ENGINEERING ARCHITECTURE ENVIRONMENTAL



OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 800-571-6677 • 920-735-6900 FAX 920-830-6100 WWW.OMNNI.COM

July 1, 2009

Mr. Chris F. Stempa Pretreatment and Biosolids Manager Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, WI 54915-2758

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JUL 0 2 2009 TRACKED 43 REVIEWED

# RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin Compliance Report, Industrial User (Wastewater Discharge) Permit # 09-21

Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the quarterly process compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 09-21, issued on May 29, 2009.

The flow monitoring and sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve (usually one-to-three days prior to sampling) to allow water to collect in the equalization tank. The discharge valve was reopened and the composite sample was collected.

From the sample collected, a new, laboratory provided, plastic 250 ml sample container was filled. This unfiltered, unpreserved sample was analyzed for hexavalent chromium by Pace Analytical Services laboratory. (See laboratory chains of custody and laboratory reports, attached.)

If the monthly total chromium sample was prepared during the sampling event, water from the collected discharge sample was filtered through a 0.45 µm filter and then poured into a new, laboratory provided, plastic 250 ml sample container. The sampling container contained nitric acid as a preservative. The sample was analyzed for total dissolved chromium by Pace Analytical Services laboratory.

After the laboratory samples were prepared, pH was measured with a Hach pH Pocket Pal Tester from the remaining collected discharge sample.

The table below summarizes the total metered discharge readings, pH measurements, and laboratory analysis. Monthly discharge totals were calculated by linear interpolation of the actual meter readings.

|             | 1420 . 4                            | -h. 171                                      |   |                                   |     |  |  |
|-------------|-------------------------------------|--|---|-----------------------------------|-----|--|--|
|             | <b>CLIVED</b>                       | 1251   | OUTF  | ALL 001                           |     |  |  |
| Date Actual | Date<br>For Linear<br>Interpolation | Metered<br>Discharge<br>Reading<br>(gallons) | Gallons<br>Discharged<br>Between<br>Meter Reading | Monthly<br>Discharge<br>(gallons) | pН  | Hexavalent<br>Chromium<br>Lab<br>Analysis<br>(mg/L)<br>[Local Limit<br>4.5 mg/L] | Total<br>Chromium<br>Lab Analysis<br>(mg/L)<br>[Local Limit<br>7.0 mg/L] |
|             | 04/01/09                            | 9,467,680                                    |   |                                   |     |  |  |
| 04/01/09    |                                     | 9,469,538                                    | 5,966   |                                   |     |  |  |
| 04/03/09    |                                     | 9,478,305                                    | 8,767   |                                   |     |  |  |
| 04/06/09    |                                     | 9,485,542                                    | 7,237   |                                   |     |  | -74 - 11<br>- 1  |
| 04/07/09    |                                     | 9,485,542                                    | 0   |                                   | 7.7 | 0.84   | .: 0.730 .   |
| 04/13/09    |                                     | 9,498,358                                    | 12,816  |                                   |     |  |  |
| 04/14/09    |                                     | 9,498,358                                    | 0   |                                   | 7.7 | 0.59   | 4  |
| 04/20/09    |                                     | 9,507,740                                    | 9,382   |                                   |     |  |  |
| 04/21/09    |                                     | 9,507,740                                    | 0   |                                   | 7.8 | 1.0  |  |
| 04/27/09    |                                     | 9,545,303                                    | 37,563  |                                   |     |  |  |
| 04/28/09    |                                     | 9,545,303                                    | 0   |                                   | 8.0 | 1.2  |  |
|             | 05/01/09                            | 9,568,209                                    |   | April                             |     |  |  |
| 05/01/09    |                                     | 9,574,025                                    | 28,722  | 100,528                           |     |  |  |
| 05/04/09    |                                     | 9,582,624                                    | 8,599   |                                   |     |  | ·  |
| 05/05/09    |                                     | 9,582,624                                    | 0   |                                   | 7.6 | 0.76   | 0.724  |
| 05/11/09    |                                     | 9,599,171                                    | 16,547  |                                   |     |  | <u>.</u>   |
| 05/12/09    |                                     | 9,599,171                                    | 0   |                                   | 8.0 | 0.89   |  |
| 05/18/09    |                                     | 9,613,720                                    | 14,549  |                                   |     |  |  |
| 05/19/09    |                                     | 9,613,720                                    | 0   |                                   | 7.4 | 0.79   |  |
| 05/19/09    |                                     | 9,615,798                                    | 2,078   |                                   |     |  |  |
| 05/19/09    |                                     | 9,616,122                                    | 324   |                                   |     |  |  |
| 05/25/09    |                                     | 9,624,219                                    | 8,097   |                                   |     |  |  |
| 05/26/09    |                                     | 9,624,219                                    | 0   |                                   | 7.3 | 0.58   |  |
|             | 06/01/09                            | 9,650,519                                    |   | May                               |     |  |  |
| 06/01/09    |                                     | 9,652,323                                    | 28,104  | 82,310                            |     |  |  |
| 06/02/09    |                                     | 9,652,323                                    | 0   |                                   | 7.3 | 0.23   | 0.648  |
| 06/03/09    |                                     | 9,658,104                                    | 5,781   |                                   |     |  |  |
| 06/15/09    |                                     | 9,701,735                                    | 43,631  |                                   |     |  |  |
|             | 07/01/09                            | 9,727,520                                    |   | June                              |     |  |  |
| 07/01/09    |                                     | 9,727,975                                    | 26,240  | 77,001                            |     |  |  |

Italicized metered discharge reading was calculated by linear interpolation.

| Industrial User (Wastewater Discharge) Permit 09-21 Outfall 001 Effluent Limitations: |                     |                |  |  |  |  |  |  |  |
|---|---------------------|----------------|--|--|--|--|--|--|--|
| рН  | Hexavalent Chromium | Total Chromium |  |  |  |  |  |  |  |
| Between 5.0 – 12.4 s.u.   | < 4.5 mg/L          | < 7.0 mg/L     |  |  |  |  |  |  |  |

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There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the laboratory monitoring performed.

I performed all the sample collection and monitoring<sup>1</sup> during the time period from April 1, 2009 through June 30, 2009.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely, OMNNI Associates, Inc.

Bi D. Wayner

Brian D. Wayner, P.E. Environmental Manager

Enclosures

cc: Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731

<sup>&</sup>lt;sup>1</sup> Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.



April 15, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866 A05/006 MAUTHE Pace Project No.: 4015767

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

D-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

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# CERTIFICATIONS

#### N1866 A05/006 MAUTHE Project:

Pace Project No.: 4015767

### Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11888

New York Certification #: 11887 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Louisiana Certification #: 04168 Kentucky Certification #: 83 Illinois Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

### SAMPLE SUMMARY

| Project:<br>Pace Project N | N1866 A05/006 MAUTHE<br>o.: 4015767 |        |                |                |  |
|----------------------------|-------------------------------------|--------|----------------|----------------|--|
| Lab ID                     | Sample ID                           | Matrix | Date Collected | Date Received  |  |
| 4015767001                 | OUTFALL 001                         | Water  | 04/07/09 06:20 | 04/07/09 13:55 |  |

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### SAMPLE ANALYTE COUNT

| Project:          | N1866 A05/006 MAUTHE |
|-------------------|----------------------|
| Pace Project No.: | 4015767              |
|                   |                      |

| Lab iD     | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|------------|-------------|-----------------------|----------|----------------------|------------|
| 4015767001 | OUTFALL 001 | EPA 335.4             | DAW      | 1                    | PASI-G     |
|            |             | EPA 6010              | DLB      | 8                    | PASI-G     |
|            |             | EPA 6010              | DLB      | 1                    | PASI-G     |
|            |             | EPA 7470              | LMS      | 1                    | PASI-G     |
|            |             | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

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# ANALYTICAL RESULTS

N1866 A05/006 MAUTHE Project:

Pace Project No.: 4015767

| Sample: OUTFALL 001           | Lab ID:        | 4015767001   | Collected    | : 04/07/09 | 9 06:20 | Received: 04/  | 07/09 13:55 Ma | atrix: Water |      |
|-------------------------------|----------------|--------------|--------------|------------|---------|----------------|----------------|--------------|------|
| Parameters                    | Results        | Units        | LOQ          | LOD        | DF      | Prepared       | Analyzed       | CAS No.      | Qual |
| 6010 MET ICP                  | Analytical     | vlethod: EPA | 6010 Prepara | ation Meth | od: EPA | 3010           |                |              |      |
| Aluminum                      | <15.1 ug       | /L           | 500          | 15.1       | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7429-90-5    |      |
| Arsenic                       | 3.0J ug        | /L           | 20.0         | 1.2        | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-38-2    |      |
| Cadmium                       | 0.40J ug       | /L           | 5.0          | 0.13       | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-43-9    |      |
| Chromium                      | <b>76</b> 7 ug | /L           | 5.0          | 1.1        | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-47-3    |      |
| Copper                        | 2.4J ug        | /L           | 10.0         | 0.49       | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-50-8    |      |
| Lead                          | <1.4 ug        | /L           | 10.0         | 1.4        | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7439-92-1    |      |
| Nickel                        | 1.6J ug        | /L           | 10.0         | 0.15       | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-02-0    |      |
| Zinc                          | 13.7J ug       | )/L          | 40.0         | 2.6        | 1       | 04/08/09 08:10 | 04/08/09 20:48 | 7440-66-6    |      |
| 6010 MET ICP, Dissolved       | Analytical I   | Method: EPA  | 6010         |            |         |                |                |              |      |
| Chromium, Dissolved           | 730 ug         | /L           | 5.0          | 0.57       | 1       |                | 04/08/09 23:33 | 7440-47-3    |      |
| 7470 Mercury                  | Analytical I   | Method: EPA  | 7470 Prepar  | ation Meth | od: EPA | A 7470         |                |              |      |
| Mercury                       | <0.10 ug       | /L           | 0.20         | 0.10       | 1       | 04/14/09 14:14 | 04/15/09 15:00 | 7439-97-6    |      |
| 335.4 Cyanide, Tot. Dissolved | Analytical I   | Method: EPA  | 335.4        |            |         |                |                |              |      |
| Cyanide, Dissolved            | <0.0060 m      | g/L          | 0.020        | 0.0060     | 1       |                | 04/14/09 12:42 | 57-12-5      |      |
| Chromium, Hexavalent          | Analytical I   | Method: SM 3 | 500-Cr B (Or | nline)     |         |                |                |              |      |
| Chromium, Hexavalent          | 0.84 m         | a/L          | 0.20         | 0.034      | 10      |                | 04/07/09 15:00 | 18540-29-9   |      |

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# QUALITY CONTROL DATA

| Project:<br>Pace Project No.: | N1866 A05/0<br>4015767 | 006 MAUTHE   |          |                 |              |                    |                              |                 |            |           |     |     |      |
|-------------------------------|------------------------|--------------|----------|-----------------|--------------|--------------------|------------------------------|-----------------|------------|-----------|-----|-----|------|
| QC Batch:                     | WETA/357               | 6            |          | Analysi         | s Method     | : s                | M 3500-Cr E                  | (Online)        |            |           |     |     |      |
| QC Batch Method:              | SM 3500-C              | r B (Online) |          | Analysi         | s Descrip    | tion: C            | Chromium, Hexavalent by 3500 |                 |            |           |     |     |      |
| Associated Lab San            | nples: 4015            | 5767001      |          |                 |              |                    |                              |                 |            |           |     |     |      |
| METHOD BLANK:                 | 143356                 |              |          |                 | latrix: Wa   | iter               |                              |                 |            | ···       |     |     |      |
| Associated Lab San            | nples: 4015            | 5767001      |          |                 |              |                    |                              |                 |            |           |     |     |      |
| Paran                         | neter                  | ı            | Jnits    | Blank<br>Resull | R            | Reporting<br>Limit | Analyz                       | ed              | Qualifiers |           |     |     |      |
| Chromium, Hexaval             | ent                    | mg/L         |          | <0.0            | 0034         | 0.020              | 04/07/09                     | 15:00           |            |           |     |     |      |
| LABORATORY CON                | NTROL SAMP             | PLE: 14335   | 7        |                 |              |                    |                              |                 |            |           |     |     |      |
| Paran                         | neter                  | i            | Jnits    | Spike<br>Conc.  | LCS<br>Resi  | S<br>ult           | LCS<br>% Rec                 | % Rec<br>Limits | Qı         | ualifiers |     |     |      |
| Chromium, Hexaval             | ent                    | mg/L         |          | .3              |              | 0.31               | 104                          | 90              | -110       |           | -   |     |      |
| MATRIX SPIKE & M              |                        |              | : 14335  | В               |              | 143359             |                              |                 |            |           |     |     |      |
|                               |                        | 40           | 15767001 | MS<br>Saika     | MSD<br>Spike | MC                 | MCD                          | MC              | Men        | · •/      | •   | May |      |
| Parame                        | ler                    | 40<br>Units  | Result   | Conc.           | Conc.        | Result             | Result                       | % Rec           | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium, Hexaval             | ent                    | mg/L .       | 0.84     | 3               | 3            | 3.9                | 4.0                          | 102             | 107        | 90-110    | 3   | 20  |      |

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# QUALITY CONTROL DATA

| Project: N186           | 6 A05/006 MAUTHE |             |             |     |              |        |            |          |
|-------------------------|------------------|-------------|-------------|-----|--------------|--------|------------|----------|
| Pace Project No.: 4015  | 767              |             |             |     |              |        |            |          |
| QC Batch: MPI           | RP/2414          | Analysis Me | ethod:      | EP  | PA 6010      |        |            | <u> </u> |
| QC Batch Method: EPA    | 3010             | Analysis De | escription: | 60  | 10 MET       |        |            |          |
| Associated Lab Samples: | 4015767001       |             |             |     |              |        |            |          |
| METHOD BLANK: 1436      | 36               | Matrix      | : Water     |     |              |        |            |          |
| Associated Lab Samples: | 4015767001       |             |             |     |              |        |            |          |
|                         |                  | Blank       | Reporting   | )   |              |        |            |          |
| Parameter               | Units            | Result      | Limit       |     | Analyzed     | Qualif | iers       |          |
| Aluminum                | · ug/L           | <15.1       |             | 500 | 04/08/09 20: | 40     |            |          |
| Arsenic                 | ug/L             | <1.2        | 2 2         | 0.0 | 04/08/09 20: | 40 .   |            |          |
| Cadmium                 | · ug/L           | <0.13       | 1           | 5.0 | 04/08/09 20: | 40     |            |          |
| Chromium                | ug/L             | <1.1        |             | 5.0 | 04/08/09 20: | 40     |            |          |
| Copper                  | ug/L             | <0.49       | ) 1         | 0.0 | 04/08/09 20: | 40     |            |          |
| Lead                    | ug/L             | <1.4        | 1           | 0.0 | 04/08/09 20: | 40     |            |          |
| Nickel                  | ug/L             | <0.15       | i 1         | 0.0 | 04/08/09 20: | 40     |            |          |
| Zinc                    | ug/L             | <2.6        | i 4         | 0.0 | 04/08/09 20: | 40     |            |          |
| LABORATORY CONTROL      | L SAMPLE: 143637 |             |             |     |              |        | ·          |          |
|                         |                  | Spike       | LCS         |     | LCS          | % Rec  |            |          |
| Parameter               | Units            | Conc.       | Result      | 9   | % Rec        | Limits | Qualifiers |          |
| Aluminum                | ug/L             | 5000        | 4720        |     | 94           | 80-120 |            |          |
| Arsenic                 | ug/L             | 500         | 476         |     | 95           | 80-120 |            |          |
| Cadmium                 | ug/L             | 500         | 473         |     | 95           | 80-120 |            |          |
| Chromium                | ug/L             | 500         | 490         |     | 98           | 80-120 |            |          |
| Copper                  | ug/L             | 500         | 483         |     | 97           | 80-120 |            |          |
| Lead                    | ug/L             | 500         | 488         |     | 98           | 80-120 |            |          |
| Nickel                  | ug/L             | 500         | 494         |     | 99           | 80-120 |            |          |
| Zinc                    | ug/L             | 500         | 488         |     | 98           | 80-120 |            |          |
|                         |                  |             |             |     |              |        |            |          |

| MATTIN SEINE QUMATTIN SE | INE DUFLICAT | E. 14303            | 0                    |                       | 143039       |               |             |              |                 |     |            |      |  |
|--------------------------|--------------|---------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|--|
| Parameter                | 4<br>Units   | 015767001<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | ŔPD | Max<br>RPD | Quał |  |
| Aluminum                 | ug/L         | <15.1               | 5000                 | 5000                  | 4740         | 4810          | 95          | 96           | 75-125          | 1   | 20         |      |  |
| Arsenic                  | ug/L         | 3.0J                | 500                  | 500                   | 488          | 491           | 97          | 98           | 75-125          | .7  | 20         |      |  |
| Cadmium                  | ug/L         | 0.40J               | 500                  | 500                   | 481          | 482           | 96          | 96           | 75-125          | .2  | 20         |      |  |
| Chromium                 | ug/L         | 767                 | 500                  | 500                   | 1230         | 1210          | 93          | 89           | 75-125          | 2   | 20         |      |  |
| Copper                   | ug/L         | 2.4J                | 500                  | 500                   | 485          | 479           | 97          | 95           | 75-125          | 1   | 20         |      |  |
| Lead                     | ug/L         | <1.4                | 500                  | 500                   | 471          | 468           | 94          | 93           | 75-125          | .6  | 20         |      |  |
| Nickel                   | ug/L         | 1.6J                | 500                  | 500                   | 479          | 475           | 95          | 95           | 75-125          | .8  | 20         |      |  |
| Zinc                     | ug/L         | 13.7J               | 500                  | 500                   | 471          | 470           | 91          | 91           | 75-125          | .1  | 20         |      |  |

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### QUALITY CONTROL DATA

| Project:           | N1866 A05  | /006 MAUTHE |          |        |             |          |              |             |            |           |     |     |      |
|--------------------|------------|-------------|----------|--------|-------------|----------|--------------|-------------|------------|-----------|-----|-----|------|
| Pace Project No.:  | 4015767    |             |          |        |             |          |              |             |            |           |     |     |      |
| QC Batch:          | ICP/2113   |             |          | Analys | is Method:  | : E      | PA 6010      |             |            |           |     |     |      |
| QC Batch Method:   | EPA 6010   |             |          | Analys | is Descript | tion: I  | CP Metals, T | race, Disso | lved       |           |     |     |      |
| Associated Lab San | nples: 401 | 15767001    |          |        |             |          |              |             |            |           |     |     |      |
| METHOD BLANK:      | 143804     |             |          | Ň      | Aatrix: Wat | ter      | <u> </u>     |             |            |           |     |     |      |
| Associated Lab San | nples: 401 | 15767001    |          |        |             |          |              |             |            |           |     |     |      |
|                    |            |             |          | Blank  | R           | eporting |              |             |            |           |     |     |      |
| Parar              | neter      |             | Units    | Resul  | t           | Limit    | Analyz       | ed          | Qualifiers | _         |     |     |      |
| Chromium, Dissolve | ed         | ug/L        |          | <      | <0.57       | 5.0      | 04/08/09     | 21:46       |            |           |     |     |      |
| LABORATORY COM     | NTROL SAM  | PLE: 14380  | )5       |        |             |          |              |             |            | <u>_</u>  |     |     |      |
|                    |            |             |          | Spike  | LCS         | 5        | LCS          | % Rec       | :          |           |     |     |      |
| Paran              | neter      |             | Units    | Conc.  | Resu        | ılt      | % Rec        | Limits      | Q          | ualifiers | _   |     |      |
| Chromium, Dissolve | ed         | ug/L        |          | 500    |             | 493      | 99           | 80          | -120       |           |     |     |      |
| MATRIX SPIKE & M   |            |             | E: 14380 | 6      |             | 143807   |              |             |            |           |     |     |      |
|                    |            |             |          | MS     | MSD         | •        |              |             |            |           |     |     |      |
|                    |            | 40          | 15777001 | Spike  | Spike       | MS       | MSD          | MS          | MSD        | % Rec     |     | Max |      |
| Parame             | ter        | Units       | Result   | Conc.  | Conc.       | Result   | Result       | % Rec       | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium, Dissolve | ed         | ug/L        | <0.57    | 500    | 500         | 485      | 482          | 97          | 96         | 75-125    | .7  | 20  |      |

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# QUALITY CONTROL DATA

| Project:           | N1866 A05/006 | MAUTHE  | -        |                       |             |          |              |        |            |           |     |     |      |
|--------------------|---------------|---------|----------|-----------------------|-------------|----------|--------------|--------|------------|-----------|-----|-----|------|
| Pace Project No.:  | 4015767       |         |          |                       |             |          |              |        |            |           |     |     |      |
| QC Batch:          | WETA/3610     | ,       |          | Analys                | is Method:  |          | EPA 335.4    | · ·    |            |           |     |     |      |
| QC Batch Method:   | EPA 335.4     |         |          | Analysis Description: |             |          | 335.4 Cyanid |        |            |           |     |     |      |
| Associated Lab Sar | mples: 401576 | 7001    |          |                       |             |          |              |        |            |           |     |     |      |
| METHOD BLANK:      | 145440        |         |          | N                     | Aatrix: Wat | er       |              |        |            |           |     |     |      |
| Associated Lab Sar | nples: 401576 | 7001    |          |                       |             |          |              |        |            |           |     |     |      |
|                    |               |         |          | Blank                 | K R         | eporting |              |        |            |           |     |     |      |
| Parar              | neter         |         | Units    | Result Limit          |             |          | Analyz       | ed     | Qualifiers |           |     |     |      |
| Cyanide            |               | mg/L    |          | <0.                   | .0060       | 0.02     | 0 04/14/09   | 12:30  |            | _         |     |     |      |
| LABORATORY CO      | NTROL SAMPLE  | 14544   | 11       |                       |             |          |              |        |            |           |     |     |      |
|                    |               |         |          | Spike                 | LCS         |          | LCS          | % Rec  |            |           |     |     |      |
| Parar              | neter         |         | Units    | Conc.                 | Resu        | lt       | % Rec        | Limits | Qu         | ualifiers |     |     |      |
| Cyanide            |               | mg/L    |          | .1                    | · -         | 0.11     | 106          | 90     | -110       |           |     |     |      |
| MATRIX SPIKE & M   |               | UPLICAT | E: 14544 | 2                     |             | 145443   |              |        |            |           |     |     |      |
|                    |               |         |          | MS                    | MSD         |          |              |        |            |           |     |     |      |
|                    |               | 40      | 15605002 | Spike                 | Spike       | MS       | MSD          | MS     | MSD        | % Rec     |     | Max |      |
| Parame             | ter           | Units   | Result   | Conc.                 | Conc.       | Result   | Result       | % Rec  | % Rec      | Limits    | RPD | RPD | Qual |
| Cyanide            | m             | g/L     |          | .6                    | .6          | 0.63     | 3 0.62       | 101    | 101        | 90-110    | .5  | 20  |      |
| MATRIX SPIKE & M   | ATRIX SPIKE D | UPLICAT | E: 14544 | 4                     |             | 145445   |              |        |            |           |     |     |      |
|                    |               |         |          | MS                    | MSD         |          |              |        |            |           |     |     |      |
|                    |               | 40      | 15986002 | Spike                 | Spike       | MS       | MSD          | MS     | MSD        | % Rec     |     | Max |      |
| Parame             | ter           | Units   | Result   | Conc.                 | Conc.       | Result   | Result       | % Rec  | % Rec      | Limits    | RPD | RPD | Qual |
| Cyanide            | m             | g/L     |          | .1                    | .1          | 0.12     | 2 0.11       | 115    | 106        | 90-110    | 8   | 20  | MO   |

Date: 04/15/2009 04:57 PM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866 A05/0 | 006 MAUTHE         |         |               |          |              |        |            |          |     |     |          |
|--------------------|-------------|--------------------|---------|---------------|----------|--------------|--------|------------|----------|-----|-----|----------|
| Pace Project No.:  | 4015767     |                    |         |               |          |              |        |            |          |     |     |          |
| QC Batch:          | MERP/149    | 2                  | Analys  | is Method:    |          | EPA 7470     |        |            |          |     |     |          |
| QC Batch Method:   | EPA 7470    |                    | Analysi | is Descript   | tion:    | 7470 Mercury |        |            |          |     |     |          |
| Associated Lab Sat | mples: 401  | 5767001            |         |               |          |              |        |            |          |     |     |          |
| METHOD BLANK:      | 145779      |                    | N       | latrix: Wa    | ter      |              |        | _          |          |     | -   |          |
| Associated Lab Sat | mples: 401  | 5767001            |         |               |          |              |        |            |          |     |     |          |
|                    |             |                    | Blank   | R             | eporting |              |        |            |          |     |     |          |
| Para               | neter       | Units              | Result  | t             | Limit    | Analyz       | ed     | Qualifiers |          |     |     |          |
| Mercury            |             | ug/L               | <       | :0.10         | 0.2      | 0 04/15/09   | 14:53  |            |          |     |     |          |
|                    |             | PLE: 145780        |         | <del></del> . |          |              |        |            |          |     |     |          |
|                    |             |                    | Snike   | LCS           | :        | LCS          | % Rec  |            |          |     |     |          |
| Para               | neter       | Units              | Conc.   | Resu          | ilt      | % Rec        | Limits | Qı         | alifiers |     |     |          |
| Mercury            |             | ug/L               | 5       |               | 5.4      | 108          | 85     | 5-115      |          | •   |     |          |
| MATRIX SPIKE & N   |             | E DUPLICATE: 14578 | 1       |               | 145782   |              | <br>-  |            |          |     |     | <u> </u> |
|                    |             |                    | MS      | MSD           |          |              |        |            |          | •   |     |          |
|                    |             | 4015955001         | Spike   | Spike         | MS       | MSD          | MS     | MSD        | % Rec    |     | Max |          |
| Parame             | ter         | Units Result       | Conc.   | Conc.         | Result   | Result       | % Rec  | % Rec      | Limits   | RPD | RPD | Qual     |
| Mercury            |             | ug/L <0.10         | 1 5     | 5             | 3.7      | 7 3.6        | 73     | ·73        | 85-115   | 1   | 20  | M0.      |

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### QUALIFIERS

| Project:          | N1866 A05/006 MAUTHE |  |  |  |  |  |  |
|-------------------|----------------------|--|--|--|--|--|--|
| Pace Project No.: | 4015767              |  |  |  |  |  |  |

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 04/15/2009 04:57 PM

### **REPORT OF LABORATORY ANALYSIS**

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| S  | ample Condition Upon Receipt                                |                                       |
|--|---|---------------------------------------|
| Pace Analytical Client Nam   | e: Omni Project # 405                                       | 5767                                  |
| Courier: C Fed Ex C UPS USPS C C<br>Tracking #:  | llent Commercial Pace Other                                 |                                       |
| Custody Seal on Cooler/Box Present:ye  | 25 🔯 no Seals Intact: 🗌 yes 🗌 no                            |                                       |
| Packing Material: 🗍 Bubble Wrap 👌 Bubb   | ble Bags ANone Other  |                                       |
| Thermometer Used   | Type of ice: (Wet Blue None Samples on ice, cooling process | has begun                             |
| Cooler Temperature RD /<br>Temp should be above freezing to 6°C                            | Biological Tissue is Frozen: Yes No<br>Comments:            | examining<br>Me                       |
| Chain of Custody Present:  | Karas Ono Onia 1.   |                                       |
| Chain of Custody Filled Out:   | SYes DNO DNA 2.   |                                       |
| Chain of Custody Relinquished:   | Ares INO IN/A 3.  |                                       |
| Sampler Name & Signature on COC:   | Øyes □№ □№A 4.  |                                       |
| Samples Arrived within Hold Time:  | Yeres []No []NIA 5.   |                                       |
| Short Hold Time Analysis (<72hr):  | Dives INO INVA 6. Cr + 4                                    |                                       |
| Rush Turn Around Time Requested:   |   |                                       |
| Sufficient Volume:   | CIVes []NO []NIA 8.   |                                       |
| Correct Containers Used:   | Yeres INO INA 9.  |                                       |
| -Pace Containers Used:   |   |                                       |
| Containers Intact:   |   |                                       |
| Filtered volume received for Dissolved tests   | Ares DNO DNA 11.  |                                       |
| Sample Labels match COC:   | Stres DNO DNA 12.   |                                       |
| -Includes date/time/ID/Analysis Matrix:  | W<br>VIYES ING INA 13 IM/ HNOZ added to 1-250M              | <u>DD</u>                             |
| All containers needing preservation are found to be in compliance with EPA recommendation. |   |                                       |
| exceptions: VOA, celiform, TOC, O&G, WI-DRO (water)  | DYes DNo Initial when Lot # of added preservative E2707     | 7                                     |
| Samples checked for dechlorination:  | DYes DNo KANA 14.   |                                       |
| Headspace in VOA Vials ( >6mm):  | □Yes □No \$947A 15.   |                                       |
| Trip Blank Present:  | DYes DNo Kuda 16.   |                                       |
| Trip Blank Custody Seals Present   | Dives Dive Dra  |                                       |
| Pace Trip Blank Lot # (if purchased):  |   |                                       |
| Client Notification/ Resolution:   | Field Data Required? Y                                      | / N                                   |
| Person Contacted:  | Date/Time:  |                                       |
| Comments/ Resolution:  |   |                                       |
|  |   |                                       |
|  |   |                                       |
|  |   |                                       |
|  | . 1   | · · · · · · · · · · · · · · · · · · · |
| A  | t/=1  | ta                                    |
| Project Manager Review:  | Date: // //   | <u> 19</u>                            |
|  |   | · ·                                   |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

| [                                     | (Plea        | ase l         | Print Clearly)        |                                | · ·              | I   |  | $\sim$       |   |           |            |              |            | UPPE     | R MIDV  | VEST R | EGION               | •        | Page               | 1 of        | ユ        |
|---------------------------------------|--------------|---------------|-----------------------|--------------------------------|------------------|---|--|--------------|---|-----------|------------|--------------|------------|----------|---------|--------|---------------------|----------|--------------------|-------------|----------|
| Company Na                            | ame:         | $\sim m$      | MAKE ACC.             |                                | tac              |   | ) <b>M</b>                               |              |   |           |            |              |            | MN: 6    | 612-607 | -1700  | WI: 920-469-2436    |          |                    |             |          |
| Branch/Loca                           | (            | $\frac{1}{2}$ |                       |                                | 152              |   |  | Pace         | Ana   | lvtic     | al°        |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              | <u>H9</u>     | PLETON                |                                |                  | /   |  |              | www.p   | ecelabs.c | com        |              |            |          |         |        |                     |          |                    |             | ······   |
| Project Cont                          | act:         | BR            | IAN WAY               | INE                            | R                |   |  |              |   |           |            |              |            |          |         |        | Quote #:            | MAUT     | THE !              | <u>0070</u> | 8        |
| Phone:                                |              | 720           | 1-830-6               | 141                            |                  |   | (  | CHA          | <u> IN</u>  | OF        | - C        | <u>US</u>    | TO         | DY       |         | _      | Mail To Contact:    | BRIF     | IN WA              | YNE         | R        |
| Project Num                           | ber:         | NI            | 866 A05/              | NOL                            | 0                | A=N                                       | one B=                                   | HCL C=       | H2504   | D=HNO3    | E=DI       | ies<br>Water | F=Methar   | nol G=N  | laOH    |        | Mail To Company:    | OMNA     | VE AS              | SOCIA       | TES      |
| Project Name                          | e:           | m             | AUTHE                 |                                |                  | H=Sc                                      | dium Bisu                                | lfate Soluti | ion   | I=Sodiun  | n Thiosuli | fate J       | =Other     |          |         | j      | Mail To Address:    | ONE      | 5451               | Ems         | DR       |
| Project State                         | ):           |               | )<br>王                |                                |                  | FILTE<br>(YES                             | RED?<br>(NO)                             | YO           | N)  | Y         | N          | N            | N          | N        | N       | N      |                     | APPLE    | FTON, U            | JT 5        | 4914     |
| Sampled By                            | (Print):     | BR            | IAN MAY               | 11E                            | R                | PRESER<br>(CO                             | VATION                                   | 9,1-2        | A   | Ó         | G          | D            | D          | D        | D       | Q      | Invoice To Contact: | BRI      | 4N (1)             | YAJEI       | 2        |
| Sampled By                            | (Sign):      | ß             | : D. Warn             | in                             |                  |   | -  |              | L r   |           |            |              |            |          |         |        | Involce To Company: | 000      |                    | 5504 44     | ATES     |
| PO #:                                 | -            |               |                       | Regu                           | ulatory<br>gram: |   |  |              | スト  | 1         |            |              |            |          |         | [      | Invoice To Address: |          |                    | 2.20(       | 7769     |
| Data Pack                             | age Optic    | ons           | MS/MSD                |                                | Matr             | 1x Codes                                  | 3  |              | ALI<br>BLI  | 216       | Q          | 100          | 1 3        | 5        | 7       |        |                     | 5        | AME                |             | ·        |
|                                       | A Level III  | ,             | (billable)            | B = Bioi<br>C = Chi<br>O = Oil | ta<br>arcoal     | DW = Drinkli<br>GW = Groun<br>SW = Surfac | ng Water<br>Id Water<br>Ie Water         |              | X 7<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 8<br>7 | 1KO       | 20         | ALS          | 23         | 25.0     | 2008    | C EL   | Invoice To Phone:   | 9d       | 0-830              | -101-       | 11       |
|                                       | 1            |               | your sample           | S = Soli<br>Si = Siu           | l<br>Idge        | WW = Waste<br>WP = Wipe                   | e Water                                  | <b>N</b>     | 住い  | 5         | die<br>V   | بر م         | 52         | H A      | A W     | JZ     | CLIENT              | LAB C    | OMMENT             | S P         | rofile # |
| PACE LAB'#                            | C            |               | NT FIELD ID           |                                | DATE             | TIME                                      | MATRIX                                   |              |   |           | 40         | F ~          | <u>~ 0</u> | 00       | 75      | ZN     | COMMENTS            | (Lab I   | Use Only           |             |          |
| 001                                   | 0            | IT            | FALL DOI              | 4                              | hla              | 6:20                                      | GW                                       |              | X   | X         | ×          | X            | XX         | XX       | XX      | XX     | Acortainers         | 4-250    | Dml "              | D, D, G     | ,        |
|                                       |              |               | ·                     |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
| · · · · · · · · · · · · · · · · · · · |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       | <b></b>      |               |                       |                                |                  |   |  |              |   |           |            | · · ·        |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               |                       |                                |                  |   |  |              | · ·   |           |            |              |            | · · · :  |         |        |                     | <u> </u> |                    |             |          |
|                                       | ļ            |               | <u> </u>              |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    | ·           |          |
|                                       |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               |                       |                                |                  |   |  |              |   | •         |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               | <u></u>               |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          |                    |             |          |
|                                       |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          | <u></u>            |             |          |
|                                       |              |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        | ······              |          | i                  | <del></del> |          |
| · · · ·                               | <u> </u>     |               | <u> </u>              |                                |                  |   |  |              |   | •         | ·          |              |            |          |         |        |                     | <u></u>  | <u></u>            |             |          |
| Ruch Tu                               | Imaround     | Time          | Requested - Preli     | ims                            |                  | ulahad Pre                                |  |              |   |           | 0/71/07-01 |              |            | Boostin  |         | ليسر   |                     |          | PAC                | E Prolact N | 0.       |
| (Rush                                 | TAT subj     | ect to        | approval/surcharg     | e)                             | reaing           | Bino by                                   | 1. Wa                                    | yxu          |   | 4/1/0     | 7 <b>7</b> | 15 a         |            | Received | ĭΚ      | emi    | 1 - 11 / 1/09       | 0915     | IJM                | 57,         | -        |
|                                       | Date N       | eede          | d:                    |                                | Relinq           | ulshed By:                                | $\overline{}$                            |              | 41.   | Dat       | e/Time:    | //           |            | Received | PA V    | 101    | Date/Time:          |          | 701                | <u>2 I</u>  | 21       |
| Transmit Pre                          | alim Rush R  | esults        | by (complete what you | want):                         |                  | ĽĄ  | <u>~~~~</u>                              | en.          | <u>']][</u>   | 29        | <u>195</u> | 25           |            | TA       | Υ¥      | σų     | Teleoz              |          | Receipt Temp       | - 01        | \ (°C    |
| Email #1:                             |              |               |                       |                                | - Keling         | uisned By:                                |  |              |   | Dal       | e/11me:    |              |            | Keceived | ву: //  | •      | Date/Time:          |          | Samo               | Receipt     | PH       |
| Telephone:                            |              |               |                       |                                | Reling           | uished By:                                | <del>//</del>                            | <u>.</u>     | <u> </u>  | Dat       | e/Time:    |              |            | Received | By:     |        | Date/Time:          |          | OK                 | Adjuster    | > 1      |
| Fax:                                  |              |               |                       |                                | <u> </u>         |   |  |              |   |           |            |              |            |          | -       |        |                     |          | Cooler             | Custody     | Seal     |
| S                                     | Samples on I | IOLD #        | re subject to         |                                | Reling           | ulshed By:                                |  |              | · · · ·   | Dat       | e/Time:    |              |            | Received | By:     |        | Date/Time:          |          | Present            | Not Pre     | sent     |
| spe                                   | cial pricing | and rel       | ease of liability     |                                |                  |   | <u>.                                </u> |              |   | <u> </u>  |            |              |            |          |         |        | ·                   |          | Intac              | V-Not Int   | act      |
| C019a(27J                             | un2006)      |               |                       |                                |                  |   |  |              |   |           |            |              |            |          |         |        |                     |          | version 0.0 Ub/14/ | ORIG        | INAL     |

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April 16, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866 A05/006 MAUTHE Pace Project No.: 4016046

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

AV M

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

### **REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

### Project: N1866 A05/006 MAUTHE Pace Project No.: 4016046

### **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11888 New York Certification #: 11887 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

### **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE SUMMARY

| Project:       | N1866 A05/006 MAUTHE |        |                |                |  |
|----------------|----------------------|--------|----------------|----------------|--|
| Pace Project N | 0.: 4016046          |        | . <u></u>      |                |  |
| Lab ID         | Sample ID            | Matrix | Date Collected | Date Received  |  |
| 4016046001     | OUTFALL 001          | Water  | 04/14/09 06:50 | 04/14/09 16:20 |  |

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4016046001

OUTFALL 001

Pace Analytical Services,-Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PASI-G

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# SAMPLE ANALYTE COUNT

| Lab ID S                      | Sample ID                       | Method | Analytes<br>Analysts Reported Laboratory | _ |
|-------------------------------|---------------------------------|--------|--|---|
| Project:<br>Pace Project No.: | N1866 A05/006 MAUTHE<br>4016046 |        | <u> </u>                                 | _ |

