | 0.0801370 | | 2.27 | 99.00 | AVRG |
| Freon TF | 0.3890000 | 0.3971277 | 0.3971277 | | -2.09 | 50.00 | AVRG |
| NR Isopropanol | 0.0220000 | 0.0238496 | 0.0238496 | | -8.41 | 50.00 | AVRG |
| NR Acetonitrile | 0.0440000 | 0.0407634 | 0.0407634 | | 7.36 | 50.00 | AVRG |
| NR TBA | 1008.3025 | 1000.0000 | 0.0400546 | | -0.83 | 50.00 | LINR |

page 1 of 4

NR = Not Reported

* = up to 2 RRF's ³/₄ or %D's may fail, No qualifiers assigned

YHN
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 0843

Lab File ID: C28880

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946

1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-------------------------------|------------------|---------------------------|-------------------|------------|-----------------|---------------------|--------------|
| Acrylonitrile | 0.1420000 | 0.1341197 | 0.1341197 | | 5.55 | 50.00 | AVRG |
| MTBE | 1.1710000 | 1.0905357 | 1.0905357 | | 6.87 | 50.00 | AVRG |
| Hexane | 0.3050000 | 0.3095960 | 0.3095960 | | -1.51 | 50.00 | AVRG |
| DIPE | 1.0730000 | 1.0105476 | 1.0105476 | | 5.82 | 50.00 | AVRG |
| <i>NR</i> Ethyl Acetate | 0.0410000 | 0.0394742 | 0.0394742 | | 3.72 | 50.00 | AVRG |
| Vinyl Acetate | 0.5320000 | 0.4869081 | 0.4869081 | | 8.48 | 50.00 | AVRG |
| Tetrahydrofuran | 0.1500000 | 0.1413575 | 0.1413575 | | 5.76 | 50.00 | AVRG |
| Cyclohexane | 0.5900000 | 0.5739756 | 0.5739756 | | 2.72 | 50.00 | AVRG |
| Isobutanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Isopropyl Acetate | 0.6280000 | 0.5856169 | 0.5856169 | | 6.75 | 50.00 | AVRG |
| n-Heptane | 0.4540000 | 0.4548722 | 0.4548722 | | -0.19 | 50.00 | AVRG |
| n-Butanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Propyl Acetate | 0.4850000 | 0.4499087 | 0.4499087 | | 7.24 | 50.00 | AVRG |
| Butyl Acetate | 0.5780000 | 0.5102992 | 0.5102992 | | 11.71 | 50.00 | AVRG |
| 1,2-Dibromoethane | 0.3270000 | 0.3424026 | 0.3424026 | | -4.71 | 50.00 | AVRG |
| 1,3-Dichlorobenzene | 1.4870000 | 1.4266321 | 1.4266321 | | 4.06 | 50.00 | AVRG |
| 1,4-Dichlorobenzene | 1.5370000 | 1.4674121 | 1.4674121 | | 4.53 | 50.00 | AVRG |
| 1,2-Dichlorobenzene | 1.4280000 | 1.3770424 | 1.3770424 | | 3.57 | 50.00 | AVRG |
| Naphthalene | 2.5150000 | 2.3216920 | 2.3216920 | | 7.69 | 50.00 | AVRG |
| Methylnaphthalene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Dimethylnaphthalene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Dichlorodifluoromethane | 0.3070000 | 0.3393965 | 0.3393965 | | -10.55 | 50.00 | AVRG |
| 1,1-Dichloropropene | 0.4710000 | 0.4991004 | 0.4991004 | | -5.97 | 50.00 | AVRG |
| 1,2,4-Trichlorobenzene | 0.8690000 | 0.8209712 | 0.8209712 | | 5.53 | 50.00 | AVRG |
| <i>NR</i> Hexachlorobutadiene | 46.799228 | 50.000000 | 0.2317018 | | 6.40 | 50.00 | LINR |
| 1,4-Dioxane | 0.0040000 | 0.0050434 | 0.0050434 | | -26.08 | 50.00 | AVRG |
| Methyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,1,1,2-Tetrachloroethane | 0.3180000 | 0.3371089 | 0.3371089 | | -6.01 | 50.00 | AVRG |
| 1,2,3-Trichlorobenzene | 0.8030000 | 0.7488855 | 0.7488855 | | 6.74 | 50.00 | AVRG |
| 1,2,3-Trichloropropane | 0.2550000 | 0.2419866 | 0.2419866 | | 5.10 | 50.00 | AVRG |
| 1,2,4-Trimethylbenzene | 2.2990000 | 2.2513978 | 2.2513978 | | 2.07 | 50.00 | AVRG |
| 1,3,5-Trimethylbenzene | 2.2980000 | 2.3211177 | 2.3211177 | | -1.00 | 50.00 | AVRG |
| 1,3-Dichloropropane | 0.5840000 | 0.5779771 | 0.5779771 | | 1.03 | 50.00 | AVRG |
| 2,2-Dichloropropane | 0.4460000 | 0.4931607 | 0.4931607 | | -10.57 | 50.00 | AVRG |
| 2-Chlorotoluene | 2.0600000 | 1.9961888 | 1.9961888 | | 3.10 | 50.00 | AVRG |
| 4-Chlorotoluene | 2.1750000 | 2.0952149 | 2.0952149 | | 3.67 | 50.00 | AVRG |
| Bromobenzene | 0.8530000 | 0.8038570 | 0.8038570 | | 5.76 | 50.00 | AVRG |
| Bromochloromethane | 0.1880000 | 0.1914759 | 0.1914759 | | -1.85 | 50.00 | AVRG |
| Dibromomethane | 0.1980000 | 0.2074993 | 0.2074993 | | -4.80 | 50.00 | AVRG |
| Isopropylbenzene | 1.5680000 | 1.6750925 | 1.6750925 | | -6.83 | 50.00 | AVRG |
| n-Butylbenzene | 0.5070000 | 0.5008215 | 0.5008215 | | 1.22 | 50.00 | AVRG |
| n-Propylbenzene | 3.3660000 | 3.3718708 | 3.3718708 | | -0.17 | 50.00 | AVRG |