SM 3500-Cr B (Online)

DEY

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### **PROJECT NARRATIVE**

| Project:          | N1866 A05/006 MAUTHE |  |  |  |  |  |
|-------------------|----------------------|--|--|--|--|--|
| Pace Project No.: | 4016046              |  |  |  |  |  |

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:April 16, 2009

#### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

Project: N1866 A05/006 MAUTHE

| Pace Project No.: 4016046 |           |              |              |                |             |                |               |      |
|---------------------------|-----------|--------------|--------------|----------------|-------------|----------------|---------------|------|
| Sample: OUTFALL 001       | Lab ID:   | 4016046001   | Collected    | : 04/14/09 06: | 0 Received: | 04/14/09 16:20 | Matrix: Water |      |
| Parameters                | Results   | Units        | LOQ          | LOD DF         | Prepared    | Analyzed       | CAS No.       | Qual |
| Chromium, Hexavalent      | Analytica | Method: SM 3 | 500-Cr B (Oi | nline)         |             |                |               |      |
| Chromium, Hexavalent      | 0.59 r    | ng/L         | 0.12         | 0.021 6.2      | 5           | 04/14/09 17:0  | 00 18540-29-9 |      |

Date: 04/16/2009 06:49 AM

### **REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# QUALITY CONTROL DATA

| Project:           | N1866 A05/ | 006 MAUTHE    |          |        |                  |          |                              |                       |            |          |     |     |      |
|--------------------|------------|---------------|----------|--------|------------------|----------|------------------------------|-----------------------|------------|----------|-----|-----|------|
| Pace Project No.:  | 4016046    |               |          |        |                  |          |                              |                       |            |          |     |     |      |
| QC Batch:          | WETA/361   | 15            |          | Anatys | Anatysis Method: |          |                              | SM 3500-Cr B (Online) |            |          |     |     |      |
| QC Batch Method:   | SM 3500-0  | Cr B (Online) |          | Analys | is Descript      | ion: C   | Chromium, Hexavalent by 3500 |                       |            |          |     |     |      |
| Associated Lab Sar | nples: 401 | 6046001       |          |        |                  |          |                              |                       |            |          |     |     |      |
| METHOD BLANK:      | 145860     |               |          | N      | Aatrix: Wat      | ter      |                              | <u> </u>              |            |          |     |     |      |
| Associated Lab Sar | nples: 401 | 6046001       |          |        |                  |          |                              |                       |            |          |     |     |      |
|                    |            |               |          | Blank  | R                | eporting |                              |                       |            |          |     |     |      |
| Parar              | neter      |               | Units    | Resul  | t                | Limit    | Analyz                       | ed                    | Qualifiers | _        |     |     |      |
| Chromium, Hexava   | lent       | mg/L          |          | <0.    | 0034             | 0.020    | 04/14/09                     | 17:00                 |            |          |     |     |      |
| LABORATORY CO      |            | PLE: 14586    | 1        |        | ·                |          |                              | <u>.</u> .            |            |          |     |     |      |
|                    |            |               |          | Spike  | LCS              | ;        | LCS                          | % Rec                 | ;          |          |     |     |      |
| Parar              | neter      | 1             | Units    | Conc.  | Resu             | lt       | % Rec                        | Limits                | Qı         | alifiers |     |     |      |
| Chromium, Hexava   | lent       | mg/L          |          | .3     |                  | 0.31     | 103                          | 90                    | -110       |          |     |     |      |
| MATRIX SPIKE & N   |            |               | E: 14586 | 2      |                  | 145863   |                              | · · ·                 |            |          |     |     |      |
|                    |            |               |          | MS     | MSD              |          |                              |                       |            |          |     |     |      |
|                    |            | 40            | 16046001 | Spike  | Spike            | MS       | MSD                          | MS                    | MSD        | % Rec    |     | Max |      |
| Parame             | ter        | Units         | Result   | Conc.  | Conc.            | Result   | Result                       | % Rec                 | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Hexava   | lent       | mg/L          | 0.59     | 1.9    | 1.9              | 2.6      | 2.4                          | 106                   | 94         | 90-110   | 9   | 20  |      |

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Date: 04/16/2009 06:49 AM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALIFIERS

| Project:          | N1866 A05/006 MAUTHE |  |  |  |  |  |  |
|-------------------|----------------------|--|--|--|--|--|--|
| Pace Project No.: | 4016046              |  |  |  |  |  |  |

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 04/16/2009 06:49 AM

### **REPORT OF LABORATORY ANALYSIS**

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| Sa Sa  | imple Condition Upon Rec                      | eipt   |               |
|--|---|--|---------------|
| Pace Analytical Client Name  | »: Omnni                                      | Project #  | 4016046       |
| Courier:  Fed Ex UPS USPS CI   | ent 🗆 Commercial 🖌 Pace Otr                   | er Solongia So<br>Administration                   |               |
| Custody Seal on Cooler/Box Present: U yes  | s 🛛 no Seals Intact: 🗌 y                      | es 🗋 no  |               |
| Packing Material: 📋 Bubble Wrap  | e Bags 🕅 None 🔲 Other                         |  |               |
| Thermometer Used   | Type of Ice Wet Blue None                     | Samples on Ice, cooling prod                       | ess has begun |
| Cooler Temperature ROL   | Biological Tissue is Frozen: Yes<br>Comments: | No Date and Initials of per contents: <u>4/14/</u> | son examining |
| Chain of Custody Present:  | KYes INO IN/A 1.                              |  |               |
| Chain of Custody Filled Out:   | XY85 []NO []N/A 2.                            |  |               |
| Chain of Custody Relinquished:   | ØYes □No □N/A 3.                              |  |               |
| Sampler Name & Signature on COC:   | DYES DNO DNA 4.                               |  |               |
| Samples Arrived within Hold Time:  | Derves INO IN/A 5.                            | · · · · · · · · · · · · · · · · · · ·              |               |
| Short Hold Time Analysis (<72hr):  | Bres DNO DN/A 6. Hext                         | chrome   |               |
| Rush Turn Around Time Requested:   | □Yes \$\$\$ □N/A 7.                           |  |               |
| Sufficient Volume:   | VEYYOS CINO CINIA 8.                          |  |               |
| Correct Containers Used:   | 19 Yes INO IN/A 9.                            |  |               |
| -Pace Containers Used:   | DYOS DATO DNIA                                |  |               |
| Containers Intact:   | Ôves □No □N/A 10.                             |  |               |
| Filtered volume received for Dissolved tests   | DYes DNo DANA 11.                             | ······   |               |
| Sample Labels match COC:   | XIY03 DNO DN/A 12.                            |  |               |
| -Includes date/time/ID/Analysis Matrix: U  |   |  |               |
| All containers needing preservation are found to be in compliance with EPA recommendation. | UY85 UNO VUNA 13.<br>UY85 UNO DINA            |  |               |
| exceptions: VOA. coliform. TOC. O&G. WI-DRO (water)  | □Yes □No Initial when                         | Lot # of added                                     |               |
| Samples checked for dechlorination:  | □Yes □No \$0NA 14.                            |  |               |
| Headspace In VOA Vials ( >6mm):  | DYes DNo 277/A 15.                            |  |               |
| Trip Blank Present:  |   |  |               |
| Trip Blank Custody Seals Present   |   |  |               |
| Pace Trip Blank Lot # (if purchased):  |   |  |               |
| Client Notification/ Resolution:<br>Person Contacted:<br>Comments/ Resolution:             | Date/Time:                                    | Field Data Required?                               | Y / N         |
| Client Notification/ Resolution: Person Contacted: Comments/ Resolution:                   | Date/Time:                                    | Field Data Required?                               | Y / N         |
| Project Manager Review:  |   | Date:  | 4/129         |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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|                  | (Please Print Clearly)                  |   |   |                 |                          |                         |         | UPPE     |           | T REGION                              | Page 1 of I            |
|------------------|---|---|---|-----------------|--------------------------|-------------------------|---------|----------|-----------|---------------------------------------|------------------------|
| Company Name:    | ODALAT ASS                              | ACLATES                                       | , e   |                 |                          |                         |         | MN: 6    | 12-607-17 | 00 WI: 920-469-2436                   |                        |
| Branch/Location  | : APPLETO.                              | $\sim$  |   | PaceA           | nalytica                 | ไ้                      |         |          |           |                                       | 4016046                |
| Project Contact: | BRIZZI WAY                              | NER   | 1   |                 |                          |                         |         |          |           | Quote #:                              | MAYTHE 10078           |
| Phone:           | 920-830-6                               | 141   | · (   | CHAI            | N OF                     | CUS                     | STC     | DY       |           | Mail To Contact:                      | BRIAN WAYNER           |
| Project Number:  | NISIAL ADSI                             | 006   | A=None B:   | HCL C=H2S       | *Preservati<br>04 D=HNO3 | lon Codes<br>E=DI Water | F=Metha | inol G=N | вОН       | Mail To Company:                      | OMNNT ASSOCIATES       |
| Project Name:    | MAUTHE                                  |   | H=Sodium Bis  | lifate Solution | i=Sodium                 | Thiosulfate             | J=Other |          |           | Mail To Address:                      | ONE SYSTEMS PRIVE      |
| Project State:   | ادی ا                                   |   | FILTERED?<br>(YES/NO)                                       |                 | VII                      |                         |         | T        |           |                                       | APPLETON UT 54914      |
| Sampled By (Prin | nt): ROLAN DA.                          | YNGR  | PRESERVATION  |                 | 4                        |                         | · ·     |          |           | Invoice To Contact:                   | BRIDN MAYNER           |
| Sampled By (Sig  | n): B: D. Way                           | xen   | (,  |                 |                          |                         |         |          |           | Invoice To Company:                   | AMANT ASSOCIATES       |
| PO #:            |   | Regulatory<br>Program:                        |   |                 | 2                        |                         | ł       |          |           | Involce To Address:                   |                        |
| Data Package     | Options MS/MSD                          | Matrix  | c Codes   |                 |                          |                         |         |          |           |                                       | SAME                   |
|                  | vel III On your sample<br>(billable)    | B = Blots D\<br>C = Charcoa) G1<br>O = O   S\ | W = Drinking Water<br>W = Ground Water<br>W = Surface Water | С РС,           | Rue                      |                         |         |          |           | Invoice To Phone:                     | 920-8.30-6141          |
|                  |   | S = Soil W<br>Si = Sludge W<br>COLLECT        | W = Waste Water<br>P = Wipe<br>TION                         | HE)             | CH                       |                         |         |          |           | CLIENT                                | LAB COMMENTS Profile # |
| PACE LAB #       |   | DATE  | TIME  |                 |                          |                         |         |          |           | COMMENTS                              | (Lab Use Only)         |
| 00/              | SUTFALL OOI                             | 7/14/09 6                                     | 6:50 GW   |                 | X                        |                         |         |          |           |                                       | 25)m/~                 |
| · · · ·          |   |   | · · · ·   |                 |                          |                         |         | ļ        |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         | ļ        |           | ····                                  |                        |
|                  |   |   |   |                 |                          |                         |         | L        |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
|                  | - · · · · · · · · · · · · · · · · · · · |   |   |                 |                          |                         |         | +        |           |                                       |                        |
|                  |   |   |   |                 |                          |                         |         | +        |           |                                       | ·····                  |
|                  | ·                                       |   |   |                 |                          |                         |         |          |           | · · · · · · · · · · · · · · · · · · · |                        |
|                  |   |   |   |                 |                          |                         |         |          |           |                                       |                        |
| Rush Tumar       | round Time Requested - Pre              | ims Palinauli                                 | shed By:  |                 |                          |                         | ,       | Received | Byr1      |                                       | PACE Project No.       |
| (Rush TAT        | subject to approval/surcharg            | je)   | En al lita  | an              | 4/14/69                  | 7;                      | 35 am   | B        | my        | Chi 4/14/09                           | 10:40 /1011011         |
| Da               | ate Needed:                             | Relinquis                                     | shed By:  | 1.              | Jul Date/                |                         | 220     | Received | 9/10-     | Stall Hicking                         | 4016046                |
| Email #1:        | wan results by (complete what you       | Relinquis                                     | shed By:  | my y            | 1409<br>Date/            | 70<br>Time:             | 00      | Received | By:       | Date/Time:                            | Receipt Temp = RO / °C |
| Emall #2:        |   |   |   |                 |                          |                         |         |          |           |                                       | Sample Receipt pH      |
| Telephone:       | · · · · · · · · · · · · · · · · · · ·   | Relinquis                                     | shed By:  |                 | Date/                    | Time:                   |         | Received | By:       | Date/Time:                            | OK / Adjusted          |
| raki<br>Sampl    | les on HOLD are subject to              | Relinquis                                     | shed By:  |                 | Date/                    | Time:                   |         | Received | By:       | Date/Time:                            | Present Not Present    |
|                  | and totally an intering                 | l   |   |                 |                          |                         |         | <u> </u> |           | ······                                | Version 8.0 0B/14/08   |

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ORIGINAL



April 23, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05-006 MAUTHE Pace Project No.: 4016315

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

#### N1866A05-006 MAUTHE Project: Pace Project No .: 4016315

Green Bay Certification IDs / Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887

New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

# **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE SUMMARY

| Project:        | N1866A05-006 MAUTHE |        |                |                |     |
|-----------------|---------------------|--------|----------------|----------------|-----|
| Pace Project No | b.: 4016315         |        |                |                | · · |
| Lab ID          | Sample ID           | Matrix | Date Collected | Date Received  |     |
| 4016315001      | OUTFALL 001         | Water  | 04/21/09 06:17 | 04/21/09 14:50 |     |

# **REPORT OF LABORATORY ANALYSIS**

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4016315001

OUTFALL 001

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### SAMPLE ANALYTE COUNT

|                               |                                |        | ·        |                      |            |   |
|-------------------------------|--------------------------------|--------|----------|----------------------|------------|---|
| Lab ID S                      | Sample ID                      | Method | Analysts | Analytes<br>Reported | Laboratory |   |
| Project:<br>Pace Project No.: | N1866A05-006 MAUTHE<br>4016315 |        |          |                      |            | _ |

SM 3500-Cr B (Online)

### **REPORT OF LABORATORY ANALYSIS**

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# **PROJECT NARRATIVE**

| Project:                  | N1866A05-006 MAUTHE  |
|---------------------------|--|
| Pace Project I            | No.: 4016315   |
| Method:                   | SM 3500-Cr B (Online)  |
| Description:              | Chromium, Hexavalent   |
| Client:                   | OMNNI ASSOCIATES, INC.   |
| Date:                     | April 23, 2009   |
| General Info              | mation:  |
| 1 sample was              | analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below. |
| Hold Time:<br>The samples | were analyzed within the method required hold times with any exceptions noted below.                                   |
| Initial Calibra           | tions (including MS Tune as applicable):   |
| All criteria we           | re within method requirements with any exceptions noted below.   |
| Continuing C              | Calibration:   |
| All criteria we           | re within method requirements with any exceptions noted below.   |
| Method Blan               | k:   |
| All analytes w            | ere below the report limit in the method blank with any exceptions noted below.  |
| Laboratory C              | control Spike:   |
| All laboratory            | control spike compounds were within QC limits with any exceptions noted below.   |
| Matrix Spike:             | s:   |
| All percent re            | coveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.      |

### QC Batch: WETA/3655

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4016315001

#### M0: Matrix spike recovery was outside laboratory control limits.

• MSD (Lab ID: 148500)

· Chromium, Hexavalent

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

### **REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

# Project: N1866A05-006 MAUTHE

Pace Project No.: 4016315

| Sample: OUTFALL 001  | Lab ID:   | 4016315001     | Collecte    | d: 04/21/09 | 06:17 | Received: 04 | 4/21/09 14:50 M | latrix: Water |      |
|----------------------|-----------|----------------|-------------|-------------|-------|--------------|-----------------|---------------|------|
| Parameters           | Results   | Units          | LOQ         | LOD         | DF    | Prepared     | Analyzed        | CAS No.       | Qual |
| Chromium, Hexavalent | Analytica | I Method: SM 3 | 500-Cr B (C | )nline)     |       |              |                 |               |      |
| Chromium, Hexavalent | 1.0 r     | ng/L           | 0.10        | 0.017       | 5     |              | 04/21/09 16:15  | 18540-29-9    | MO   |

Date: 04/23/2009 08:31 AM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:            | N1866A05-0   | 06 MAUTHE    |          |        |                  |          |             |                       |            |          |     |     |      |  |  |
|---------------------|--------------|--------------|----------|--------|------------------|----------|-------------|-----------------------|------------|----------|-----|-----|------|--|--|
| Pace Project No.:   | 4016315      |              |          |        |                  |          |             |                       |            |          |     |     |      |  |  |
| QC Batch: WETA/3655 |              |              |          |        | Analysis Method: |          |             | SM 3500-Cr B (Online) |            |          |     |     |      |  |  |
| QC Batch Method:    | SM 3500-C    | r B (Online) |          | Analys | is Descript      | tion: C  | Chromium, H | exavalent t           | oy 3500    |          |     |     |      |  |  |
| Associated Lab San  | nples: 4016  | 5315001      |          |        |                  |          |             |                       |            |          |     |     |      |  |  |
| METHOD BLANK:       | 148497       |              |          | N      | Aatrix: Wa       | ler      |             |                       |            |          |     |     |      |  |  |
| Associated Lab Sar  | nples: 4016  | 6315001      |          |        |                  |          |             |                       |            |          |     |     |      |  |  |
|                     |              |              |          | Blank  | K R              | eporting |             |                       |            |          |     |     |      |  |  |
| Paran               | neter        |              | Units    | Resu   | t                | Limit    | Analyz      | ed                    | Qualifiers | _        |     |     |      |  |  |
| Chromium, Hexaval   | ent          | mg/Ľ         |          | <0.    | .0034            | 0.020    | 04/21/09    | 16:15                 |            |          |     |     |      |  |  |
| LABORATORY COI      |              | LE: 14849    | 8        |        |                  |          |             |                       |            |          | ,   |     |      |  |  |
|                     |              |              |          | Spike  | LCS              | 5        | LCS         | % Red                 | ;          |          |     |     |      |  |  |
| Parar               | neter        |              | Units    | Conc.  | Resu             | ilt      | % Rec       | Limits                | Qı         | alifiers |     |     |      |  |  |
| Chromium, Hexaval   | ent          | mg/L         |          | .3     |                  | 0.29     | 96          | 90                    | )-110      |          | •   |     |      |  |  |
| MATRIX SPIKE & M    | IATRIX SPIKE | DUPLICATI    | E: 14849 | 9      |                  | 148500   |             |                       |            |          |     |     |      |  |  |
|                     |              |              |          | MS     | MSD              |          |             |                       |            |          |     |     |      |  |  |
|                     |              | 40           | 16315001 | Spike  | Spike            | MS       | MSD         | MS                    | MSD        | % Rec    |     | Max |      |  |  |
| Parame              | ler          | Units        | Result   | Conc.  | Conc.            | Result   | Result      | % Rec                 | % Rec      | Limits   | RPD | RPD | Qual |  |  |
| Chromium, Hexaval   | ent          | mg/L         | 1.0      | 1.5    | 1.5              | 2.4      | 2.2         | 91                    | 77         | 90-110   | 9   | 20  | MO   |  |  |
|                     |              |              |          |        |                  |          |             |                       |            |          |     |     |      |  |  |

Date: 04/23/2009 08:31 AM

# **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

Project: N1866A05-006 MAUTHE Pace Project No.: 4016315

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

MO

Matrix spike recovery was outside laboratory control limits.

Date: 04/23/2009 08:31 AM

### **REPORT OF LABORATORY ANALYSIS**

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| Pace Analytical Client Name   | () M NNI         | Assie.                                    | Project #  | 4016315             |
|---|------------------|---|--|---------------------|
| Courler:  Fed Ex UPS USPS Clier Tracking #:   | nt 🗌 Commercia   | Pace Other                                |  |                     |
| Custody Seal on Cooler/Box Present: Uyes  | no Sea           | Is Intact: 🔲 yes [                        | ] no   |                     |
| Packing Material: Bubble Wrap Bubble  | Bags None        | Other                                     |  | •                   |
| Thermometer Used N/K  | Type of Ice: (W  | Blue None                                 | ] Samples on Ice, coolin   | g process has begun |
| Cooler Temperature 4-0  <br>Temp should be above freezing to 6°C                                  | Biological Tissu | l <b>e is Frozen:</b> Yea No<br>Comments: | Date and Initiats<br>contents:   | of person examining |
| Chain of Custody Present:   | AVES ONO ON      | /A 1.                                     |  |                     |
| Chain of Custody Filled Out:  |                  | /A 2.                                     |  | ······              |
| Chain of Custody Relinquished:  | QYes DNO DN      | /A 3.                                     |  |                     |
| Sampler Name & Signature on COC:  | AYES DNO DN      | IA 4.                                     |  |                     |
| Samples Arrived within Hold Time:   | AYes DNO DN      | IA 5.                                     |  | ······              |
| Short Hold Time Analysis (<72hr):   | QYes DNO DN      | a 6. Helchrome                            | <u>ر المعالم الم</u> |                     |
| Rush Turn Around Time Requested:  | DYOS DNO DN      | /A 7.                                     |  |                     |
| Sufficient Volume:  | QYes ONO ON      | /A 8.                                     |  |                     |
| Correct Containers Used:  | ND 0110 6950     | /A 9.                                     |  |                     |
| -Pace Containers Used:  | YOS DNO DN       | /A  |  |                     |
| Containers Intact:  |                  | /A 10.                                    |  |                     |
| Filtered volume received for Dissolved tests  | DYes DNo DUN     | /A 11.                                    |  |                     |
| Sample Labels match COC:  | QYes DNO DN      | /A 12.                                    |  |                     |
| -Includes date/time/ID/Analysis Matrix:<br>All containers needing preservation have been checked. |                  | /4 13                                     |  |                     |
| All containers needing preservation are found to be in<br>compilance with EPA recommendation.     |                  | /A  | •  |                     |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | DYes DNo         | Initial when<br>completed                 | Lot # of added<br>preservative   |                     |
| Samples checked for dechlorination:   |                  | IA 14.                                    |  |                     |
| Headspace in VOA Vials ( >6mm):   | DYes DNO DIN     | IA 15.                                    | <u> </u>   |                     |
| Trip Blank Present:   | DYes DNo QN      | A 16.                                     |  |                     |
| Trip Blank Custody Seals Present  | DYes DNO QN      | /A  |  |                     |
| Pace Trip Blank Lot # (if purchased):   |                  |   |  | <u></u>             |
| Client Notification/ Resolution:  |                  | <u></u>                                   | Field Data Required?   | Y / N               |
| Person Contacted:   | Dat              | e/TIme:                                   |  |                     |
|   |                  |   |  |                     |
|   |                  |   |  | 61100               |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (1.8 out of hold, incorrect preservative, out of temp, incorrect containers)

| (Please Print Clearly)                                    |   | $\sim$            |                                |                             | UPPER MIC                                      | WEST RE         | EGION               | Page 1 of                                | 7           |
|---|---|-------------------|--------------------------------|-----------------------------|--|-----------------|---------------------|--|-------------|
| Company Name: OMNNI ASSOCIAT                              | es /  |                   | ah tioal <sup>a</sup>          |                             | MN: 612-60                                     | 07-1700         | WI: 920-469-2436    |  |             |
| Branch/Location: APPLETON                                 |   | A ace Aik         | diyliCdi<br>pecelebs.com       |                             |  |                 | •                   |  |             |
| Project Contact: BRIAN WAYNER                             |   |                   |                                |                             |  |                 | Quote #:            | MAUTHE 100 708                           |             |
| Phone: 920 - 8.30 - 6/4/                                  |   | CHAIN             | I OF C                         | <u>USTC</u>                 | DY   |                 | Mail To Contact:    | BRIAN WAYNER                             |             |
| Project Number: 11846 A0.5/004                            | A=None  | B=HCL C=H2SO4     | Preservation Co<br>D=HNO3 E=DI | <u>1ea</u><br>Water F≏Metha | anol G=NaOH                                    |                 | Mail To Company:    | OMNUT ASSOCIA                            | TES         |
| Project Name: MAUTHE                                      | H=Sodium B  | isulfate Solution | I=Sodium Thiosul               | fate J=Other                |  |                 | Mall To Address:    | ONE SYSTEMS.                             | DR          |
| Project State:  | FILTEREO?<br>(YES/NO)   | N                 |                                |                             |  |                 |                     | APPIETADI UT EU                          | ia J        |
| Sampled By (Print): BRIDAL HIAVALER                       | PRESERVATIO   | N PHE A           |                                |                             |  |                 | Invoice To Contact: | BRIDAL WAYNER                            | 0           |
| Sampled By (Sign):  | (0001)  |                   |                                |                             |  |                 | Invoice To Company: | Source Asico or                          |             |
| PO #: Regu  | latory  |                   |                                |                             |  |                 | Invoice To Address: | CINNUL / ISSOCIAL                        | = -         |
| Data Package Options MS/MSD<br>(billiable)                | Matrix Codes  |                   |                                |                             |  |                 |                     | SAME                                     |             |
| EPA Level III (billable) C = Cha                          | a DW = Drinking Wate<br>rocel GW = Ground Water<br>SW = Surface Water |                   | KOX                            |                             |  |                 | Invoice To Phone:   | 920-830-6141                             |             |
| your sample S = Soil<br>your sample S = Soil<br>s = Stu   | WW = Waste Water<br>Ige WP = Wipe<br>COLLECTION MATE                  |                   | J J                            |                             |  |                 | CLIENT<br>COMMENTS  | LAB COMMENTS Pro<br>(Lab Use Only)       | ofile #     |
| DDI DUTEQUE DOL 4   | 21/06/11/10/6/1   | J Real V          |                                |                             | +  |                 |                     | 1-200mlA                                 |             |
|   |   |                   | +                              |                             | +  |                 |                     |  |             |
|   |   |                   |                                | <u>├───</u>                 |  |                 |                     |  |             |
|   |   |                   |                                |                             |  |                 |                     |  |             |
|   |   |                   | 1                              |                             |  | ++              |                     |  |             |
|   |   |                   |                                |                             | + + +  | ++              |                     | · · · · · · · · · · · · · · · · · · ·    |             |
|   |   |                   | <u>+</u>                       |                             | +  | ┽┈┥             |                     | <u> </u>                                 |             |
|   |   |                   | ╉╼╼┾┈╌╸                        |                             | <u>                                       </u> |                 |                     |  |             |
|   |   |                   |                                |                             | +  | ++              |                     |  |             |
|   |   |                   |                                |                             |  |                 |                     |  |             |
|   |   |                   | · · ·                          |                             | <u> </u>                                       | +               |                     | ·  |             |
| ·····   |   |                   |                                |                             |  | $ \rightarrow $ |                     |  |             |
|   |   |                   | <b>  </b>                      |                             |  | +               |                     |  |             |
| <u> </u>  |   |                   |                                |                             |  |                 |                     |  |             |
| Rush Turnaround Time Requested - Prelims                  | Relinquished By:  | James             | Y Data/Time:                   | 1.50                        | Received By:                                   | 1               | H Date Time         | PACE Project No.                         |             |
| Date Needed:  | Relinquister By   | i u               |                                | <u> </u>                    | Received By                                    | ener            | Date/Pime:          | 4016315                                  |             |
| Transmit Prelim Rush Results by (complete what you want): | 18 gen  | yea 1             | 121/07                         | 1420                        | 2 WAY  | Mt              | -p 4/2/1/891        | Receipt Temp = RAI                       | °C          |
| Email #1:   | Relinguished By:  | /                 | Oate/Time:                     |                             | Received By:                                   | 8               | Date/Time:          | Sample Receipt pl                        | <del></del> |
| Telephone:  | Relinquished By:  | <u></u>           | Date/Time:                     |                             | Received By:                                   |                 | Oate/Time:          | OK / Adjusted                            | N/A         |
| Fax:  |   |                   |                                |                             | <b> </b>                                       | -               |                     | Cooler Custody Se                        | eal         |
| Samples on HOLD are subject to                            | Relinquished By:  |                   | Date/Time:                     |                             | Received By:                                   |                 | Date/Time:          | Present / Not Pres<br>Intact / Not Intac | ent<br>:t   |

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April 30, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/006 MAUTHE Pace Project No.: 4016593

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

Page 1 of 8



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## CERTIFICATIONS

#### Project: N1866A05/006 MAUTHE 4016593

Pace Project No.:

#### Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887

New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 83 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

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## SAMPLE SUMMARY

| Project:       | N1866A05/006 MAUTHE |     |     |                |                |   |
|----------------|---------------------|-----|-----|----------------|----------------|---|
| Pace Project N | o.: 4016593         |     |     |                |                | _ |
| Lab ID         | Sample ID           | Mat | rix | Date Collected | Date Received  |   |
| 4016593001     | OUTFALL 001         | Wa  | ter | 04/28/09 06:05 | 04/28/09 14:20 |   |

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## SAMPLE ANALYTE COUNT

| Project:<br>Pace Project No | N1866A05/006 MAUTHE<br>o.: 4016593 |                       |          |                      |            |
|-----------------------------|------------------------------------|-----------------------|----------|----------------------|------------|
| Lab ID                      | Sample ID                          | Method                | Analysts | Analytes<br>Reported | Laboratory |
| 4016593001                  | OUTFALL 001                        | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

## **REPORT OF LABORATORY ANALYSIS**

Page 4 of 8



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## **PROJECT NARRATIVE**

Project: N1866A05/006 MAUTHE

Pace Project No.: 4016593

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:April 30, 2009

#### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: N1866A05/006 MAUTHE

| Pace Project No.: 4 | 016593 |
|---------------------|--------|
|---------------------|--------|

| Sample: OUTFALL 001      | Lab ID: | 4016593001     | Collecte    | d: 04/28/0 | 9 06:05 | Received: 0 | 4/28/09 14:20 | Matrix: Water | ,    |
|--------------------------|---------|----------------|-------------|------------|---------|-------------|---------------|---------------|------|
| Parameters               | Results | Units          | LOQ         | LOD        | DF      | Prepared    | Analyzed      | CAS No.       | Qual |
| Chromium, Hexavalent Ana |         | I Method: SM 3 | 500-Cr B (C | Online)    |         |             |               |               |      |
| Chromium, Hexavalent     | 1.2 r   | mg/L           | 0.10        | 0.017      | 5       |             | 04/28/09 16:  | 00 18540-29-9 |      |

Date: 04/30/2009 09:19 AM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project: N186           | 6A05/006 MAUTHE    |         |         |             |          |             |             |            |          |     |     |      |
|-------------------------|--------------------|---------|---------|-------------|----------|-------------|-------------|------------|----------|-----|-----|------|
| Pace Project No.: 4016  | 593                |         |         |             |          |             |             |            |          |     |     |      |
| QC Batch: WE            | TA/3684            |         | Analysi | s Method:   | S        | M 3500-Cr E |             |            |          |     |     |      |
| QC Batch Method: SM     | 3500-Cr B (Online) |         | Analysi | s Descript  | ion: C   | hromium, He | exavalent b | y 3500     |          |     |     |      |
| Associated Lab Samples: | 4016593001         |         |         |             |          |             |             |            |          |     |     |      |
| METHOD BLANK: 1512      | 57                 |         | N       | latrix: Wal | ter      |             |             |            | ·        |     |     |      |
| Associated Lab Samples: | 4016593001         |         |         |             |          |             |             |            |          |     |     |      |
|                         |                    |         | Blank   | R           | eporting |             |             |            |          |     |     |      |
| Parameter               | U.                 | nits    | Result  |             | Limit    | Analyz      | ed          | Qualifiers | _        |     |     |      |
| Chromium, Hexavalent    | mg/L               |         | <0.0    | 0034        | 0.020    | 04/28/09    | 08:30       |            |          |     |     |      |
| LABORATORY CONTRO       | L SAMPLE: 151258   |         | <u></u> |             |          |             |             |            |          |     |     |      |
|                         |                    |         | Spike   | LCS         | ;        | LCS         | % Rec       | :          |          |     |     |      |
| Parameter               | U                  | nits    | Conc.   | Resu        | lt       | % Rec       | Limits      | Qu         | alifiers |     |     |      |
| Chromium, Hexavalent    | mg/L               |         | .3      |             | 0.32     | 106         | 90          | -110       |          | •   |     |      |
| MATRIX SPIKE & MATRIX   |                    | 151259  | )       |             | 151260   |             |             |            |          |     |     |      |
|                         |                    |         | MS      | MSD         |          |             |             |            |          |     |     |      |
|                         | 401                | 6536001 | Spike   | Spike       | MS       | MSD         | MS          | MSD        | % Rec    |     | Max |      |
| Parameter               | Units              | Result  | Conc.   | Conc.       | Result   | Result      | % Rec       | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Hexavalent    | mg/L               |         | .3      | .3          | 0.32     | 0.33        | 91          | 94         | 90-110   | 3   | 20  |      |

Date: 04/30/2009 09:19 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4016593             |

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 04/30/2009 09:19 AM

#### **REPORT OF LABORATORY ANALYSIS**

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| .'<br>Courier: 🔲 Fed Ex 🔲 UPS 🗍 USPS 🗍 C                              | llent Corr             | mercial          | Pace Other                     |   |
|---|------------------------|------------------|--------------------------------|---|
| Tracking #:   | ·                      | ;                | · .                            |   |
| Custody Seal on Cooler/Box Present: 🗌 ye                              | es [ <mark>] no</mark> | Seal             | s intact: 🗍 yes 🗍              | no <b>Distribution</b>  |
| Packing Material: 📋 Bubble Wrap 🛛 🗍 Bubb                              | ole Bags 🛛             | None             | Other                          |   |
| Thermometer Used  | Type of ic             | :e: Wei          | Blue None                      | Samples on Ice, cooling process has begun                       |
| Cooler Temperature <u>MOE</u><br>Temp should be above freezing to 6°C | Biologica              | l Tissue         | Is Frozen: Yes No<br>Comments: | Date and initials of person examining contents: <u>472 8709</u> |
| Chain of Custody Present:   | XIYes ON               | 10 <b>[</b> ]N/A | 1.                             |   |
| Chain of Custody Filled Out:  | VEX 06 DIN             |                  | 2                              |   |
| Chain of Custody Relinquished:  | Vires ON               |                  | 3                              |   |
| Sampler Name & Signature on COC:                                      |                        | 6 ON/A           | 4                              |   |
| Samples Arrived within Hold Time:                                     | ATTes ON               |                  | 5.                             |   |
| Short Hold Time Analysis (<72hr):                                     | Aves ON                | ю <u>П</u> N/А   | 6                              |   |
| Rush Turn Around Time Requested:                                      | UYes DAN               | 0 🗍 N/A          | 7.                             |   |
| Sufficient Volume:  | Dayes IN               | o []N/A          | 8                              |   |
| Correct Containers Used:  | XSXes □N               | 6 🗆 N/A          | 9.                             |   |
| -Pace Containers Used:  | YOYes DN               | 0 <b>O</b> N/A   |                                |   |
| Containers Intact:  | QYes DN                |                  | 10.                            | <i>l</i>  |
| Filtered volume received for Dissolved tests                          |                        | o Xina           | 11.                            |   |
| Sample Labels match COC:  | ND texte               | • <b>D</b> N/A   | 12.                            |   |
| -Includes date/time/ID/Analysis Matrix:                               | W                      | <u> </u>         |                                |   |
|   |                        | o pinva<br>V     | 13.                            |   |
| compliance with EPA recommendation.                                   | Öyes On                | o Pina           |                                |   |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)                   |                        | 0                | Initial when completed         | Lot # of added<br>preservative                                  |
| Samples checked for dechlorination:                                   |                        | o lýnya          | 14.                            |   |
| teadspace in VOA Vials ( >6mm):                                       |                        | o QINIA          | 15                             |   |
| Trip Blank Present:   |                        | o XIRVA          | 16.                            |   |
| Frip Blank Custody Seals Present                                      | OYes ON                | o ØNVA           |                                |   |
| Pace Trip Blank Lot # (if purchased):                                 |                        | · [              |                                |   |
| Client Notification/ Resolution:                                      |                        |                  |                                | Field Data Required? Y / N                                      |
| Person Contacted:   |                        | Date/            | Time:                          | ······································                          |
| Comments/ Resolution:   |                        |                  |                                |   |
|   |                        |                  |                                |   |
|   |                        | <del></del>      |                                |   |
|   |                        | ,                |                                |   |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (1.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| (Please Print                  | Clearly)  | <b>1</b> ·                              | $\sim$            |                 |                        | <u>UPPER I</u> | MIDWEST                                       | EGION               | Page 1 of 7                            |
|--------------------------------|---|---|-------------------|-----------------|------------------------|----------------|---|---------------------|--|
| Company Name:                  | T ASSACIATE                                     | <u>ار</u> . [                           |                   |                 |                        | MN: 612        | 2-607-1700                                    | WI: 920-469-2436    |  |
| Branch/Location: APPL          |   |   | PaceAn            | alytical®       |                        |                |   |                     |  |
| Project Contact: BRIA          | , WAYNER  | 1 /                                     | www.              | pacelabs.com    |                        |                |   | Quote #:            | MAUTHE 100708                          |
| Phone: 920 -                   | 830-6141  | 1 '                                     | CHAIN             | I OF C          | USTO                   | DY             |   | Mail To Contact:    | BRIAN MAYNER                           |
| Project Number: 1/18/0         | 6405/00/0                                       | A=Noze                                  | B=HCL C=H2SO4     | Preservation Co | odes<br>N Water F≂Meth | anol G=NaO     | ж   | Mail To Company:    | Amajort Associates                     |
| Project Name:                  |   | H=Sodium B                              | isulfate Solution | I=Sodium Thios  | ulfate J=Other         |                |   | Mail To Address:    | CALE SYSTEMS PLUE                      |
| Project State:                 | <u> </u>  | FILTERED?                               |                   | TT              |                        | - <u></u>      |   | 4                   | Age Event                              |
| Sampled By (Print): 2 0        | Li lilavarea                                    | PRESERVATIO                             |                   | · · · · · ·     |                        |                |   | Invoice To Contact: | REION, WESTIN                          |
| Sampled By (Sign):             | N WAYNER  | (CODE)*                                 |                   | +               | +                      | +              |   | Invoice To Company: | DRIAN WAYNER                           |
| PO #:                          | Regulator                                       | ,                                       |                   |                 |                        |                |   | Invoice To Address  | UNIVIL /IJSCATES                       |
| Data Package Options           | Program:<br>MS/MSD Mi                           | trix Codes                              |                   |                 |                        |                |   |                     | SAME                                   |
|                                | n your sample A = Air<br>B = Blota              | W = Water<br>DW = Drinking Wate         |                   |                 |                        |                |   |                     |  |
|                                | (billable) C = Charcoat<br>OT needed on O = Oil | GW = Ground Water<br>SW = Surface Water |                   |                 |                        |                |   | Involce To Phone:   | 920/830-6141                           |
|                                | your sample SI = Soll<br>SI = Sludge            | WW = Waste Water<br>WP = Wipe           |                   | J               |                        |                |   | CLIENT              | LAB COMMENTS Profile #                 |
| PACE LAB # CLIENT F            | IELD ID DATE                                    | TIME                                    | x x               | ·               | <u> </u>               | +              |   | COMMENTS            | (Lab Use Only)                         |
| 001 OUTFALL                    | - 001 728/0                                     | e 6:05m GU                              | ) X X             |                 | <u> </u>               | +              |   |                     | 1-250ucl #                             |
|                                |   |   |                   | <u> </u>        |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
|                                |   |   |                   | 1               |                        |                |   |                     |  |
|                                |   | +                                       |                   |                 |                        | +              |   |                     |  |
|                                |   | +                                       |                   | ╂╍╍╂───         | + $+$ $-$              | +              |   |                     | ······································ |
|                                |   |   |                   | ╋╍╋╍╍           |                        |                |   |                     |  |
|                                |   |   |                   | <u> </u>        |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                | _   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
|                                |   |   |                   |                 |                        |                |   |                     |  |
| Rush Turnaround Time Req       | uested - Prelims Rei                            | nquished By: 🔿 🍃                        | )                 | Date/Time:      |                        | Repaired By    | <u>~</u>                                      | Date/Time:          | PACE Project No.                       |
| (Rush TAT subject to appre     | oval/surcharge)                                 | Ki J L                                  | Jarpen            | 428/09          | 6: Bam                 | d-             | <u>I/J</u>                                    | 19 4/28/0           | 98:40 4011593                          |
| Date Needed:                   | Rel   | nguished By:                            | the ul            | Date/Time:      | 14:20                  | Received By    | 7. (U.L                                       | Ulles Multon        | 14:20                                  |
| Email #1:                      | Rel   | nguished By:                            | <u> </u>          | Date/Time:      | 1 1 6 0                | Received By    | <u>, , , , , , , , , , , , , , , , , , , </u> | Date/Time:          | Receipt Temp * MU, °C                  |
| Emall #2:                      |   | · · · · · · · · · · · · · · · · · · ·   |                   |                 |                        |                |   |                     | Sample Receipt pH                      |
| Telephone:                     | Rel   | nquished By:                            |                   | Date/Time:      |                        | Received By    | r.  | Date/Time:          | OK / Adjusted                          |
| Samples on HOLD are subj       | ect to Reli                                     | nquished By:                            |                   | Date/Time:      |                        | Received By    | <i>r</i> :                                    | Date/Time:          | Present Not Present                    |
| epecial pricing and release of | liability                                       |   |                   | ·               |                        | 1              |   |                     | Intact / Not Intact                    |