page 2 of 4

NR = Not Reported

BJH
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 0843

Lab File ID: C28880

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946 1136

NR
NR
NR

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-----------------------------|------------------|---------------------------|-------------------|------------|-----------------|---------------------|--------------|
| p-Isopropyltoluene | 2.2160000 | 2.2336587 | 2.2336587 | | -0.80 | 50.00 | AVRG |
| sec-Butylbenzene | 2.4580000 | 2.4350412 | 2.4350412 | | 0.93 | 50.00 | AVRG |
| tert-Butylbenzene | 1.8810000 | 1.8323993 | 1.8323993 | | 2.58 | 50.00 | AVRG |
| Allyl chloride | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Benzyl chloride | 37.451587 | 50.000000 | 0.2423350 | | 25.10 | 50.00 | LINR |
| Epichlorohydrin | 0.0290000 | 0.0263562 | 0.0263562 | | 9.12 | 50.00 | AVRG |
| Isoprene | 0.4950000 | 0.4858172 | 0.4858172 | | 1.86 | 50.00 | AVRG |
| Methyl methacrylate | 0.2670000 | 0.2425411 | 0.2425411 | | 9.16 | 50.00 | AVRG |
| n-Pentane | 0.0690000 | 0.0645657 | 0.0645657 | | 6.43 | 50.00 | AVRG |
| Allyl alcohol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Octanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Octanone | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Butyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Butyl Methacrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethyl methacrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethanol | 0.0040000 | 0.0045141 | 0.0045141 | | -12.85 | 50.00 | AVRG |
| Methyl Acetate | 0.1000000 | 0.0933650 | 0.0933650 | | 6.64 | 50.00 | AVRG |
| Methyl cyclohexane | 0.6070000 | 0.6340616 | 0.6340616 | | -4.46 | 50.00 | AVRG |
| Cyclohexanone | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| p-Ethyltoluene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,4-Diethylbenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2,4,5-Tetramethylbenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Propylene Oxide | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Camphene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Camphor | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Amyl Acetate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Methylnaphthalene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1-Chlorohexane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Chlorotrifluoromethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Chlorodifluoromethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| tert-Amylmethyl Ether | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Iodomethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| trans-1,4-Dichloro-2-butene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dibromo-3-chloropropane | 0.1280000 | 0.1337953 | 0.1337953 | | -4.53 | 50.00 | AVRG |
| 1,3,5-Trichlorobenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dichlorotrifluoroethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1-Bromo-2-chloroethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 4-Chlorobenzotrifluoride | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Chloropropene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| tert-Butyl ethyl ether | 0.0000000 | | | 0.01 | 0.00 | 50.00 | AVRG |
| 1,3-Butadiene | 0.0000000 | | | 0.01 | 0.00 | 50.00 | AVRG |

page 3 of 4

NR = Not Reported

GAN
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 0843

Lab File ID: C28880

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946 1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-----------------------------|------------------|---------------------------|-------------------|------------|-----------------|---------------------|--------------|
| n-Propanol | 0.0020000 | 0.0027114 | 0.0027114 | | -35.57 | 50.00 | AVRG |
| Acetaldehyde | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dichloroethane-d4 (SUR) | 0.3800000 | 0.4064178 | 0.4064178 | | -6.95 | 50.00 | AVRG |
| Toluene-d8 (SUR) | 1.2950000 | 1.2835418 | 1.2835418 | | 0.88 | 50.00 | AVRG |
| Bromofluorobenzene (SUR) | 0.8610000 | 0.8051597 | 0.8051597 | | 6.48 | 50.00 | AVRG |

NR

NR = Not Reported

6717
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3 Calibration Date: 07/24/08 Time: 2110
 Lab File ID: C28913 Init. Calib. Date(s): 07/23/08 07/23/08
 Init. Calib. Times: 0946 1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|---------------------------|---------------|---------------------|----------------|---------|--------------|------------------|-----------|
| Chloromethane | 0.4070000 | 0.4117557 | 0.4117557 | 0.1 | -1.17 | 50.00 | AVRG |
| Bromomethane | 0.2740000 | 0.3012183 | 0.3012183 | | -9.93 | 50.00 | AVRG |
| Vinyl Chloride | 0.3900000 | 0.4075592 | 0.4075592 | | -4.50 | 20.00 | AVRG |
| * Chloroethane | 0.1980000 | 0.2444183 | 0.2444183 | | -23.44 | 50.00 | AVRG |
| Methylene Chloride | 0.4040000 | 0.3870606 | 0.3870606 | | 4.19 | 50.00 | AVRG |
| * Acetone | 48.236436 | 50.000000 | 0.0365126 | | 3.53 | 50.00 | LINR |
| Carbon Disulfide | 40.504623 | 50.000000 | 0.6974214 | | 18.99 | 50.00 | LINR |
| Trichlorofluoromethane | 0.5940000 | 0.6359819 | 0.6359819 | | -7.07 | 50.00 | AVRG |
| 1,1-Dichloroethene | 0.3650000 | 0.3565065 | 0.3565065 | | 2.33 | 20.00 | AVRG |
| 1,1-Dichloroethane | 0.6630000 | 0.6538879 | 0.6538879 | 0.1 | 1.37 | 50.00 | AVRG |
| trans-1,2-Dichloroethene | 0.3980000 | 0.4001397 | 0.4001397 | | -0.54 | 50.00 | AVRG |
| cis-1,2-Dichloroethene | 0.3810000 | 0.3938703 | 0.3938703 | | -3.38 | 50.00 | AVRG |
| Chloroform | 0.5750000 | 0.6033529 | 0.6033529 | | -4.93 | 20.00 | AVRG |
| 1,2-Dichloroethane | 0.4480000 | 0.4611991 | 0.4611991 | | -2.95 | 50.00 | AVRG |
| 2-Butanone | 0.0660000 | 0.0603251 | 0.0603251 | | 8.60 | 50.00 | AVRG |
| 1,1,1-Trichloroethane | 0.4820000 | 0.5194839 | 0.5194839 | | -7.78 | 50.00 | AVRG |
| Carbon Tetrachloride | 0.3690000 | 0.4083465 | 0.4083465 | | -10.66 | 50.00 | AVRG |
| Bromodichloromethane | 0.3870000 | 0.4065011 | 0.4065011 | | -5.04 | 50.00 | AVRG |
| 1,2-Dichloropropane | 0.3460000 | 0.3433494 | 0.3433494 | | 0.77 | 20.00 | AVRG |
| cis-1,3-Dichloropropene | 0.4920000 | 0.5183197 | 0.5183197 | | -5.35 | 50.00 | AVRG |
| Trichloroethene | 0.3490000 | 0.3579209 | 0.3579209 | | -2.56 | 50.00 | AVRG |
| Dibromochloromethane | 44.593104 | 50.000000 | 0.3291101 | | 10.81 | 50.00 | LINR |
| 1,1,2-Trichloroethane | 0.2720000 | 0.2641556 | 0.2641556 | | 2.88 | 50.00 | AVRG |
| Benzene | 1.4240000 | 1.4106619 | 1.4106619 | | 0.94 | 50.00 | AVRG |
| trans-1,3-Dichloropropene | 0.4780000 | 0.4998047 | 0.4998047 | | -4.56 | 50.00 | AVRG |
| 2-Chloroethyl Vinyl Ether | 0.0900000 | 0.0926552 | 0.0926552 | | -2.95 | 50.00 | AVRG |
| Bromoform | 49.235243 | 50.000000 | 0.2139096 | 0.1 | 1.53 | 50.00 | 2RDR |
| 4-Methyl-2-Pentanone | 0.3270000 | 0.2886861 | 0.2886861 | | 11.72 | 50.00 | AVRG |
| 2-Hexanone | 43.185619 | 50.000000 | 0.2275060 | | 13.63 | 50.00 | LINR |
| Tetrachloroethene | 0.4520000 | 0.4565592 | 0.4565592 | | -1.01 | 50.00 | AVRG |
| 1,1,2,2-Tetrachloroethane | 0.8110000 | 0.7210014 | 0.7210014 | 0.3 | 11.10 | 50.00 | AVRG |
| Toluene | 1.6300000 | 1.6136421 | 1.6136421 | | 1.00 | 20.00 | AVRG |
| Chlorobenzene | 1.0610000 | 1.0692641 | 1.0692641 | 0.3 | -0.78 | 50.00 | AVRG |
| Ethylbenzene | 0.5650000 | 0.5829866 | 0.5829866 | | -3.18 | 20.00 | AVRG |
| Styrene | 1.0570000 | 1.0797802 | 1.0797802 | | -2.16 | 50.00 | AVRG |
| Xylene (Total) | 0.6690000 | 0.6950888 | 0.6950888 | | -3.90 | 50.00 | AVRG |
| Ethyl Ether | 0.3160000 | 0.2967142 | 0.2967142 | | 6.10 | 50.00 | AVRG |
| Acrolein | 0.0820000 | 0.0724615 | 0.0724615 | | 11.63 | 99.00 | AVRG |
| Freon TF | 0.3890000 | 0.3757705 | 0.3757705 | | 3.40 | 50.00 | AVRG |
| NR Isopropanol | 0.0220000 | 0.0194123 | 0.0194123 | | 11.76 | 50.00 | AVRG |
| NR Acetonitrile | 0.0440000 | 0.0371138 | 0.0371138 | | 15.65 | 50.00 | AVRG |
| NR TBA | 873.03571 | 1000.0000 | 0.0346811 | | 12.70 | 50.00 | LINR |

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NR = Not Reported

* = up to 2 RRF's $\frac{1}{2}$ / or %D's may fail,
 No qualifiers assigned

ETH
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 2110

Lab File ID: C28913

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946 1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-----------------------------|---------------|---------------------|----------------|---------|--------------|------------------|-----------|
| Acrylonitrile | 0.1420000 | 0.1288023 | 0.1288023 | | 9.29 | 50.00 | AVRG |
| MTBE | 1.1710000 | 1.0857545 | 1.0857545 | | 7.28 | 50.00 | AVRG |
| Hexane | 0.3050000 | 0.3324330 | 0.3324330 | | -8.99 | 50.00 | AVRG |
| DIPE | 1.0730000 | 1.0196387 | 1.0196387 | | 4.97 | 50.00 | AVRG |
| NR Ethyl Acetate | 0.0410000 | 0.0375631 | 0.0375631 | | 8.38 | 50.00 | AVRG |
| Vinyl Acetate | 0.5320000 | 0.4507635 | 0.4507635 | | 15.27 | 50.00 | AVRG |
| Tetrahydrofuran | 0.1500000 | 0.1329236 | 0.1329236 | | 11.38 | 50.00 | AVRG |
| Cyclohexane | 0.5900000 | 0.5638047 | 0.5638047 | | 4.44 | 50.00 | AVRG |
| Isobutanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Isopropyl Acetate | 0.6280000 | 0.5761003 | 0.5761003 | | 8.26 | 50.00 | AVRG |
| n-Heptane | 0.4540000 | 0.4325023 | 0.4325023 | | 4.74 | 50.00 | AVRG |
| n-Butanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Propyl Acetate | 0.4850000 | 0.4298230 | 0.4298230 | | 11.38 | 50.00 | AVRG |
| Butyl Acetate | 0.5780000 | 0.4988763 | 0.4988763 | | 13.69 | 50.00 | AVRG |
| 1,2-Dibromoethane | 0.3270000 | 0.3239570 | 0.3239570 | | 0.93 | 50.00 | AVRG |
| 1,3-Dichlorobenzene | 1.4870000 | 1.4633558 | 1.4633558 | | 1.59 | 50.00 | AVRG |
| 1,4-Dichlorobenzene | 1.5370000 | 1.5078086 | 1.5078086 | | 1.90 | 50.00 | AVRG |
| 1,2-Dichlorobenzene | 1.4280000 | 1.4194653 | 1.4194653 | | 0.60 | 50.00 | AVRG |
| Naphthalene | 2.5150000 | 2.3773215 | 2.3773215 | | 5.47 | 50.00 | AVRG |
| Methylnaphthalene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Dimethylnaphthalene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Dichlorodifluoromethane | 0.3070000 | 0.3307847 | 0.3307847 | | -7.75 | 50.00 | AVRG |
| 1,1-Dichloropropene | 0.4710000 | 0.4854664 | 0.4854664 | | -3.07 | 50.00 | AVRG |
| 1,2,4-Trichlorobenzene | 0.8690000 | 0.8646856 | 0.8646856 | | 0.50 | 50.00 | AVRG |
| Hexachlorobutadiene | 49.555607 | 50.000000 | 0.2453485 | | 0.89 | 50.00 | LINR |
| NR 1,4-Dioxane | 0.0040000 | 0.0039593 | 0.0039593 | | 1.02 | 50.00 | AVRG |
| Methyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,1,1,2-Tetrachloroethane | 0.3180000 | 0.3349494 | 0.3349494 | | -5.33 | 50.00 | AVRG |
| 1,2,3-Trichlorobenzene | 0.8030000 | 0.7916217 | 0.7916217 | | 1.42 | 50.00 | AVRG |
| 1,2,3-Trichloropropane | 0.2550000 | 0.2407628 | 0.2407628 | | 5.58 | 50.00 | AVRG |
| 1,2,4-Trimethylbenzene | 2.2990000 | 2.2843583 | 2.2843583 | | 0.64 | 50.00 | AVRG |
| 1,3,5-Trimethylbenzene | 2.2980000 | 2.3331402 | 2.3331402 | | -1.53 | 50.00 | AVRG |
| 1,3-Dichloropropane | 0.5840000 | 0.5711274 | 0.5711274 | | 2.20 | 50.00 | AVRG |
| 2,2-Dichloropropane | 0.4460000 | 0.4793335 | 0.4793335 | | -7.47 | 50.00 | AVRG |
| 2-Chlorotoluene | 2.0600000 | 2.0151746 | 2.0151746 | | 2.18 | 50.00 | AVRG |
| 4-Chlorotoluene | 2.1750000 | 2.1330055 | 2.1330055 | | 1.93 | 50.00 | AVRG |
| Bromobenzene | 0.8530000 | 0.8315806 | 0.8315806 | | 2.51 | 50.00 | AVRG |
| Bromochloromethane | 0.1880000 | 0.1880439 | 0.1880439 | | -0.02 | 50.00 | AVRG |
| Dibromomethane | 0.1980000 | 0.2046752 | 0.2046752 | | -3.37 | 50.00 | AVRG |
| Isopropylbenzene | 1.5680000 | 1.6554765 | 1.6554765 | | -5.58 | 50.00 | AVRG |
| n-Butylbenzene | 0.5070000 | 0.5215273 | 0.5215273 | | -2.86 | 50.00 | AVRG |
| n-Propylbenzene | 3.3660000 | 3.3907323 | 3.3907323 | | -0.73 | 50.00 | AVRG |