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May 11, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 05, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A-V.M

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878

#### Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-200 North Carolina Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887 New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 20050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE SUMMARY

# Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878 Lab ID Sample ID Matrix Date Collected Date Received 4016878001 OUTFALL 001 Water 05/05/09 07:05 05/05/09 15:00

## **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE ANALYTE COUNT

| Project:<br>Pace Project No | N1866 A05/006 MAUTHE<br>b.: 4016 <b>8</b> 78 |                       |          |                      |            |
|-----------------------------|--|-----------------------|----------|----------------------|------------|
| Lab ID                      | Sample ID                                    | ··· Method            | Analysts | Analytes<br>Reported | Laboratory |
| 4016878001                  | OUTFALL 001                                  | EPA 6010              | DLB      | 1                    | PASI-G     |
|                             |  | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

## **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878

Method:EPA 6010Description:6010 MET ICP, DissolvedClient:OMNNI ASSOCIATES, INC.Date:May 11, 2009

#### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

## **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 11, 2009

#### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

## Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

## Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes: All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: N1866 A05/006 MAUTHE

Pace Project No.: 4016878

| Sample: OUTFALL 001     | Lab ID:    | 4016878001    | Collecte    | d: 05/05/09 | 07:05 | Received: 05 | /05/09 15:00 Ma | atrix: Water |      |
|-------------------------|------------|---------------|-------------|-------------|-------|--------------|-----------------|--------------|------|
| Parameters              | Results    | Units         | LOQ         | LOD         | DF    | Prepared     | Analyzed        | CAS No.      | Qual |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 5010        |             |       |              |                 |              |      |
| Chromium, Dissolved     | 724 u      | ıg/L          | 5.0         | 0.39        | 1     |              | 05/07/09 15:37  | 7440-47-3    |      |
| Chromium, Hexavalent    | Analytical | Method: SM 3  | 500-Cr B (O | nline)      |       |              |                 |              |      |
| Chromium, Hexavalent    | 0.76 m     | ng/L          | 0.10        | 0.017       | 5     |              | 05/05/09 15:30  | 18540-29-9   |      |

Date: 05/11/2009 08:50 AM

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

| Project:           | roject: N1866 A05/006 MAUTHE |              |          |          |           |           |              |             |            |          |          |     |          |
|--------------------|------------------------------|--------------|----------|----------|-----------|-----------|--------------|-------------|------------|----------|----------|-----|----------|
| Pace Project No .: | 4016878                      |              |          |          |           |           |              |             |            |          |          |     |          |
| QC Batch:          | WETA/3734                    | Ļ            |          | Analysis | s Method: | : 5       | SM 3500-Cr E | 3 (Online)  |            |          | <u>_</u> |     |          |
| QC Batch Method:   | SM 3500-C                    | r B (Online) |          | Analysis | s Descrip | tion: C   | Chromium, H  | exavalent t | y 3500     |          |          |     |          |
| Associated Lab Sam | ples: 4016                   | 878001       |          |          |           |           |              |             |            |          |          |     |          |
| METHOD BLANK:      | 153998                       |              |          | M        | atrix: Wa | ter       |              |             |            |          | -        |     | <u>-</u> |
| Associated Lab Sam | ples: 4016                   | 878001       |          |          |           |           |              |             |            |          |          |     |          |
|                    |                              |              |          | Blank    | R         | Reporting |              |             |            |          |          |     |          |
| Param              | eter                         |              | Units    | Result   |           | Limit     | Analyz       | ed          | Qualifiers | _        |          |     |          |
| Chromium, Hexavale | ent                          | mg/L         |          | <0.0     | 034       | 0.020     | 05/05/09     | 15:30       |            |          |          |     |          |
| LABORATORY CON     | TROL SAMP                    | LE: 15399    | 9        |          |           |           | <u></u>      |             |            | ·        |          |     |          |
|                    |                              |              |          | Spike    | LCS       | 3         | LCS          | % Rec       | :          |          |          |     |          |
| Param              | eter                         |              | Units    | Conc.    | Resu      | ult       | % Rec        | Limits      | Qi         | alifiers | _        |     |          |
| Chromium, Hexavale | ent                          | mg/L         |          | .3       |           | 0.29      | 96           | 90          | -110       |          |          |     |          |
| MATRIX SPIKE & M   | ATRIX SPIKE                  | DUPLICATE    | E: 15400 | 0        |           | 154001    |              |             |            |          |          |     |          |
|                    |                              |              |          | MS       | MSD       |           |              |             |            |          |          |     |          |
|                    |                              | 40           | 16878001 | Spike    | Spike     | MS        | MSD          | MS          | MSD        | % Rec    |          | Max |          |
| Paramete           | er                           | Units        | Result   | Conc.    | Conc.     | Result    | Result       | % Rec       | % Rec      | Limits   | RPD      | RPD | Qual     |
| Chromium, Hexavale | ent                          | mg/L         | 0.76     | 1.5      | 1.5       | 2.3       | 2.3          | 102         | 105        | 90-110   | 2        | 20  |          |
|                    |                              |              |          |          |           |           |              |             |            |          |          |     |          |

Date: 05/11/2009 08:50 AM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project:           | N1866 A05/ | 006 MAUTHE  |          |         |             |          |              |             |            |          |     |     |            |
|--------------------|------------|-------------|----------|---------|-------------|----------|--------------|-------------|------------|----------|-----|-----|------------|
| Pace Project No.:  | 4016878    |             |          |         |             |          |              |             |            |          |     |     |            |
| QC Batch:          | ICP/2206   |             |          | Analysi | s Method:   | E        | PA 6010      |             |            |          |     |     |            |
| QC Batch Method:   | EPA 6010   |             |          | Analysi | is Descript | ion: I   | CP Metals, T | race, Disso | olved      |          |     |     |            |
| Associated Lab Sar | nples: 401 | 6878001     |          |         |             |          |              |             |            |          |     |     |            |
| METHOD BLANK:      | 154826     |             |          | N       | latrix: Wat | ler      |              |             |            |          |     |     | . <u> </u> |
| Associated Lab Sar | mples: 401 | 6878001     |          |         |             |          |              |             |            |          |     |     |            |
|                    |            |             |          | Blank   | R           | eporting |              |             |            |          |     |     |            |
| Parar              | neter      |             | Units    | Result  | 1           | Limit    | Analyz       | ed          | Qualifiers |          |     |     |            |
| Chromium, Dissolve | ed         | ug/L        |          | <       | :0.39       | 5.0      | 05/07/09     | 14:39       |            |          |     |     |            |
|                    |            |             |          |         |             |          |              |             |            |          |     |     |            |
| LABORATORY CO      | NTROL SAM  | PLE: 15482  | .7       |         |             |          |              |             |            |          |     |     |            |
|                    |            |             |          | Spike   | LCS         | ;        | LCS          | % Rec       | •          |          |     |     |            |
| Parar              | neter      |             | Units    | Conc.   | Resu        | lt       | % Rec        | Limits      | Qu         | alifiers | _   |     |            |
| Chromium, Dissolve | ed         | ug/L        |          | 500     |             | 491      | 98           | 80          | -120       |          |     |     |            |
| MATRIX SPIKE & M   |            | E DUPLICATI | E: 15482 | 8       |             | 154829   |              |             |            |          |     |     |            |
|                    |            |             |          | MS      | MSD         |          |              |             |            |          |     |     |            |
|                    |            | 40          | 16883001 | Spike   | Spike       | MS       | MSD          | MS          | MSD        | % Rec    |     | Max |            |
| Parame             | ter        | Units       | Result   | Conc.   | Conc.       | Result   | Result       | % Rec       | % Rec      | Limits   | RPD | RPD | Qual       |
| Chromium, Dissolve | ed         | ug/L        | 0.94J    | 500     | 500         | 472      | 471          | 94          | 94         | 75-125   | .3  | 20  |            |

Date: 05/11/2009 08:50 AM

## **REPORT OF LABORATORY ANALYSIS**

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## **QUALIFIERS**

Project: N1866 A05/006 MAUTHE Pace Project No.: 4016878

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 05/11/2009 08:50 AM

#### REPORT OF LABORATORY ANALYSIS

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| Sample Condition Upon Receipt                                 |                                       |         |                                |                                |                   |  |  |  |  |  |  |
|---|---------------------------------------|---------|--------------------------------|--------------------------------|-------------------|--|--|--|--|--|--|
| Pace Analytical Client Name                                   | : DNNI                                |         |                                | Project #                      | 4016878           |  |  |  |  |  |  |
| Courier:  Fed Ex UPS USPS Clle Tracking #:                    | nt Comn                               | nerclai | Pace Other                     |                                |                   |  |  |  |  |  |  |
| Custody Seal on Cooler/Box Present: 🗌 yes                     | D no                                  | Seals   | Intact: 🗍 yes                  | no                             |                   |  |  |  |  |  |  |
| Packing Material: 📋 Bubble Wrap 🔤 Bubble                      | Bagis D                               | None    | Other                          |                                |                   |  |  |  |  |  |  |
| Thermometer Used <u>NA</u>                                    | Type of Ice                           | Wet     | Blue None                      | Samples on Ice, cooling        | process has begun |  |  |  |  |  |  |
| Cooler Temperature 20<br>Temp should be above freezing to 6°C | Biological                            | Tissue  | Is Frozen: Yes No<br>Comments: | contents:                      | person examining  |  |  |  |  |  |  |
| Chain of Custody Present:                                     | 010 esys                              |         | 1.                             |                                |                   |  |  |  |  |  |  |
| Chain of Custody Filled Out:                                  | Yes DNO                               |         | 2                              | ·····                          |                   |  |  |  |  |  |  |
| Chain of Custody Relinquished:                                | Yes ONO                               |         | 3.                             |                                |                   |  |  |  |  |  |  |
| Sampler Name & Signature on COC:                              | Yes ONO                               | ONA     | 4.                             |                                | ·                 |  |  |  |  |  |  |
| Samples Arrived within Hold Time:                             | QYes DNo                              | ONA     | 5.                             |                                |                   |  |  |  |  |  |  |
| Short Hold Time Analysis (<72hr):                             | 01105 DNO                             |         | e. Heichror                    | <u>ne</u>                      |                   |  |  |  |  |  |  |
| Rush Turn Around Time Requested:                              | UYOS DINO                             | On/A    | 7                              |                                |                   |  |  |  |  |  |  |
| Sufficient Volume:  | Yes DNo                               |         | 8.                             |                                |                   |  |  |  |  |  |  |
| Correct Containers Used:                                      | QYes DNO                              | ⊡n/a    | 9.                             |                                |                   |  |  |  |  |  |  |
| -Pace Containers Used:  | QYes DNo                              |         |                                | · · · ·                        |                   |  |  |  |  |  |  |
| Containers Intact:  | QYes DNo                              |         | 10.                            | ·······                        |                   |  |  |  |  |  |  |
| Filtered volume received for Dissolved tests                  | QYes DNo                              | ON/A    | 11. Chroniun                   | 1                              |                   |  |  |  |  |  |  |
| Sample Labels match COC:                                      | QYes DNO                              |         | 12.                            |                                |                   |  |  |  |  |  |  |
| -Includes date/time/ID/Analysis Matrix:                       | <u></u>                               |         |                                |                                |                   |  |  |  |  |  |  |
| All containers needing preservation are found to be in        | QYes ONO                              |         | 13.                            |                                |                   |  |  |  |  |  |  |
| exceptions: VOA, colform, TOC, O&G, Wi-DRO (water)            | DYes DNo                              |         | Initial when completed .       | Lot # of added<br>preservative |                   |  |  |  |  |  |  |
| Samples checked for dechlorination:                           |                                       | QNA     | 14.                            |                                |                   |  |  |  |  |  |  |
| Headspace In VOA Vlais ( >6mm):                               | DYes DNo                              | QNA     | 15.                            |                                |                   |  |  |  |  |  |  |
| Trlp Blank Present:   | QYes QNo                              | QNA     | 16.                            |                                |                   |  |  |  |  |  |  |
| Trip Blank Custody Seals Present                              | OYes ONo                              |         |                                |                                |                   |  |  |  |  |  |  |
| Pace Trip Blank Lot # (If purchased):                         | <del>.</del>                          |         |                                |                                |                   |  |  |  |  |  |  |
| Client Notification/ Resolution:                              | · · · · · · · · · · · · · · · · · · · |         |                                | Field Data Required?           | Y / N             |  |  |  |  |  |  |
| Person Contacted:   |                                       | _Date/  | lime:                          |                                |                   |  |  |  |  |  |  |
| Comments/ Resolution:   |                                       |         |                                |                                |                   |  |  |  |  |  |  |
|   |                                       |         |                                |                                |                   |  |  |  |  |  |  |
|   |                                       |         |                                |                                |                   |  |  |  |  |  |  |
|   |                                       |         |                                |                                |                   |  |  |  |  |  |  |
|   |                                       |         |                                |                                | 1~100             |  |  |  |  |  |  |
|   |                                       | -       |                                | 1                              | 1 1 1 1 1 1       |  |  |  |  |  |  |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| (F                  | lease Print Clearly)                    |                                      | ]   | ~                   | 7          |                    |             |                | <u>1</u>    | JPPER M     |          | EGION               |          | Page 1         | ofI        |
|---------------------|---|--------------------------------------|---|---------------------|------------|--------------------|-------------|----------------|-------------|-------------|----------|---------------------|----------|----------------|------------|
| Company Name:       | OMNNI ASS                               | SAC I ATE                            |   | <b>/</b>            |            |                    |             |                | ľ           | MN: 612-0   | 607-1700 | WI: 920-469-2436    |          |                | 0          |
| Branch/Location:    | APPLETON                                |                                      | /   |                     | aceAn      | RIYTIC             |             |                |             |             |          |                     |          | 401            | 6878       |
| Project Contact:    | BRIAN WAYN                              | ER                                   |   |                     | *******    | 0000023.0          |             |                |             |             | •        | Quote #:            | MAUT     | THE 1007       | 08         |
| Phone:              | 920-830-1014                            |                                      |   | C                   | HAIN       | OF                 | C           | US             | TO          | )Y          |          | Mail To Contact:    | BRIA     | N WAYNE        | R          |
| Project Number:     | N118/06 A05/6                           | 06                                   | A=No  | ne B=HC             | L C=H2SO4  | Presarva<br>D≠HNO3 | E=DI        | les<br>Water F | -Methanol   | G=NaOH      |          | Mall To Company:    | Omer     | T ASSN         | ATES       |
| Project Name:       | MAUTHE                                  |                                      | H=So  | dium Bisulfat       | e Solution | I=Sodiun           | n Thiosuli  | ate J:         | =Other      |             |          | Mail To Address:    | ONES     | Systems        | DRIVE      |
| Project State:      | WI                                      |                                      | FILTE   | RED?                | N          | Y                  |             |                |             |             |          |                     | APPL     | ETON.W.        | F.54914    |
| Sampled By (Print)  | BRIAN WAYN                              | ER                                   | PRESER<br>(COI  | VATION              | A          | D                  |             |                |             |             | _        | Involce To Contact: | BRIA     | IN WAYN        | FR         |
| Sampled By (Sign)   | Bi J. Ways                              | ues .                                |   |                     |            | , I                |             |                |             |             |          | Invoice To Company: | Oma      | NT ASSOC       | ATES       |
| PO #:               |   | Regulatory<br>Program:               |   |                     | ž į        | 2                  |             |                |             |             |          | Involce To Address: |          | ~              |            |
| Data Package O      | ntions MS/MSD                           | Mat                                  | rix Codes   | 1                   |            | 211                |             |                |             |             |          |                     | 5        | SAME           |            |
| (biliable)          | III On your sample (billable)           | A = Air<br>B = Blota<br>C = Charcoal | W = Water<br>DW = Drinkir<br>GW = Groun<br>SW = Surface | ng Water<br>d Water |            | Ron                |             | i i            |             |             |          | Invoice To Phone:   | 920-     | · 830 - 10     |            |
|                     | VIV NOT needed on<br>your sample        | S = Soil<br>SI = Sludgs              | WW = Waste<br>WP = Wipe                                 | Water               |            | HC                 |             |                |             |             |          | CLIENT              | LAB C    | OMMENTS        | Profile #  |
| PACE LAB'#          | CLIENT FIELD ID                         | DATE                                 | ECTION .  | MATRIX              |            |                    |             |                |             |             | _        | COMMENTS            | (Lab     | Use Only)      | <u> </u>   |
| 001                 | NUTFALL ODI                             | 5/6/cq                               | 7:05  | GW                  | Х          | $\times$           |             |                |             |             |          |                     | 2-250    | MIND           |            |
|                     | 0                                       |                                      |   |                     |            |                    |             |                |             |             |          |                     |          |                |            |
|                     |   |                                      |   | 1.00                |            |                    |             |                |             |             |          |                     |          |                |            |
|                     |   |                                      |   | 1                   |            |                    |             |                |             |             |          |                     |          |                |            |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          |                     | 1        |                |            |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          |                     |          |                |            |
|                     |   | -                                    |   |                     |            |                    |             |                |             |             | _        |                     |          |                |            |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          |                     | <u> </u> |                |            |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          | ,                   |          |                |            |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          |                     | <u></u>  |                |            |
|                     |   |                                      |   | 12.634              |            |                    |             |                |             |             | -+       |                     |          |                |            |
|                     |   |                                      |   | 1                   |            |                    |             |                |             |             |          |                     |          | ······         | ·····      |
|                     |   |                                      |   |                     |            |                    |             |                |             |             |          |                     |          | <u></u>        |            |
| Rush Turnaro        | und Time Requested - Preli              | ms <sub>Reilno</sub>                 | ulshed By:  | <u>66</u>           | 000000     | Dat                | e/Time:     |                | R           | ecefyed by: |          | 5// Date/Time:      | 1.14     | PACE Pro       | ject No.   |
| (Rush TAT si        | ubject to approval/surcharge<br>Needed: | e)                                   | Si D.   | flayse              |            | <u></u>            | 09<br>10/10 | <u>];4</u>     | 5am         | DA          | emp      | 15/09 1             | IO[D     | 40162          | 378        |
| Transmit Prelim Rus | h Results by (complete what you         | want):                               | Y Ker   | uper                | 1 7/2/     | 69                 | 4           | 500            | <b>ク</b> [^ | MAX         | SIL      | 575/09 1            | 500      | Peccipt Tomp # | 2 A1 %     |
| Email #1:           |   | Relino                               | uishod By:  |                     | 7          | Dat                | e/Time:     |                | R           | eceived By: | 0        | / Date/Time:        |          | Comple D       |            |
| Email #2:           | · · · · · · · · · · · · · · · · · · ·   | Reilnr                               | uished Bv:  | <u> </u>            |            | Dat                | e/Time:     | ·              |             | eceived Svr |          | Date/Time           |          |                | justed     |
| Fax:                |   |                                      |   |                     |            |                    |             |                |             |             |          |                     |          | Cooler Cur     | tody Seal  |
| Samples             | on HOLD are subject to                  | Relinc                               | uished By:  |                     |            | Dat                | e/Time:     | -              | R           | eceived By: |          | Date/Time:          |          | Present / N    | of Present |
| apecial pri         | ing and release of liability            |                                      |   |                     |            |                    |             |                |             |             |          |                     |          | Intact / N     | qr intagt  |

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May 14, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05-006 MAUTHE Pace Project No.: 4017160

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 12, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

1/1

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

## Project: N1866A05-006 MAUTHE Pace Project No.: 4017160

#### **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Carolina Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887

New York Certification #: 11888 Minnesota Certification #: 055-999-334 Louisiana Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 83 Illinois Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87918 Florida/NELAP Certification #: E87948

## **REPORT OF LABÒRATORY ANALYSIS**

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

## SAMPLE SUMMARY

| Project:<br>Pace Project N | N1866A05-006 MAUTHE |        |                |                |
|----------------------------|---------------------|--------|----------------|----------------|
| Lab ID                     | Sample ID           | Matrix | Date Collected | Date Received  |
| 4017160001                 | OUTFALL 001         | Water  | 05/12/09 07:05 | 05/12/09 11:45 |

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE ANALYTE COUNT

| Project:<br>Pace Project N | N1866A05-006 MAUTHE |                       |          |                      |            |  |
|----------------------------|---------------------|-----------------------|----------|----------------------|------------|--|
| Lab ID                     | Sample ID           | Method                | Analysts | Analytes<br>Reported | Laboratory |  |
| 4017160001                 | OUTFALL 001         | SM 3500-Cr B (Online) | DEY      | 1.                   | PASI-G     |  |

## REPORT OF LABORATORY ANALYSIS

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#### **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE Pace Project No.: 4017160

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 14, 2009

#### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### QC Batch: WETA/3782

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4017160001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 156892)
- Chromium, Hexavalent
- MSD (Lab ID: 156893)
  - · Chromium, Hexavalent

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: N1866A05-006 MAUTHE

Pace Project No.: 4017160

| Sample: OUTFALL 001  | Lab ID:    | 4017160001   | Collecte    | d: 05/12/09 | 07:05 | Received: 05/ | 12/09 11:45 Ma | atrix: Water |      |
|----------------------|------------|--------------|-------------|-------------|-------|---------------|----------------|--------------|------|
| Parameters           | Results    | Units        | LOQ         | LOD         | DF    | Prepared      | Analyzed       | CAS No.      | Qual |
| Chromium, Hexavalent | Analytical | Method: SM 3 | 500-Cr B (C | )nline)     |       |               |                |              |      |
| Chromium, Hexavalent | . 0.89 m   | ng/L         | 0.10        | 0.017       | 5     |               | 05/12/09 16:00 | 18540-29-9   | MO   |

Date: 05/14/2009 02:51 PM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project:           | N1866A05-0   | 006 MAUTHE    |          |        |                       |          |             |             |            |           |     |     |      |
|--------------------|--------------|---------------|----------|--------|-----------------------|----------|-------------|-------------|------------|-----------|-----|-----|------|
| Pace Project No.:  | 4017160      |               |          |        |                       |          |             |             |            |           |     |     |      |
| QC Batch:          | WETA/378     | 2             |          | Analys | is Method:            | S        | M 3500-Cr E | 3 (Online)  |            |           |     | ·   |      |
| QC Batch Method:   | SM 3500-0    | Cr B (Online) |          | Analys | Analysis Description: |          |             | exavalent t | y 3500     |           |     |     |      |
| Associated Lab Sar | nples: 401   | 7160001       |          |        |                       |          |             |             |            |           |     |     |      |
| METHOD BLANK:      | 156890       |               |          | N      | Aatrix: Wat           | ler      |             |             |            |           |     |     |      |
| Associated Lab Sar | nples: 401   | 7160001       |          |        |                       |          |             |             |            | •         |     |     |      |
|                    |              |               |          | Blank  | : R                   | eporting |             |             |            |           |     |     |      |
| Parar              | neter        | ا<br>         | Jnits    | Resul  | t                     | Limit    | Analyz      | ed          | Qualifiers | _         |     |     |      |
| Chromium, Hexava   | ent          | mg/L          |          | <0.    | 0034                  | 0.020    | 05/12/09    | 16:00       |            |           |     |     |      |
| LABORATORY COI     |              | PLE: 15689    | 1        |        |                       |          |             |             |            |           |     |     |      |
|                    |              |               |          | Spike  | LCS                   | ;        | LCS         | % Rec       | :          |           |     |     |      |
| Parar              | neter        | I             | Units    | Conc.  | Resu                  | ilt      | % Rec       | Limits      | Qı         | ualifiers |     |     |      |
| Chromium, Hexava   | ent          | mg/L          |          | .3     |                       | 0.31     | 104         | 90          | -110       |           | •   |     |      |
| MATRIX SPIKE & N   | IATRIX SPIKI |               | : 15689  | 2      |                       | 156893   |             |             |            |           |     |     |      |
|                    |              |               |          | MS     | MSD                   |          |             |             |            |           |     |     |      |
|                    |              | 40            | 17160001 | Spike  | Spike                 | MS       | MSD         | MS          | MSD        | % Rec     |     | Max |      |
| Parame             | ler          | Units         | Result   | Conc.  | Conc.                 | Result   | Result      | % Rec       | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium, Hexava   | ent          | mg/L          | 0.89     | 1.5    | 1.5                   | 2.2      | 2.0         | 84          | 76         | 90-110    | 6   | 20  | M0   |

Date: 05/14/2009 02:51 PM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

| Project:          | N1866A05-006 MAUTHE |  |  |  |  |  |
|-------------------|---------------------|--|--|--|--|--|
| Pace Project No.: | 4017160             |  |  |  |  |  |

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

#### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 05/14/2009 02:51 PM

## **REPORT OF LABORATORY ANALYSIS**

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| Pace Analytical Client Name   | : Onin            | ni                               | Project #                      | 4017160                                |
|---|-------------------|----------------------------------|--------------------------------|--|
| Courler: 🗍 Fed Ex 🗍 UPS 🗍 USPS 🗌 Clie<br>Tracking #:  | ent Commercial    | Pace Other                       |                                | i<br>Ditensisten<br>Ditensisten        |
| Custody Seal on Cooler/Box Present: 🗌 yes   | I no Seal         | s Intact: 🔲 yes                  |                                |  |
| Packing Material: 🗍 Bubble Wrap 👘 Bubble  | e Bags None       | Other                            |                                |  |
| Thermometer Used  | Type of Ice: We   | Blue None                        | Samples on Ice, cool           | ing process has begun                  |
| Cooler Temperature<br>Temp should be above freezing to 6°C                                    | Biological Tissue | e is Frozen: Yes No<br>Comments: | Date and Initials<br>contents: | of person examining<br>15/12/09        |
| Chain of Custody Present:   | ØVes []No []N/    | 1.                               |                                |  |
| Chain of Custody Filled Out:  | ØY95 []NO []N/    | 2.                               | <u></u>                        |  |
| Chain of Custody Relinquished:  | Pres ONO ON       | 3.                               |                                |  |
| Sampler Name & Signature on COC:  |                   | 4.                               |                                |  |
| Samples Arrived within Hold Time:   | BY03 (1N0 (1N/    | 5.                               |                                |  |
| Short Hold Time Analysis (<72hr):   | 121705 DNO DN/    | 6.                               | •                              |  |
| Rush Turn Around Time Requested:  | OYes DNO ON/      | 7.                               |                                |  |
| Sufficient Volume:  | ATTES CINO CINIA  | 8.                               |                                |  |
| Correct Containers Used:  | Dires ONO ON/A    | 9.                               |                                |  |
| -Pace Containers Used:  | DIVES DNO DN/A    |                                  | <u> </u>                       |  |
| Containers Intact:  |                   | 10.                              | ·                              |  |
| Filtered volume received for Dissolved tests  | Dyes DNo DNI      | 11.                              |                                |  |
| Sample Labels match COC:  |                   | 12.                              | :                              |  |
| -Includes date/time/ID/Analysis Matrix:   | <u> </u>          | 13.                              |                                |  |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. |                   | -                                |                                |  |
| exceptions: VOA, coliform, TOC, Q&G, WI-DRO (water)   | OYes ONo          | Initial when<br>completed        | Lot # of added<br>preservative |  |
| Samples checked for dechlorination:   | DYes DNo BIRA     | 14                               |                                |  |
| Headspace in VOA Vials ( >6mm):   | DYES DNO DINA     | 15.                              |                                |  |
| Inp Blank Present:  | DYES DNO DINA     | 16.                              |                                |  |
| Trip Blank Custody Seals Present  | OYes ONO _BINA    | T                                |                                |  |
| Pace Trip Blank Lot # (if purchased):   | ·<br>             | <u> </u>                         | ·····                          |  |
| Client Notification/ Resolution:  |                   |                                  | Field Data Required?           | Y / N                                  |
| Person Contacted:   | Date              | /Пме:                            |                                |  |
|   |                   |                                  |                                | ······································ |
|   |                   |                                  |                                |  |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| Company Name: ONINT ASSACLATES BRENNLSCHERT APPLETAN Project Context: APPLETAN Project Context: BRIAN MAYNER Project State: WIT   | ()                                       | Please Print Clearly)                                |   | ]  | $\sim$            |             |                            |           |         | UPPER             | MIDWEST I  | REGION                   | Page 1 of Z                           |
|--|--|--|---|--|-------------------|-------------|----------------------------|-----------|---------|-------------------|------------|--------------------------|---------------------------------------|
| Additionation       HURLETTAN       International of the second by the second b  | Company Name:                            | OMNNE ASSOC  | IATES                                       |  | Pace              | Ana         | ntvical                    |           |         | MN: 61            | 2-607-1700 | wi: 920-469-2436         | 4017160                               |
| Project Canadi:       DALLAN: MARXIER       Project Number:       PALO - S.3.0 La HU         Project Number:       PALO - S.3.0 La HU       Project Number:       PALO - S.3.0 La HU         Project Number:       PALO - S.3.0 La HU       Project Number:       PALO - S.3.0 La HU         Project Number:       PALO - S.3.0 La HU       Project Number:       Project Number:       Project Number:         Project State:       WIT       WIT       Project Number:       Project Number:       Project Number:         Project State:       WIT       Project Number:       Project Number:       Project Number:       Project Number:       Project Number:         Project State:       WIT       Project Number:   | Branch/Location:                         | APPLETON   |   | /-   | / 400             | www.p       | acelabs.com                |           |         |                   |            | ·                        | Lot ILES.                             |
| Phone:         9,00 - 8,30 - 6,014         CHAIN OF CUSSION         Mail To Contact:         BRIAN INAVAER           Projes Number:         MAILTER:         Mail To Address:         Mail To Address:         OK           Projes Number:         MAILTER:         Mail To Address:         OK         A           Projes Number:         MAILTER:         Mail To Address:         OK         A           Projes Number:         MAILTER:         Mail To Address:         OK         A           Projes Number:         MAINER         Mail To Address:         OK         A           Projes Number:         Mail To Address:         OK         A         Invoice To Address:         SA           Projes Number:         Mail To Address:         SA         A         Invoice To Address:         SA           Projes Number:         Mail To Address:         SA         Invoice To Address:         SA         SA           Data Projes Number:         Mail To Address:         SA  | Project Contact:                         | BRIAN WAYN   | IER   |  | <u> </u>          |             |                            | <u></u>   |         | <b>D</b> \/       |            | Quote #:                 | MAUTHE 100 70                         |
| Project Number:       ////////////////////////////////////   | Phone:                                   | 920-830-61   | 41  | l  | CHA               | <u> VIN</u> |                            | CUS       | 510     | DY                |            | Mail To Contact:         | BRIAN WAYNER                          |
| Project Nume:       MAILTHE       Project Status       All THE       Project Status       N         Project Status       WIT       Provestion       Provestion       N       APPLETON       Walt To Address:       ONE       Stype Terms Diality       APPLETON       Walt To Address:       DAPPLETON       Walt To Address: <td>Project Number:</td> <td>N1866405-00</td> <td>36</td> <td>A=None</td> <td>B=HCL C=</td> <td>H2SO4</td> <td>D=HNO3 E</td> <td>=Di Water</td> <td>F=Metha</td> <td>nol G=NaC</td> <td>эн</td> <td>Mail To Company:</td> <td>DMNNE ASSOCIATE.</td>   | Project Number:                          | N1866405-00  | 36  | A=None   | B=HCL C=          | H2SO4       | D=HNO3 E                   | =Di Water | F=Metha | nol G=NaC         | эн         | Mail To Company:         | DMNNE ASSOCIATE.                      |
| Project State:     WIT     Preteron     All     AppleTrow     AppleTrow <td>Project Name:</td> <td>MAUTHE</td> <td></td> <td>H=Sodiu</td> <td>m Bisulfate Solut</td> <td>lon</td> <td>t=Sodium Thi</td> <td>iosulfate</td> <td>J=Other</td> <td></td> <td></td> <td>Mail To Address:</td> <td>ONE SYSTEMS D</td>   | Project Name:                            | MAUTHE   |   | H=Sodiu  | m Bisulfate Solut | lon         | t=Sodium Thi               | iosulfate | J=Other |                   |            | Mail To Address:         | ONE SYSTEMS D                         |
| Sampled By (Print):       BQLAN_WAYNER       PRESERVATION<br>(CDCF)   | Project State:                           | WI   |   | FILTEREI<br>(YES/NC  | D?<br>))          | N           |                            |           |         |                   |            |                          | APPLETON WI 549                       |
| Sampled By (Sign):       D. U.Durgun       Registery       Office To Sample       Office To Company:       Office To Address:       Office To Address:         Data Package Options<br>DEAL sevel III<br>DEAL sevel IIII<br>DEAL sevel III<br>DEAL sevel IIII<br>DEAL sevel IIII<br>DEAL sevel IIII<br>DEAL sevel IIII<br>DEAL sevel IIII<br>DEAL sevel IIIIIII<br>DEAL sevel IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | Sampled By (Print                        | BRIAN WAYNE  | e .   | PRESERVA<br>(CODE)   | TION Pick         | A           |                            |           |         |                   |            | Invoice To Contact:      | BRIAN WAYNER                          |
| Po #:     Paguidatory       Data Package Options     MSIMSD       Volume     MSIMSD       Were Were Were Were Were Were Were Were  | Sampled By (Sign)                        | Billeaner  |   |  |                   |             |                            | _         |         |                   |            | Invoice To Company:      | OMNINT ASSACIATE                      |
| Data Package Dations<br>(nillish)       MSIMSD<br>(nillish)       MSIMSD<br>(nillish)       Matrix Codes<br>(nillish)       3<br>(nillish)       SAME         Dep Activeli<br>(nillish)       North Codes<br>(nillish)       North Codes<br>(nillish)       North Codes<br>(nillish)       SAME       SAME         PACE LAB #       CLIENT FIELD ID       North Codes<br>(nillish)       North Codes<br>(nillis  | PO #:                                    |  | Regulatory<br>Program:                      |  | 98 B9             | ENT<br>5    |                            |           |         |                   |            | Invoice To Address:      |                                       |
| <ul> <li>             EPA Level IV             </li> <li></li></ul>  | Data Package O<br>(biliable)<br>EPA Leve | ptions <u>MS/MSD</u><br>On your sample<br>(billable) | Mat<br>A = Air<br>B = Blota<br>C = Charcoal | rix Codes<br>W = Water<br>DW = Drinking V<br>GW = Ground W | Vater Sector      | AVALI       |                            |           |         |                   |            | Invoice To Phone:        | $\int A m E$                          |
| PACE Frage     Description       Constraint     Constraint       Constraint </td <td>EPA Leve</td> <td>el IV NOT needed on<br/>your sample</td> <td>O = Oil<br/>S = Soil<br/>Si = Shudao</td> <td>SW = Surface W<br/>WW = Waste Wa</td> <td>ater Stor</td> <td>XH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>CLIENT</td> <td>LAB COMMENTS Profil</td>  | EPA Leve                                 | el IV NOT needed on<br>your sample                   | O = Oil<br>S = Soil<br>Si = Shudao          | SW = Surface W<br>WW = Waste Wa                            | ater Stor         | XH          |                            |           |         |                   |            | CLIENT                   | LAB COMMENTS Profil                   |
| OM 1       QUTEALLOOI       \$7.05       GW       X       Image: Constraint of the second secon  | PACE LAB'#                               | CLIENT FIELD ID                                      | DATE  | ECTION M   | ATRIX             | ₹0          |                            |           |         |                   |            | COMMENTS                 | (Lab Use Only)                        |
| Rush Turnaround Time Requested - Prelims<br>(Rush Turnaround Time Requested - Prelims<br>Resolved By:<br>Data Needed:<br>Turnaround Time<br>Resolved By:<br>Data Time:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By:<br>Recolved By: | 001                                      | UTFALL OOL   | 5/12/00                                     | 7:05_6   | W                 | <u>×</u>    |                            |           |         |                   |            |                          | 1-250all #                            |
| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.         Reinquished By:       Date/Time:       Simultify 71/4/2007       Rift       PACE Project No.       W// 71/60         Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.       W// 71/60         Reinquished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Sample Receive By:       Date/Time:       Received By:       Date/Time:       Pace/// 71/60         Sample Receive By:       Date/Time:       Received By:       Date/Time:       Pace/// 71/60         Sample Receive By:       Date/Time:       Received By:       Date/Time:       Preceived By:       Date/Time:         Sample Received By:       Date/Time:       Received By:       Date/Time:       Preceived By:       Date/// 71/100       Preceived By:  |  |  |   |  |                   |             | ┠                          |           |         | ┢╍╍╌┟╸            | _          |                          |                                       |
| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date Time:       Pace Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date Time:       Pace Project No.         Ring By:       Date Time:       PACE Project No.       PACE Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date Time:       PACE Project No.         Received By:       Date Time:       PACE Project No.       PACE Project No.       W// Th/D         Received By:       Date Time:       PACE Project No.       W// Th/D         Received By:       Date Time:       Received By:       Date/Time:         Received By:       Date/Time:       Received By:       Date/Time:         Sample Received By:       Date/Time:       Received By:       Date/Time:         Sample Received By:       Date/Time:       Received By:       Date/Time:         Sample Received By:       Date/Time:       Received By:       Date/Time:       Present Mode Pr   |  |  |   |  |                   |             |                            |           |         | <b>↓</b> .        |            |                          | · · · · · · · · · · · · · · · · · · · |
| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.         Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.         Transmit Prelim Rush Results by (complete what you want):       Reinquished By:       Date/Time:       PACE Project No.       PACE Project No.         Relinquished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Rush Rush Results by (complete what you want):       Relinquished By:       Date/Time:       PACE Project No.         Relinquished By:       Date/Time:       Received By:       Date/Time:       Prozent for full to full Prozent for full to ful  |  |  |   |  |                   |             |                            |           |         | -                 |            |                          |                                       |
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| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Relinguished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Transmit Prelim Rush Results by (complete what you want):<br>mail #1:       Relinguished By:       Date/Time:       Received By:       Date/Tim  |  |  |   |  |                   |             |                            |           |         |                   |            |                          |                                       |
| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge)<br>Date Needed:       Relinquished By:       Date/Time:       Received By:       Date/Time:       PACE Project No.         Transmit Prelim Rush Results by (complete what you want):       Relinquished By:       Date/Time:       Pace/Time:       Pace/Time:       Pace/Time:         mail #1:<br>mail #2:<br>elephone:       Relinquished By:       Date/Time:       Received By:       Date/Time:       Received By:       Date/Time:         Samples on HOLD are subject to       Relinquished By:       Date/Time:       Received By:       Date/Time:       Received By:       Date/Time:         Samples on HOLD are subject to       Relinquished By:       Date/Time:       Received By:       Date/Time:       Pace/Time:  |  |  |   |  |                   |             |                            |           | Τ       |                   |            |                          |                                       |
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| Transmit Prelim Rush Results by (complete what you want):       J. Multip 5//3/89/11.4/5       J. Multip 5/12/09/11.4/1       Receipt Temp = M/1         mall #1:       Relinquished By:       Date/Time:       Received By:       Date/Time:       Receipt PH         mall #2:       Relinquished By:       Date/Time:       Received By:       Date/Time:       Sample Receipt pH         Model Age:       Relinquished By:       Date/Time:       Received By:       Date/Time:       OK / Adjusted         Samples on HOLD are subject to       Relinquished By:       Date/Time:       Received By:       Date/Time:       Present / Not Present  | (Rush TAT s<br>Dat                       | ubject to approval/surcharge<br>e Needed:            | e)<br>Relint                                | Riched By:   | Wayne             | 1           | <b>ダルン</b> の<br>/ Date/Tin | 9 7:4     | [Yam    | P.<br>Received Ba | mil        | KI 9/12/09<br>Date/Time: | 8:40 4017160                          |
| mail #1:     Relinquished By:     Date/Time:     Received By:     Date/Time:       mail #2:     mail #2:     Sample Receipt pH       elephone:     Relinquished By:     Date/Time:     Received By:       ax:     Received By:     Date/Time:     OK / Adjusted       Samples on HOLD are subject to     Relinquished By:     Date/Time:     Received By:     Date/Time:   | Transmit Prelim Ru                       | sh Results by (complete what you w                   | rant):                                      | ·.m  | uth               | _ 5/        | 12/89                      |           | 15      | - J               | ,ull       | 260 3/12/09              | (1:4) Receipt Temp = 110 1            |
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| Samples on HOLD are subject to Relinquished By: Date/Time: Received By: Date/Time: Present /Sot Present  | Fax:                                     |  |   | •  |                   |             |                            |           |         |                   |            |                          | Cooler Custody Sea                    |
|  | Sample                                   | on HOLD are subject to                               | Reling                                      | uished By:   |                   |             | Date/Tin                   | ne:       |         | Received By       | <i>r</i> : | Date/Time:               | Present /Not Present                  |

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May 20, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/006 MAUTHE Pace Project No.: 4017486

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

## Project: N1866A05/006 MAUTHE Pace Project No.: 4017486

#### **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887 New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE SUMMARY

| Project:<br>Pace Project N | N1866A05/006 MAUTHE |        |                |                |
|----------------------------|---------------------|--------|----------------|----------------|
| Lab ID                     | Sample ID           | Matrix | Date Collected | Date Received  |
| 4017486001                 | OUTFALL 001         | Water  | 05/19/09 07:25 | 05/19/09 12:20 |

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE ANALYTE COUNT

| Project:<br>Pac <b>e</b> Project N | N1866A05/006 MAUTHE<br>lo.: 4017486 |                       |          | Analytes<br>Reported          |            |
|------------------------------------|-------------------------------------|-----------------------|----------|-------------------------------|------------|
| Lab ID                             | Sample ID                           | Method                | Analysts | Anal <u>y</u> tes<br>Reported | Laboratory |
| 4017486001                         | OUTFALL 001                         | SM 3500-Cr B (Online) | DEY      | 1                             | PASI-G     |

## **REPORT OF LABORATORY ANALYSIS**


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## **PROJECT NARRATIVE**

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4017486             |

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 20, 2009

## **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

# Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

## Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### QC Batch: WETA/3837

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4017486001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 159697)
  - Chromium, Hexavalent
- MSD (Lab ID: 159698)
  - Chromium, Hexavalent

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

| Project:<br>Pace Project No.: | N1866A05/006<br>4017486 | 6 MAUTHE  |                |             |             |       |              |                |               |      |  |
|-------------------------------|-------------------------|-----------|----------------|-------------|-------------|-------|--------------|----------------|---------------|------|--|
| Sample: OUTFALL               | . 001                   | Lab ID:   | 4017486001     | Collecte    | d: 05/19/09 | 07:25 | Received: 05 | /19/09 12:20 N | latrix: Water |      |  |
| Parame                        | ters                    | Results   | Units          | LOQ         | LOD         | DF    | Prepared     | Analyzed       | CAS No.       | Qual |  |
| Chromium, Hexava              | lent                    | Analytica | I Method: SM 3 | 500-Cr B (C | nline)      |       |              |                |               |      |  |
| Chromium, Hexaval             | ent                     | 0.79 r    | ng/L           | 0.10        | 0.017       | 5     |              | 05/19/09 14:00 | ) 18540-29-9  | MO   |  |

Date: 05/20/2009 04:39 PM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A05/0   | 006 MAUTHE    |         |        |             |          |             |             |            |          |          |     |      |
|--------------------|--------------|---------------|---------|--------|-------------|----------|-------------|-------------|------------|----------|----------|-----|------|
| Pace Project No.:  | 4017486      |               |         |        |             |          |             |             |            |          |          |     |      |
| QC Batch:          | WETA/383     | 37            |         | Analys | is Method:  | s        | M 3500-Cr E | 3 (Online)  |            |          |          |     |      |
| QC Batch Method:   | SM 3500-0    | Cr B (Online) |         | Analys | is Descript | tion: C  | hromium, He | exavalent t | oy 3500    |          |          |     |      |
| Associated Lab San | nples: 401   | 7486001       |         |        |             |          |             |             |            |          |          |     |      |
| METHOD BLANK:      | 159695       |               |         | N      | Aatrix: Wat | ter      |             |             |            |          |          |     |      |
| Associated Lab San | nples: 401   | 7486001       |         |        |             |          |             |             |            |          |          |     |      |
|                    |              |               |         | Blank  | K R         | eporting |             |             |            |          |          |     |      |
| Paran              | neter        | L             | Jnits   | Resul  | t           | Limit    | Analyz      | ed          | Qualifiers | _        |          |     |      |
| Chromium, Hexaval  | ent          | mg/L          |         | <0.    | 0034        | 0.020    | 05/19/09    | 14:00       |            |          |          |     |      |
| LABORATORY CON     |              | PLE: 159696   | ;       |        | <u>_</u>    |          | , ·         |             |            |          |          |     |      |
|                    |              |               |         | Spike  | LCS         | ;        | LCS         | % Rec       | :          |          |          |     |      |
| Paran              | neter        | ι             | Jnits   | Conc.  | Resu        | lt       | % Rec       | Limits      | Qı         | alifiers |          |     |      |
| Chromium, Hexaval  | ent          | mg/L          |         |        |             | 0.32     | 108         | 90          | -110       |          | -        |     |      |
| MATRIX SPIKE & M   | IATRIX SPIKI | E DUPLICATE   | : 15969 | 7      |             | 159698   |             |             |            |          | <u>.</u> |     |      |
|                    |              |               |         | MS     | MSD         |          |             |             |            |          |          |     |      |
|                    |              | 401           | 7486001 | Spike  | Spike       | MS       | ŃSD         | MS          | MSD        | % Rec    |          | Max |      |
| Paramel            | er           | Units •       | Result  | Conc.  | Conc.       | Result   | Result      | % Rec       | % Rec      | Limits   | RPD      | RPD | Qual |
| Chromium, Hexaval  | ent          | mg/L          | 0.79    | 1.5    | 1.5         | 2.0      | 2.1         | 81          | 86         | 90-110   | 4        | 20  | MO   |

Date: 05/20/2009 04:39 PM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4017486             |

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

#### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 05/20/2009 04:39 PM

## **REPORT OF LABORATORY ANALYSIS**

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| Sa   | mple Condition                        | Upon Receipt                           |                                     |   |
|--|---------------------------------------|--|-------------------------------------|---|
| Pace Analytical Client Name  | :Onin                                 | mi                                     | Project #                           | 4017486   |
| Courier: C Fed Ex C UPS USPS C Clie  | ent Commercial                        | Pace Other                             | Optional¥<br>Proj: Due<br>Broj: Nam | Date State Street                                 |
| Custody Seal on Cooler/Box Present: U yes  | no Seals                              | intact: 🛄 yes                          | ] no                                |   |
| Packing Material: Bubble Wrap Bubble   | e Bags 🖉 None                         | Other                                  |                                     |   |
| Thermometer Used MH  | Type of Ice: Wet                      | Blue None                              | Samples on ice, coolir              | g process has begun                               |
| Cooler Temperature $\mathcal{WC}$<br>Temp should be above freezing to 6°C                  | Biological Tissue                     | is Frozen: Yes No<br>Comments:         | Date and Initials contents:         | of person examining                               |
| Chain of Custody Present:  | EYes ONO ON/A                         | 1.                                     |                                     |   |
| Chain of Custody Filled Out:   | PYes ONO ON/A                         | 2                                      |                                     |   |
| Chain of Custody Relinquished:   | TYes DNO DN/A                         | 3.                                     |                                     |   |
| Sampler Name & Signature on COC:   | ZIYes DNO DN/A                        | 4                                      | •                                   |   |
| Samples Arrived within Hold Time:  | PYes DNO DN/A                         | 5.                                     |                                     |   |
| Short Hold Time Analysis (<72hr):  |                                       | 6.                                     |                                     |   |
| Rush Turn Around Time Requested:   |                                       | 7                                      |                                     |   |
| Sufficient Volume:   |                                       | 8                                      |                                     |   |
| Correct Containers Used:   | PYes DNO DN/A                         | 9.                                     |                                     |   |
| -Pace Containers Used:   | VYes DNO DN/A                         |  |                                     |   |
| Containers Intact:   | Yes ONO ON/A                          | 10.                                    |                                     |   |
| Filtered volume received for Dissolved tests   |                                       | 11.                                    |                                     |   |
| Sample Labels match COC:   | Dres DNO DN/A                         | 12.                                    |                                     |   |
| -Includes date/time/ID/Analysis Matrix:  | W                                     |  |                                     |   |
| All containers needing preservation have been checked.                                     |                                       | 13.                                    |                                     |   |
| All containers needing preservation are found to be in compliance with EPA recommendation. | Dyes DNO DN/A                         |  |                                     |   |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | OYes ONo                              | Initial when<br>completed              | Lot # of added<br>preservative      |   |
| Samples checked for dechlorination:  | UYes DNO DNA                          | 14                                     |                                     |   |
| Headspace in VOA Vials ( >6mm):  |                                       | 15                                     |                                     |   |
| Trip Blank Present:  | QYes QNo QANIA                        | 16.                                    |                                     |   |
| Trip Blank Custody Seals Present   | OYes ONO DAVA                         |  |                                     |   |
| Pace Trip Blank Lot # (if purchased):  |                                       | <u> </u>                               |                                     |   |
| Client Notification/ Resolution:   |                                       |  | Field Data Required?                | Y / N   |
| Person Contacted:  | Date/                                 | Time:                                  |                                     |   |
| Comments/ Resolution:  |                                       | ······································ |                                     | <u></u>   |
|  |                                       |  |                                     |   |
| <u></u>  |                                       |  |                                     | <u> </u>  |
|  |                                       |  |                                     | <u> </u>  |
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|  | <u> </u>                              |  | ~                                   | $11 \pi I \Lambda a$                              |
| Project Manager Review:  | $\sim$                                |  | Date: J                             | 1/ 4/09   |
|  |                                       |  | - 7                                 | · <del>· · · · · · · · · · · · · · · · · · </del> |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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|                         | (Ple                       | ase F                | Print Clearly)                        |   | ]  |                                      |             |  |                  |                     |                         |         | UPPE     |            | NEST R   | EGION               |        | Page                     | of工         |
|-------------------------|----------------------------|----------------------|---------------------------------------|---|--|--------------------------------------|-------------|--|------------------|---------------------|-------------------------|---------|----------|------------|----------|---------------------|--------|--------------------------|-------------|
| Company N               | ame:                       | $\Omega m_{\Lambda}$ | AFT ASSO                              |   |  | , p                                  |             | -  |                  |                     |                         |         | MN: 6    | 612-607    | -1700    | WI: 920-469-2436    | •      |                          |             |
| Branch/Loca             | ation:                     | A POI                |                                       |   | 1,   | /                                    | Pace        | Ana  | alytic           |                     |                         |         |          |            |          |                     |        | 40                       | 17486       |
| Project Cont            | tact:                      | BRI                  | AN WAY                                | NER   | 7 /  |                                      |             | www.ţ  | accianz          | 00171               |                         |         |          |            |          | Quote #:            | MAU    | THE U                    | 80700       |
| Phone:                  |                            | 921                  | 1 - 8 30 - C                          | ai41  |  | (                                    | CHA         | AIN  | O                | = C                 | US                      | TO      | DY       | ,          |          | Mail To Contact:    | BRIF   | IN WA                    | NER         |
| Project Num             | ber:                       | A) /8                | 266 A05/0                             | 006   | A=N  | lone B:                              | HCL C       | =H2SO4   | Preserv<br>D=HNO | ation Coe<br>3 E=DI | <del>les</del><br>Water | F=Metha | noi G=N  | laOH       | ]        | Mail To Company:    | omo    | UNI AS                   | SOCIATES    |
| Project Nam             | <b>e</b> :                 |                      | MAUTHE                                |   | H=S  | odlum Bist                           | ulfate Solu | tion   | I=Sodiu          | m Thiosul           | fate J                  | =Other  |          |            | ]        | Mall To Address:    | ONE    | - SY STO                 | EMS DR      |
| Project State           | »:                         |                      | UII                                   |   | FILTI<br>(YE                                       | ERED?<br>S/NO}                       |             | N  |                  |                     |                         |         |          |            |          |                     | APPLI  | ETON, WI                 | 54914       |
| Sampled By              | (Print):                   | BR                   | IAN WAY                               | NER   | PRESE<br>(CC                                       | RVATION                              |             | A  |                  |                     |                         |         |          |            |          | Invoice To Contact: | BRIF   | AN ULAYI                 | VER         |
| Sampled By              | (Sign):                    | B                    | : D. Warner                           |   |  |                                      |             |  | T                | 1                   |                         |         |          |            |          | Invoice To Company: | Omn    | IT ASS                   | CIATES      |
| PO #:                   |                            |                      |                                       | Regulator<br>Program:                           | /  |                                      |             | 1<br>1<br>1<br>1<br>1<br>1   |                  |                     |                         |         |          |            |          | Invoice To Address: |        |                          |             |
| Data Pack               | age Opt                    | ions                 | MS/MSD                                | M   | atrix Code   | s                                    |             | サレン  | Ř                |                     |                         |         |          |            |          |                     |        | Same                     |             |
|                         | A Level I                  |                      | On your sample<br>(billable)          | A = Air<br>B = Biota<br>C = Charcoal<br>O = Oil | W = Water<br>DW = Drink<br>GW = Grou<br>SW = Surfa | dng Water<br>Ind Water<br>Ince Water |             | く<br>4<br>5<br>5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 |                  |                     |                         |         |          | ·          |          | Invoice To Phone:   | 920    | 1830-                    | 6141        |
|                         | A Level I                  | ×                    | your sample                           | S = Soil<br>SI = Studge                         | WW = Was<br>WP = Wipe                              | te Water                             |             | むせ   | 1                | 1                   |                         |         |          |            |          | CLIENT              | LAB C  | OMMENTS                  | Profile #   |
| PACE LAB'#              |                            | CLIEN                | IT FIELD ID                           | DATE  | TIME   | MATRO                                |             |  | 1                |                     |                         |         |          |            |          | COMMENTS            | (Lab I | Use Only)                |             |
| 001                     | 0                          | IT-P                 | ALL DOI                               | 5/19/0  | 7:25   | GW                                   |             | X  |                  |                     |                         |         |          |            | <u> </u> |                     | 1-23   | Ouch                     |             |
|                         |                            |                      |                                       |   |  |                                      |             |  |                  |                     |                         |         |          |            |          |                     |        |                          |             |
|                         |                            |                      |                                       |   |  |                                      |             |  |                  |                     |                         |         |          |            |          |                     |        |                          |             |
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|                         |                            |                      |                                       |   | 1  |                                      |             |  |                  |                     | <u> </u>                |         |          |            |          |                     |        |                          |             |
|                         |                            |                      |                                       |   |  | <u> </u>                             |             |  |                  |                     |                         |         |          |            |          |                     |        |                          |             |
|                         |                            |                      |                                       |   | 1  | 1                                    |             |  |                  | <u> </u>            |                         |         |          |            |          |                     |        |                          | ·           |
|                         |                            |                      |                                       |   |  | 1                                    |             |  |                  | -                   |                         |         |          |            | ¦        |                     |        |                          |             |
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|                         |                            |                      |                                       |   |  |                                      |             |  | <u> </u>         | <u> </u>            |                         |         |          |            |          |                     |        |                          |             |
|                         |                            |                      |                                       |   | 1  |                                      |             |  | <u> </u>         |                     |                         |         |          | · · · · ·  | 1        |                     |        |                          | <u> </u>    |
|                         |                            |                      |                                       |   | 1  | 1                                    |             |  |                  |                     |                         |         |          |            |          |                     |        |                          | ۰.          |
| Rush Tu                 | Imaroun                    | d Time               | Requested - Preli                     | ms Rel  | inquished By:                                      | n , 1                                |             | •  | Pe               | te/Time:            | ~~                      |         | Received | Ву/        | -        | Date/Time:          | 107    | PACE P                   | oject No.   |
| (Rush                   | TAT sub<br>Date I          | ject to :<br>Needec  | approval/surcharg                     | e)  | 15- U  | Wa                                   | per         |  | <u>, 5/19</u>    | 9108<br>10/108      | /!5                     | 55      | Becelver | 1 Bull     | mp       | 2n 17/09            | 101    | P 4017                   | 486         |
| Transmit Pre            | alim Rush                  | Results b            | y (complete what you                  | want):  | 12Ke   | mp                                   | en          | 2/   | 19/0             | 9 6                 | 1 7 3                   | 20      |          | <u>A l</u> | UD (     | UU 51909            | (2:20  | Receipt Temp a           | In Direc    |
| Email #1:               |                            |                      |                                       | Rei   | nguished By:                                       |                                      |             | 1  | / Da             | ite/Time:           |                         |         | Received | By:        |          | Date/Time:          |        |                          | PUC ; C     |
| Email #2:<br>Telephone: |                            | <u></u>              | ·····                                 | Rel   | nquished By:                                       |                                      |             |  | Da               | te/Time:            |                         |         | Received | By:        |          | Date/Time:          |        | Sample F<br>OK / A       | djusted     |
| Fax:                    |                            |                      | · · · · · · · · · · · · · · · · · · · |   |  |                                      |             |  |                  |                     |                         |         |          |            |          |                     |        | Cooler Cu                | stody Seal  |
| SD.                     | Samples or<br>ecial pricin | HOLD ar              | e subject to<br>ase of ilability      | Rei   | nquished By:                                       |                                      |             |  | Da               | te/Time:            |                         |         | Received | By:        |          | Date/Time:          |        | Present ()<br>Intact / N | lot Present |
|                         |                            |                      |                                       |   |  |                                      |             |  |                  |                     |                         |         |          |            |          |                     |        | Version 6.0 06/14/06     |             |

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May 28, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/006 MAUTHE Pace Project No.: 4017754

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

D-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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# CERTIFICATIONS

## Project: N1866A05/006 MAUTHE Pace Project No.: 4017754

### Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-200 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887 New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE SUMMARY

 Project:
 N1866A05/006 MAUTHE

 Pace Project No.:
 4017754

 Lab ID
 Sample ID
 Matrix
 Date Collected
 Date Received

 4017754001
 OUTFALL
 Water
 05/26/09 06:25
 05/26/09 12:00

# **REPORT OF LABORATORY ANALYSIS**

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Page 3 of 8

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# SAMPLE ANALYTE COUNT

| Project:       | N1866A05/006 MAUTHE |                       |          | -                    |                |
|----------------|---------------------|-----------------------|----------|----------------------|----------------|
| Pace Project N | o.: 4017754         |                       |          |                      |                |
| Lab ID         | Sample ID           | Method                | Analysts | Analytes<br>Reported | <br>Laboratory |
| 4017754001     | OUTFALL             | SM 3500-Cr B (Online) |          |                      | PASI-G         |

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## **PROJECT NARRATIVE**

Project: N1866A05/006 MAUTHE

Pace Project No.: 4017754

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:May 28, 2009

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

## Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

# Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

## Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

Project: N1866A05/006 MAUTHE

Pace Project No.: 4017754

| Sample: OUTFALL      | Lab ID:   | 4017754001     | Collecte    | d: 05/26/09 | 06:25 | Received: 05 | 5/26/09 12:00 M | atrix: Water |      |
|----------------------|-----------|----------------|-------------|-------------|-------|--------------|-----------------|--------------|------|
| Parameters           | Results   | Units          | LOQ         | LOD         | DF    | Prepared     | Analyzed        | CAS No.      | Qual |
| Chromium, Hexavalent | Analytica | I Method: SM 3 | 500-Cr B (C | )nline)     |       |              |                 |              |      |
| Chromium, Hexavalent | 0.58      | mg/L           | 0.10        | 0.020       | 5     |              | 05/26/09 13:30  | 18540-29-9   |      |

Date: 05/28/2009 02:12 PM

# **REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

# QUALITY CONTROL DATA

| Project:           | N1866A05/    | 006 MAUTHE    |          |        |                                       |          |              |             |            |          |     |     |      |
|--------------------|--------------|---------------|----------|--------|---------------------------------------|----------|--------------|-------------|------------|----------|-----|-----|------|
| Pace Project No .: | 4017754      |               |          |        |                                       |          |              |             |            |          |     |     |      |
| QC Batch:          | WETA/38      | 92            |          | Analys | is Method:                            |          | SM 3500-Cr E | 3 (Online)  |            |          |     |     |      |
| QC Batch Method:   | SM 3500-     | Cr B (Online) |          | Analys | is Descript                           | tion: C  | Chromium, He | exavalent b | y 3500     |          |     |     |      |
| Associated Lab San | nples: 401   | 17754001      |          |        |                                       |          |              |             |            |          |     |     |      |
| METHOD BLANK:      | 162544       |               |          | N      | Aatrix: Wa                            | ter      |              |             |            | ·        |     |     |      |
| Associated Lab San | nples: 401   | 17754001      |          |        |                                       |          |              |             |            |          |     |     |      |
|                    |              |               |          | Blank  | K R                                   | eporting |              |             |            |          |     |     |      |
| Paran              | neter        | I             | Jnits    | Resul  | it                                    | Limit    | Analyz       | ed          | Qualifiers |          |     |     |      |
| Chromium, Hexaval  | ent          | mg/L          |          | <0.    | 0039                                  | 0.020    | 05/26/09     | 13:30       |            |          |     |     |      |
| LABORATORY CON     | TROL SAM     | IPLE: 16254   | 5        |        | · · · · · · · · · · · · · · · · · · · |          |              |             |            |          |     |     |      |
|                    |              |               |          | Spike  | LCS                                   | 5        | LCS          | % Rec       | :          |          |     |     |      |
| Paran              | neter        | ı             | Jnits    | Conc.  | Resu                                  | ilt      | % Rec        | Limits      | Qu         | alifiers |     |     |      |
| Chromium, Hexaval  | ent          | mg/L          |          | .3     |                                       | 0.31     | 103          | 90          | -110       |          |     |     |      |
|                    |              |               | 16254    |        |                                       | 160547   | ·            | <u>_</u>    |            |          | •   |     |      |
| WAINA SFINE & W    | IAI NIA SPIN | CE DUPLICATE  | . 10234  | MC     | MCD                                   | 102347   |              |             |            |          |     |     |      |
|                    |              | 40            | 17754001 | Snike  | Snike                                 | MS       | MSD          | MS          | MSD        | % Rec    |     | Max |      |
| Paramel            | er           | Units         | Result   | Conc.  | Conc.                                 | Result   | Result       | % Rec       | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Hexaval  | ent          | mg/L          | 0.58     | 1.5    | 1.5                                   | 2.1      | 2.1          | 102         | 102        | 90-110   | .1  | 20  |      |

Date: 05/28/2009 02:12 PM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4017754             |

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 05/28/2009 02:12 PM

## **REPORT OF LABORATORY ANALYSIS**

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| Courier:  Fed Ex UPS USPS C CI Tracking #:  | llent Commercial | Prace Other                      |  |    |
|---|------------------|----------------------------------|--|----|
| Custody Seal on Cooler/Box Present:ye   | s 🔍 no Sea       | is intact: 🗌 yes 🔲               | no   | 劉- |
| Packing Material: 🗍 Bubble Wrap 🌐 Bubb  | le Bags None     | Other                            | •  |    |
| Thermometer Used N/A  | Type of Ice: We  | Blue None                        | Samples on Ice, cooling process has begun              |    |
| Cooler Temperature  | Biological Tissu | e is Frozen: Yes No<br>Comments: | Date and Initials of person examining contents: 5/2010 |    |
| Chain of Custody Present:   |                  | A 1.                             |  | 7  |
| Chain of Custody Filled Out:  |                  | 2                                |  |    |
| Chain of Custody Relinquished:  | Dixes ONO ON     | 3.                               |  |    |
| Sampler Name & Signature on COC:  |                  | 4.                               |  |    |
| Samples Arrived within Hold Time:   |                  | 5.                               | ······································                 |    |
| Short Hold Time Analysis (<72hr):   |                  | 6. Hevenrome                     | . ·  |    |
| Rush Turn Around Time Requested:  | DYON OND BOYD    | 7                                |  |    |
| Sufficient Volume:  | RYes DNO DNA     | 8.                               | ······································                 |    |
| Correct Containers Used:  | QYes DNO DNH     | 9.                               |  |    |
| -Pace Containers Used:  | BYOS DNO DNH     |                                  |  |    |
| Containers Intact:  |                  | 10.                              | :  |    |
| Filtered volume received for Dissolved tests  | TYes DNO DNH     | 11.                              |  |    |
| Sample Labels match COC:  | Yes DNo DNV      | 12.                              |  |    |
| -Includes date/time/ID/Analysis Matrix:<br>All containers needing preservation have been checked. | DYes DNo DINA    | 13.                              |  | ┥  |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation.     | DYes DNO QNUA    |                                  |  |    |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | 🛛 Yes 💭 No       | Initial when completed           | Lot # of added<br>preservative                         |    |
| Samples checked for dechlorination:   |                  | 14.                              |  |    |
| Headspace In VOA Vials ( >6mm):   | DYes DNO DINA    | 15.                              |  |    |
| Trip Blank Present:   |                  | 16.                              |  |    |
| Trip Blank Custody Seals Present  | DYes DNO DINA    |                                  |  |    |
| Pace Trip Blank Lot # (if purchased):   |                  |                                  |  |    |
| Cilent Notification/ Resolution:  |                  |                                  | Fleid Data Required? Y / N                             |    |
| Person Contacted:   | . Date           | Time:                            |  |    |
| Comments/ Resolution:   |                  |                                  |  |    |
| ·····   |                  |                                  |  | _  |
|   |                  |                                  |  | _  |
|   |                  | ·····                            |  |    |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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|                           | (Please Print Clearly)                        |                                  | _  |                |        |                                 |                           |          | UPPE     |           | EST R   | EGION               | Page 1 of Z                               |
|---------------------------|---|----------------------------------|--|----------------|--------|---------------------------------|---------------------------|----------|----------|-----------|---------|---------------------|---|
| Company Na                | AME: OMNINE ASSOCIAT                          | ES                               | <b>/</b>   | <i>」</i>       | •      |                                 |                           | ١        | MN: 6    | 12-607-   | 1700    | WI: 920-469-2436    |   |
| Branch/Loca               | ItION: APPLETON                               |                                  |  | Pace           | Ana    | lytical                         |                           | ×5       |          |           |         |                     |   |
| Project Cont              | act: RRIAN WAYNER                             |                                  | (  |                | www.pe | 0648.0077                       |                           | •        |          |           |         | Quote #:            | MAUTHE 100708                             |
| Phone:                    | 920-830-10141                                 |                                  | · · (  | CHA            | IN     | OF C                            | US <sup>.</sup>           | ΤO       | DY       |           |         | Mail To Contact:    | BRIGN WAXNER                              |
| Project Num               | ber: 1/18/26 405/00                           | 10                               | A⊐None E   | =HCL C=F       | 12504  | Preservation Con<br>D=HNO3 E=DI | <del>les</del><br>Water F | =Metha   | nol G=N  | аОн       |         | Mail To Company:    | Omerate Associates                        |
| Project Name              | B: MAUTHE                                     | ~                                | H=Sodium Bis   | ulfate Solutio | n      | I=Sodium Thiosul                | fate J=                   | Other    |          |           |         | Mail To Address:    | ONE SYSTE OS DRING                        |
| Project State             | · /// -                                       |                                  | FILTERED?<br>(YES/NO)                                    |                | N      |                                 |                           |          | <u> </u> |           |         |                     | APPLETON, WI 54914                        |
| Sampled By                | (Print): BRIAN MANIER                         | , '                              | PRESERVATION   |                | A      |                                 |                           |          |          |           |         | Invoice To Contact: | BRIAN, WAYNER                             |
| Sampled By                | (Sign): B' & Warner                           | <u> </u>                         | (0052)   |                | 1      |                                 |                           |          |          |           |         | Invoice To Company: | AMALANT ASSOCIATES                        |
| PO #:                     | Re  | gulatory                         |  |                | 511    |                                 |                           | •        |          |           |         | Invoice To Address: |   |
| Data Packa                | age Options MS/MSD                            | Matrix                           | Codes  |                | 2 2    |                                 |                           |          |          |           |         |                     | SAME                                      |
|                           | A Level III                                   | Alr Wa<br>Biota DW               | ■ Water V = Drinking Water                               |                | P.U.A  |                                 |                           |          |          |           |         |                     |   |
|                           | A Level IV                                    | Charcoal GW<br>Oli SW<br>Soli WV | V = Ground Water<br>V = Surface Water<br>N = Waste Water |                | ξ¥     |                                 |                           |          |          |           |         | Invoice To Phone:   | 920-830-6141                              |
| PACE LAB'#                |   | Sludge WP<br>COLLECTH            |  |                | ΞV     |                                 |                           |          | i i      |           |         | CLIENT              | LAB COMMENTS Profile #                    |
| MOL                       |   |                                  | TIME   |                | V      |                                 |                           |          |          | i         |         |                     |   |
|                           | OUTFALL                                       | 724/04 6                         | <u>25 GW</u>   |                |        |                                 |                           |          |          |           |         |                     | 1-2001111                                 |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
| ·                         |   |                                  |  |                |        |                                 |                           | <u> </u> |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           | •       |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  | No.            |        |                                 |                           |          |          |           |         |                     |   |
|                           | ·····   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
|                           |   |                                  |  |                |        |                                 |                           |          |          |           |         |                     |   |
| Rush Tu<br>(Rush          | Irnaround Time Requested - Prelims            | Relinquist                       | 2 o ub   | men            |        | SZL 09                          | 7.0                       | 5        | Received | er: H     | 110     | Data/Time:          | PACE Project No.                          |
|                           | Date Needed:                                  | Retinquist                       | hed_By:  | DI.            | ~      | Date/Time:                      | 121                       | <u>.</u> | Received | By:       | <u></u> |                     | 4017754                                   |
| Transmit Pre<br>Email #1: | ilim Rush Results by (complete what you want) | ):<br>Relinnuist                 | - / VUU  | m              |        | Date/Time:                      | 10-6                      | 00       | VV-      | <u>ev</u> | =       | Pale(Time)          | $\frac{FOO}{Receipt Temp} = \frac{FO}{C}$ |
| Email #2:                 |   |                                  |  |                |        |                                 |                           |          |          | (         | J       |                     | Sample Receipt pH                         |
| Telephone:<br>Fax:        | · · · · · · · · · · · · · · · · · · ·         | Relinquist                       | hed By:  |                |        | Date/Time:                      |                           |          | Received | By:       |         | Date/Time:          | OK / Adjusted                             |
| s                         | Samples on HOLD are subject to                | Retinquist                       | hed By:  |                |        | Date/Time:                      |                           |          | Received | By:       | <u></u> | Date/Time:          | Present / Not Present                     |
| spe                       | cial pricing and release of liability         |                                  |  | · · · ·        |        |                                 |                           |          | L        |           |         | ····                | Intact / Not Intact /                     |

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June 10, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05-006 MAUTHE Pace Project No.: 4018029

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

D-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

## Project: N1866A05-006 MAUTHE Pace Project No.: 4018029

## **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11887

New York Certification #: 11888 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 83 Illinois Certification #: 82 Illinois Certification #: 200051 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

# **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE SUMMARY

| Project:<br>Pace Project No | N1866A05-006 MAUTHE<br>b.: 4018029 |        |                |                |
|-----------------------------|------------------------------------|--------|----------------|----------------|
| Lab ID                      | Sample ID                          | Matrix | Date Collected | Date Received  |
| 4018029001                  | OUTFALL 001                        | Water  | 06/02/09 07:27 | 06/02/09 14:30 |

# **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE ANALYTE COUNT

| Project:         N1866A05-006 MAUTHE           Pace Project No.:         4018029 |             |                       |          |                      |            |  |  |  |
|--|-------------|-----------------------|----------|----------------------|------------|--|--|--|
| Lab ID   | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |  |  |  |
| 4018029001   | OUTFALL 001 | EPA 6010              | DLB      | 1                    | PASI-G     |  |  |  |
|  |             | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |  |  |  |

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE Pace Project No.: 4018029

 Method:
 EPA 6010

 Description:
 6010 MET ICP, Dissolved

 Client:
 OMNNI ASSOCIATES, INC.