page 2 of 4

NR = Not Reported

ETH
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 2110

Lab File ID: C28913

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946

1136

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-----------------------------|------------------|---------------------------|-------------------|------------|-----------------|---------------------|--------------|
| p-Isopropyltoluene | 2.2160000 | 2.2709752 | 2.2709752 | | -2.48 | 50.00 | AVRG |
| sec-Butylbenzene | 2.4580000 | 2.4078267 | 2.4078267 | | 2.04 | 50.00 | AVRG |
| tert-Butylbenzene | 1.8810000 | 1.8757704 | 1.8757704 | | 0.28 | 50.00 | AVRG |
| Allyl chloride | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Benzyl chloride | 37.489448 | 50.000000 | 0.2425800 | | 25.02 | 50.00 | LINR |
| Epichlorohydrin | 0.0290000 | 0.0265345 | 0.0265345 | | 8.50 | 50.00 | AVRG |
| Isoprene | 0.4950000 | 0.4633401 | 0.4633401 | | 6.40 | 50.00 | AVRG |
| Methyl methacrylate | 0.2670000 | 0.2441606 | 0.2441606 | | 8.55 | 50.00 | AVRG |
| n-Pentane | 0.0690000 | 0.0595324 | 0.0595324 | | 13.72 | 50.00 | AVRG |
| Allyl alcohol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Octanol | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Octanone | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Butyl Acrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Butyl Methacrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethyl methacrylate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Ethanol | 0.0040000 | 0.0036224 | 0.0036224 | | 9.44 | 50.00 | AVRG |
| Methyl Acetate | 0.1000000 | 0.0866285 | 0.0866285 | | 13.37 | 50.00 | AVRG |
| Methyl cyclohexane | 0.6070000 | 0.6061751 | 0.6061751 | | 0.14 | 50.00 | AVRG |
| Cyclohexanone | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| p-Ethyltoluene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,4-Diethylbenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2,4,5-Tetramethylbenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Propylene Oxide | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Camphene (total) | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Camphor | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Amyl Acetate | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Methylnaphthalene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1-Chlorohexane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Chlorotrifluoromethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Chlorodifluoromethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| tert-Amylmethyl Ether | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| Iodomethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| trans-1,4-Dichloro-2-butene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dibromo-3-chloropropane | 0.1280000 | 0.1279537 | 0.1279537 | | 0.04 | 50.00 | AVRG |
| 1,3,5-Trichlorobenzene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dichlorotrifluoroethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1-Bromo-2-chloroethane | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 4-Chlorobenzotrifluoride | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 2-Chloropropene | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| tert-Butyl ethyl ether | 0.0000000 | | | 0.01 | 0.00 | 50.00 | AVRG |
| 1,3-Butadiene | 0.0000000 | | | 0.01 | 0.00 | 50.00 | AVRG |

page 3 of 4

NR = Not Reported

ETHN
8.12.08

FORM 7B
VOLATILE CONTINUING CALIBRATION CHECK

Instrument ID: VOAMS3

Calibration Date: 07/24/08 Time: 2110

Lab File ID: C28913

Init. Calib. Date(s): 07/23/08 07/23/08

Init. Calib. Times: 0946 1136

NR

| COMPOUND | RRF or AMOUNT | RRF50.000 or AMOUNT | CCAL RRF50.000 | MIN RRF | %D or %DRIFT | MAX %D or %DRIFT | CURV TYPE |
|-----------------------------|------------------|---------------------------|-------------------|------------|-----------------|---------------------|--------------|
| n-Propanol | 0.0020000 | 0.0023132 | 0.0023132 | | -15.66 | 50.00 | AVRG |
| Acetaldehyde | 0.0000000 | | | | 0.00 | 50.00 | AVRG |
| 1,2-Dichloroethane-d4 (SUR) | 0.3800000 | 0.3886233 | 0.3886233 | | -2.27 | 50.00 | AVRG |
| Toluene-d8 (SUR) | 1.2950000 | 1.2149970 | 1.2149970 | | 6.18 | 50.00 | AVRG |
| Bromofluorobenzene (SUR) | 0.8610000 | 0.8114504 | 0.8114504 | | 5.75 | 50.00 | AVRG |

NR = Not Reported

GAN
8.12.08

FD X193
VOCs

Site Name: Marathon
Project Number: NY95-219

Laboratory: Test America - Edison
Matrix: Groundwater

Field Duplicates

| Sample ID | Analyte | Units | Result | Q | RL | Difference | Qualify? |
|-----------|-----------------------|-------|--------|---|----|------------|----------|
| MW-7S | 1,1,1-Trichloroethane | ug/L | 0.4 | | 5 | | |
| MW-7SD | 1,1,1-Trichloroethane | ug/L | 0.3 | | 5 | 0.10 | no |

| Sample ID | Analyte | Units | Result | Q | RL | Difference | Qualify? |
|-----------|------------|-------|--------|---|----|------------|----------|
| MW-7S | Chloroform | ug/L | 0.6 | J | 5 | | |
| MW-7SD | Chloroform | ug/L | 0.6 | J | 5 | 0.00 | no |

| Sample ID | Analyte | Units | Result | Q | RL | Difference | Qualify? |
|-----------|------------------------|-------|--------|---|----|------------|----------|
| MW-7S | cis-1,2-Dichloroethene | ug/L | 2.4 | J | 5 | | |
| MW-7SD | cis-1,2-Dichloroethene | ug/L | 2.4 | J | 5 | 0.00 | no |

| Sample ID | Analyte | Units | Result | Q | RL | Difference | Qualify? |
|-----------|-------------------|-------|--------|---|----|------------|----------|
| MW-7S | Tetrachloroethene | ug/L | 4.8 | | 1 | | |
| MW-7SD | Tetrachloroethene | ug/L | 5 | | 1 | 0.20 | no |

| Sample ID | Analyte | Units | Result | Q | RL | RPD | Qualify? |
|-----------|-----------------|-------|--------|---|----|------|----------|
| MW-7S | Trichloroethene | ug/L | 68 | | 1 | | |
| MW-7SD | Trichloroethene | ug/L | 69 | | 1 | 1.46 | no |

Duplicate Criteria: Aqueous matrices <30 % RPD or $\leq \pm 1 \cdot RL$, Soil/Solid matrices <40 % RPD or $\leq \pm 2 \cdot RL$.