 Date:
 June 10, 2009

### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

## Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

## Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE Pace Project No.: 4018029

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:June 10, 2009

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

## Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## QC Batch: WETA/3962

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4018029001

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 165179)
  - Chromium, Hexavalent
- R1: RPD value was outside control limits.
  - MSD (Lab ID: 165180)
    - Chromium, Hexavalent

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

| Project:           | N1866A05-00 | 6 MAUTHE   |               |             |             |       |               |                |               |       |
|--------------------|-------------|------------|---------------|-------------|-------------|-------|---------------|----------------|---------------|-------|
| Pace Project No.:  | 4018029     |            |               |             |             |       |               |                |               |       |
| Sample: OUTFAL     | L 001       | Lab ID:    | 4018029001    | Collected   | d: 06/02/09 | 07:27 | Received: 06/ | 02/09 14:30 M  | latrix: Water |       |
| Parame             | eters       | Results    | Units         | LOQ         | LOD         | DF    | Prepared      | Analyzed       | CAS No.       | Qual  |
| 6010 MET ICP, Dis  | solved      | Analytical | Method: EPA 6 | 6010        |             |       |               |                |               |       |
| Chromium, Dissolve | ed          | 648 u      | ıg/L          | 5.0         | 0.39        | 1     |               | 06/08/09 12:52 | 7440-47-3     |       |
| Chromium, Hexava   | alent       | Analytical | Method: SM 3  | 500-Cr B (O | nline)      |       |               |                |               |       |
| Chromium, Hexaval  | lent        | 0.23 n     | ng/L          | 0.10        | 0.020       | 5     |               | 06/02/09 15:30 | 18540-29-9    | M0.R1 |

Date: 06/10/2009 11:18 AM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A05-0 | 006 MAUTH     | Ξ                 |          |           |          |                       |             |            |          |     |     |       |
|--------------------|------------|---------------|-------------------|----------|-----------|----------|-----------------------|-------------|------------|----------|-----|-----|-------|
| Pace Project No.:  | 4018029    |               |                   |          |           |          |                       |             |            |          |     |     |       |
| QC Batch:          | WETA/396   | 2             |                   | Analysis | Method:   | s        | SM 3500-Cr B (Online) |             |            |          |     |     |       |
| QC Batch Method:   | SM 3500-0  | Cr B (Online) |                   | Analysis | Descript  | tion: C  | Chromium, H           | exavalent l | oy 3500    |          |     |     |       |
| Associated Lab Sam | ples: 401  | 8029001       |                   |          |           |          |                       |             |            |          |     |     |       |
| METHOD BLANK:      | 165177     | · · · -       | · · · · · · · · · | Ma       | trix: Wat | ter      |                       |             |            | · ·      |     |     |       |
| Associated Lab Sam | ples: 401  | 8029001       |                   |          |           |          |                       |             |            |          |     |     |       |
|                    |            |               |                   | Blank    | R         | eporting |                       |             |            |          |     |     |       |
| Paran              | neter      |               | Units             | Result   |           | Limit    | Analyz                | ed          | Qualifiers | _        |     |     | •     |
| Chromium, Hexaval  | ent        | mg/L          |                   | <0.00    | 039       | 0.020    | ) 06/02/09            | 15:30       |            |          |     |     |       |
| LABORATORY CON     | ITROL SAMF | PLE: 1651     | 78                | •        |           |          |                       |             |            |          |     |     |       |
|                    |            |               |                   | Spike    | LCS       | 5        | LCS                   | % Red       | ;          |          |     |     |       |
| Param              | neter      |               | Units             | Conc.    | Resu      | rit      | % Rec                 | Limits      | Qu         | alifiers |     |     |       |
| Chromium, Hexaval  | ent        | mg/L          |                   | .3       |           | 0.31     | 102                   | 90          | )-110      |          |     |     |       |
| MATRIX SPIKE & M   |            | E DUPLICAT    | E: 16517          | 9        | ÷         | 165180   |                       |             |            |          |     |     |       |
|                    |            |               |                   | MS       | MSD       |          |                       |             |            |          |     |     | •     |
|                    |            | 4             | 018029001         | Spike    | Spike     | MS       | MSD                   | MS          | MSD        | % Rec    |     | Max |       |
| Paramet            | er         | Units         | Result            | Conc.    | Conc.     | Result   | Result                | % Rec       | % Rec      | Limits   | RPD | RPD | Qual  |
| Chromium, Hexaval  | ent        | mg/L          | 0.23              | 1.5      | 1.5       | 2.3      | 1.8                   | 136         | 104        | 90-110   | 24  | 20  | M0,R1 |

Date: 06/10/2009 11:18 AM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:                  | N1866A05-0  | 006 MAUTHE |          |        |                  |          |              |             |            |          |     |     |      |
|---------------------------|-------------|------------|----------|--------|------------------|----------|--------------|-------------|------------|----------|-----|-----|------|
| Pace Project No.:         | 4018029     |            |          |        |                  |          |              |             |            |          |     |     |      |
| QC Batch:                 | ICP/2299    |            |          | Analys | Analysis Method: |          |              |             |            |          |     |     |      |
| QC Batch Method: EPA 6010 |             |            |          |        | is Descript      | ion: 10  | CP Metals, T | race, Disso | olved      |          |     |     |      |
| Associated Lab Sar        | nples: 401  | 8029001    |          |        |                  |          |              |             |            |          |     |     |      |
| METHOD BLANK:             | 167311      | ·          |          | N      | Aatrix: Wat      | er       |              |             |            |          |     |     |      |
| Associated Lab Sar        | nples: 401  | 8029001    |          |        |                  |          |              |             |            |          |     |     |      |
|                           |             |            |          | Blank  | : Re             | eporting |              |             |            |          |     |     |      |
| Parar                     | neter       |            | Units    | Resul  | t                | Limit    | Analyz       | ed          | Qualifiers | _        |     |     |      |
| Chromium, Dissolve        | ed .        | ug/L       |          | •      | <0.39            | 5.0      | 06/08/09     | 12:44       |            |          |     |     |      |
| LABORATORY CO             |             | PLE: 16731 | 2        |        |                  |          |              |             |            |          |     |     |      |
|                           |             |            |          | Spike  | LCS              |          | LCS          | % Rec       | ;          |          |     |     |      |
| Parar                     | neter       | I          | Units    | Conc.  | Resu             | lt       | % Rec        | Limits      | Qu         | alifiers |     |     |      |
| Chromium, Dissolve        | ed          | ug/L       |          | 500    |                  | 491      | 98           | 80          | -120       |          | •   |     |      |
| MATRIX SPIKE & N          | IATRIX SPIK |            | : 16731  | 3      |                  | 167314   |              |             |            |          |     |     |      |
|                           |             |            |          | MS     | MSD              |          |              |             |            |          |     |     |      |
|                           |             | 40         | 18029001 | Spike  | Spike            | MS       | MSD          | MS          | MSD        | % Rec    |     | Max |      |
| Parame                    | ter         | Units      | Result   | Conc.  | Conc.            | Result   | Result       | % Rec       | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Dissolve        | ed          | ug/L       | 648      | 500    | 500              | 1100     | 1110         | 91          | 92         | 75-125   | .5  | 20  |      |

Date: 06/10/2009 11:18 AM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

| Project:          | N1866A05-006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4018029             |

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## ANALYTE QUALIFIERS

| MO | Matrix spike recovery was outside laboratory control limits. |
|----|--|
| R1 | RPD value was outside control limits.                        |

Date: 06/10/2009 11:18 AM

## **REPORT OF LABORATORY ANALYSIS**

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| Sa  | mple Condition Upon Receipt  | -         |
|---|--|-----------|
| Pace Analytical Client Name   | : OMANI & ASSOC. Project # 4018020   | 7         |
| Courier: C Fed Ex UPS USPS C Clie   | ent Commercial Pace Other Contraction Provide December Provide December Provide December 2017  |           |
| Custody Seal on Cooler/Box Present: U yes   | A no Seals intact: U yes U no  |           |
| Packing Material: Dubble Wrap   | Bags None Other  |           |
| Thermometer Used/A  | Type of Ice: Wet <sup>1</sup> Blue None Samples on ice, cooling process has be   | egun      |
| Cooler Temperature         UOI           Temp should be above freezing to 6°C                 | Biological Tissue is Frozen: Yes No<br>Comments:   | ining<br> |
| Chain of Custody Present:   | ETYes DNO DN/A 1.  |           |
| Chain of Custody Filled Out:  | Pres ONO ON/A 2.   |           |
| Chain of Custody Relinquished:  | Elves ONO ON/A 3.  |           |
| Sampler Name & Signature on COC:  | -EVes ONO ONIA 4.  |           |
| Samples Arrived within Hold Time:   | □Yes 2110 □N/A 5.  |           |
| Short Hold Time Analysis (<72hr):   | Dres ON/A 6.   |           |
| Rush Turn Around Time Requested:  | □Yes_□N/A 7  |           |
| Sufficient Volume:  | Elves Ono Onia 8.  |           |
| Correct Containers Used:  | Payes Ono Onia 9.  |           |
| -Pace Containers Used:  | TYes DNO DN/A  |           |
| Containers Intact:  | BYes ONO ONIA 10.  |           |
| Filtered volume received for Dissolved tests  | Bres DNO JENERA 11.  |           |
| Sample Labels match COC:  | Dres DNO DN/A 12.  |           |
| -Includes date/time/ID/Analysis Matrix:   |  |           |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. |  |           |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | Initial when completed         Lot # of added           Pres         No         Initial when completed         Initial when preservative |           |
| Samples checked for dechlorination:   | □Yes □No / □N/A 14.  |           |
| Headspace in VOA Vials ( >6mm):   | □Yes □No □N/A 15.  |           |
| Trip Blank Present:   | $\Box$ Yes $\Box$ No $D$ N/A 16.   | 1         |
| Trip Blank Custody Seals Present  | DYes DNO DWA   |           |
| Pace Trip Blank Lot # (if purchased):   |  |           |
| Client Notification/ Resolution:  | Field Data Required? Y / N   | <u>ч</u>  |
| Person Contacted:   | Date/Time:   |           |
| Comments/ Resolution:   |  |           |
|   |  |           |
|   |  |           |
| ^   |  |           |
| Project Manager Review:   | Date: 0/2/19   |           |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

| (                                     | Please Print Clearly)   |   |                                | _   |             | )           |                |                            |                |             | UPPE         |            | <u>ST R</u> | EGION                                  |         | Page                 | of I              |
|---------------------------------------|---|---|--------------------------------|---|-------------|-------------|----------------|----------------------------|----------------|-------------|--------------|------------|-------------|--|---------|----------------------|-------------------|
| ompany Name:                          | OMNNI ASSO  | ATES  |                                | <b>_</b>                                  | · _         |             |                |                            |                |             | <b>MN:</b> 6 | 12-607-17  | '00         | WI: 920-469-2436                       |         |                      | 00                |
| ranch/Location:                       | APPI ETON   |   |                                |   | Pac         | eAna        | alytic         |                            |                |             |              | $\sum$     |             |  | Ĺ       | -10100               |                   |
| oject Contact:                        | BRIAN WAYN  | ER  | 7                              | (   |             | www.p       | 1800-1815 S. ( | 0011                       |                |             |              | К¢         | l           | Quote #:                               | MA      | WTHE 10              | 0708              |
| ione:                                 | 920/830 - 101   |   |                                | ' (                                       | CH/         | AIN         | OF             | <b>C</b>                   | US             | TO          | DY           | ,          |             | Mall To Contact:                       | BRU     | AN WAY               | NER               |
| oject Number:                         | 11866 20 51   | nn(a)   |                                | =None B                                   | HCL C       | C=H2SO4     | D=HNO          | ation Co<br>3 E≍Di         | des<br>Water F | -Metha      | nol G=N      | laOH       |             | Mall To Company:                       | Amor    | VI Asso              | CI ATES           |
| oject Name:                           | MAUTHE  |   |                                | =Sodium Bis                               | sulfate Sol | ution _     | I=Sodiur       | m Thiosul                  | lfale J        | =Othor      |              |            |             | Mail To Address:                       | ONE     | SYSTE                | ns ORIUe          |
| oject State:                          |   | ·· <del>···································</del> | FIL O                          | TERED?                                    |             | N N         | Y              |                            |                |             |              |            |             |  | APPL    | ETON, W              | = 54914           |
| mpled By (Prin                        | t): Beiggi High   |   | PRES                           |   |             | A A         | D              |                            |                |             |              | <u>}</u> - | <u></u>     | Involce To Contact:                    | Bei     | - ULAY               | () E P            |
| mpled By (Sigr                        | B. Oklan  | Nes   | "                              | 0002,                                     |             |             | -              |                            |                |             |              | <b>-</b>   |             | Invoice To Company:                    | 1 DR IF | A A                  |                   |
| )#:                                   | - De May  | Regulato  | ary                            |   |             | 5<br>5      | 1 2            |                            |                |             | •            |            |             | Invoice To Address:                    |         | 25 71350             |                   |
| ata Package (                         | Dptions MS/MSD  |   | Aatrix Cod                     | les<br>«                                  |             | A<br>D<br>D |                |                            |                |             |              |            |             |  |         | SAME                 |                   |
|                                       | vel III (billable)  | le B = Blota<br>C = Charcoal<br>O = Oil           | DW ≃ Dri<br>GW ≃ Gr<br>SW ≂ Su | inking Water<br>ound Water<br>rface Water |             |             | RON            |                            |                |             |              |            |             | Involce To Phone:                      | 9201    | 830-614              | 1                 |
|                                       | CLIENT FIELD ID   | S = Soli<br>Si = Sludge                           | WW = W<br>WP = WI<br>OLLECTION | aste Water<br>pe                          | , Wa        | H<br>H<br>H | UH<br>UH       |                            |                |             |              |            | i           | CLIENT<br>COMMENTS                     | LAB C   | OMMENTS<br>Use Only) | Profile #         |
| 01                                    | NUTEAU ANI  | White   | A 7:2                          | 7 GW                                      |             | X           | 1              |                            |                |             | 1            |            |             |  | 2-25    | Oul #12              | ,                 |
|                                       |   |   | 1                              |   |             |             |                |                            | 1              |             |              |            |             |  |         |                      |                   |
|                                       |   |   |                                |   |             | 2<br>       |                | · · · ·                    |                |             |              |            |             |  |         |                      |                   |
|                                       | <u> </u>  |   |                                |   |             | 46<br>82    |                | <u> </u>                   |                |             | <u>  </u>    | ┠───┼┯     |             | <u> </u>                               |         |                      | ·····             |
|                                       |   |   |                                |   | 2443.5      | 2<br>1      |                |                            |                | · · · · · · |              |            |             |  |         |                      |                   |
|                                       | ·   |   |                                |   |             | 8<br>9      |                |                            |                |             |              |            |             |  |         |                      | <del></del>       |
|                                       |   |   |                                |   |             |             |                |                            |                |             |              |            |             |  |         |                      | <u> </u>          |
|                                       |   |   |                                |   |             |             |                |                            |                |             |              |            |             |  |         |                      |                   |
|                                       |   |   |                                |   |             |             |                |                            |                |             |              |            |             |  |         |                      |                   |
|                                       |   |   | -1                             |   |             |             |                |                            |                |             |              |            |             | •                                      |         |                      |                   |
|                                       |   |   |                                |   |             |             |                |                            |                |             |              |            |             | ······································ |         |                      |                   |
| · · · · · · · · · · · · · · · · · · · |   |   |                                |   |             | 运<br>联      |                |                            |                |             |              | ┝───┼─     |             |  |         |                      |                   |
|                                       |   |   |                                |   | 「調整         | 8 <u>1</u>  |                |                            |                |             |              |            |             |  |         |                      |                   |
|                                       | <u></u>   |   |                                |   |             |             |                |                            |                |             |              |            |             |  |         |                      |                   |
|                                       |   |   |                                |   |             |             |                |                            |                |             |              |            |             |  |         |                      |                   |
| Rush Tumar<br>(Rush TAT<br>Da         | ound Time Requested - Pr<br>subject to approval/surcha<br>ate Needed: | relims R<br>Irge)                                 | elinquished B                  | y:<br>~ i<br>A: P                         | lite        | per         | 4/2/0<br>1 Da  | 1e/Time:<br>09<br>te/Time: | 8:05           | -           | Received     | By<br>Bern | c fo        | en 1909<br>BaterVime:                  | 1320    | 40187                | roject No.<br>)29 |
| Transmit Prelim R                     | ush Results by (complete what y                                       | ou want):   | 2                              | Ber                                       | up          | en (        | 12/0           | 9                          | 14             | 10          | L            | M. W       | £C.         | UU 0/2/09                              | 14:30   | Receipt Temp =       | 10,00             |
| all #1:                               |   | R   | elinquished B                  | iy: /                                     | //          | -           | 6 Da           | tě/Time:                   |                |             | Received     | By:        |             | Date/Time:                             |         | Complete             |                   |
| all #2:                               |   |   | elinquished 9                  | lv:                                       |             |             | Da             | te/Time:                   |                |             | Received     | By:        |             | Dete/Time:                             |         |                      | djusted           |
|                                       |   |   |                                |   |             |             | 08             |                            |                |             |              |            |             | Dato fille.                            |         | Couter Cu            | stody Seal        |
| Sampi<br>Sampi                        | es on HOLD are subject to<br>ricing and release of Rability           | R   | elinquished B                  | iy:                                       |             |             | Da             | te/Time:                   | • • • • • • •  |             | Received     | By:        |             | Date/Time:                             |         | Present / I          | Not Present       |

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OMNNI ASSOCIATES, INC. ONE SYSTEMS DRIVE APPLETON, WI 54914-1654 800-571-6677 • 920-735-6900 FAX 920-830-6100 WWW.OMNNI.COM

April 1, 2009

Mr. Chris F. Stempa Pretreatment and Biosolids Manager Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, WI 54915-2758

R+R-OSH RECEIVED

APR 0 2 2009 TRACKED REVIEWED

# RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin Compliance Report, Industrial User (Wastewater Discharge) Permit # 06-21

Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the quarterly process compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued on May 26, 2006.

The flow monitoring and sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve (usually one-to-three days prior to sampling) to allow water to collect in the equalization tank. The discharge valve was reopened and the composite sample was collected.

From the sample collected, a new, laboratory provided, plastic 250 ml sample container was filled. This unfiltered, unpreserved sample was analyzed for hexavalent chromium by Pace Analytical Services laboratory. (See laboratory chains of custody and laboratory reports, attached.)

If the monthly total chromium sample was prepared during the sampling event, water from the collected discharge sample was filtered through a 0.45 µm filter and then poured into a new, laboratory provided, plastic 250 ml sample container. The sampling container contained nitric acid as a preservative. The sample was analyzed for total dissolved chromium by Pace Analytical Services laboratory.

After the laboratory samples were prepared, pH was measured with a Hach pH Pocket Pal Tester from the remaining collected discharge sample.

The table below summarizes the total metered discharge readings, pH measurements, and laboratory analysis. Monthly discharge totals were calculated by linear interpolation of the actual meter readings.

|             |                                     | OUTFALL 001                                  |   |                                   |     |  |  |  |  |  |
|-------------|-------------------------------------|--|---|-----------------------------------|-----|--|--|--|--|--|
| Date Actual | Date<br>For Linear<br>Interpolation | Metered<br>Discharge<br>Reading<br>(gallons) | Gallons<br>Discharged<br>Between<br>Meter Reading | Monthly<br>Discharge<br>(gallons) | рН  | Hexavalent<br>Chromium<br>Lab<br>Analysis<br>(mg/L)<br>[Local Limit<br>4.5 mg/L] | Total<br>Chromium<br>Lab Analysis<br>(mg/L)<br>[Local Limit<br>7.0 mg/L] |  |  |  |
| 01/02/09    |                                     | 9,268,140                                    | 20,553  |                                   |     |  |  |  |  |  |
| 01/06/09    |                                     | 9,268,140                                    | 0   |                                   | 7.8 | 2.5  | 2.430  |  |  |  |
| 01/12/09    |                                     | 9,277,419                                    | 9,279   | January                           |     |  |  |  |  |  |
|             | 02/01/09                            | 9,287,182                                    |   | 20,952                            |     |  |  |  |  |  |
| 02/01/09    |                                     | 9,287,326                                    | 9,907   |                                   |     |  | ų  |  |  |  |
| 02/03/09    |                                     | 9,287,326                                    | 0   |                                   | 7.8 | 3.3  | 2.900  |  |  |  |
| 02/05/09    |                                     | 9,288,848                                    | 1,522   | February                          |     |  |  |  |  |  |
|             | 03/01/09                            | 9,334,332                                    |   | 47,151                            |     |  |  |  |  |  |
| 03/01/09    |                                     | 9,335,249                                    | 46,401  |                                   |     |  |  |  |  |  |
| 03/03/09    |                                     | 9,335,249                                    | 0   | -                                 | 7.6 | 2.4  | 1.970  |  |  |  |
| 03/11/09    |                                     | 9,355,734                                    | 20,485  |                                   |     |  |  |  |  |  |
| 03/30/09    |                                     | 9,463,572                                    | 107,838   |                                   |     |  |  |  |  |  |
| 03/31/09    |                                     | 9,463,572                                    | 0   | March                             |     |  |  |  |  |  |
|             | 04/01/09                            | 9,467,680                                    |   | 133,348                           |     |  |  |  |  |  |
| 04/01/09    |                                     | 9,469,538                                    | 5,966   |                                   |     |  |  |  |  |  |

Italicized metered discharge reading was calculated by linear interpolation.

| Industrial User (Wastewater Discharge) Permit 06-21 Outfall 001 Effluent Limitations: |                     |                |  |  |  |  |  |
|---|---------------------|----------------|--|--|--|--|--|
| рН  | Hexavalent Chromium | Total Chromium |  |  |  |  |  |
| Between 50 - 124 su   | < 4.5 mg/l          | < 7.0 mg/l     |  |  |  |  |  |

There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the laboratory monitoring performed.

I performed all the sample collection and monitoring<sup>1</sup> during the time period from January 1, 2009 through March 31, 2009.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the

<sup>&</sup>lt;sup>1</sup> Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.

information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely, OMNNI Associates, Inc.

B. D. Waynes

Brian D. Wayner, P.E. Environmental Manager

# Enclosures

cc: Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731



January 13, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/006 Pace Project No.: 4012979

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten for Steven Mleczko steve.mleczko@pacelabs.com Project Manager

Enclosures

# REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

1

| Project:          | N1866A05/006 |
|-------------------|--------------|
| Pace Project No.: | 4012979      |

### **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: 84006001 North Dakota Certification #: 8-150 North Carolina Certification #: 803 North Carolina Certification #: 503 New York Certification #: 11888 New York Certification #: 11887 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 82 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE SUMMARY

| Project:         N1866A05/006           Pace Project No.:         4012979 |             |        |                |                |  |
|---|-------------|--------|----------------|----------------|--|
| Lab ID  | Sample ID   | Matrix | Date Collected | Date Received  |  |
| 4012979001  | OUTFALL 001 | Water  | 01/06/09 07:20 | 01/06/09 09:30 |  |

# REPORT OF LABORATORY ANALYSIS

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# SAMPLE ANALYTE COUNT

| Project:          | N1866A05/006 |   |        |          |          |            |
|-------------------|--------------|---|--------|----------|----------|------------|
| Pace Project No.: | 4012979      | _ | <br>   |          |          |            |
|                   |              |   |        |          | Analytes |            |
| Lab ID            | Sample ID    |   | Method | Analysts | Reported | Laboratory |

|            | ·           |                       |     |   |        |
|------------|-------------|-----------------------|-----|---|--------|
| 4012979001 | OUTFALL 001 | EPA 6010              | DLB | 1 | PASI-G |
|            |             | SM 3500-Cr B (Online) | DEY | 1 | PASI-G |

# REPORT OF LABORATORY ANALYSIS

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## **PROJECT NARRATIVE**

| Project: N1866                | 405/006 -  |
|-------------------------------|--|
| Pace Project No.: 401297      | '9   |
| Method: EPA 6010              | ·  |
| Description: 6010 MET IC      | P, Dissolved   |
| Client: ČÓMNNI ASSO           | )CIATES, INC.  |
| Date: January 13, 2           | 009  |
| E Start                       |  |
| General Information:          |  |
| 1 sample was analyzed for I   | EPA 6010. All samples were received in acceptable condition with any exceptions noted below. |
| Hold Times                    |  |
| The samples were analyzed     | within the method required hold times with any exceptions noted below:                       |
|                               | · · · · · · · · · · · · · · · · · · ·  |
| Sample Preparation:           |  |
| The samples were prepared     | in accordance with EPA 6010 with any exceptions noted below.                                 |
|                               |  |
| Initial Calibrations (includ  | ing MS Tune as applicable):  |
| All criteria were within meth | od requirements with any exceptions noted below.   |
| Continuing Calibration:       |  |
| All optonio woro within moth  | ad requirements with any executions noted holey.   |

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

## Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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• •


# **PROJECT NARRATIVE**

| Project:<br>Pace Project I                  | No.:                            | N1866A05/006<br>4012979   |
|---|---------------------------------|---|
| Method:<br>Description:<br>Client:<br>Date: | SM 35<br>Chron<br>OMNN<br>Janua | i <b>00-Cr B (Online)</b><br>nium, Hexavalent<br>II ASSOCIATES, INC.<br>ry 13, 2009                                     |
| General Infor<br>1 sample was               | matio<br>analyz                 | n:<br>zed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below. |
| Hold Time:<br>The samples                   | were a                          | nalyzed within the method required hold times with any exceptions noted below.  |
| Initial Calibra<br>All criteria wer         | ntions<br>re withi              | (including MS Tune as applicable):<br>in method requirements with any exceptions noted below.                           |
| Continuing C<br>All criteria wer            | alibra<br>re withi              | tion:<br>in method requirements with any exceptions noted below.  |
| Method Blani<br>All analytes w              | k:<br>ere be                    | low the report limit in the method blank with any exceptions noted below.   |
| Laboratory C<br>All laboratory              | control                         | Spike:<br>I spike compounds were within QC limits with any exceptions noted below.                                      |
| Matrix Spikes<br>All percent rec            | s:<br>coverie                   | es and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.             |
| Duplicate Sat<br>All duplicate s            | <b>mple:</b><br>ample           | results were within method acceptance criteria with any exceptions noted below.   |
| Additional Co                               | omme                            | nts:  |
| This data pac                               | kage h                          | as been reviewed for quality and completeness and is approved for release.  |
|   |                                 |   |
|   |                                 |   |
|   |                                 |   |
|   |                                 |   |
|   |                                 |   |
|   |                                 |   |

# **REPORT OF LABORATORY ANALYSIS**

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Project.

N11866A05/006

Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

01/06/09 10:15 18540-29-9

Qual

## **ANALYTICAL RESULTS**

| Pace Project No.: 40  | 12979        |                  |            |            |          |               |                 |               |
|-----------------------|--------------|------------------|------------|------------|----------|---------------|-----------------|---------------|
| Sample: OUTFALL 00    | 1 Lab ID     | : 4012979001     | Collected  | 1: 01/06/0 | 9 07:20  | Received: 0   | 1/06/09 09:30   | Matrix: Water |
| Parameters            | Results      | Units            |            | LOD        | DF       | Prepared      | Analyzed        | CAS No        |
| 6010 MET ICP, Dissolv | ed Analytica | al Method: EPA 6 | 6010 Prepa | ation Meth | nod: EPA | 6010          |                 |               |
| Chromium, Dissolved   | 2430         | ug/L             | 5.0        | 1.1        | 1        | 01/09/09 08:0 | 0 01/09/09 14:1 | 3 7440-47-3   |

Chromium, Hexavalent Analytical Method: SM 3500-Cr B (Online) Chromium, Hexavalent 2.5 mg/L 0.25 0.042 12.5

## Date: 01/13/2009 12:53 PM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project:                  | N1866A05  | /006          |           |                       |             |          |                              |            |            |          |     |     |      |
|---------------------------|-----------|---------------|-----------|-----------------------|-------------|----------|------------------------------|------------|------------|----------|-----|-----|------|
| Pace Project No.:         | 4012979   |               |           |                       |             | •        |                              |            |            |          |     |     |      |
| QC Batch:                 | WETA/30   | 92            |           | Analys                | is Method:  | s        | M 3500-Cr E                  | 3 (Online) |            | ·        |     |     |      |
| QC Batch Method:          | SM 3500-  | Cr B (Online) |           | Analysis Description: |             |          | Chromium, Hexavalent by 3500 |            |            |          |     |     |      |
| Associated Lab Sar        | nples: 40 | 12979001      |           |                       |             |          |                              |            |            | •        |     |     |      |
| METHOD BLANK:             | 117747    |               |           | N                     | Matrix: Wat | ter      |                              | 4          |            |          | _   |     |      |
| Associated Lab San        | nples: 40 | 12979001      |           |                       |             |          |                              |            |            |          |     |     | ·· " |
|                           |           |               |           | Blank                 | (R          | eporting |                              |            |            |          |     |     |      |
| Paran                     | neter     |               | Units     | Resul                 | t           | Limit    | Analyz                       | ed         | Qualifiers | _        |     |     |      |
| Chromium, Hexavalent mg/L |           |               |           | <0.                   | .0034       | 0.020    | 01/06/09                     | 10:15      |            |          |     |     |      |
| LABORATORY COI            | NTROL SAM | IPLE: 11774   | 8         |                       |             |          |                              |            |            |          |     |     |      |
|                           |           | ·             |           | Spike                 | LCS         | ;        | LCS /                        | % Rec      | :          |          |     |     |      |
| Paran                     | neter     | I             | Units     | Conc.                 | - Resu      | dt ·     | % Rec                        | Limits     | Qu         | alifiers |     |     |      |
| Chromium, Hexava          | lent      | mg/L          |           | .3                    |             | 0.30     | 99                           | 90         | -110       |          | -   |     |      |
| MATRIX SPIKE & M          |           |               | E: 117749 | ) ·                   | *           | 117750   | <u>.</u>                     |            | <u></u>    |          |     |     |      |
|                           |           |               |           | MS                    | MSD         |          |                              |            |            |          |     |     |      |
|                           |           | 40            | 12979001  | Spike                 | Spike       | MS       | MSD                          | MS         | MSD        | % Rec    |     | Max |      |
| Parame                    | ter       | Units         | Result    | Conc.                 | Conc.       | Result   | Result                       | % Rec      | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Hexava          | lent      | mg/L          | 2.5       | 3.8                   | 3.8         | 6.3      | 6.4                          | 101        | 103        | 90-110   | 1   | 20  |      |

Date: 01/13/2009 12:53 PM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project: N1866A05/006           |         |           |        |  |          |          |        |            |          |     |     |      |
|---------------------------------|---------|-----------|--------|--|----------|----------|--------|------------|----------|-----|-----|------|
| Pace Project No.: 4012979       |         |           |        |  |          |          |        |            |          |     |     |      |
| QC Batch: MPRP/2181             |         |           | Analys | is Method:                               | E        | PA 6010  |        |            |          |     |     |      |
| QC Batch Method: EPA 6010       |         |           | Analys | Analysis Description: 6010 MET Dissolved |          |          |        |            |          |     |     |      |
| Associated Lab Samples: 4012979 | 001     |           | •      |  |          |          |        |            |          |     |     |      |
| METHOD BLANK: 118492            |         |           |        | Aatrix: Wat                              | ter      |          |        |            |          |     |     |      |
| Associated Lab Samples: 4012979 | 001     |           | •      |  |          |          |        |            |          |     |     | ·    |
|                                 |         |           | Blank  | K R                                      | eporting |          |        |            |          |     |     |      |
| . Parameter                     |         | Units     | Resul  | t  | Limit    | Analyz   | ed     | Qualifiers |          |     |     |      |
| Chromium, Dissolved             | ug/L    |           |        | <1.1                                     | 5.0      | 01/09/09 | 13:38  |            |          |     |     |      |
|                                 |         |           |        |  |          |          |        |            |          |     |     |      |
| LABORATORY CONTROL SAMPLE:      | 11849   | 93        |        |  |          |          |        |            |          |     |     |      |
|                                 |         |           | Spike  | LCS                                      |          | LCS      | % Red  | 2          |          |     |     |      |
| Parameter                       |         | Units     | Conc.  | Resu                                     | lt       | % Rec    | Limits | ; Qi       | alifiers | _   |     |      |
| Chromium, Dissolved             | ug/L    |           | 500    | )  | 501      | 100      | 80     | -120       |          | -   |     |      |
|                                 |         |           |        |  |          |          |        |            |          |     | ۰.  |      |
| MATRIX SPIKE & MATRIX SPIKE DU  | IPLICAT | E: 11849  | 4      |  | 118495   |          |        |            |          | -   |     |      |
|                                 |         |           | MS     | MSD                                      |          |          |        |            |          |     |     |      |
|                                 | 4(      | 013051004 | Spike  | Spike                                    | MS       | MSD      | MS     | MSD        | % Rec    |     | Max |      |
| Parameter                       | Units   | Result    | Conc.  | Conc.                                    | Result   | Result   | % Rec  | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Dissolved ug/         | <u></u> | ND        | 500    | 500                                      | 487      | 494      | 97     | 99         | 75-125   | 1   | 20  |      |

Date: 01/13/2009 12:53 PM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALIFIERS

| Project:      | N1866A05/006  |  |
|---------------|---|--|
| Pace Project  | it No.: 4012979   |  |
| DEFINITION    | NS ~ ,  |  |
| DF -<br>the s | Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of<br>ample aliquot, or moisture content. |  |
| ND -          | Not Detected at or above adjusted reporting limit.  |  |
| J - Es        | stimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  |  |
| MDL           | - Adjusted Method Detection Limit.  |  |

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

,Date: 01/13/2009 12:53 PM

## **REPORT OF LABORATORY ANALYSIS**

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| E.  | Lucionaria zerrent     |                               |   |
|---|------------------------|-------------------------------|---|
| Face Analytical Client Name   | · Amaria               |                               | Project # Law 2979  |
|   |                        |                               |   |
| Courier: Fed Ex UPS USPS Clier  | It Commercial          | Pace Other                    | Coulonal<br>Phil Dulleurs an Charles                            |
| Custody Seal on Cooler/Box Present:  yes  | no Seals               | intact: 🗌 yes 🗌               | ] по  |
| Packing Material: Bubble Wrap Bubble  | Bags None              | Other                         |   |
| Thermometer Used NA   | Type of Ice: Wet       | Blue None                     | ] Samples on ice, cooling process has begun                     |
| Cooler Temperature Roll   | Biological Tissue      | is Frozen: Yes No             | Date and Initials of person examining contents: <u>A 1/6/09</u> |
| Chain of Custody Present  |                        | 1                             |   |
| Chain of Custody Filled Out:  |                        | 2.                            |   |
| Chain of Custody Relinquished:  |                        | 3.                            |   |
| Sampler Name & Signature on COC:  |                        | 4.                            |   |
| Samples Arrived within Hold Time:   |                        | 5                             |   |
| Short Hold Time Analysis (<72hr):   |                        | 6. Here chron                 |   |
| Rush Turn Around Time Requested:  |                        | 7.                            | ·····   |
| Sufficient Volume:  |                        | 8.                            | · · · · · · · · · · · · · · · · · · ·                           |
| Correct Containers Used:  |                        | 9.                            |   |
| -Pace Containers Used:  | DYes DNO DN/A          |                               |   |
| Containers Intact:  |                        | 10.                           |   |
| Filtered volume received for Dissolved tests  | UYes DNo DIN/A         | 11.                           |   |
| Sample Labels match COC:  |                        | 12.                           |   |
| -Includes date/time/ID/Analysis Matrix:   | ίω                     |                               |   |
| All containers needing preservation have been checked.  |                        | 13.                           |   |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. |                        |                               |   |
| exceptions: VOA, coliform TOC 08G WI-DBO (water)  | □Yes □No               | Initial when<br>completed     | Lot # of added  |
| Samples checked for dechlorination:   |                        | 14                            |   |
| Headspace in VOA Vials ( >6mm)  |                        | 15                            |   |
| Trin Blank Present  |                        | 16                            |   |
| Trip Blank Custody Seals Present  |                        |                               |   |
| Pace Trip Blank Lot # (if purchased):   |                        |                               |   |
| Client Notification/ Pesolution:  |                        |                               | Field Date Pequited?  |
| Person Contacted  | Date/                  | Time <sup>,</sup>             |   |
| Comments/ Resolution:   |                        |                               |   |
|   |                        | ···                           |   |
|   |                        | •                             |   |
|   |                        |                               |   |
|   |                        |                               |   |
|   |                        |                               |   |
| Project Manager Review:   |                        |                               | Date:0////  |
| Note: Whonover there is a diagrammy effecting black Or  | voliaa oomeliataa caas | alog a conv of this form with | / / · ·   |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| [  | (PI   | ease P               | rint Cleady                 |                                | ٦  |                                 |  |            |             |                    |   |           | UPPE             |           | VEST R                  |                     | h >      | Page 1               | of 1      |
|--|---|----------------------|-----------------------------|--------------------------------|--|---------------------------------|--|------------|-------------|--------------------|---|-----------|------------------|-----------|-------------------------|---------------------|----------|----------------------|-----------|
| Company Na   | me:   | <u>om</u>            | NAN ARC                     |                                |  | , <b>M</b>                      |  |            |             |                    |   |           | MN: 6            | 12-607    | -1700                   | WI: 920-469-2436    |          | i                    |           |
| Branch/Locat   | tion:   | AP                   | PLETON                      | :<br>:                         |  |                                 | Pace   | Ana        | lytic       |                    |   |           |                  |           |                         |                     |          |                      |           |
| Project Conta  | act:  | BRI                  | AN WAYN                     | n.R.                           | ] /  |                                 |  |            | 0000020     |                    |   |           |                  |           |                         | Quote #:            |          | MAUTHE               | 807001    |
| Phone:   |   | 920                  | 0/830-614                   | 1                              | ] _  | (                               | CHA  | <u>VIN</u> | OF          | <b>C</b>           | <u>US</u>   | TO        | DY               |           | _                       | Mail To Contact:    | Br       | IAN WAL              | YNRR      |
| Project Numb   | oer:  | NIS                  | 66 AOS/C                    | 06                             | Preservation Codes<br>A=None B=HCL C=H2SO4 D=HN03 E=DI Water F=Mathanol G=NaOH |                                 |  |            |             |                    |   | ]         | Mail To Company: | OM        | INNI ASSI               | 2 ATTAL 20          |          |                      |           |
| Project Name   |   | 1                    | MAUTHE                      |                                | H=S  | odium Bisu                      | lfate Soluti   | on         | I=Sodiun    | n Thiosulfi        | ate J=  | Other     |                  |           | ]                       | Mall To Address:    | ONE      | SYSTEMS              | DRIVE     |
| Project State:   |   |                      | WI                          |                                | FILTI<br>(YE   | ERED?<br>S/NO)                  | Y OF   | 2          | Y           |                    |   |           |                  |           |                         |                     | APPL     | ton, wi              | 54914     |
| Sampled By (   | Print):   | BR                   | IAN WAY                     | NER                            | PRESE  | RVATION<br>DE)*                 |  | A          | D           |                    |   | •         |                  |           |                         | Invoice To Contact: | BR       | AN WAY               | NER       |
| Sampled By (   | Sign):  | B                    | 2. d. Wayser                |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         | Involce To Company: | OMN      | NN Assoc             | LATES     |
| PO #:  |   |                      |                             | Regulator<br>Program:          |  |                                 |  | 5 2        | 1           |                    |   |           |                  |           |                         | Invoice To Address: |          | AME                  |           |
| Data Packar<br>(bilia  | ge Op<br>ible)  | tions  <br>  [       | MS/MSD<br>On your sample    | Mi<br>A = Air<br>B = Biota     | W = Water<br>OW = Drink  | B                               |  | 210        | コント         |                    |   |           |                  |           |                         |                     |          | ») ·                 |           |
|  | A Level   | ₩<br>IV [[           | (billable)<br>NOT needed on | C = Charcoal<br>O = Oli        | GW = Grou<br>SW = Sunta  | nd Water<br>co Water            |  | 20         | g           |                    |   |           |                  |           |                         | Involce To Phone:   | 920      | 1830-614             | 41        |
| PACE LAB'#   | . <u>.</u>  |                      | your sample                 | S = Soli<br>Si = Sludge<br>COl | WP = Wipe  | MATRIX                          | and the second s | LEX<br>CE  | Ū           |                    |   |           |                  |           |                         | CLIENT<br>COMMENTS  | LAB C    | OMMENTS              | Profile # |
| 001  |   | 05                   | EDI DO                      | 1// h                          | 7.20   | GW                              |  | X          | ×           |                    |   |           |                  |           |                         | 7. 250 m. D.A       |          |                      |           |
|  |   |                      |                             | 1 100                          | 1.20   |                                 |  |            |             |                    |   |           |                  |           |                         | ~                   | <u> </u> |                      |           |
|  |   | <b></b>              | ·····                       |                                | -  |                                 |  |            |             |                    |   |           |                  |           | ÷ .                     |                     | 1        |                      |           |
| t  |   |                      |                             |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         |                     |          |                      |           |
|  |   |                      |                             |                                |  |                                 |  |            |             |                    | · · · ·   |           |                  |           |                         | <u> </u>            |          | •                    |           |
| <u>├</u> ───┤  |   |                      |                             |                                |  | 1                               |  |            |             |                    |   |           |                  |           |                         |                     | 1        |                      |           |
|  |   |                      |                             |                                | +  | <u> </u>                        |  |            |             |                    | 、   |           |                  |           |                         |                     |          |                      |           |
|  |   |                      |                             |                                | +  | <u> </u>                        |  |            |             |                    |   |           |                  |           |                         |                     |          | <u> </u>             |           |
| · · · · · · · · · · · · · · · · · · ·  |   |                      |                             |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         |                     | <u> </u> | <u></u>              | ·         |
|  |   |                      |                             |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         |                     | <u> </u> |                      |           |
|  |   |                      |                             |                                | +  |                                 |  |            |             |                    |   |           |                  |           |                         |                     |          | <u> </u>             |           |
|  |   |                      |                             |                                |  |                                 |  | ÷          |             |                    |   |           |                  |           |                         |                     |          |                      |           |
|  |   | <u></u>              |                             |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         |                     |          |                      |           |
| Rush Tur   | marou   | nd Time              | Requested - Prelin          | ns Rel                         | ngulshed By:   | <u> </u>                        | 1950899358   |            | Qat         | e/Time:            |   |           | Received         | By: 1     |                         | -11. Date/Time:     | <u> </u> | PACE Pro             | ject No.  |
| (Rush T  | AT sul<br>Date  | bject to a<br>Needed | approval/surcharge          | )<br>Reli                      | B:   | I. Wa                           | yren   |            | <u>////</u> | 09 2<br>e/Time:    | 3:20a N   | 1         | Received         |           | <u>14</u>               | 1 1/1/09            | 8:45     | 40129                | 79        |
| Transmit Preli   | Transmit Prelim Rush Results by (complete what you want): |                      |                             | ant):                          | 2 1  | Ue                              | EK.  | /-         | [6][        | 19                 | 9: ]  | 30        | $\angle$         |           | /<br>/                  | 1/6/09              | 930      | Receipt Temp = Dc    | <br>∫ ℃   |
| Emell #1:  | meli#1:   |                      |                             | Rell                           | nquished By:   |                                 |  | 1          | / Dat       | e/Time:            |   | 4         | Received         | By        |                         | Date/Time:          |          | Sample Re            | ceipt pH  |
| Email #2:  | mali #2:  |                      |                             |                                | Here shade Barry   |                                 |  |            |             | Received           | Bv:   | · · · · · | Date/Time        |           | OK / Adi                | usted               |          |                      |           |
| Fax:   | Felephone: Re   |                      |                             |                                | יקעונטחפט שאַ. עצונא וודדום: KeCel   |                                 |  |            |             | Cooler Custody Ser |   |           |                  | tody Seal |                         |                     |          |                      |           |
| Samples on HOLD are subject to Relin<br>special pricing and release of liability |   |                      |                             |                                | nquished By:   | juished By: Date/Time: Roceived |  |            |             |                    | lived By: Date/Time: Present / Not Present<br>Intact / Not Intact |           |                  |           | ot Present<br>ot Intact |                     |          |                      |           |
|  |   |                      |                             |                                |  |                                 |  |            |             |                    |   |           |                  |           |                         |                     |          | Version 6.0 08/14/02 |           |