* - Denotes %RPD or difference outside criteria.

NA - Duplicate relative percent difference or difference cannot be calculated.

U / ND - Not detected.

8711
8.12.08

SUPPORT DOCUMENTATION
CONVENTIONALS

WET CHEMISTRY DATA VALIDATION SUMMARY

Site Name: Marathon
 Project Number: NV 95-219
 Sampling Date(s): 7.17-7.18.08

Laboratory: Test America - Edison
 Case /Order No.: X193

Parameter List: TCC
 Method: _____

The following table indicates the data validation criteria examined, any problems identified, and the QA action applied.

| Data Validation Criteria: | accept | FYI | qualify | Comments |
|-----------------------------------|--------|-----|---------|-----------------------|
| Holding Times | ✓ | | | DA = 3-4 |
| Calibration Curve | ✓ | | | |
| Initial Calibration | ✓ | | | |
| Continuing Calibration | ✓ | | | |
| Laboratory Control Sample Results | ✓ | | | |
| Blank Analysis Results | ✗ | ✗ | ✓ | |
| Duplicate Analysis Results | | | | NA |
| Field Duplicate Analysis Results | ✓ | | | MWD - 75 MWD - 7SD |
| Matrix Spike Analysis Results | ✓ | | | |
| Quantitation/Detection Limits | ✓ | | | |
| Overall Assessment of Data | ✓ | | | |
| Other: | | | | |

General Comments: _____

Accept - No qualification required.
 FYI - For your information only, no qualification necessary.
 Qualify - Qualify as rejected, estimated or biased
 NA - Not applicable

QA Scientist Erica Nicholson *ems*
 Date 8.12.08

Lab Job No: X193

Matrix: WATER

Site: Marathon

QA Batch: 3619

Total Organic Carbon

| Lab ID | Client ID | Date Sampled | Date Analyzed | Percent Moisture | DF | Analytical Result Units: mg/l | Reporting Limit Units: mg/l |
|--------|-------------|--------------|---------------|------------------|-----|----------------------------------|--------------------------------|
| 936640 | MB-3 | 07/17/08 | 07/21/08 | - | 1.0 | 1.1 <i>u</i> | 1.00* |
| 936641 | MW-4 | 07/18/08 | 07/21/08 | - | 1.0 | ND | 1.00* |
| 936642 | MW-7S | 07/18/08 | 07/21/08 | - | 1.0 | 1.3 <i>u</i> | 1.00* |
| 936643 | MW-7SD | 07/18/08 | 07/21/08 | - | 1.0 | 1.4 <i>u</i> | 1.00* |
| 936644 | EB-1-071808 | 07/18/08 | 07/21/08 | - | 1.0 | ND | 1.00* |

* Reported RL is adjusted for Dilution Factor and/or Percent Moisture.

** The unadjusted RL for Total Organic Carbon = 1.0 mg/l.

BLANKS
Conventionals

| Blank ID | Analyte | Blank Conc | Units | Blank*10 or Blank*5 | Units | Samples | Sample Conc | Units | Qualify? |
|------------------------------|----------------------|------------|-------|---------------------|-------|-------------|-------------|-------|----------|
| Initial calibration blank | Total Organic Carbon | 0.233 | mg/l | 1.165 | mg/l | MB-3 | 1.1 | mg/l | * |
| Initial calibration blank | Total Organic Carbon | 0.233 | mg/l | 1.165 | mg/l | MB-4 | ND | mg/l | |
| Initial calibration blank | Total Organic Carbon | 0.233 | mg/l | 1.165 | mg/l | MW-7S | 1.3 | mg/l | |
| Initial calibration blank | Total Organic Carbon | 0.233 | mg/l | 1.165 | mg/l | MW-7SD | 1.4 | mg/l | |
| Initial calibration blank | Total Organic Carbon | 0.233 | mg/l | 1.165 | mg/l | EB-1-071808 | ND | mg/l | |
| Continuing calibration blank | Total Organic Carbon | 0.325 | mg/l | 1.625 | mg/l | MB-3 | 1.1 | mg/l | * |
| Continuing calibration blank | Total Organic Carbon | 0.325 | mg/l | 1.625 | mg/l | MB-4 | ND | mg/l | |
| Continuing calibration blank | Total Organic Carbon | 0.325 | mg/l | 1.625 | mg/l | MW-7S | 1.3 | mg/l | * |
| Continuing calibration blank | Total Organic Carbon | 0.325 | mg/l | 1.625 | mg/l | MW-7SD | 1.4 | mg/l | * |
| Continuing calibration blank | Total Organic Carbon | 0.325 | mg/l | 1.625 | mg/l | EB-1-071808 | ND | mg/l | |

* Sample Concentration is < 10X (or 5X) blank concentration, Qualified as "U"

EHA
8.12.08

| | Sample Name | Sample ID | Origin | Dilut | Result | Status | Date / Time | Vial |
|-------|---------------|---------------|----------------------------------|-------|------------|-----------|-----------------|------|
| 1 | ICV | ICV | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:48.13 | Completed | 7/21/2008 11:44 | 1 |
| * 2 | ICB | ICB | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.233 | Completed | 7/21/2008 12:03 | 2 |
| 3 | PB | PB | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.204 | Completed | 7/21/2008 12:22 | 3 |
| 4 | LCS(P151-516) | LCS(P151-516) | C:\TOC3201\Methods\method 5310b. | 2.00 | NPOC:88.33 | Completed | 7/21/2008 1:11 | 4 |
| 5 | W943 | 934807B | C:\TOC3201\Methods\method 5310b. | 5.00 | NPOC:113.9 | Completed | 7/21/2008 2:17 | 5 |
| 6 | W943 | 934808B | C:\TOC3201\Methods\method 5310b. | 5.00 | NPOC:111.9 | Completed | 7/21/2008 2:37 | 6 |
| 7 | X037 | 935551C | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.882 | Completed | 7/21/2008 2:57 | 7 |
| 8 | X037 | 935553C | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:4.618 | Completed | 7/21/2008 3:16 | 8 |
| 9 | X067 | 935750A | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:24.81 | Completed | 7/21/2008 3:36 | 9 |
| 10 | X078 | 935845H | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:1.512 | Completed | 7/21/2008 3:55 | 10 |
| 11 | X078 | 935846H | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:56.79 | Completed | 7/21/2008 4:15 | 11 |
| 12 | X078 | 935847H | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.534 | Completed | 7/21/2008 4:34 | 12 |
| 13 | CCV | CCV | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:48.18 | Completed | 7/21/2008 4:55 | 13 |
| * 14 | CCB | CCB | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.325 | Completed | 7/21/2008 5:14 | 14 |
| 15 | X103 | 936028C | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.817 | Completed | 7/21/2008 5:33 | 15 |
| 16 | X193 | 936640J | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:1.112 | Completed | 7/21/2008 5:52 | 16 |
| 17 | X193 | 936640J MS | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:50.73 | Completed | 7/21/2008 6:12 | 17 |
| 18 | X193 | 936640J MSD | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:50.58 | Completed | 7/21/2008 6:32 | 18 |
| 19 | X193 | 936641D | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.819 | Completed | 7/21/2008 6:52 | 19 |
| 20 | X193 | 936642D | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:1.255 | Completed | 7/21/2008 7:11 | 20 |
| 21 | X193 | 936643D | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:1.362 | Completed | 7/21/2008 7:30 | 21 |
| 22 | X193 | 936644D | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.324 | Completed | 7/21/2008 7:49 | 22 |
| 23 | CCV | CCV | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:46.69 | Completed | 7/21/2008 8:09 | 23 |
| NA 24 | CCB | CCB | C:\TOC3201\Methods\method 5310b. | 1.00 | NPOC:0.205 | Completed | 7/21/2008 8:28 | 24 |

DATE : 7/21/08 (5310B) HV

JOB : W943, X037, X067

X078, X103, X193

BATCH : 3618, 3619

T(0993-0997)-08

B-0926-08: TOC 2,000ppm 1^o STOCK

B-0927-08: TOC 2000ppm SECONDARY SOURCE

LCS (P151-516) : 90.6 (83.8 - 106)

NA - No associated samples

* = All samples associated

Site Name: Marathon
Project Number: NY95-219

Laboratory: Test America - Edison
Matrix: Groundwater

Field Duplicates

| Sample ID | Analyte | Units | Result | Q | RL | Difference | Qualify? |
|-----------|----------------------|-------|--------|---|----|------------|----------|
| MW-7S | Total Organic Carbon | mg/L | 1.3 | | 1 | | |
| MW-7SD | Total Organic Carbon | mg/L | 1.4 | | 1 | 0.10 | no |

Duplicate Criteria: Aqueous matrices <30 % RPD or <± 1*RL, Soil/Solid matrices <40 %RPD or <± 2*RL.

* - Denotes %RPD or difference outside criteria.

NA - Duplicate relative percent difference or difference cannot be calculated.

U / ND - Not detected.

BHN
8.12.08

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‘

DATA VALIDATION REPORT
OF
SEDIMENT SAMPLES
COLLECTED ON NOVEMBER 11, 2008
FOR
INORGANIC AND CONVENTIONAL ANALYSES

Laboratory Case Number B772 and C945

PREPARED FOR:

GOULD ELECTRONICS INC.
MARATHON SITE
COLD SPRING, NEW YORK

PREPARED BY:

ADVANCED GEOSERVICES CORP
WEST CHESTER, PENNSYLVANIA

February 9, 2009
Project Number NY 95-219-03

DATA VALIDATION REPORT INORGANIC COMPOUNDS

INTRODUCTION

This data validation report addresses the organic results from the sediment samples collected from the Marathon Site on November 11, 2008, in Cold Spring, New York. Samples were analyzed by Test America in Edison, NJ (TA-Edison) by USEPA SW-846 methods. The data were reported by TA-Edison under sample delivery groups (SDG) B772 and C945.

The qualified analytical results are presented on the data summary table. The data summary table lists both non-detected and detected results. Support documentation summarizing the specifics of this review is presented at the end of this report.

INORGANIC COMPOUNDS

Six sediment samples, and one equipment blank sample were collected and analyzed for cadmium by USEPA SW-846 Method 6010B.

This review has been performed with guidance from the USEPA's *National Functional Guideline for Inorganic Data Review* (July 2002), and USEPA Region V *Standard Operating Procedure for Validation of CLP Inorganic Data* (1993). The findings presented in this report are based upon a review of all data supplied by the laboratory. The information examined consists of sample results, analytical holding times, initial and continuing calibrations, blank analysis results, ICP interference check sample recoveries, duplicate results, matrix spike/matrix spike duplicate (MS/MSD) recoveries and relative percent differences (RPDs, serial dilution, laboratory control samples results, and field duplicates.

Holding times were met for all samples. All analytes and system monitoring compounds were within the method-required limits for the initial and continuing calibrations (90-110%). No equipment blank contamination was present. Sample EFC-6S was the field duplicate of EFC-1S. Field duplicate results were precise. The percent recoveries for the MS and MSD, and LCS were acceptable. Laboratory duplicates and serial dilutions were acceptable.

QUALIFIERS

No qualification was required.

SUMMARY

The results are acceptable as reported.

DATA VALIDATION REPORT CONVENTIONALS

INTRODUCTION

This data validation report addresses the conventional analysis results from the sediment samples collected from the Marathon Site on November 11, 2008, in Cold Spring, New York. All samples were analyzed by Test America in Edison, NJ (TA-Edison). Sediment samples were analyzed for total organic carbon (TOC) by USEPA *Methods of Chemical Analysis of Water and Wastes*. The sample results were reported under TA-Edison sample delivery groups (SDG) B772 and C945.

The qualified analytical results are presented on the data summary table. The data summary table lists both non-detected and detected results. Support documentation summarizing the specifics of this review is presented at the end of this report.

CONVENTIONAL PARAMETERS, METABOLIC ACIDS AND HYDROGEN GAS

Six sediment samples, and one equipment blank sample were collected and analyzed for TOC by USEPA *Methods of Chemical Analysis of Water and Wastes*.

This conventional data review has been performed with guidance from the USEPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", July, 2002. The findings presented in this report are based upon a review of all data supplied by the laboratory. The information examined consists of sample results, analytical holding times, initial and continuing calibration standard recoveries, calibration curves, blank analysis results, matrix spike (MS) recoveries, matrix spike duplicate (MSD) recoveries, laboratory and field duplicate relative percent differences (RPD), and laboratory control sample results.

Holding times were met for all parameters, except those listed below. Initial and continuing calibration standard sample results were accurate. Calibration curves had correlation coefficients within QC limits.

The laboratory and equipment blanks were free of contamination. Sample EFC-6S was the field duplicate of EFC-1S. Field duplicate results were precise. Laboratory control sample, laboratory duplicates, MS, and MSD percent recoveries were acceptable.

QUALIFIERS

The holding time (28 days) for TOC was exceeded by 6 days. Sample results TOC for samples EB-1 were qualified as estimated (UJ).

SUMMARY

The results are acceptable as reported.

QUALIFIER CODES

- U - Denotes the compound or analyte was not detected at or above the associated detection limit.
- J - Denotes an estimated value or the result is below the quantitation limit.
- UJ - Denotes an estimated detection or quantitation limit.
- R - Denotes a rejected result. The analyte may or may not be present.