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February 09, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05-006 MAUTHE Pace Project No.: 4013725

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

D-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

## Project: N1866A05-006 MAUTHE Pace Project No.: 4013725

## **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11888

New York Certification #: 11887 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

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# SAMPLE SUMMARY

Project:N1866A05-006 MAUTHEPace Project No.:4013725

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 4013725001 | OUTFALL 001 | Water  | 02/03/09 06:23 | 02/03/09 14:45 |

# **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE ANALYTE COUNT

| Project:       | N1866A05-006 MAUTHE     |                       |          |                      |            |
|----------------|-------------------------|-----------------------|----------|----------------------|------------|
| Pace Project N | o.: <sup>4</sup> 013725 |                       |          |                      |            |
| Lab ID         | Sample ID               | Method                | Analysts | Analytes<br>Reported | Laboratory |
| 4013725001     | OUTFALL 001             | EPA 6010              | DLB      | 1                    | PASI-G     |
|                |                         | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE Pace Project No.: 4013725

Method:EPA 6010Description:6010 MET ICP, DissolvedClient:OMNNI ASSOCIATES, INC.Date:February 09, 2009

### **General Information:**

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

## **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

| Project:          | N1866A05-006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4013725             |

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:February 09, 2009

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes: All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: N1866A05-006 MAUTHE

Pace Project No.: 4013725

| Sample: OUTFALL 001     | Lab ID:       | 4013725001    | Collected    | : 02/03/09 | 06:23 | Received: 02 | /03/09 14:45 Ma | atrix: Water |                |
|-------------------------|---------------|---------------|--------------|------------|-------|--------------|-----------------|--------------|----------------|
| Parameters              | Results       | Units         | LOQ          | LOD        | DF    | Prepared     | Analyzed        | CAS No.      | Qual           |
| 6010 MET ICP, Dissolved | Analytical    | Method: EPA 6 | 010          |            |       |              |                 |              |                |
| Chromium, Dissolved     | <b>2900</b> u | g/L           | 5.0          | 0.57       | 1     |              | 02/05/09 17:02  | 7440-47-3    | <del>.</del> . |
| Chromium, Hexavalent    | Analytical    | Method: SM 3  | 500-Cr B (Or | nline)     |       |              |                 |              |                |
| Chromium, Hexavalent    | 3.3 m         | ng/L          | 0.50         | 0.085      | 25    |              | 02/03/09 15:00  | 18540-29-9   |                |

Date: 02/09/2009 10:41 AM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project: N1866A05          | -006 MAUTHE    |           |                   |                     |          |              |                 |   |          |     |              |            |
|----------------------------|----------------|-----------|-------------------|---------------------|----------|--------------|-----------------|---|----------|-----|--------------|------------|
| Pace Project No.: 4013725  |                |           |                   |                     |          |              |                 |   |          |     |              |            |
| QC Batch: WETA/3           | 196            |           | Analys            | sis Method:         | s s      | SM 3500-Cr I | 3 (Online)      |   |          |     |              |            |
| QC Batch Method: SM 3500   | -Cr B (Online) |           | Analys            | sis Descript        | lion: C  | Chromium, H  | exavalent t     | oy 3500                                 |          |     |              |            |
| Associated Lab Samples: 40 | 13725001       |           |                   |                     |          |              |                 |   |          |     |              |            |
| METHOD BLANK: 124393       |                |           | ſ                 | Matrix: Wa          | ter      |              |                 |   |          |     |              |            |
| Associated Lab Samples: 40 | 13725001       |           |                   |                     |          |              |                 |   |          |     |              | •••        |
| Parameter                  | Blank<br>Resul | c R<br>It | eporting<br>Limit | Analyzed Qualifiers |          |              |                 |   |          |     |              |            |
| Chromium, Hexavalent       | <0.            | .0034     | 0.020             | 02/03/09            | 15:00    |              | -               |   |          |     |              |            |
| LABORATORY CONTROL SAM     | APLE: 12439    | 4         |                   |                     |          |              |                 | · - · · · · · · · · · · · · · · · · · · |          |     |              |            |
| Parameter                  | (              | Units     | Spike<br>Conc.    | LCS<br>Resu         | ;<br>ilt | LCS<br>% Rec | % Rec<br>Limits | :<br>Qu                                 | alifiers |     |              |            |
| Chromium, Hexavalent       | mg/L           |           | .3                | -14                 | 0.31     | 103          | 90              | -110                                    |          | -   |              |            |
| MATRIX SPIKE & MATRIX SPI  | KE DUPLICATE   | : 12439   | 5                 |                     | 124396   |              |                 |   |          |     |              |            |
|                            |                |           | MS                | MSD                 |          |              |                 |   |          |     |              |            |
| <b>-</b> ,                 | 40             | 13725001  | Spike             | Spike               | MS       | MSD          | MS              | MSD                                     | % Rec    |     | Max          | <b>.</b> . |
| Parameter                  |                | Result    | Conc.             | Conc.               | Result   | Result       | % Rec           | % Rec                                   | Limits   | RPD | <u>крр</u> . | Qual       |
| Chromium, Hexavalent       | mg/L           | 3.3       | 7.5               | 7.5                 | 10.8     | 11.1         | 100             | 105                                     | 90-110   | 4   | 20           |            |

Date: 02/09/2009 10:41 AM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A05-006 N  | <b>AUTHE</b> |          |        |             |          |              |             |            |          |     |     |         |
|--------------------|-----------------|--------------|----------|--------|-------------|----------|--------------|-------------|------------|----------|-----|-----|---------|
| Pace Project No.:  | 4013725         |              |          |        |             |          |              |             |            |          |     |     |         |
| QC Batch:          | ICP/1961        |              |          | Analys | is Method:  | E        | PA 6010      |             | _          | ·        |     |     |         |
| QC Batch Method:   | EPA 6010        |              |          | Analys | is Descript | ion: I   | CP Metals, T | race, Disso | lved       |          |     |     |         |
| Associated Lab San | nples: 4013725  | 001          |          |        |             |          |              |             |            |          |     |     |         |
| METHOD BLANK:      | 124809          |              |          |        | Aatrix: Wat | ter      | · ·          |             |            |          |     |     |         |
| Associated Lab San | nples: 4013725  | 001          |          |        |             |          |              |             |            |          |     |     | ·-<br>· |
|                    |                 |              |          | Blank  | r R         | eporting |              |             |            |          |     |     |         |
| Paran              | neter           |              | Units    | Resul  | t           | Limit    | Analyz       | ed          | Qualifiers |          |     |     |         |
| Chromium, Dissolve | d               | ug/L         |          | -      | <0.57       | 5.0      | 02/05/09     | 15:27       |            | _        |     |     |         |
| LABORATORY CON     | NTROL SAMPLE:   | 12481        | 0        |        |             |          |              |             |            |          |     |     |         |
|                    |                 |              |          | Spike  | LCS         | :        | LCS          | % Rec       | :          |          |     |     |         |
| Paran              | neter           |              | Units    | Conc.  | Resu        | lt       | % Rec        | Limits      | Qı         | alifiers |     | •   |         |
| Chromium, Dissolve | d               | ug/L         |          | 500    |             | 471      | 94           | 80          | -120       |          | -   |     | ·       |
| MATRIX SPIKE & M   | IATRIX SPIKE DU |              | E: 12481 |        |             | 124812   |              |             |            |          |     |     |         |
|                    |                 |              |          | MS     | MSD         |          |              |             |            |          |     |     |         |
|                    |                 | 40           | 13797001 | Spike  | Spike       | MS       | MSD          | MS          | MSD        | % Rec    |     | Max |         |
| Paramet            | ler             | Units        | Result   | Conc.  | Conc.       | Result   | Result       | % Rec       | % Rec      | Limits   | RPD | RPD | Qual    |
| Chromium, Dissolve | ed ug/          | Ľ            | 28.3     | 500    | 500         | 501      | 500          | 95          | 94         | 75-125   | .2  | 20  |         |

Date: 02/09/2009 10:41 AM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

# Project: N1866A05-006 MAUTHE

Pace Project No.: 4013725

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 02/09/2009 10:41 AM

### **REPORT OF LABORATORY ANALYSIS**

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| Courier: Fed Ex UPS USPS CI<br>Tracking #:  | ent Commercial    | Pace Other                          |                                |                   |
|---|-------------------|-------------------------------------|--------------------------------|-------------------|
| Custody Seal on Cooler/Box Present:   | s 🛛 no Seat       | s intact: 🔲 yes [                   | ] no [34                       |                   |
| Packing Material: 🗍 Bubble Wrap   | e Bags None       | Other                               |                                | •                 |
| Thermometer Used NA   | Type of Ice: We   | Blue None                           | ] Samples on ice, cooling      | process has begun |
| Cooler Temperature  | Biological Tissue | )<br>Is Frozen: Yes No<br>Comments: | Date and Initials of contents: | person examining  |
| Chain of Custody Present:   | DYES DNO DN/A     | 1.                                  |                                |                   |
| Chain of Custody Filled Out:  | ETYPE ONO ONIA    | 2.                                  |                                |                   |
| Chain of Custody Relinquished:  |                   | 3.                                  |                                |                   |
| Sampler Name & Signature on COC:  |                   | 4.                                  |                                |                   |
| Samples Arrived within Hold Time:   | PYes QNO DNA      | 5                                   |                                |                   |
| Short Hold Time Analysis (<72hr):   | Sarres Diro CINIA | 6. Hey Chro                         | ne                             |                   |
| Rush Turn Around Time Requested:  | DYes Due ONIA     | 7.                                  | ·····                          |                   |
| Sufficient Volume:  | PYes DNO DNA      | 8.                                  |                                | ·                 |
| Correct Containers Used:  |                   | 9.                                  |                                |                   |
| -Pace Containers Used:  |                   |                                     |                                |                   |
| Containers Intact:  |                   | 10.                                 |                                |                   |
| Filtered volume received for Dissolved tests  | DYes DNO DINIA    | 11.                                 |                                |                   |
| Sample Labels match COC:  |                   | 12.                                 |                                |                   |
| -Includes date/time/ID/Analysis Matrix:   | <u> </u>          |                                     |                                |                   |
| Au containers needing preservation have been checked.   |                   | 13.                                 | •                              |                   |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. | Dives Ong Onva    |                                     | T                              |                   |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | DYes DNo          | completed C                         | preservative                   |                   |
| Samples checked for dechlorination:   | DYes DNO DINA     | 14.                                 |                                |                   |
| Headspace in VOA Vials ( >6mm):   |                   | 15.                                 |                                |                   |
| Trip Blank Present:   |                   | 16.                                 |                                |                   |
| Trip Blank Custody Seals Present  |                   |                                     |                                |                   |
| Pace Trip Blank Lot # (if purchased):   | <del>~</del>      | ]                                   |                                |                   |
| Client Notification/ Resolution:<br>Person Contacted:<br>Comments/ Resolution:                | Date/             | Time:                               | Field Data Required?           | Y / N             |
|   |                   |                                     |                                |                   |
|   |                   |                                     |                                |                   |
|   |                   |                                     |                                |                   |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

|                           | (Please Print Clearly)                 |                        |  | _                      |   |           |                    |            |          |                     | UPPE         | R MID    | NEST P   | REGION                         |  | Page 1                                | of 🗍              |
|---------------------------|--|------------------------|--|------------------------|---|-----------|--------------------|------------|----------|---------------------|--------------|----------|----------|--------------------------------|--|---------------------------------------|-------------------|
| Company Na                | IMA: OMNNT AS                          | SUCIATES               |  |                        |   |           |                    |            |          |                     | MN:          | 612-60   | 7-1700   | WI: 920-469-2436               |  |                                       |                   |
| Branch/Loca               | ition: APPLETOR                        | :                      | 7  |                        | Pace                                    | Ana       | liytic             | al*        |          |                     |              |          |          |                                |  |                                       |                   |
| Project Cont              | act: Beight ular                       |                        | 1 /  |                        |   | www.p     | 9061883.0          | mon        |          |                     |              |          |          | Quote #:                       | MAU                                    | THE IN                                | 708               |
| Phone:                    | 910/820 ~/~                            |                        |  | C                      |   | ١N        | OF                 | C C        | US       | TO                  | DY           | ,        |          | Mall To Contact:               | - COL                                  | AN WAY                                | NER               |
| Project Num               | ber: 100/050.01                        | 1000                   |  |                        |   | 42504     | Preserva           | tion Co    | des      |                     |              |          | ٦        | Mall To Company:               |  |                                       |                   |
| Project Nam               | NISOMAUS,                              | 1006                   | H=S  | Sodium Bisul           | ifate Soluti                            | en        | D=HNO3<br>I≈Sodiun | n Thiosu   | ifate .  | F=Methar<br>I≃Other | nei G=1      |          | ]        | Mail To Address:               | Umi                                    | NT 715.50                             | CIATES            |
| Broloot State             | " MOUTHE                               |                        | FILTI  | ERED?                  | 10,445,004                              |           | ال                 | _          | T        | 1                   | T            | T        | 1        |                                | ONE                                    | 59372113                              | DRIVE             |
| Project State             | · · · · · · · · · · · · · · · · · · ·  |                        | PRESE  | S/NO)<br>RVATION       |   | N         | 17                 |            |          |                     | <u> </u>     |          |          |                                | HOPLE                                  | TON, WI                               | 399:14            |
| Sampled By                | (Print): BRIAN WA                      | INER                   | (CO  | DDE)*                  |   | A         | LD                 |            |          |                     | <b> </b>     | <b> </b> | <u> </u> | invoice To Contact:            | BR                                     | IAN WAY                               | VER               |
| Sampled By                | (Sign): B-O. Ways                      | en                     |  |                        |   |           |                    |            |          | {                   |              |          |          | invoice To Company:            | Ome                                    | VT ASSOC                              | JATES.            |
| PO #:                     |  | Program:               | <u>′</u>   |                        |   | 5 5       | 1 1                |            |          |                     |              |          |          | Invoice To Address:            |  |                                       |                   |
| Data Packa                | age Options MS/MSD                     | Ma                     | trix Code  | 8                      |   | 53        | 5                  |            |          |                     |              |          |          |                                | 5                                      | AME                                   |                   |
|                           | A Level III (billable)                 | B = Blota              | DW = Orlink<br>GW = Grou   | dng Water<br>Ind Water |   | 28        | <u>ک</u>           |            |          |                     |              |          |          | Invoice To Phone               | 0.11                                   |                                       |                   |
| EP.                       | A Level IV NOT needed                  | on O = Oil<br>S = Soil | SW = Surfa<br>WW = Wasi  | te Water               |   | VX V      | ま                  |            |          |                     |              | Į        |          |                                | <u>420</u>                             | 830-614                               | //                |
|                           |  | SI = Sludge<br>COL     | WP = Wipe  | MATRIX                 |   |           | 0                  |            |          |                     |              |          |          | CLIENT                         | (lab)                                  | Use Oniv)                             | Profile #         |
|                           |  | DATE 2                 | TIME   |                        |   |           | 7                  |            |          | <u> </u>            | ╂            |          |          | 0 250                          | 10                                     |                                       | I                 |
| $\omega_{1}$              | DUTFALL OOL                            | 13/09                  | 6.23   | IGW.                   |   | X         |                    |            |          | <u> </u>            | <u> </u>     | <u> </u> |          | a-asome                        | [                                      |                                       |                   |
|                           | <del></del>                            |                        |  |                        |   |           |                    |            | <u> </u> |                     | <u> </u>     | ļ        |          | · · · ·                        |  | ·····                                 |                   |
| <u></u>                   |  |                        | +  | ·                      |   |           |                    |            | <b> </b> | ļ                   | <b>}</b>     |          | <u> </u> |                                |  |                                       |                   |
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|                           |  |                        |  |                        |   |           |                    |            |          |                     |              |          |          |                                |  |                                       |                   |
|                           |  |                        |  |                        |   | 1         |                    |            |          |                     |              |          |          |                                |  |                                       |                   |
|                           |  |                        |  |                        |   |           |                    |            |          |                     |              |          |          |                                |  |                                       |                   |
|                           |  |                        | 1  |                        |   | , <b></b> |                    |            |          |                     |              |          | 1        |                                | ·                                      |                                       |                   |
| •                         |  |                        | 1  | 1                      |   |           |                    |            | †        |                     |              |          | 1        |                                |  |                                       |                   |
|                           |  |                        |  | <u>├</u> ────          |   |           |                    |            |          | <u> </u>            | †            |          | †        |                                |  |                                       |                   |
|                           | ·                                      |                        |  | <u> </u>               |   |           |                    |            | <u> </u> | <del> </del>        | <del> </del> | <u> </u> | +        | <u></u>                        |  | <u></u>                               | ** * ************ |
|                           |  |                        |  |                        |   |           |                    |            |          |                     |              |          |          |                                |  | · · · · · · · · · · · · · · · · · · · |                   |
|                           |  |                        | <u> </u>   |                        |   |           |                    |            | <u> </u> |                     |              | <u> </u> | <u> </u> |                                |  |                                       |                   |
| Rush Ti                   | umaround Time Requested - P            | relims lean            | nouished R   | L                      |   |           |                    | ەر]].<br>م | l        | l                   | Ramhur       |          | <u> </u> |                                |  | PACE Pro                              | ject No.          |
| (Rush                     | TAT subject to approval/surcha         | arge)                  | A starting and a star | <u>_l</u>              | Vays                                    | 4         | 2/3/               | <u>69</u>  | 7:02     | oin                 | Ď            | 1        | Ne       | The 2/3/09                     | 8:35                                   | UN12-                                 | 175               |
| <b>T</b>                  | Date Needed:                           | Reli                   | nguished By:   | n                      | ÓR.                                     | 2/        | Dat                | e/Time:    | 14       | NE                  | Receive      | 1 By:    | 1        | 2/2/ Date/Time:                | IUN                                    | CIUT                                  | 123               |
| Transmit Pre<br>Email #1: | aim Rush Results by (complete what y   | rou want):<br>Reli     | nquished By:   | ner                    |   | 2/        | Dat                | a/Time:    | 17.      | 15                  | Receiver     | 1 By:    | -        | <u>~/.2/.1 1</u><br>Date/Time: | 1940                                   | Receipt Temp =                        | 201 0             |
| Ema!l #2:                 |  |                        | ···  |                        | • · · · · · · · · · · · · · · · · · · · |           |                    |            |          | <i>"</i>            |              |          |          |                                | ······································ | Sample Re                             | celpt pH          |
| Telephone:                |  | Reli                   | nquished By:   |                        |   |           | Date               | s/Time:    |          |                     | Received     | J 9y:    |          | Date/Time:                     | 1                                      | OK / Ad                               | tody Seal         |
| Fax:                      | Samples on HOLD are subject to         | Reliu                  | nquished By:   |                        |   |           | Date               | e/Timo:    |          |                     | Received     | 1 By:    |          | Date/Time:                     |  | Present / No                          | ot Present        |
| spe                       | ecial pricing and release of liability |                        |  |                        |   |           |                    |            |          |                     |              |          |          |                                | ·                                      | Intact / No                           | ot intact         |
| C019s/27                  | up2006)                                |                        |  |                        |   |           |                    |            |          |                     |              |          |          |                                |  | version 6.0 06/14/08                  | ORIGINAL          |

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Analvtica

March 12, 2009

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05/006 MAUTHE Pace Project No.: 4014555

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

L-VM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: N1866A05/006 MAUTHE Pace Project No.: 4014555

### **Green Bay Certification IDs**

Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 North Dakota Certification #: R-200 North Dakota Certification #: R-200 North Carolina Certification #: R-150 North Carolina Certification #: 503 North Carolina Certification #: 503 New York Certification #: 11888 New York Certification #: 11887 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Illinois Certification #: 82 Illinois Certification #: 200050 Florida/NELAP Certification #: E87951 Florida/NELAP Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE SUMMARY

Project: N1866A05/006 MAUTHE Pace Project No.: 4014555

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 4014555001 | OUTFALL 001 | Water  | 03/03/09 07:18 | 03/03/09 13:05 |
|            |             |        |                |                |

# **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE ANALYTE COUNT

Project:N1866A05/006 MAUTHEPace Project No.:4014555

| Lab ID     | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|------------|-------------|-----------------------|----------|----------------------|------------|
| 4014555001 | OUTFALL 001 | EPA 6010              | DLB      | 1                    | PASI-G     |
|            |             | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

REPORT OF LABORATORY ANALYSIS

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### **PROJECT NARRATIVE**

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4014555             |

Method:EPA 6010Description:6010 MET ICP, DissolvedClient:OMNNI ASSOCIATES, INC.Date:March 12, 2009

### **General Information:**

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

# REPORT OF LABORATORY ANALYSIS

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# **PROJECT NARRATIVE**

| Project:           | N1866A05/006 MAUTHE |
|--------------------|---------------------|
| Pace Project No .: | 4014555             |

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:March 12, 2009

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: N1866A05/006 MAUTHE

Pace Project No.: 4014555

| Sample: OUTFALL 001     | Lab ID:       | 4014555001   | Collecte    | d: 03/03/09 | 9 07:18 | Received: 03 | /03/09 13:05 M | atrix: Water |   |
|-------------------------|---------------|--------------|-------------|-------------|---------|--------------|----------------|--------------|---|
| Parameters              | Results       | Units        | LOQ         | LOD         | DF      | Prepared     | Analyzed       | CAS No.      | Qual                                    |
| 6010 MET ICP, Dissolved | Analytical    | Method: EPA  | 6010        |             |         |              |                |              |   |
| Chromium, Dissolved     | <b>1970</b> u | Jg/L         | 5.0         | 0.57        | 1       |              | 03/09/09 19:41 | 7440-47-3    | ••••••••••••••••••••••••••••••••••••••• |
| Chromium, Hexavalent    | Analytical    | Method: SM 3 | 500-Cr B (C | online)     |         |              |                |              |   |
| Chromium, Hexavalent    | 2.4 r         | ng/L         | 0.50        | 0.085       | 25      |              | 03/03/09 16:00 | 18540-29-9   |   |

Date: 03/12/2009 05:43 PM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A05/00 | 6 MAUTHE     |          |        |             |          |              |             |            |           |     |     |      |
|--------------------|-------------|--------------|----------|--------|-------------|----------|--------------|-------------|------------|-----------|-----|-----|------|
| Pace Project No .: | 4014555     |              |          |        |             |          |              |             |            |           |     |     |      |
| QC Batch:          | WETA/3322   | !            | • •      | Analys | is Method:  | S        | 6M 3500-Cr E | 3 (Online)  |            |           |     |     |      |
| QC Batch Method:   | SM 3500-Ci  | r B (Online) |          | Analys | is Descript | ion: C   | Chromium, He | exavalent b | y 3500     |           |     |     |      |
| Associated Lab San | nples: 4014 | 555001       |          |        |             |          |              |             |            |           |     |     |      |
| METHOD BLANK:      | 131551      |              |          | N      | Aatrix: Wat | ter      |              |             |            |           |     |     |      |
| Associated Lab San | nples: 4014 | 555001       |          |        |             |          |              |             |            |           |     |     | ••   |
|                    |             |              |          | Blank  | R           | eporting |              |             |            |           |     |     |      |
| Paran              | neter       | L            | Jnits    | Resul  | t           | Limit    | Analyz       | ed          | Quatifiers |           |     |     |      |
| Chromium, Hexaval  | ent         | mg/L         |          | <0.    | 0034        | 0.020    | 03/03/09     | 16:00       |            |           |     |     |      |
|                    |             |              |          |        |             |          |              |             |            |           |     |     |      |
| LABORATORY CON     | TROL SAMP   | LE: 13155    | 2        |        |             |          |              |             |            |           |     |     | ·    |
|                    |             |              |          | Spike  | 📜 LCS       | i        | LCS          | 🤊 % Rec     |            |           |     |     |      |
| Paran              | neter       | u            | Jnits    | Conc.  | Resu        | lt       | % Rec        | Limits      | Q.         | ualifiers | _   |     |      |
| Chromium, Hexaval  | ent         | mg/L         |          | 3      |             | 0.32     | 106          | 90          | -110       |           | -   |     |      |
|                    |             |              |          | •      |             |          |              |             |            |           |     |     |      |
| MATRIX SPIKE & M   | ATRIX SPIKE | DUPLICATE    | : 13155  | 3      |             | 131554   |              | · ·         |            |           |     |     |      |
|                    |             |              |          | MS     | MSD         |          |              |             |            |           |     |     |      |
|                    |             | 40           | 14555001 | Spike  | Spike       | MS       | MSD          | MS          | MSD        | % Rec     |     | Max |      |
| Paramet            | er          | Units        | Result   | Conc.  | Conc.       | Result   | Result       | % Rec       | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium, Hexaval  | ent         | mg/L         | 2.4      | 7.5    | 7.5         | 10.0     | 10.6         | 102         | 109        | 90-110    | 5   | 20  |      |

Date: 03/12/2009 05:43 PM

# **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project: N1866A05/006           | MAUTHE          |        |              |          |              |             |            |           |     |     |      |
|---------------------------------|-----------------|--------|--------------|----------|--------------|-------------|------------|-----------|-----|-----|------|
| Pace Project No.: 4014555       |                 |        |              |          |              |             |            |           |     |     |      |
| QC Batch: ICP/2030              |                 | Analys | is Method:   | E        | PA 6010      |             |            |           |     |     |      |
| QC Batch Method: EPA 6010       |                 | Analys | is Descripti | ion: IC  | CP Metals, T | race, Disso | olved      |           |     |     |      |
| Associated Lab Samples: 4014555 | 5001            |        |              |          |              |             |            |           |     |     |      |
| METHOD BLANK: 133227            |                 | N      | fatrix: Wat  | er       |              |             |            |           |     |     |      |
| Associated Lab Samples: 4014555 | 5001            |        |              |          |              |             |            |           |     |     | ,    |
| -                               |                 | Blank  | R            | eporting |              |             |            |           |     |     |      |
| Parameter                       | Units           | Resul  | t            | Limit    | Analyz       | ed          | Qualifiers |           |     |     |      |
| Chromium, Dissolved             | ug/L            | <      | <0.57        | 5.0      | 03/09/09     | 17:57       |            |           |     |     |      |
| LABORATORY CONTROL SAMPLE:      | : 133228        |        |              |          |              |             |            |           |     |     |      |
|                                 |                 | Spike  | LĊS          |          | LCS          | % Rec       | ;          |           |     |     |      |
| Parameter                       | Units           | Conc.  | Resu         | lt       | % Rec        | Limits      | ; Qi       | ualifiers |     |     |      |
| Chromium, Dissolved             | ug/L            | 500    |              | 471      | 94           | 80          | ⊢120       |           | -   |     |      |
|                                 |                 |        |              |          |              |             | •          | • • •     |     |     |      |
| MATRIX SPIKE & MATRIX SPIKE DU  | UPLICATE: 13322 | 9      |              | 133230   |              |             |            |           |     |     |      |
|                                 |                 | MS     | MSD          |          |              |             |            | •         |     |     |      |
|                                 | 4014577013      | Spike  | Spike        | MS       | MSD          | MS          | MSD        | % Rec     |     | Max |      |
| Parameter                       | Units Result    | Conc.  | Conc.        | Result   | Result       | % Rec       | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium, Dissolved ug          | J∕L <0.57       | 500    | 500          | 461      | 462          | 92          | 92         | 75-125    | .1  | 20  |      |

Date: 03/12/2009 05:43 PM

# REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

| Project:          | N1866A05/006 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4014555             |

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

## LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 03/12/2009 05:43 PM

## **REPORT OF LABORATORY ANALYSIS**

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| sa sa   | inple (      | Con         | ditio       | n Upon Receipt                        |  |
|---|--------------|-------------|-------------|---------------------------------------|--|
| Pace Analytical Client Name   | : <u>)</u> m | <u>n</u> r  | <u>vi</u> e | Assoc-                                | Project # 4014555  |
| Courier: C Fed Ex C UPS USPS C Clie<br>Tracking #:  | ent 🗆 C      | comm        | ercial      | CAPace Other                          |  |
| Custody Seal on Cooler/Box Present: 🗌 yes   | K n          | io          | Seals       | s intact: 🗌 yes 📋                     | ] no   |
| Packing Material: 🔲 Bubble Wrap 🔤 Bubble  | e Bags       | <u>с</u> ул | lone        | Other                                 |  |
| Thermometer Used  | Туре с       | of Ice:     | Wet         | Blue None                             | ] Samples on Ice, cooling process has begun                |
| Cooler Temperature ROI  | Biolog       | gicai 1     | fissue      | is Frozen: Yes No                     | Date and initials of person examining contents: 3/3/09 MRL |
| Chain of Custody Property   | Vive         | £7144       |             |                                       |  |
| Chain of Custody Filed Out  | Viv.         |             |             | <u>.</u>                              |  |
| Chain of Custody Palipaulohod   | X Van        |             |             | 2.                                    |  |
| Chain of Costody Reiniquistieu.   | Viva         |             |             | <u>.</u>                              |  |
| Sampler Name & Signature on COC:  | Selves       |             |             | 14.<br>                               |  |
| Stand Hold Time Analysis (272by)  | Dell'es      |             |             | s.<br>Llarc OP                        |  |
| Short Hold Time Analysis (5/2017):  |              |             |             | <u>o. nex (-he</u>                    | pml  |
| Rush fulli Al Gana fille Requested:   | 171/00 1     |             |             | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·                      |
|   |              |             |             | o                                     |  |
| Page Containers Used  |              | 0110<br>105 |             | <i>8</i> .                            |  |
| -Pace Containers Used:  |              |             |             |                                       |  |
|   | Viv.         |             |             | 10                                    |  |
| Printered Volume received for Dissolved tests   |              |             |             | 11.                                   |  |
|   | pstyres (    |             |             | 12.                                   |  |
| All containers needing preservation have been checked.  | ion          |             |             |                                       |  |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. | Jares [      |             |             | 13.                                   |  |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   |              |             |             | Initial when<br>completed             | Lot # of added preservative                                |
| Samples checked for dechlorination:   | C)Yes [      |             | DARA        | 14.                                   | · · ·  |
| Headspace in VOA Viais ( >6mm):   |              | JNO         | DERVA       | 15.                                   |  |
| Trip Blank Present:   | OYes C       | JNo         | <b>BRUA</b> | 16.                                   |  |
| Trip Blank Custody Seals Present  | OYes (       | ]no/        |             |                                       |  |
| Pace Trip Blank Lot # (if purchased):   |              |             |             |                                       |  |
| Client Notification/ Resolution:  | _            |             |             |                                       | Field Data Required? Y / N                                 |
| Person Contacted:   |              | i           | Date/1      | 'ime:                                 | •  |
| Comments/ Resolution:   |              |             |             |                                       |  |
|   |              |             |             |                                       |  |
|   |              |             |             |                                       |  |
| <i>A</i>  |              |             |             |                                       | 2/2/10   |
| Project Manager Review:   |              |             |             |                                       | Date: > / . <u>\$ // `</u>                                 |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

|   | (Please Print Clearly)                           |                                      |   |                 |         |                      |                     |             | UPPE           | R MIDWEST                                     | REGION              | Page 1 of <u>7</u>                           |
|---|--|--------------------------------------|---|-----------------|---------|----------------------|---------------------|-------------|----------------|---|---------------------|--|
| Company Nan   | ne: Omald: + Askar                               | ATES                                 | 1   |                 |         | • ••                 |                     |             | MN: (          | 312-607-1700                                  | WI: 920-469-2436    |  |
| Branch/Locati   | ion: APRIETOR                                    |                                      |   | Pace            | Ana     | ilytica              | al °                |             | ١              | V.C.  |                     |  |
| Project Conta   | ct: BRIAN MAYNE                                  | R                                    |   |                 | www.p   | 008kabs.00           | האכ                 |             |                | X ·   | Quote #:            | MAUTHE 100708                                |
| Phone:  | 970/830 -11/1                                    | = ()                                 | ł   | CHA             | λIN     | OF                   | CU                  | STC         | DY             | ,   | Mail To Contact:    | BRIAN WAYNER                                 |
| Project Numb  | er: 1/8// 405/00                                 | 10                                   | A=None  | B=HCL C         | H2SO4   | Preservet            | E=DI Wa             | ter F=Metha | noi G=1        | лаОн  | Mall To Company:    | ADDALAT ASSOCIATES                           |
| Project Name:   | maurue   | ¥1                                   | H=Sodium I  | lisulfate Solut | lon     | I=Sodium             | Thiosulfate         | J=Other     |                |   | Mall To Address:    | ONE SYSTEMS DRIVE                            |
| Project State:  |  |                                      | FILTERED?   |                 | L.      |                      | T                   |             | <u> </u>       |   | -                   | APPLETON, WI 54914                           |
| Sampled By (F   | Print): RRIAN INAVNE                             | .2                                   | PRESERVATIO   | N               | A       | D                    |                     |             | 1              | +   | Invoice To Contact: | BRIDINILLAYNER                               |
| Sampled By (S   | Sign): R. D. Warnen                              | ·/~                                  | (0002)  |                 |         |                      |                     |             | -              | <u>                                      </u> | Invoice To Company: |  |
| PO #:   |  | Regulatory                           |   |                 |         |                      |                     |             |                |   | Invoice To Address: | ONWAL ASSEMATES_                             |
| Data Packag   | ae Options <u>MS/MSD</u>                         | Matr<br>A = Alr                      | ix Codes<br>w = Water                                       |                 | レンヨー    | 1/62                 |                     |             |                |   |                     | SAME   |
|   | Level III (billable)<br>Level IV NOT needed on   | 8 = Blota<br>C = Charcoal<br>O = Oil | DW = Drinking Wate<br>GW = Ground Wate<br>SW = Surface Wate |                 | AVA     | Kor                  |                     |             |                |   | Involce To Phone:   | 920/830-6141                                 |
| PACE LAB #  | CLIENT FIELD ID                                  | S = Soll<br>SI = Sludge<br>COLLE     | WW = Waste Water<br>WP = Wipe<br>CTION MAT                  | A Mua           | HEX     | Ŭ                    |                     |             |                |   | CLIENT<br>COMMENTS  | LAB COMMENTS Profile #                       |
| 01  | DUTED COL  | - Ing                                | 718 (-1   | 1               | V       |                      |                     |             |                |   |                     | 2-75 m PA,D                                  |
|   | OUTPALL OUT                                      |                                      |   |                 |         |                      |                     |             |                |   |                     |  |
|   | ······································           |                                      |   |                 |         | <u>├</u>             |                     |             | ┼───           |   |                     |  |
| <b> </b> +  |  |                                      |   |                 |         |                      |                     |             | 1              |   | •                   |  |
| <b> </b> +  |  |                                      |   |                 |         |                      |                     |             | +              | <u> </u>                                      | · ·                 |  |
|   | <u> </u>   |                                      |   |                 |         | <u>├</u> ──┼         |                     |             |                |   |                     |  |
| <u>├</u>  | · · ·  |                                      |   |                 |         | <u> </u> +           |                     |             |                | ╋╍╍╍╌┠╍╍╍                                     |                     |  |
| +   |  |                                      |   |                 |         |                      |                     |             |                |   |                     |  |
| ┣───┼   |  |                                      |   |                 |         | ┟───┼                |                     |             | +              |   |                     | ·····  |
|   |  |                                      |   |                 |         |                      |                     |             |                |   |                     |  |
|   |  |                                      |   |                 |         | <b>├</b> ───┼        |                     |             |                |   |                     |  |
|   |  |                                      |   |                 |         | <u> </u>             |                     |             |                | <b> </b>                                      |                     |  |
|   |  |                                      |   |                 |         | └──┤-                |                     |             | +              |   |                     |  |
|   | naround Time Requested - Prelis                  |                                      |   |                 |         |                      |                     |             |                |   |                     | PACE Project No                              |
| (Rush Tur   | AT subject to approval/surcharge<br>Date Needed: | rits Relling                         | uished By:  | <u>m</u>        | 3       | Date<br>3 09<br>Date | /Time: '{<br>/Time: | 3.20        | Receiver       | mel   | He 3/3/09 /         | 1:45 4014555                                 |
| Transmit Prelim Rush Results by (complete what you want):   |  |                                      | . milke 3/3/09 13:05  |                 |         |                      |                     | Hora        | elatz 3/3/09 1 | 305 Receipt Temp = RA / °C                    |                     |  |
| Email #1:<br>Email #2:  | · · · · · · · · · · · · · · · · · · ·            | Reiinq                               | ulshed By:  |                 | ( (     | Date                 | /Time:              |             | Receiver       | f By <sup>L/</sup>                            | Date/Time:          | Sample Receipt pH                            |
| Telephone:  |  | . Relinq                             | ulshed By:  |                 |         | Date                 | /Time:              |             | Received       | d By:   | Date/Time:          | OK Adjusted                                  |
| Fax:<br>Sa  | mples on HOLD are subject to                     | Reling                               | uished By:  |                 | · · · · | Date                 | /Time:              |             | Received       | 1 By:   | Date/Time:          | Cooler Custody Seal<br>Present / Not Present |
| special pricing and release of liability Intact / Not Intact / Not Intact / Not Intact / Version 6.0 08/14/06 |  |                                      |   |                 |         |                      |                     |             |                |   |                     |  |

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January 5, 2009

R+R-OSH RECEIVED

JAN 07 2009



Mr. Chris Stempa Deputy Director of Utilities Appleton Wastewater Treatment Facility 2006 East Newberry Street Appleton, WI 54915-2758

# RE: N.W. Mauthe Superfund Site – Appleton, Wisconsin Compliance Report, Industrial User (Wastewater Discharge) Permit # 06-21

# Dear Mr. Stempa:

OMNNI Associates, Inc. is pleased to submit the quarterly process compliance report for the N.W. Mauthe site, 725 Outagamie Street, Appleton, Wisconsin. This report is submitted in accordance with the City of Appleton Industrial User Permit No. 06-21, issued on May 26, 2006.