Data review was performed by an experienced quality assurance scientist independent of the analytical laboratory.

This is to certify that I have examined the analytical data and based on the information provided to me by the laboratory, in my professional judgment the data are acceptable for use except where qualified with qualifiers that modify the usefulness of those individual values.

Erica Nicholson
Quality Assurance Scientist

2.9.09
Date

Jay M. Stief
Quality Assurance Manager

2/9/2009
Date

TABLES

MARATHON
Sediment Sampling, 11/7/2008
TestAmerica# B772, C945 Project# NY-95219

| Sample Location | EFC-1S | EFC-2S | EFC-6S | EFC-5S | EFC-4S | EFC-3S | EB-1 | | | | | | | | | | |
|----------------------|-----------|-----------|--------------|-----------|-----------|-----------|-----------------|--------|------|-------|------|-------|-----|------|--|----|-----|
| Lab ID | 965570 | 965571 | 965572 | 965573 | 965574 | 965575 | 965576 / 972715 | | | | | | | | | | |
| Sample Date | 11/7/2008 | 11/7/2008 | 11/7/2008 | 11/7/2008 | 11/7/2008 | 11/7/2008 | 11/7/2008 | | | | | | | | | | |
| Matrix | Sediment | Sediment | Sediment | Sediment | Sediment | Sediment | Aqueous | | | | | | | | | | |
| Remarks | | | FD of EFC-2S | | | | Equipment Blank | | | | | | | | | | |
| Parameter | Units | Result | Q | RL | Result | Q | RL | Result | Q | RL | | | | | | | |
| Total Metals | | | | | | | | | | | | | | | | | |
| Cadmium | mg/kg | 4.9 | 0.33 | 79.4 | 0.39 | 62.3 | 0.37 | 8.6 | 0.19 | 31.4 | 0.37 | 0.32 | J | 0.22 | | U | 0.6 |
| Conventionals | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | mg/kg | 36500 | 100 | 46300 | 100 | 48700 | 100 | 34200 | 100 | 51100 | 100 | 24600 | 100 | | | UJ | 1 |

QA Scientist  Date 2/9/2009

SUPPORT DOCUMENTATION
INORGANICS

INORGANIC DATA VALIDATION SUMMARY

Site Name: Marathon
 Project Number: NY95-219
 Sampling Date(s): 11-7-08

Laboratory: Test America - Edison
 Case /Order No.: 3772

Compound List: TAL Priority Pollutant Appendix IX Other Cd
 Method: CLP SOW ILMO4 40 CFR 136 SW-846 Method 6010B Other _____

The following table indicates the data validation criteria examined, any problems identified, and the QA action applied.

| Data Validation Criteria: | accept | FYI | qualify | Comments |
|--|--------|-----|---------|------------------|
| Holding Times | ✓ | | | DA-8 |
| Initial Calibrations | ✓ | | | |
| Continuing Calibrations | ✓ | | | |
| CRDL Standards | | | | NA |
| Blank Analysis Results | | ✓ | | |
| ICP Interference Check Sample Recoveries | ✓ | | | |
| Duplicate Results | ✓ | | | |
| Field Duplicate Results | ✓ | | | EFC-2S EFC-6S |
| Spike Analysis Recoveries | ✓ | | | |
| Serial Dilution Results | ✓ | | | |
| Laboratory Control Sample Results | ✓ | | | |
| Furnace AA QC Analysis | | | | NA |
| Quantitation/Detection Limits | ✓ | | | |
| Overall Assessment of Data | ✓ | | | |
| Other: | | | | |

General Comments: _____

Accept - No qualification required.
 FYI - For your information only, no qualification necessary.
 Qualify - Qualify as rejected, estimated or biased
 NA - Not applicable.
 NR - Not reviewed.

QA Scientist Terica Nicholson
 Date 2-3-09

Client ID: EFC-2S
Site: Marathon

Lab Sample No: 965571
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: SOLID
Level: LOW
% Moisture: 69.0

METALS ANALYSIS

| <u>Analyte</u> | Analytical Result Units: mg/kg (Dry Weight) | Instrument Detection Limit | <u>Qual</u> | <u>M</u> |
|----------------|--|----------------------------------|-------------|----------|
| Cadmium | 79.4 | 0.39 | | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

CHW
2-3-09

Client ID: EFC-6S
Site: Marathon

Lab Sample No: 965572
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: SOLID
Level: LOW
% Moisture: 67.4

METALS ANALYSIS

| <u>Analyte</u> | Analytical Result Units: mg/kg <u>(Dry Weight)</u> | Instrument Detection <u>Limit</u> | <u>Qual</u> | <u>M</u> |
|----------------|---|---|-------------|----------|
| Cadmium | 62.3 | 0.37 | | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: EFC-5S
Site: Marathon

Lab Sample No: 965573
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: SOLID
Level: LOW
% Moisture: 37.2

METALS ANALYSIS

| <u>Analyte</u> | Analytical Result Units: mg/kg <u>(Dry Weight)</u> | Instrument Detection <u>Limit</u> | <u>Qual</u> | <u>M</u> |
|----------------|---|---|-------------|----------|
| Cadmium | 8.6 | 0.19 | | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: EFC-4S
Site: Marathon

Lab Sample No: 965574
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: SOLID
Level: LOW
% Moisture: 67.5

METALS ANALYSIS

| <u>Analyte</u> | Analytical Result Units: mg/kg <u>(Dry Weight)</u> | Instrument Detection <u>Limit</u> | <u>Qual</u> | <u>M</u> |
|----------------|---|---|-------------|----------|
| Cadmium | 31.4 | 0.37 | | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: EFC-3S
Site: Marathon

Lab Sample No: 965575
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: SOLID
Level: LOW
% Moisture: 46.6

METALS ANALYSIS

| <u>Analyte</u> | Analytical Result Units: mg/kg (Dry Weight) | Instrument Detection Limit | <u>Qual</u> | <u>M</u> |
|----------------|--|----------------------------------|-------------|----------|
| Cadmium | 0.32 | 0.22 | <i>B</i> | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: EB-1
Site: Marathon

Lab Sample No: 965576
Lab Job No: B772

Date Sampled: 11/07/08
Date Received: 11/11/08

Matrix: WATER
Level: LOW

METALS ANALYSIS

| <u>Analyte</u> | <u>Analytical Result Units: ug/l</u> | <u>Instrument Detection Limit</u> | <u>Qual</u> | <u>M</u> |
|----------------|--|---|-------------|----------|
| Cadmium | ND | 0.60 | | P |