The flow monitoring and sampling activities were conducted at the effluent discharge point, prior to Outfall 001. Samples were collected by closing the discharge valve (usually one-to-three days prior to sampling) to allow water to collect in the equalization tank. The discharge valve was reopened and the composite sample was collected.

From the sample collected, a new, laboratory provided, plastic 250 ml sample container was filled. This unfiltered, unpreserved sample was analyzed for hexavalent chromium by Pace Analytical Services laboratory. (See laboratory chains of custody and laboratory reports, attached.)

If the monthly total chromium sample was prepared during the sampling event, water from the collected discharge sample was filtered through a 0.45 µm filter and then poured into a new, laboratory provided, plastic 250 ml sample container. The sampling container contained nitric acid as a preservative. The sample was analyzed for total dissolved chromium by Pace Analytical Services laboratory.

After the laboratory samples were prepared, pH was measured with a Hach pH Pocket Pal Tester from the remaining collected discharge sample.

The table below summarizes the total metered discharge readings, pH measurements, and laboratory analysis. Monthly discharge totals were calculated by linear interpolation of the actual meter readings.

|                | OUTFALL 001                         |  |  |                                   |     |   |  |  |  |
|----------------|-------------------------------------|--|--|-----------------------------------|-----|---|--|--|--|
| Date<br>Actual | Date<br>For Linear<br>Interpolation | Metered<br>Discharge<br>Reading<br>(gallons) | Gallons<br>Discharged<br>Between<br>Meter<br>Reading | Monthly<br>Discharge<br>(gallons) | рН  | Hexavalent<br>Chromium<br>Lab<br>Analysis<br>(mg/L)<br>[Local<br>Limit 4.5<br>mg/L] | Total<br>Chromium<br>Lab<br>Analysis<br>(mg/L)<br>[Local<br>Limit 7.0<br>mg/L] |  |  |
| 10/05/08       |                                     | 9,195,280                                    | 3,727  |                                   |     |   |  |  |  |
| 10/07/08       |                                     | 9,195,280                                    | 0  |                                   | 7.7 | 2.2   | 2.000  |  |  |
| 10/07/08       |                                     | 9,196,521                                    | 1,241  |                                   |     |   |  |  |  |
| 10/10/08       |                                     | 9,200,017                                    | 3,496  |                                   |     |   |  |  |  |
| 10/12/08       |                                     | 9,200,017                                    | 0  |                                   |     |   |  |  |  |
| 10/14/08       |                                     | 9,200,017                                    | 0  |                                   | 7.8 | 1.9   |  |  |  |
| 10/16/08       |                                     | 9,204,404                                    | 4,387  |                                   |     |   |  |  |  |
| 10/18/08       |                                     | 9,206,201                                    | 1,797  |                                   |     |   |  |  |  |
| 10/21/08       |                                     | 9,206,201                                    | 0  |                                   | 7.8 |   |  |  |  |
| 10/22/08       |                                     | 9,208,980                                    | 2,779  |                                   |     |   |  |  |  |
| 10/26/08       |                                     | 9,211,601                                    | 2,621  |                                   |     |   |  |  |  |
| 10/28/08       |                                     | 9,211,601                                    | 0  | October                           | 7.9 | 2.0   |  |  |  |
|                | 11/01/08                            | 9,214,938                                    |  | 22,071 -                          |     |   |  |  |  |
| 11/01/08       |                                     | 9,215,379                                    | 3,778  | • '                               |     |   |  |  |  |
| 11/04/08       |                                     | 9,215,379                                    | 0  |                                   | 8.0 | 2.1   | 1.880  |  |  |
| 11/04/08       |                                     | 9,217,467                                    | 2,088  |                                   |     |   |  |  |  |
| 11/07/08       |                                     | 9,219,330                                    | 1,863  |                                   |     |   |  |  |  |
| 11/10/08       |                                     | 9,220,422                                    | 1,092  |                                   |     |   |  |  |  |
| 11/20/08       |                                     | 9,229,031                                    | 8,609  |                                   |     |   |  |  |  |
| 11/24/08       |                                     | 9,231,935                                    | 2,904  |                                   |     |   |  |  |  |
| 11/24/08       |                                     | 9,232,260                                    | 325  |                                   |     |   |  |  |  |
| 11/26/08       |                                     | 9,233,464                                    | 1,204  |                                   |     |   |  |  |  |
| 11/28/08       |                                     | 9,234,926                                    | 1,462  | November                          |     |   |  |  |  |
|                | 12/01/08                            | 9,234,926                                    |  | 19,988                            |     | s. 7*   |  |  |  |
| 12/02/08       |                                     | 9,234,926                                    | 0  |                                   | 8.2 | 2.3   | 2.190  |  |  |
| 12/12/08       |                                     | 9,242,670                                    | 7,744  |                                   |     | •   |  |  |  |
| 12/17/08       |                                     | 9,247,587                                    | 4,917  | December                          |     |   |  |  |  |
|                | 01/01/09                            | 9,266,230                                    |  | 31,304                            |     |   |  |  |  |
| 01/02/09       |                                     | 9,268,140                                    | 20,553   |                                   |     |   |  |  |  |

Italicized metered discharge reading was calculated by linear interpolation.

Industrial User (Wastewater Discharge) Permit 06-21 Outfall 001 Effluent Limitations:

| рН                      | Hexavalent Chromium | Total Chromium |
|-------------------------|---------------------|----------------|
| Between 5.0 – 12.4 s.u. | < 4.5 mg/L          | < 7.0 mg/L     |

There were no exceedances during this reporting period of the Industrial User (Wastewater Discharge) Permit from Outfall 001 based on the monitoring performed. Quarterly compliance report Page 3 of 3

I performed all the sample collection and monitoring<sup>1</sup> during the time period from October 1, 2008 through December 31, 2008. The October 21, 2008 sample was collected, but it was not noticed within the holding time that the laboratory courier had not picked up the sample for analysis. A copy of the email correspondence regarding the October 21<sup>st</sup> sample has been included with laboratory chains of custody and laboratory reports that are attached to this correspondence.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding the information provided, please do not hesitate to contact me.

Sincerely, OMNNI Associates, Inc.

Bin D. Wayner

Brian D. Wayner, P.E. Environmental Manager

Enclosures

cc: Ms. Jennifer Borski, Hydrogeologist/Project Manager, WDNR-Northeast Region RR, 625 E. County Road Y, Suite 700, Oshkosh, WI 54901-9731

<sup>&</sup>lt;sup>1</sup> Brian Wayner is a professional engineer (E35304), has been trained in sample collection and preparation, has obtained his OSHA 40-Hour HAZWOPER Certification, and has completed annual refresher training.



October 10, 2008

RECEIVED OCT 152008 OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409927

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

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## CERTIFICATIONS

### Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 40992

409927

Green Bay Certification IDs Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 83 Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Carolina Certification #: 503 North Dakota Certification #: R-200 North Dakota Certification #: R-150 New York Certification #: 11888 New York Certification #: 11887 Illinois Certification #: 200051 Illinois Certification #: 20050 Florida (NELAP) Certification #: E87951 Florida (NELAP) Certification #: E87948

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# SAMPLE SUMMARY

| Project:          | MAUTHE OUTFALL N1866A05/003 |
|-------------------|-----------------------------|
| Pace Project No.: | 409927                      |

| Lab ID    | Sample ID   | Matrix | Date Collected | Date Received  |
|-----------|-------------|--------|----------------|----------------|
| 409927001 | OUTFALL 001 | Water  | 10/07/08 07:40 | 10/07/08 14:45 |

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# SAMPLE ANALYTE COUNT

Project:MAUTHE OUTFALL N1866A05/003Pace Project No.:409927

| Lab ID    | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|-----------|-------------|-----------------------|----------|----------------------|------------|
| 409927001 | OUTFALL 001 | EPA 6010              | DLB      | 1                    | PASI-G     |
|           |             | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

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### **PROJECT NARRATIVE**

#### Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 409927

### Method: EPA 6010

Description: 6010 MET ICP Client: OMNNI ASSOCIATES, INC. Date: October 10, 2008

#### **General Information:**

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

#### Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

#### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### **Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 10





### **PROJECT NARRATIVE**

Project: MAUTHE OUTFALL N1866A05/003

Pace Project No.: 409927

 Method:
 SM 3500-Cr B (Online)

 Description:
 Chromium, Hexavalent

 Client:
 OMNNI ASSOCIATES, INC.

 Date:
 October 10, 2008

#### General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

| Project: | MAUTHE OUTFALL N1866A05/003 |
|----------|-----------------------------|
|----------|-----------------------------|

Pace Project No.: 409927

| Sample: OUTFALL 001  | Lab ID:       | 409927001                                | Collecte   | d: 10/07/0 | 8 07:40  | Received: 10/  | 07/08 14:45 Ma | atrix: Water |      |
|----------------------|---------------|--|------------|------------|----------|----------------|----------------|--------------|------|
| Parameters           | Results       | Units                                    |            | LOD        | DF       | Prepared       | Analyzed       | CAS No.      | Qual |
| 6010 MET ICP         | Analytical    | Method: EPA                              | 6010 Prepa | aration Me | thod: EP | A 3010         |                |              |      |
| Chromium             | <b>2000</b> u | ıg/L                                     | 5.0        | 1.1        | 1        | 10/08/08 08:35 | 10/08/08 19:53 | 7440-47-3    |      |
| Chromium, Hexavalent | Analytical    | Analytical Method: SM 3500-Cr B (Online) |            |            |          |                |                |              |      |
| Chromium, Hexavalent | <b>2.2</b> n  | ng/L                                     | 0.20       | 0.034      | 10       |                | 10/07/08 15:30 | 18540-29-9   |      |

Date: 10/10/2008 05:22 AM

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## QUALITY CONTROL DATA

| Project:<br>Pace Project No.: | MAUTHE OUTFA<br>409927 | ALL N1866A05/00 | )3     |            |          |            |        |            |           |     |     |      |
|-------------------------------|------------------------|-----------------|--------|------------|----------|------------|--------|------------|-----------|-----|-----|------|
| QC Batch:                     | MPRP/1819              |                 | Analys | is Method  | : E      | EPA 6010   | ····   |            | <u> </u>  |     |     |      |
| QC Batch Method:              | EPA 3010               |                 | Analys | is Descrip | tion: 6  | 6010 MET   |        |            |           |     |     |      |
| Associated Lab Sar            | nples: 4099270         | 01              |        |            |          |            |        |            |           |     |     |      |
| METHOD BLANK:                 | 86300                  |                 |        | Aatrix: Wa | iter     |            |        |            |           |     |     |      |
| Associated Lab Sar            | nples: 4099270         | 01              |        |            |          |            |        |            |           |     |     |      |
|                               |                        |                 | Blank  | R          | eporting |            |        |            |           |     |     |      |
| Paran                         | neter                  | Units           | Resul  | t          | Limit    | Analyz     | ed     | Qualifiers |           |     |     |      |
| Chromium                      |                        | ug/L            |        | <1.1       | 5.0      | 0 10/08/08 | 18:31  |            | _         |     |     |      |
| LABORATORY CO                 | NTROL SAMPLE           | : 86301         |        |            |          |            |        |            |           |     |     |      |
|                               |                        |                 | Spike  | LCS        | 5        | LCS        | % Red  | ;          |           |     |     |      |
| Paran                         | neter                  | Units           | Conc.  | Resu       | ult      | % Rec      | Limits | Qı         | ualifiers | _   |     |      |
| Chromium                      |                        | ug/L            | 500    |            | 504      | 101        | 80     | -120       |           |     |     |      |
| MATRIX SPIKE & N              | ATRIX SPIKE DU         | UPLICATE: 8635  | 53     | <u></u>    | 86354    |            |        |            |           |     |     |      |
|                               |                        | ·               | MS     | MSD        |          |            |        |            |           |     |     |      |
|                               |                        | 409906014       | Spike  | Spike      | MS       | MSD        | MS     | MSD        | % Rec     |     | Max |      |
| Paramet                       | er l                   | Units Result    | Conc.  | Conc.      | Result   | Result     | % Rec  | % Rec      | Limits    | RPD | RPD | Qual |
| Chromium                      | ug/l                   | L <1.1          | 500    | 500        | 497      | 506        | 99     | 101        | 75-125    | 2   | 20  |      |

Date: 10/10/2008 05:22 AM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | MAUTHE OUTFA    | LL N1866A05/003 |            |               |              |                 |  |   |
|--------------------|-----------------|-----------------|------------|---------------|--------------|-----------------|--|---|
|                    | 409927          |                 | <u></u>    |               |              |                 |  |   |
| QC Batch:          | WETA/2496       |                 | Analysis M | lethod:       | SM 3500-Cr B | (Online)        |  |   |
| QC Batch Method:   | SM 3500-Cr B (  | Online)         | Analysis D | escription: ( | Chromium, He | xavalent by 350 | D0   |   |
| Associated Lab San | nples: 40992700 | )1              |            |               |              |                 |  |   |
| METHOD BLANK:      | 86868           | ·····           | Matri      | x: Water      |              | <u> </u>        | ····· · <u>·</u> ····························· |   |
| Associated Lab San | nples: 40992700 | )1              |            |               |              |                 |  |   |
|                    |                 |                 | Blank      | Reporting     |              |                 |  |   |
| Param              | neter           | Units           | Result     | Limit         | Analyze      | d Qualit        | fiers  | , |
| Chromium, Hexava   | lent            | mg/L            | <0.0034    | 0.020         | 0 10/07/08 1 | 5:30            |  |   |
| LABORATORY CO      | NTROL SAMPLE:   | 86869           |            |               | · .          |                 |  |   |
|                    |                 |                 | Spike      | LCS           | LCS          | % Rec           |  |   |
| Param              | neter           | Units           | Conc.      | Result        | % Rec        | Limits          | Qualifiers                                     |   |
| Chromium, Hexava   | lent            | mg/L            | .3         | 0.29          | 98           | 90-110          |  |   |

Date: 10/10/2008 05:22 AM

# **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

Project: MAUTHE OUTFALL N1866A05/003 Pace Project No.: 409927

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 10/10/2008 05:22 AM

## **REPORT OF LABORATORY ANALYSIS**

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| S   | ample Conditie                        | n Unon Receipt               |   |
|---|---------------------------------------|------------------------------|---|
| · · · · · · · · · · · · · · · · · · ·                   | Ball                                  | als & Acres                  | Drainat # UNDA 77                           |
| í Cient Nan   | ie. <u>Umpr</u>                       | V/ E 14530C-                 | Project # <u>10112 T</u>                    |
| Courier: Fed Ex UPS USPS                                |                                       | 1 Pace Other                 | Canocilla                                   |
| Tracking #:   |                                       |                              | Profediate Provide a state                  |
| Custody Seal on Cooler/Box Present:                     | ≥s Ø no Şea                           | ls intact: 🗌 yes 📋           | ] no  |
| Packing Material: 📋 Bubble Wrap 🛛 🕅 Bubl                | ble Bags None                         | Other                        |   |
| Thermometer Used NA                                     | Type of Ice: We                       | Blue None                    | ] Samples on ice, cooling process has begun |
| Cooler Temperature                                      | Biological Tissu                      | e is Frozen: Yes No          | Date and Initials of person examining       |
| Temp should be above freezing to 6°C                    |                                       | Comments:                    | contents:                                   |
| Chain of Custody Present:                               |                                       | A 1.                         |   |
| Chain of Custody Filled Out:                            |                                       | A 2.                         |   |
| Chain of Custody Relinquished:                          |                                       | A 3.                         |   |
| Sampler Name & Signature on COC:                        |                                       | 4.                           |   |
| Samples Arrived within Hold Time:                       | DYes DNO DNA                          | 5.                           |   |
| Short Hold Time Analysis (<72hr):                       | . Ores ONO ONA                        | 6. Hep chron                 | Ne  |
| Rush Turn Around Time Requested:                        |                                       | 7.                           |   |
| Sufficient Volume:                                      | DYes DNO DINVA                        | 8.                           |   |
| Correct Containers Used:                                | DYes ONO ONVA                         | 9.                           | · · · · · · · · · · · · · · · · · · ·       |
| -Pace Containers Used:                                  | DYes DNO DNVA                         | ·                            |   |
| Containers Intact:                                      |                                       | 10.                          |   |
| Filtered volume received for Dissolved tests            | QYes QNO DINA                         | 11.                          |   |
| Sample Labels match COC:                                | Dives ONO ONVA                        | 12.                          |   |
| -Includes date/time/ID/Analysis Matrix:                 | <u> </u>                              |                              | ·   |
| All containers needing preservation have been checked.  | Pres Ono Ona                          | 13.                          |   |
| All containers needing preservation are found to be in  | PIYAS TINA TINA                       |                              |   |
| compliance with EPA recommendation.                     |                                       |                              | li sch stadad                               |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)     | CYes CNo                              | completed                    | preservative                                |
| Samples checked for dechlorination:                     | UYes UNO DINA                         | 14.                          |   |
| Headspace in VOA Vials ( >6mm):                         | OYes ONO DINA                         | 15.                          | · · · · · · · · · · · · · · · · · · ·       |
| Trip Blank Present:                                     | Oyes DNO ONA                          | 16.                          | · · · · · ·                                 |
| Trip Blank Custody Seals Present                        | OYes ONo ON/A                         | · · ·                        |   |
| Pace Trip Blank Lot # (if purchased):                   | ·                                     |                              | · · ·                                       |
| Client Notification/ Resolution.                        |                                       |                              | Ead Data Required? Y / N                    |
| Person Contacted:                                       | Data                                  | Timo:                        |   |
| Comments/ Resolution:                                   |                                       |                              |   |
|   | · · · · · · · · · · · · · · · · · · · |                              |   |
|   | · · · · · · · · · · · · · · · · · · · | •                            |   |
|   |                                       |                              |   |
|   |                                       |                              |   |
|   |                                       | ·                            |   |
| Project Manager Review:                                 |                                       |                              | Date: $10/7/()$                             |
|   |                                       |                              |   |
| ote: Whenever there is a discrepancy affecting North Ca | amlina compliance sam                 | nies a conv of this form wil | the sent to the North Carolina DEHNR        |

ote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR ertification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

.

| (Please Print Clearly)                                    |  |   | UPPER MIDWEST REGION              | Page 1 of   |
|---|--|---|-----------------------------------|---|
| Company Name: DMANAL ASMALATES                            |  |   | MN: 612-607-1700 WI: 920-469-2436 |   |
| Branch/Location: ADDIETON                                 | Pace An                                | alytical °  |                                   |   |
| Project Contact: 12,11,00 WALMER                          |  | paceilaus.com                                     | Quote #:                          | Mauthe  |
| Phone: 970/830-6141                                       |  | <b>I OF CUSTO</b>                                 | DY Mall To Contact:               | Brian Wountr  |
| Project Number: N1806A051003                              | A=None B=HCL C=H2SO4                   | *Preservation Codes<br>D=HNO3 E=DI Water F=Methan | Mail To Company:                  | Omnni associates                                    |
| Project Name: Mauthe                                      | H=Sodium Bisulfate Solution            | I=Sodium Thiosulfate J=Other                      | Mail To Address:                  | one systems Drive                                   |
| Project State: N/L  | FILTERED?                              | R   |                                   | Appleton, WI 51914                                  |
| Sampled By (Print): Prinn Waner                           | PRESERVATION PRESERVATION              | D   | Invoice To Contact:               | BrianWayner   |
| Sampled By (Sign): B. D. Wanner                           |  |   | Invoice To Company:               | Omnni ASSOCIATO                                     |
| PO #: Regulate<br>Program                                 | ory<br>m:                              | 14 D  | Invoice To Address:               | SAMP  |
| (billable) MS/MSD   | Matrix Codes                           | 2   |                                   |   |
| EPA Level III (billable) C = Chroco                       | DW = Drinking Water                    |   | Invoice To Phone:                 |   |
|   | WW = Waste Water<br>WP = Wipe          | T I I I   | CLIENT                            | LAB COMMENTS Profile #                              |
| PACE LAB # CLIENT FIELD ID                                |  |   | COMMENTS                          | (Lab Use Only)                                      |
| <u>201</u> <u>011001</u> <u>171</u>                       | 08 Tima GIV X                          |   | 2-250mc                           |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  | <u> </u>  | <u> </u>                          |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
|   |  |   |                                   |   |
| Rush Turnaround Time Requested - Prelims                  | Relinquished By:                       | Date/Time:  | Received By                       | PACE Project No.                                    |
| Date Needed:  | Relinguisting By                       | Date/Time:  | Received By / DaterTime:          |   |
| Transmit Prelim Rush Results by (complete what you want): | 18 Kempen                              | 17/08 1445  | 18/7/58                           | 1445 Receipt Temp = R O I °C                        |
| Email #2:   |  | * Date/Time:                                      | Received By: / Date/Time:         | Sample Receipt pH                                   |
| Telephone:  | Relinquished By:                       | Date/Time:  | Received By: Date/Time:           | OK / Adjusted                                       |
| Fax:<br>Samples on HOLD are subject to                    | Relinquished By:                       | Date/Time:  | Received By: Deta/Time:           | <u>Cooler Custody Seal</u><br>Present / Not Present |
| special pricing and release of liability                  | ······································ |   |                                   | Intact / Not Intact                                 |



Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

October 15, 2008

RECEIVED OCT 2 0 2008

OMNNI ASSOCIATES

**Brian Wayner** Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A051003 MAUTHE Pace Project No.: 4010227

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on October 14, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com **Project Manager** 

Enclosures

## **REPORT OF LABORATORY ANALYSIS**

Page 1 of 8





### CERTIFICATIONS

Project: N1866A051003 MAUTHE

Pace Project No.:

4010227

**Green Bay Certification IDs** Louisiana Certification #: 04169 Louisiana Certification #: 04168 Louisiana Certification #: 04 100 Kentucky Certification #: 83 Kentucky Certification #: 82 Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Carolina Certification #: 503 North Dakota Certification #: R-200 North Dakota Certification #: R-150 New York Certification #: 11888 New York Certification #: 11887 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87951 Florida (NELAP) Certification #: E87948

### **REPORT OF LABORATORY ANALYSIS**

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Page 2 of 8



# SAMPLE SUMMARY

| Project:<br>Pace Project N | N1866A051003 MAUTHE |        |                |                |  |
|----------------------------|---------------------|--------|----------------|----------------|--|
| Lab ID                     | Sample ID           | Matrix | Date Collected | Date Received  | ······································ |
| 4010227001                 | OUTFALL 001         | Water  | 10/14/08 07:00 | 10/14/08 11:10 |  |

# **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE ANALYTE COUNT

| Project:          | N1866A051003 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4010227             |

| Lab ID     | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|------------|-------------|-----------------------|----------|----------------------|------------|
| 4010227001 | OUTFALL 001 | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

## **REPORT OF LABORATORY ANALYSIS**





## **PROJECT NARRATIVE**

Project: N1866A051003 MAUTHE

Pace Project No.: 4010227

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:October 15, 2008

#### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### **Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### **Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

# **REPORT OF LABORATORY ANALYSIS**

Page 5 of 8





# ANALYTICAL RESULTS

Project: N1866A051003 MAUTHE

Pace Project No.: 4010227

| Sample: OUTFALL 001  | Lab ID:      | 4010227001     | Collecte    | d: 10/14/0 | 3 07:00 | Received: 1 | 0/14/08 11:10 | Matrix: Water |      |
|----------------------|--------------|----------------|-------------|------------|---------|-------------|---------------|---------------|------|
| Parameters           | Results      | Units          | LOQ         | LOD        | DF      | Prepared    | Analyzed      | CAS No.       | Qual |
| Chromium, Hexavalent | Analytica    | I Method: SM 3 | 500-Cr B (( | Online)    |         |             |               |               |      |
| Chromium, Hexavalent | <b>1.9</b> r | ng/L           | 0.25        | 0.042      | 12.5    |             | 10/14/08 16:3 | 80 18540-29-9 |      |

Date: 10/15/2008 05:14 PM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A0  | 051003 MAUTH    | E         |                       |            |           |             |            |            |           |     |          |      |
|--------------------|----------|-----------------|-----------|-----------------------|------------|-----------|-------------|------------|------------|-----------|-----|----------|------|
| Pace Project No.:  | 4010227  |                 |           |                       |            |           |             |            |            |           |     |          |      |
| QC Batch:          | WETA/    | 2531            |           | Analys                | sis Method | l: 5      | SM 3500-Cr  | B (Online) | ·          |           |     |          |      |
| QC Batch Method:   | SM 350   | 0-Cr B (Online) |           | Analysis Description: |            |           | Chromium, H | lexavalent |            |           |     |          |      |
| Associated Lab San | nples: 4 | 010227001       |           |                       |            |           |             |            |            |           |     |          |      |
| METHOD BLANK:      | 89050    |                 |           | 1                     | Matrix: Wa | ater      |             |            |            |           |     |          |      |
| Associated Lab San | nples: 4 | 010227001       |           |                       |            |           |             |            |            |           |     |          |      |
|                    |          |                 |           | Blan                  | K R        | Reporting |             |            |            |           |     |          |      |
| Param              | neter    |                 | Units     | Resu                  | lt         | Limit     | Analyz      | :ed        | Qualifiers |           |     |          |      |
| Chromium, Hexaval  | lent     | mg/L            |           | <0.                   | 0034       | 0.020     | 0 10/14/08  | 16:30      |            |           |     |          |      |
| LABORATORY CO      |          | AMPLE: "89051   | 1         |                       |            |           |             |            |            |           |     |          |      |
|                    |          |                 |           | Spike                 | LCS        | 5         | LCS         | % Red      | 5          |           |     |          |      |
| Param              | neter    |                 | Units     | Conc.                 | Resu       | ult       | % Rec       | Limits     | G QI       | ualifiers |     |          |      |
| Chromium, Hexaval  | lent     | mg/L            |           | .3                    |            | 0.31      | 103         | 90         | -110       |           | -   |          |      |
| MATRIX SPIKE & M   | ATRIX S  | PIKE DUPLICA    | TE: 89052 |                       |            | 89053     |             |            |            |           |     | <u> </u> |      |
|                    |          |                 |           | MS                    | MSD        |           |             |            |            |           |     |          |      |
|                    |          | 40              | 10227001  | Spike                 | Spike      | MS        | MSD         | MS         | MSD        | % Rec     |     | Max      |      |
| Paramet            | er       | Units           | Result    | Conc.                 | Conc.      | Result    | Result      | % Rec      | % Rec      | Limits    | RPD | RPD      | Qual |
| Chromium, Hexaval  | lent     | mg/L            | 1.9       | 3.8                   | 3.8        | 5.8       | 5.6         | 104        | 100        | 90-110    | 2   | 20       |      |

Date: 10/15/2008 05:14 PM

## **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

| Proiect: | N1866A051003 MAUTHE |
|----------|---------------------|
|          |                     |

Pace Project No.: 401022

DEFINITIONS

5

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 10/15/2008 05:14 PM

### **REPORT OF LABORATORY ANALYSIS**

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| STO STO  |          |             | R.O.          |                  |  |
|--|----------|-------------|---------------|------------------|--|
| Pace Analytical Oligent Norma                          | AD       |             | mahi          | Acon             | Drainat # 1-1010227                                |
|  |          | A D         | <b>WUU</b>    | ISEC.            | Project # -1010221                                 |
| Courier: Fed Ex UPS USPS Clien                         | t 🗌 c    | omm         | ercial        | Pace Other       | WAHLD COMONAL AND A COMMENT                        |
| Tracking #:  | 0        |             |               |                  | Proj. Chalipate                                    |
| Custody Seal on Cooler/Box Present: yes                | ΪΔ n     | 0           | Seals         | intact: 🗌 yes    | no   |
| Packing Material: Bubble Wrap Bubble                   | Bags     | <u>Z</u> n  | lone          | Other            |  |
| Thermometer Used <u>NA</u>                             | Туре с   | of Ice:     | Wet           | Blue None        | Samples on ice, cooling process has begun          |
| Cooler Temperature                                     | Biolog   | ical 1      | <b>Fissue</b> | is Frozen: Yes N | Date and Initials of person examining<br>contents: |
| Temp should be above freezing to 6°C                   |          |             |               | Comments:        |  |
| Chain of Custody Present:                              | Yes      |             |               | 1.               | · · · · · · · · · · · · · · · · · · ·              |
| Chain of Custody Filled Out:                           | Yes      |             | ⊡n/a          | 2.               |  |
| Chain of Custody Relinquished:                         | Yes      |             | □n/a          | 3.               |  |
| Sampler Name & Signature on COC:                       | Dyes     |             |               | 4.               |  |
| Samples Arrived within Hold Time:                      | QYes_    |             | N/A           | 5.               |  |
| Short Hold Time Analysis (<72hr):                      | Dyes     | KINJ        |               | 6. hexchron      | U  |
| Rush Turn Around Time Requested:                       | □Yes     | DIND        |               | 7.               |  |
| Sufficient Volume:                                     | Yes      |             | ⊡n/a          | 8.               |  |
| Correct Containers Used:                               | ayes     |             | ⊡n/a          | 9.               |  |
| -Pace Containers Used:                                 | Ayes     |             |               |                  | /  |
| Containers Intact:                                     | Dyes     |             |               | 10.              |  |
| Filtered volume received for Dissolved tests           | <br>□Yes |             | QN/A          | 11.              | ı <sup>t</sup>                                     |
| Sample Labels match COC:                               | Yes      |             |               | 12.              | ·  |
| -Includes date/time/ID/Analysis Matrix:                | /        |             |               |                  |  |
| All containers needing preservation have been checked. | ⊡Yes     |             |               | 13.              |  |
| At containers needing preservation are found to be in  |          |             | HINKA         |                  |  |
| Bompliance with EPA recommendation.                    | L, 63    |             |               |                  | Lat the food and                                   |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)    | □Yes     | <b>□</b> No | ·             | completed        | preservative                                       |
| Samples checked for dechlorination:                    | □Yes     | <b>□</b> No | DINIA         | 14.              |  |
| Headspace in VOA Vials ( >6mm):                        | □Yes     |             | <b>NIA</b>    | 15.              |  |
| Trip Blank Present:                                    | □Yes     |             |               | 16.              |  |
| Trip Blank Custody Seals Present                       | □Yes     | □No         | DINKA         |                  |  |
| Pace Trip Blank Lot # (if purchased):                  |          |             |               |                  |  |
| Client Notification/ Resolution:                       |          |             |               |                  | Field Data Required? Y / N                         |
| Person Contacted:                                      |          |             | Date/         | Time:            |  |
| Comments/ Resolution:                                  |          |             | -             |                  | <u> </u>   |
|  |          |             |               |                  |  |
|  |          |             |               |                  |  |
|  |          |             |               |                  | · · · · · · · · · · · · · · · · · · ·              |
|  |          |             |               |                  |  |
|  |          |             | <u>.</u>      | ·····            |  |
| Project Manager Review:                                |          |             |               |                  | Date: / /// /////                                  |
|  |          |             |               | - <u></u> .      |  |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

| ·····                     | (Please Print Clearly)   |                         | ]                         |                            | <b>^</b>           |               |            |                     |                    | UPPE     | R MIDW   | EST R     | EGION                                 |          | Page 1                   | of 丨            |
|---------------------------|--|-------------------------|---------------------------|----------------------------|--------------------|---------------|------------|---------------------|--------------------|----------|----------|-----------|---------------------------------------|----------|--------------------------|-----------------|
| Company Na                | me: OmniASA  | ATPS                    | 1                         | ø                          |                    |               |            |                     |                    | MN: 6    | 12-607-  | -1700     | WI: 920-469-2436                      | · · ·    |                          |                 |
| Branch/Loca               | tion: Ampleton   |                         | 1,                        |                            | Pace Ana           | lytic         | cal °      |                     |                    |          |          |           |                                       |          |                          |                 |
| <sup>2</sup> roject Conta | act: $12 right 1000$   | INPV                    | 1 /                       |                            | www.p              | acelabs.      | .0017      |                     |                    |          |          |           | Quote #:                              | Mai      | ithe                     |                 |
| hone:                     | Q111830-6  | $\frac{1}{10}$          |                           | C                          | ΗΔΙΝ               | OF            | E C        | us.                 | ТО                 | DY       |          |           | Mail To Contact:                      | PSVIII   | nInni                    | HK              |
| Project Numb              | $\frac{72078000}{1207867}$   | 603                     |                           |                            |                    | Preserv       | ration Cod | 102                 |                    |          |          |           | Mail To Company:                      | Omni     | ASSAC                    | intes           |
| Project Name              | mauthe   |                         | A=No<br>H=Se              | one B≖⊦<br>odlum Bisu!     | HCL C=H2SO4        | I=Sodiu       | m Thiosul  | vvater F<br>fate J= | -=Methar<br>=Other | 101 G=N  |          |           | Mail To Address:                      | ONP SUS  | stens                    | Drive           |
| Project State             | · In IT  |                         | FILTE                     | RED?                       | Sup A/             | 1             |            |                     |                    | 1        | [        |           |                                       | Appleto  | on, WI                   | 5A919           |
| ampled By (               | (Brint): Runia DIA   | NODIC                   | PRESER                    | 5/NO)<br>RVATION           | ares A             |               | 1          | <u> </u>            |                    |          |          |           | Invoice To Contact:                   | Brinn    | INNIN                    | rr              |
| ampled By (               | (Sign):  | <u>. Griev</u>          | (CO                       | DE)*                       |                    |               |            |                     |                    |          |          |           | Invoice To Company:                   | Oppinin  | ASPO                     | rintes.         |
|                           | (orgin). Bill Ways   | Regulatory              | ļ                         |                            | Ê.                 |               |            |                     |                    |          |          |           |                                       |          | //////                   | $J(\Lambda(C))$ |
| Data Packa                | age Options MS/MSD   | Program:<br>Mat         | rix Code                  | 8                          | turi<br>turi       |               |            |                     |                    |          |          |           | Invoice To Address;                   | 5        | ame                      |                 |
|                           | able) On your sample   | A = Air<br>B = Blota    | W = Water<br>DW = Drinki  | ing Water                  | 980<br>710<br>2710 |               |            |                     |                    | 1        |          |           |                                       |          | $\rightarrow$            |                 |
|                           | A Level III (billable)<br>A Level IV NOT needed on                       | C = Charcoal<br>O = Oil | GW = Groun<br>SW = Surfac | nd Water<br>ce Water       | 201                | 1             |            |                     |                    |          |          | ł         | Invoice To Phone:                     | <b> </b> | ۰<br>                    |                 |
| PACE LAB #                | your sample  | SI = Studge             | WP = Wipe<br>ECTION       |                            | And<br>KOH         |               |            |                     |                    |          |          |           | CLIENT<br>COMMENTS                    | LAB COM  | MENTS<br>e Only)         | Profile #       |
| 100                       | TUTFAILONT   |                         | TIME                      | BINI                       | Х                  |               | 1          |                     |                    | +        | <u> </u> |           | 1-250 MA                              |          |                          | L               |
|                           |  | ////00                  | 1.00                      |                            |                    | +             | +          |                     |                    | +        |          |           |                                       |          |                          | <u></u>         |
|                           | · · · · · · · · · · · · · · · · · · ·                                    |                         |                           | 1:                         |                    |               |            |                     |                    | <u> </u> |          |           | · · · · · · · · · · · · · · · · · · · |          |                          |                 |
|                           |  |                         | <u> </u>                  | <u> </u>                   |                    | <u> </u>      |            |                     |                    |          |          |           | <u> </u>                              | <u></u>  |                          |                 |
|                           |  |                         | <u> </u>                  | +                          |                    |               |            |                     |                    |          |          |           |                                       |          |                          |                 |
|                           |  |                         |                           | +                          |                    | <del> </del>  |            |                     |                    |          |          |           |                                       |          |                          |                 |
|                           | · · · · · · · · · · · · · · · · · · ·                                    |                         |                           |                            |                    |               |            |                     |                    |          |          |           |                                       |          | , .                      |                 |
|                           | · · · · · · · · · · · · · · · · · · ·                                    |                         |                           |                            | -                  |               |            |                     |                    |          |          | <u> </u>  |                                       | <u> </u> |                          |                 |
|                           |  |                         |                           | +                          |                    |               | +          |                     |                    |          |          |           |                                       |          |                          |                 |
|                           |  |                         |                           |                            |                    | <u> </u>      |            |                     |                    |          |          |           | ,<br>                                 |          |                          |                 |
|                           | · · · · · · · · · · · · · · · · · · ·                                    |                         | <b> </b>                  |                            |                    | <u> </u>      |            |                     |                    | ╂        |          |           |                                       | <u> </u> |                          | ·               |
|                           |  |                         |                           |                            |                    | <u> </u>      | ╂          |                     | <u> </u>           | +        |          |           |                                       |          | <u> </u>                 |                 |
|                           |  |                         |                           |                            |                    |               | +          |                     |                    |          | <b></b>  |           |                                       |          | <del></del>              |                 |
| Rush Tu                   | Irnaround Time Requested - Pre   | lims leave              | uished Br-                | <u> </u>                   | 1                  | Ļ             |            |                     |                    | Bert     |          | I         |                                       | <u> </u> | PACE Pm                  | lect No.        |
| (Rush 1                   | TAT subject to approval/surchar  | ge)                     | 2-2                       | Warpo                      | m /                | 1/14/0        |            | 7:450               | <u></u>            | Å.       | N        | Uel       | K 16/14/08 C                          | 8:25     |                          | 777             |
| Transmit Pro              | Date Needed:   | Relin                   | guished By:               | $\tilde{\mathcal{N}}_{In}$ | P.L.               | D:<br>1 - 141 | ate/Time:  | 110                 | 00                 | Receive  | 1000     | RI        | IAM DATE/TIME:                        |          | 7010                     | LL              |
| mall #1:                  | Sint reast reading by (complete what yo                                  | Relin                   | quished By:               |                            | 10 10              | <u> </u>      | ate/Time:  | 11.1                | ~                  | Received | d By: /  |           | Date/Time:                            |          | ceipt Temp =             | ≥0) °°          |
| mail #2:                  |  |                         |                           |                            |                    |               |            |                     |                    | <b> </b> | <u> </u> |           | <u> </u>                              |          | Sample Ro                | celpt pH        |
| alephone:                 | · · · · · · · · · · · · · · · · · · ·                                    | Relin                   | quished By:               |                            |                    | Đ             | ate/Time:  |                     |                    | Received | d By:    |           | Date/Time:                            | · · · ·  | OK / Ad                  | justed 111      |
| S<br>S                    | Samples on HOLD are subject to<br>ecial pricing and release of liability | Relin                   | quished By:               | · .                        | <u> </u>           | D             | ate/Time:  |                     |                    | Received | d By:    | <u></u> , | Date/Time:                            |          | Cooler Cue<br>Present/ N | tody Shal       |
| 2000                      |  |                         |                           |                            |                    |               |            |                     |                    | L        |          |           |                                       | Ł        | 11112151 / PU            |                 |

## **Brian Wayner**

To:Chris StempaSubject:RE: FW: Mauthe Samples

The weighted average from the Hach kit test was 1.4 mg/L. The gallons pumped from each manhole were typical of recent events. The concentrations from each manhole sample were also typical of recent events.