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

BLANKS

Lab Name: TESTAMERICA _____

Lab Code: 12028_ Lab Job No.: B772

Batch No.: 25488_

Preparation Blank Matrix (soil/water): SOIL_

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

| Analyte | Initial Calib. Blank (ug/L) | | Continuing Calibration Blank (ug/L) | | | | | | Preparation Blank | | M |
|-----------|-----------------------------|---|-------------------------------------|---|-----|---|-----|---|-------------------|---|----|
| | | C | 1 | C | 2 | C | 3 | C | | C | |
| Aluminum | | | | | | | | | | | NR |
| Antimony | -6.4 | B | 6.2 | U | 6.2 | U | 6.2 | U | 0.620 | U | P |
| Arsenic | 4.7 | U | 4.7 | U | 4.7 | U | 4.7 | U | 0.470 | U | P |
| Barium | | | | | | | | | | | NR |
| Beryllium | | | | | | | | | | | NR |
| Cadmium | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.060 | U | P |
| Calcium | | | | | | | | | | | NR |
| Chromium | | | | | | | | | | | NR |
| Cobalt | | | | | | | | | | | NR |
| Copper | 4.8 | U | 4.8 | U | 4.8 | U | 4.8 | U | 0.480 | U | P |
| Iron | | | | | | | | | | | NR |
| Lead | 2.8 | B | 2.7 | U | 2.7 | U | 2.7 | U | 0.270 | U | P |
| Magnesium | | | | | | | | | | | NR |
| Manganese | | | | | | | | | | | NR |
| Mercury | | | | | | | | | | | NR |
| Nickel | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 0.240 | U | P |
| Potassium | | | | | | | | | | | NR |
| Selenium | | | | | | | | | | | NR |
| Silver | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 0.250 | U | P |
| Sodium | | | | | | | | | | | NR |
| Thallium | | | | | | | | | | | NR |
| Vanadium | | | | | | | | | | | NR |
| Zinc | | | | | | | | | | | NR |
| Molybdenu | | | | | | | | | | | NR |

NR = Not Reported

FD B772
Metals

Site Name: Marathon
Project Number: NY-95-219

Laboratory: Test America - Edison
Matrix: Sediment

Field Duplicates

| Sample ID | Analyte | Units | Result | Q | RL | RPD | Qualify? |
|-----------|---------|-------|--------|---|------|-------|----------|
| EFC-2S | Cadmium | mg/Kg | 79.4 | | 0.39 | | |
| EFC-6S | Cadmium | mg/Kg | 62.3 | | 0.37 | 24.14 | no |

Duplicate Criteria: Aqueous matrices <30 % RPD or <± 1*RL, Soil/Solid matrices <40 %RPD or <± 2*RL.

* - Denotes %RPD or difference outside criteria.

NA - Duplicate relative percent difference or difference cannot be calculated.

U / ND - Not detected.

JHW
2.3.08

SUPPORT DOCUMENTATION
CONVENTIONALS

WET CHEMISTRY DATA VALIDATION SUMMARY

Site Name: Marathon
 Project Number: NY95-219
 Sampling Date(s): 11.7.08

Laboratory: Test America - Edison
 Case /Order No.: B772, C945

Parameter List: TAC
 Method: _____

The following table indicates the data validation criteria examined, any problems identified, and the QA action applied.

| Data Validation Criteria: | accept | FYI | qualify | Comments |
|-----------------------------------|-------------------------------------|--------------------------|-------------------------------------|----------------------------------|
| Holding Times | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | EB-1 ran 6 days beyond hold time |
| Calibration Curve | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Initial Calibration | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Continuing Calibration | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Laboratory Control Sample Results | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Blank Analysis Results | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Duplicate Analysis Results | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Field Duplicate Analysis Results | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | EFC-25 EFC-LS |
| Matrix Spike Analysis Results | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Quantitation/Detection Limits | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Overall Assessment of Data | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

General Comments: _____

Accept - No qualification required.
 FYI - For your information only, no qualification necessary.
 Qualify - Qualify as rejected, estimated or biased
 NA - Not applicable

QA Scientist Yepica Nicholson *gms*
 Date 2.3.09

Lab Job No: B772

Matrix: SOIL

Site: Marathon

QA Batch: 3704

Total Organic Carbon

| Lab ID | Client ID | Date Sampled | Date Analyzed | Percent Moisture | DF | Analytical Result Units: mg/kg | Reporting Limit Units: mg/kg |
|--------|-----------|--------------|---------------|------------------|-----|--------------------------------|------------------------------|
| 965570 | EFC-1S | 11/07/08 | 11/23/08 | 63.1 | 1.0 | 36500 | 271.00* |
| 965571 | EFC-2S | 11/07/08 | 11/23/08 | 69.0 | 1.0 | 46300 | 322.58* |
| 965572 | EFC-6S | 11/07/08 | 11/23/08 | 67.4 | 1.0 | 48700 | 306.75* |
| 965573 | EFC-5S | 11/07/08 | 11/23/08 | 37.2 | 1.0 | 34200 | 159.24* |
| 965574 | EFC-4S | 11/07/08 | 11/23/08 | 67.5 | 1.0 | 51100 | 307.69* |
| 965575 | EFC-3S | 11/07/08 | 11/23/08 | 46.6 | 1.0 | 24600 | 187.27* |

* Reported RL is adjusted for Dilution Factor and/or Percent Moisture.

** The unadjusted RL for Total Organic Carbon = 100 mg/kg.

Lab Job No: C945

Site: Marathon

Matrix: WATER

QA Batch: 3719

Total Organic Carbon

| Lab ID | Client ID | Date Sampled | Date Analyzed | Percent Moisture | DF | Analytical Result Units: mg/l | Reporting Limit Units: mg/l |
|--------|-----------|--------------|---------------|------------------|-----|----------------------------------|--------------------------------|
| 972715 | EB-1 | 11/07/08 | 12/11/08 | - | 1.0 | <i>ND UJ</i> | 1.00* |

* Reported RL is adjusted for Dilution Factor and/or Percent Moisture.

** The unadjusted RL for Total Organic Carbon = 1.0 mg/l.

CHD
2-3-09

FD B772
Conventionals

Site Name: Marathon
Project Number: NY-95-219

Laboratory: Test America - Edison
Matrix: Sediment

Field Duplicates

| Sample ID | Analyte | Units | Result | Q | RL | RPD | Qualify? |
|-----------|----------------------|-------|--------|---|-----|------|----------|
| EFC-2S | Total Organic Carbon | mg/Kg | 46300 | | 100 | | |
| EFC-6S | Total Organic Carbon | mg/Kg | 48700 | | 100 | 5.05 | no |

Duplicate Criteria: Aqueous matrices <30 % RPD or <± 1*RL, Soil/Solid matrices <40 %RPD or <± 2*RL.

* - Denotes %RPD or difference outside criteria.

NA - Duplicate relative percent difference or difference cannot be calculated.

U / ND - Not detected.

EHJ
2-3-08