The lab verified that they received yesterday's sample. I should have the result by the end of this week, which I will forward to you.

Brian Wayner OMNNI Associates

-----Original Message-----From: Chris Stempa [mailto:Chris.Stempa@appleton.org] Sent: Tuesday, October 28, 2008 4:39 PM To: Brian Wayner Subject: Re: FW: Mauthe Samples

Brian,

Thank your for the notification. I do not need anything else at this time. What was your Hach/field test value for that day?

Thank you,

Chris Stempa Pretreatment and Biosolids Coordinator Phone: 920 832-2353 Fax: 920 832-5949 email: chris.stempa@appleton.org

>>> "Brian Wayner" <<u>Brian.Wayner@omnni.com</u>> 10/28/2008 9:20 AM >>>
Chris,

When I placed the Mauthe sample in the our sampling refrigerator today, I found last week's sample still there. Since the sample is beyond the 24 hour hold time, we are not going to have it analyzed. Because we are not providing data for the October 21st sampling event, I assume we are in violation of our permit. Is there anything in addition to this notification that you need from me?

Brian Wayner OMNNI Associates

-----Original Message-----From: Steve Mleczko [mailto:Steve.Mleczko@pacelabs.com] Sent: Tuesday, October 28, 2008 8:07 AM To: Brian Wayner Subject: Re: Mauthe Samples

Good morning Brian. I apologize for the error in the courier service.

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I was on vacation last week and apparently our Sample Receiving manager forgot to remind the courier to stop. Please let me know what we can do to remedy the situation. Steve

Steve Mleczko Project Manager Hazardous Waste Coordinator Pace Analytical Services, Inc. Green Bay Laboratory (920) 321-9460 Direct Dial (920) 469-2436 Ext. 460 Steve.Mleczko@pacelabs.com

Effective January 1, 2009 Pace Green Bay is going to a paperless reporting system. Reports will be available via email or on-line through Pace Port. If you have not registered for Pace Port, Pace's on-line report and EDD generation system, please contact your Project Manager or Sales Representative for details.

>>>-"Brian Wayner" <Brian.Wayner@omnni.com> 10/28/2008 7:26 AM >>>
- Steve;

I went to put the Mauthe sample in the sampling refrigerator today and found last week's sample still there. Is the courier coming today??

Brian Wayner, P.E. Environmental Manager

OMNNI Associates, Inc.

One N. Systems Drive, Appleton, WI 54914-1654

800.571.6677, 920.830-6141 (D), 920.830-6100 (F)

bwayner@omnni.com

This email has been scanned by the MessageLabs Email Security System. For more information please visit <u>http://www.messagelabs.com/email</u>

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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

October 29, 2008

RECEIVED NOV 0.3 2008

OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

# RE: Project: N1866A051003 MAUTHE Pace Project No.: 4010802

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: N1866A051003 MAUTHE

Pace Project No.: 4010802

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Green Bay Certification IDs Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Carolina Certification #: 503 North Dakota Certification #: R-200 North Dakota Certification #: R-200 New York Certification #: 11888 New York Certification #: 11887 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87951 Florida (NELAP) Certification #: E87948

### **REPORT OF LABORATORY ANALYSIS**

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# SAMPLE SUMMARY

| Project:          | N1866A051003 MAUTHE |
|-------------------|---------------------|
| Pace Project No.: | 4010802             |

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 4010802001 | OUTFALL 001 | Water  | 10/28/08 06:37 | 10/28/08 15:25 |

## **REPORT OF LABORATORY ANALYSIS**



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## SAMPLE ANALYTE COUNT

Project: N1866A051003 MAUTHE

Pace Project No.: 4010802

| Lab ID     | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|------------|-------------|-----------------------|----------|----------------------|------------|
| 4010802001 | OUTFALL 001 | SM 3500-Cr B (Online) | DEY      | 1                    | PASI-G     |

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A051003 MAUTHE

Pace Project No.: 4010802

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:October 29, 2008

#### General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

#### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### **Method Blank:**

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### QC Batch: WETA/2647

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010762001

M0: Matrix spike recovery was outside laboratory control limits.

• MS (Lab ID: 95305)

- Chromium, Hexavalent
- MSD (Lab ID: 95306)
  - · Chromium, Hexavalent

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

#### **Additional Comments:**

This data package has been reviewed for guality and completeness and is approved for release.

### REPORT OF LABORATORY ANALYSIS

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# ANALYTICAL RESULTS

Project: N1866A051003 MAUTHE

Pace Project No.: 4010802

| Sample: OUTFALL 001  | Lab ID:      | 4010802001     | Collecte    | d: 10/28/0 | 8 06:37 | Received: | 10/28/08 15:25 | Matrix: Water |      |
|----------------------|--------------|----------------|-------------|------------|---------|-----------|----------------|---------------|------|
| Parameters           | Results      | Units          | LOQ         | LOD        | DF      | Prepared  | Analyzed       | CAS No.       | Qual |
| Chromium, Hexavalent | Analytica    | I Method: SM 3 | 500-Cr B (0 | Online)    |         |           |                |               |      |
| Chromium, Hexavalent | <b>2.0</b> r | mg/L           | 0.20        | 0.034      | 10      |           | 10/28/08 16:   | 10 18540-29-9 |      |

Date: 10/29/2008 04:53 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 6 of 8





## QUALITY CONTROL DATA

| Pace Project No.: 4010802                    |               |              |             |            |            |          |     |     |      |
|--|---------------|--------------|-------------|------------|------------|----------|-----|-----|------|
| QC Batch <sup>·</sup> WETA/2647 A            |               |              |             |            |            |          |     |     |      |
|  | Analysis Meth | iod: SI      | M 3500-Cr E | (Online)   |            |          |     |     |      |
| QC Batch Method: SM 3500-Cr B (Online) A     | Analysis Desc | cription: Cl | hromium, H  | exavalenti | by 3500    |          |     |     |      |
| Associated Lab Samples: 4010802001           |               |              |             |            |            |          |     |     |      |
| METHOD BLANK: 95303                          | Matrix: V     | Nater        |             |            |            |          |     |     |      |
| Associated Lab Samples: 4010802001           |               |              |             |            |            |          |     |     |      |
| E  | Blank         | Reporting    |             |            | o          |          |     |     |      |
|  |               | Limit        | Analyz      | ea         | Qualifiers | _        |     |     |      |
| Chromium, Hexavalent mg/L                    | <0.0034       | 0.020        | 10/28/08 1  | 1:00       |            |          |     |     |      |
|  |               |              |             |            | -,         |          | •   |     |      |
| LABORATORY CONTROL SAMPLE: 95304             |               | <u></u>      | 1.00        | 04 D       |            |          |     |     |      |
| Spi<br>Parameter Units Coi                   | onc. Re       | esult        | % Rec       | Limits     | ;<br>Qu    | alifiers |     |     |      |
| Chromium, Hexavalent mg/L                    | .3            | 0.31         | 104         | 90         | -110       |          | •   |     |      |
| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95305 | <u> </u>      | 95306        |             |            | <u> </u>   |          |     |     |      |
| MS   | 6 MSD         |              |             |            |            |          |     |     |      |
| 4010762001 Spike                             | ke Spike      | MS           | MSD         | MS         | MSD        | % Rec    |     | Max |      |
| Parameter Units Result Conc                  | c. Conc.      | Result       | Result      | % Rec      | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium, Hexavalent mg/L <0.0034            | .3            | .3 <0.0034   | <0.0034     | 0          | 0          | 90-110   |     | 20  | M0   |

Date: 10/29/2008 04:53 PM

## **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

Project: N1866A051003 MAUTHE

Pace Project No.: 4010802

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

#### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

Date: 10/29/2008 04:53 PM

### **REPORT OF LABORATORY ANALYSIS**

Page 8 of 8



| San   | nple Condi    | ition     | Upon Receipt                   |   |
|---|---------------|-----------|--------------------------------|---|
| Face Analytical Client Name:  | Omni          | As        | <del>SOC.</del>                | Project # 4010802   |
| Courier: Fed Ex UPS USPS Clien  | t Comme       | rcial     | Pace Other                     | Optional<br>Righ Duc Dates                                  |
| Custody Seal on Cooler/Box Present: Use   | no T          | Seals     | intact: 🗌 yes 🗌                | no  |
| Packing Material: Bubble Wrap Bubble  | Bags 📜 No     | one       | Other                          |   |
| Thermometer Used  | Type of Ice:  | Wet       | Blue None                      | Samples on ice, cooling process has begun                   |
| Cooler Temperature 201<br>Temp should be above freezing to 6°C                                | Biological Ti | issue     | is Frozen: Yes No<br>Comments: | Date and Initials of person examining contents: 10 28 08 76 |
| Chain of Custody Present:   | Dyes []No     |           | 1.                             |   |
| Chain of Custody Filled Out:  | Ques DNO      |           | 2.                             |   |
| Chain of Custody Relinquished:  | Dyes DNO      |           | 3.                             |   |
| Sampler Name & Signature on COC:  |               | ⊡n/a      | 4.                             |   |
| Samples Arrived within Hold Time:   | Yes DNO       | □n/a      | 5.                             |   |
| Short Hold Time Analysis (<72hr):   | Yes DNO       |           | 6 Nexchrome                    |   |
| Rush Turn Around Time Requested:  | DYes No       |           | 7.                             |   |
| Sufficient Volume:  | QYes DNo      |           | 8                              |   |
| Correct Containers Used:  | QYes []NO     | □n/a      | 9.                             |   |
| -Pace Containers Used:  | QYes DNo      |           |                                |   |
| Containers Intact:  | Yes DNO       |           | 10.                            |   |
| Filtered volume received for Dissolved tests  |               |           | 11.                            | ,   |
| Sample Labels match COC:  | Yes DNO       | )<br>DN/A | 12                             |   |
| -Includes date/time/ID/Analysis Matrix:   | <u></u>       | -         |                                |   |
| All containers needing preservation have been checked.  | □Yes □No ¶    |           | 13.                            |   |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. | □Yes □No      |           |                                | h and a final data  |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | □Yes □No      |           | completed                      | preservative  |
| Samples checked for dechlorination:   | □Yes □No      |           | 14.                            |   |
| Headspace in VOA Vials ( >6mm):   | □Yes □No      |           | 15.                            |   |
| Trip Blank Present:   | □Yes □No      |           | 16.                            |   |
| Trip Blank Custody Seals Present  | □Yes □No      |           |                                |   |
| Pace Trip Blank Lot # (if purchased):   |               | ``        |                                |   |
| Client Notification/ Resolution:  |               |           |                                | Field Data Required? Y / N                                  |
| Person Contacted:   |               | Date/     | Time:                          |   |
| Comments/ Resolution:   |               |           | - <u></u>                      |   |
| ·   |               |           |                                | · <u>·····</u> ······                                       |
|   |               |           |                                |   |
| · · · · · · · · · · · · · · · · · · ·   | ··            |           |                                |   |
|   |               | · · ·     |                                |   |
|   |               |           |                                | - IN DOLAD  |
| Project Manager Review:   |               |           |                                | $- Date: \frac{1}{10} / C_{\text{I}} / 10$                  |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| (PI                 | ease Print Clearly)               |                                      |   | ~                   | 2                                      |                          |             |                       |           | UPPER    |          | EST RE         | GION                |         | Page 1                                | of 🚺 🚆      |
|---------------------|-----------------------------------|--------------------------------------|---|---------------------|--|--------------------------|-------------|-----------------------|-----------|----------|----------|----------------|---------------------|---------|---------------------------------------|-------------|
| Company Name:       | ()mnni ASSO                       | ciates                               |   | $\mathbf{P}$        | / .                                    |                          |             |                       |           | MN: 6    | 12-607-1 | 700            | WI: 920-469-2436    |         |                                       |             |
| Branch/Location:    | Appleton                          |                                      |   |                     | Pace A                                 | naiyti                   |             |                       |           |          |          |                |                     |         | · · · · · · · · · · · · · · · · · · · |             |
| Project Contact:    | Brian Way                         | rer                                  |   |                     |  | n.p                      |             |                       |           |          | AQ,      |                | Quote #:            | Ma      | uthe                                  |             |
| Phone:              | 920/830-61                        | 41                                   |   | C                   | <b>HAI</b>                             | <u>N O</u>               | FC          | <u>US</u>             | <u>TO</u> | DY       |          |                | Mail To Contact:    | Bric    | an Na                                 | UNC         |
| Project Number:     | N1866A0510                        | 03                                   | A≃No                                      | ne B=)              | HCL C=H2S                              | <u>*Prese</u><br>04 D=HN | O3 E=DI     | <u>les</u><br>Water F | =Methan   | ol G≃N   | аОН      |                | Mail To Company:    | OMM     | niAsso                                | ciates      |
| Project Name:       | mauthe                            |                                      | H=So                                      | dium Bisul          | fate Solution ,                        | 1=Sod                    | ium Thiosul | fate J=               | =Other    |          |          |                | Mail To Address:    | one     | systen                                | ns Drive    |
| Project State:      | WI                                |                                      | FILTEI<br>(YES                            | RED?<br>/NO}        | 57.955                                 |                          |             |                       |           |          |          |                |                     | Appla   | eron, w                               | 154414      |
| Sampled By (Print): | Brian Way                         | ner                                  | PRESER<br>(COI                            | VATION<br>DE)*      |  |                          |             |                       |           |          |          |                | Invoice To Contact: | Bril    | an Wai                                | iner        |
| Sampled By (Sign):  | Bid. Wayour                       | •                                    |   |                     |  |                          |             |                       |           |          |          |                | Invoice To Company: | omni    | ni ASSOC                              | ciates      |
| PO #:               |                                   | Regulatory<br>Program:               |   |                     | 017<br>17                              | \$                       |             |                       |           |          |          |                | Invoice To Address: |         | COMP                                  | 2           |
| Data Package Op     | tions <u>MS/MSD</u>               | Mat                                  | rix Codes                                 | i                   | -1C                                    | MIC                      |             |                       |           |          |          | ľ              |                     |         | ي المران                              |             |
| EPA Level           | III On your sample (billable)     | B = Biota<br>C = Charcoal<br>O = Oil | DW = Drinkir<br>GW = Groun<br>SW = Surfac | ng Water<br>d Water | D V G                                  | LOL                      |             |                       |           |          |          | ľ              | Invoice To Phone:   |         |                                       |             |
| EPA Level           | your sample                       | S = Soil<br>SI = Sludge              | WW = Waste<br>WP = Wipe                   | Water               |  | Ę,                       |             |                       |           |          |          |                | CLIENT              | LAB C   | OMMENTS                               | Profile #   |
| PACE LAB #          | CLIENT FIELD ID                   | DATE                                 | TIME                                      | MATRIX              |  | : ]                      |             |                       |           |          |          |                | COMMENTS            | (Lab    | Use Only)                             |             |
|                     | OutfallOGI                        | 10/28/28                             | 6:37                                      | GW                  |  | ΎΙ                       |             |                       |           |          |          |                | 1-250 MIA           |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     | · ·     |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       | ······      |
|                     |                                   |                                      |   |                     | •••••••••••••••••••••••••••••••••••••• |                          |             |                       |           |          |          |                |                     |         |                                       | <u></u>     |
|                     |                                   |                                      |   |                     | <u></u>                                |                          |             |                       | ·         |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                | ·····               |         | ····                                  |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         |                                       |             |
|                     |                                   |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     | ·       | ·····                                 |             |
| Rush Turnarou       | nd Time Requested - Prelir        | ns Reliev                            | ouished By:                               |                     |  |                          | Date/Time:  | I                     |           | Receiver |          |                | Na A DataTime       | I       | PACE P                                | roject No.  |
| (Rush TAT su        | bject to approval/surcharge       | ə)                                   | B   | I.h                 | apro                                   | 10/28                    | 108         | 7:1                   | 7am       | 25       | M        | 1 set          | 4 10/28/08          | 9:55    | 1 JUN                                 | h           |
| Date                | Needed:                           | Relin                                | pulahed By:-                              | Mie                 | Sh.                                    | Inland                   | Date/Time:  | 151                   | 255       | Received | ĥûnn     | N              | POLADI Datertime:   | 10 1175 | -10100                                | 102         |
| Email #1:           | The second by complete what you v | Relin                                | quished By:                               | <u>c</u> rk         |  | 1-0/                     | Date/Time:  | 154                   |           | Received | IBy:     | <del>6 '</del> | Date/Time:          | 10_112/ | Receipt Temp =                        | R()1 °C     |
| Emall #2:           |                                   |                                      |   |                     |  |                          |             |                       |           |          |          | <u> </u>       |                     |         | Sample F                              | Receipt pH  |
| Telephone:          |                                   | Relin                                | quished By:                               |                     |  |                          | Date/Time:  |                       |           | Received | i By:    |                | Date/Time:          |         | OK / A                                | djusted NT  |
| Samples             | on HOLD are subject to            | Relin                                | quished By:                               |                     |  |                          | Date/Time:  |                       |           | Receiver | d By:    |                | Date/Time           |         | Present / )                           | tot Present |
| special pric        | ing and release of liability      |                                      |   |                     |  |                          |             |                       |           |          |          |                |                     |         | Intact /                              | Not Intact  |

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Pace Analytical Services, Inc. 1241 Bellevue Street Green Bay, WI 54302 (920)469-2436

November 13, 2008

RECEIVED

NOV 17 2018

**DIMNNI ASSOCIATES** 

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A051003 MAUTHE Pace Project No.: 4011034

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on November 04, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS** 

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### CERTIFICATIONS

Project: N1866A051003 MAUTHE

Pace Project No.: 4011034

Green Bay Certification IDs Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334

Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Carolina Certification #: 503 North Dakota Certification #: R-200 North Dakota Certification #: R-150 New York Certification #: 11888 New York Certification #: 11887 Illinois Certification #: 20051 Illinois Certification #: 20050 Florida (NELAP) Certification #: E87951 Florida (NELAP) Certification #: E87948

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# SAMPLE SUMMARY

| Project: N1866A051003 MAUTHE<br>Pace Project No.: 4011034 |             |        |                |                |
|---|-------------|--------|----------------|----------------|
| Lab ID  | Sample ID   | Matrix | Date Collected | Date Received  |
| 4011034001  | OUTFALL 001 | Water  | 11/04/08 06:52 | 11/04/08 16:00 |

# **REPORT OF LABORATORY ANALYSIS**





# SAMPLE ANALYTE COUNT

Project:N1866A051003 MAUTHEPace Project No.:4011034

| Lab ID     | Sample ID   | Method                | Analysts | Analytes<br>Reported | Laboratory |
|------------|-------------|-----------------------|----------|----------------------|------------|
| 4011034001 | OUTFALL 001 | EPA 6010              | DLB      | 1                    | PASI-G     |
|            |             | SM 3500-Cr B (Online) | MY       | 1                    | PASI-G     |

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A051003 MAUTHE

Pace Project No.: 4011034

Method:EPA 6010Description:6010 MET ICPClient:OMNNI ASSOCIATES, INC.Date:November 13, 2008

### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

#### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

#### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

## **REPORT OF LABORATORY ANALYSIS**

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### **PROJECT NARRATIVE**

Project: N1866A051003 MAUTHE

Pace Project No.: 4011034

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:November 13, 2008

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

## Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

#### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

Project: N1866A051003 MAUTHE

Pace Project No.: 4011034

| Sample: OUTFALL 001  | Lab ID: 4      | 4011034001   | Collecte    | d: 11/04/0  | 8 06:52 | Received: 11/  | 04/08 16:00 Ma | atrix: Water |      |
|----------------------|----------------|--------------|-------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters           | Results        | Units        | LOQ         | LOD         | DF      | Prepared       | Analyzed       | CAS No.      | Qual |
| 6010 MET ICP         | Analytical I   | Method: EPA  | 6010 Prepa  | aration Met | hod: EP | A 3010         |                |              |      |
| Chromium             | <b>1880</b> ug | ı/L          | 5.0         | 1.1         | 1       | 11/05/08 08:10 | 11/06/08 16:28 | 7440-47-3    |      |
| Chromium, Hexavalent | Analytical I   | Method: SM 3 | 500-Cr B (C | Online)     |         |                |                |              |      |
| Chromium, Hexavalent | <b>2.1</b> mg  | g/L          | 0.25        | 0.042       | 12.5    |                | 11/04/08 16:30 | 18540-29-9   |      |

Date: 11/13/2008 03:01 PM

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## QUALITY CONTROL DATA

| Project:           | N1866A0510  | 003 MAUTHE | Ξ         |        |             |          |          |        |            |          |     |     |      |
|--------------------|-------------|------------|-----------|--------|-------------|----------|----------|--------|------------|----------|-----|-----|------|
| Pace Project No.:  | 4011034     |            |           |        |             |          |          |        |            |          |     |     |      |
| QC Batch:          | MPRP/194    | 1          | · · · · · | Analy  | sis Method  | : E      | PA 6010  |        |            |          |     |     |      |
| QC Batch Method:   | EPA 3010    |            |           | Analys | sis Descrip | tion: 6  | 010 MET  |        |            |          |     |     |      |
| Associated Lab Sam | nples: 4011 | 034001     |           |        |             |          |          |        |            |          |     |     |      |
| METHOD BLANK:      | 97596       |            |           |        | Matrix: Wa  | ter      |          |        |            | ·        |     |     |      |
| Associated Lab Sam | nples: 4011 | 034001     |           |        |             |          |          |        |            |          |     |     |      |
| _                  |             |            |           | Blan   | K R         | eporting |          |        |            |          |     |     |      |
| Param              | eter        |            | Units     | Resu   | lt          | Limit    | Analyz   | :ed    | Qualifiers | _        |     |     |      |
| Chromium           |             | ug/L       |           |        | <1.1        | 5.0      | 11/05/08 | 23:23  |            |          |     |     |      |
| LABORATORY COM     | NTROL SAM   | PLE: 97597 |           |        |             |          |          |        |            |          |     |     |      |
|                    |             |            |           | Spike  | LCS         | 5        | LCS      | % Re   | c          |          |     |     |      |
| Param              | eter        |            | Units     | Conc.  | Resu        | lt       | % Rec    | Limits | ։ Qւ       | alifiers |     |     |      |
| Chromium           |             | ug/L       |           | 500    | )           | 515      | 103      | 80     | -120       | -        | -   |     |      |
| MATRIX SPIKE & M   |             | E DUPLICA  | TE: 97598 |        |             | 97599    |          |        |            |          |     |     |      |
|                    |             |            |           | MS     | MSD         |          |          |        |            |          |     |     |      |
|                    |             | 401        | 11009001  | Spike  | Spike       | MS       | MSD      | MS     | MSD        | % Rec    |     | Max |      |
| Paramete           | er          | Units      | Result    | Conc.  | Conc.       | Result   | Result   | % Rec  | % Rec      | Limits   | RPD | RPD | Qual |
| Chromium           |             | ug/L       | 2.1J      | 500    | 500         | 519      | 525      | 103    | 105        | 75-125   | 1   | 20  |      |

Date: 11/13/2008 03:01 PM

## **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A0  | 51003 MAUTH     | E         |        |             |          |              |            |            |           |     |     |         |
|--------------------|----------|-----------------|-----------|--------|-------------|----------|--------------|------------|------------|-----------|-----|-----|---------|
| Pace Project No.:  | 4011034  |                 |           |        |             |          |              |            |            |           |     |     |         |
| QC Batch:          | WETA/    | 2695            |           | Analys | sis Method  | :        | SM 3500-Cr I | 3 (Online) |            |           |     |     | ,       |
| QC Batch Method:   | SM 350   | 0-Cr B (Online) |           | Analys | sis Descrip | tion:    | Chromium, H  | exavalent  | by 3500    |           |     |     |         |
| Associated Lab San | nples: 4 | 011034001       |           |        |             |          |              |            |            |           |     |     |         |
| METHOD BLANK:      | 98052    |                 |           | 1      | Matrix: Wa  | ter      |              |            |            |           |     |     |         |
| Associated Lab San | nples: 4 | 011034001       |           |        |             |          |              |            |            |           |     |     |         |
|                    |          |                 |           | Blank  | K R         | eporting |              |            |            |           |     |     |         |
| Param              | neter    |                 | Units     | Resu   | lt          | Limit    | Analyz       | ed         | Qualifiers | _         |     |     |         |
| Chromium, Hexaval  | ent      | mg/L            |           | <0.    | .0034       | 0.02     | 0 11/04/08   | 16:30      |            |           |     |     |         |
| LABORATORY CO      |          | AMPLE: 98053    |           |        |             |          | <u> </u>     |            |            |           |     |     |         |
|                    |          |                 |           | Spike  | LCS         | \$       | LCS          | % Re       | c          |           |     |     |         |
| Param              | neter    |                 | Units     | Солс.  | Resu        | ult      | % Rec        | Limits     | -<br>5 Qi  | ualifiers |     |     |         |
| Chromium, Hexaval  | ent      | mg/L            |           | .3     | 3           | 0.31     | 103          | 90         | 0-110      |           | -   |     |         |
| MATRIX SPIKE & M   | ATRIX S  |                 | TE: 98054 |        |             | 98055    |              |            |            |           |     |     | <u></u> |
|                    |          |                 |           | MS     | MSD         |          |              |            |            |           |     |     |         |
|                    |          | 40              | 11034001  | Spike  | Spike       | MS       | MSD          | MS         | MSD        | % Rec     |     | Max |         |
| Paramet            | er       | Units           | Result    | Conc.  | Conc.       | Result   | Result       | % Rec      | % Rec      | Limits    | RPD | RPD | Qual    |
| Chromium, Hexaval  | ent      | mg/L            | 2.1       | 3.8    | 3.8         | 5.7      | 7 5.8        | 97         | 101        | 90-110    | 2   | 20  |         |
|                    |          |                 |           |        |             |          |              |            |            |           |     |     |         |

Date: 11/13/2008 03:01 PM

.

## **REPORT OF LABORATORY ANALYSIS**

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### QUALIFIERS

### Project: N1866A051003 MAUTHE

Pace Project No.: 4011034

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 11/13/2008 03:01 PM

### **REPORT OF LABORATORY ANALYSIS**

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| S   | ample Condition  | n Upon Receip                     | t                                     |  |
|---|------------------|-----------------------------------|---------------------------------------|--|
| Face Analytical Client Nam  | e: Onn           | n'                                | _ Project #                           | 4011034  |
| Courier: C Fed Ex UPS USPS C CI   | ient 🗌 Commercia | I Pace Other                      | Gritton<br>Proji to                   | al<br>Le Dálet   |
| Custody Seal on Cooler/Box Present:ye   | s 🕅 no Sea       | als intact: 🔲 yes                 |                                       | eline:   |
| Packing Material: Bubble Wrap Bubb  | e Bags X None    | Other                             |                                       |  |
| Thermometer Used NA   | Type of Ice: (W  | et Blue None                      | Samples on ice, co                    | oling process has begun                                      |
| Cooler Temperature $\underbrace{\mu O \mathcal{I}}_{\text{Temp should be above freezing to 6°C}}$ | Biological Tissu | ie is Frozen: Yes No<br>Comments: | Date and Initia<br>contents:          | Is of person examining<br>U $U$ $U$ $U$ $UU$ $U$ $U$ $U$ $U$ |
| Chain of Custody Present:   |                  | /A 1.                             |                                       |  |
| Chain of Custody Filled Out:  | Si¥es □No □N     | /A 2.                             |                                       |  |
| Chain of Custody Relinquished:  |                  | /A 3.                             |                                       |  |
| Sampler Name & Signature on COC:  | Ves DNO DN       | /A 4.                             |                                       |  |
| Samples Arrived within Hold Time:   | Qes DNo DN       | /A 5.                             |                                       |  |
| Short Hold Time Analysis (<72hr):   | Qes ONO ON       | /A 6.                             |                                       |  |
| Rush Turn Around Time Requested:  |                  | /A 7.                             |                                       |  |
| Sufficient Volume:  | Bres ONO ON      | /A 8                              |                                       |  |
| Correct Containers Used:  | YOYes DNO DN     | /A 9.                             |                                       |  |
| -Pace Containers Used:  | Ques []No []N    | /Α                                |                                       |  |
| Containers Intact:  | QY9es DNO DN     | /A 10.                            |                                       |  |
| Filtered volume received for Dissolved tests  | 🗆 Yes 🖾 No 🕰     | A 11.                             | · · · · · · · · · · · · · · · · · · · |  |
| Sample Labels match COC:  | ØQes □No □N      | /A 12.                            |                                       |  |
| -Includes date/time/ID/Analysis Matrix:   | <u> </u>         |                                   |                                       |  |
| All containers needing preservation have been checked.  | \$0)res □No □N   | /A 13.                            |                                       |  |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation.     | U<br>Des □No □N  |                                   |                                       |  |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   |                  | completed                         | preservative                          |  |
| Samples checked for dechlorination:   |                  | <u>/A 14.</u>                     |                                       |  |
| Headspace in VOA Vials ( >6mm):   |                  | <u>/A 15.</u>                     |                                       |  |
| Trip Blank Present:   | ⊡Yes ⊡No 1001    | <sup>/A</sup> 16.                 |                                       |  |
| Trip Blank Custody Seals Present  | □Yes □No ØN      | /A                                |                                       |  |
| Pace Trip Blank Lot # (if purchased):   |                  |                                   |                                       |  |
| Client Notification/ Resolution:  |                  |                                   | Field Data Required                   | d? Y / N   |
| Person Contacted:   | Dat              | e/Time:                           | •                                     |  |
| Comments/ Resolution:   |                  |                                   |                                       |  |
|   |                  |                                   |                                       | <u></u>  |
|   |                  | ·                                 | <u> </u>                              | _ <u></u>  |
|   |                  |                                   |                                       |  |
|   |                  |                                   | <u> </u>                              |  |
| A   |                  |                                   | T                                     | THITAD   |
| Project Manager Review:   |                  |                                   | Date:                                 | <u>                                     </u>                 |

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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

| (Pi                           | lease Print Clearly)                                    |  |   |   |                          |                          | UPPER MI      | DWEST R    | EGION               | i / Pa    | ige 1 d      | of V           |
|-------------------------------|---|--|---|---|--------------------------|--------------------------|---------------|------------|---------------------|-----------|--------------|----------------|
| Company Name:                 | Omni Assoc  | iates  | ø   |   |                          | •                        | MN: 612-6     | 07-1700    | WI: 920-469-2436    | M         |              | ·              |
| Branch/Location:              | Appleton  |  |   | ace Ana                                 | lytical                  |                          |               |            |                     |           |              |                |
| Project Contact:              | Brian Way   | ner  | 1   | www.p                                   | Celebs.com               |                          |               | ۴,         | Quote #:            | Maut      | he           |                |
| Phone:                        | 920/830-61  | 41   | ' C   | <b>HAIN</b>                             | OF (                     | CUST                     | DDY           |            | Mail To Contact:    | Brian     | Way          | ner            |
| Project Number:               | N1866A05/0  | 03   | A=None B=H  | ICL C=H2SO4                             | Preservation<br>D=HNO3 E | Codes<br>=DI Water F=Met | nanol, G=NaOH |            | Mail To Company:    | Omnni     | Associo      | ates           |
| Project Name:                 | Mauthe  |  | H=Sodium Bisul                                    | fate Solution                           | I=Sodium Thi             | osulfate J=Othe          | · ·           |            | Mail To Address:    | one syst  | emsp         | rive           |
| Project State:                | WE  |  | FILTERED?<br>(YES/NO)                             | N Good                                  | Y                        |                          |               |            |                     | Appleton, | WI S         | 414            |
| Sampled By (Print):           | Brian Waur  | ver "  | PRESERVATION<br>(CODE)*                           | Citized A                               | D                        |                          |               |            | Invoice To Contact: | Brian     | Waun         | er             |
| Sampled By (Sign):            | Bill Warne  | _  |   |   |                          |                          |               |            | Invoice To Company: | omni      | Associ       | ates           |
| PO #:                         |   | Regulatory<br>Program:                         |   | ξξ                                      | ź                        |                          |               |            | Invoice To Address: | san       | nP           |                |
| Data Package Op               | otions <u>MS/MSD</u>                                    | Matrix   | Codes   |   |                          |                          |               |            |                     |           |              |                |
|                               | I III (billable)  | A = Air W =<br>B = Slota DW<br>C = Charcoal GW | * Water<br>/ = Drinking Water<br>/ = Ground Water | 160<br>100                              | 2                        |                          |               |            | Invoice To Phone:   |           |              |                |
| EPA Level                     | I IV DOT needed on your sample                          | S≖Soil WW<br>SI≖Sludge <u>WP</u>               | = Sunace Water<br>/ = Waste Water<br>! = Wipe     | R X S                                   | d<br>T                   |                          |               |            | CLIENT              |           |              | Profile #      |
| PACE LAB #                    | CLIENT FIELD ID   | DATE   | ON MATRIX   | N N                                     | U                        |                          |               |            | COMMENTS            | (Lab Use  | Only)        |                |
| 001 (                         | JUTFALLOOI  | 14/08 6  | :SZ GW  |   | $ \lambda $              |                          |               |            |                     | 2-2.50uc  | e#19         |                |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               | ······································                  |  |   |   |                          |                          |               |            |                     |           |              | ]              |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   | and |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              | ···· ·         |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   | arrive as an a                          |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   |   |                          |                          |               |            | · ·                 |           |              |                |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   |   |                          |                          |               |            |                     |           |              |                |
|                               |   |  |   |   |                          |                          |               | 9          |                     |           |              |                |
| Rush Turnarou<br>(Rush TAT su | und Time Requested - Prelinubject to approval/surcharge | ns Relinquish                                  | Hed By:   | James                                   |                          | ne:<br>8 7:45am          | Received By   | Se and     | 11 Date/Time:       | 1342      | PACE Projec  | t No.          |
| Date                          | e Needed:   | Relinquit                                      | had By:   | Bal                                     | //Date/Tir               | ne:                      | Received By:  | 21         | Deterrine!          | 28 16:0   | +01103       | <u>4</u>       |
| Email #1:                     | m results by (complete what you w                       | Relinquish                                     | hed By:   | you -                                   | Date/Ti                  | ne:                      | Received By:  | <u>v</u> w | Date/Time:          | Receip    | ot Temp = M  | 25.00          |
| Email #2:                     |   |  | <u> </u>  | /                                       |                          |                          | - <u> </u>    |            |                     |           | Sample Rece  | pt pH          |
| Fax:                          |   |  | 180 BY:   |   | Date/Tir                 | ne:                      | Received By:  |            | Date/Time:          |           | Cooler Custo | ted<br>Iv Seal |
| Samples                       | on HOLD are subject to                                  | Relinquish                                     | hed By:   |   | Date/Tir                 | ne:                      | Received By:  |            | : Date/Time:        | P         | resent Not   | Present        |
| special pric                  | HUR BUR LAIASSE OF HEDIIILA                             |  | · · · · · · · · · · · · · · · · · · ·             |   |                          |                          |               |            |                     |           | Intact7 Not1 | ntact          |

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Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, VM 54302 (920)469-2436

December 10, 2008

RECEIVED

OMNNI ASSOCIATES

Brian Wayner Omnni Associates, Inc. One Systems Drive Appleton, WI 549141654

RE: Project: N1866A05-006 MAUTHE Pace Project No.: 4011984

Dear Brian Wayner:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures

# **REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: N1866A05-006 MAUTHE

Pace Project No.: 4011984

Green Bay Certification IDs Louisiana Certification #: 04169 Louisiana Certification #: 04168 Kentucky Certification #: 83 Kentucky Certification #: 82 Wisconsin DATCP Certification #: 105-444 Wisconsin DATCP Certification #: 105-444

Wisconsin DATCP Certification #: 105-44 Wisconsin Certification #: 405132750 Wisconsin Certification #: 405132750 South Carolina Certification #: 83006001 South Carolina Certification #: 83006001 Minnesota Certification #: 055-999-334 Minnesota Certification #: 055-999-334 North Carolina Certification #: 503 North Carolina Certification #: 503 North Dakota Certification #: R-200 North Dakota Certification #: R-150 New York Certification #: 11888 New York Certification #: 11887 Illinois Certification #: 200051 Illinois Certification #: 200050 Florida (NELAP) Certification #: E87951 Florida (NELAP) Certification #: E87948

## **REPORT OF LABORATORY ANALYSIS**

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## SAMPLE SUMMARY

| Project:<br>Pace Project N | N1866A05-006 MAUTHE<br>lo.: 4011984 |        |                |                |  |
|----------------------------|-------------------------------------|--------|----------------|----------------|--|
| Lab ID                     | Sample ID                           | Matrix | Date Collected | Date Received  |  |
| 4011984001                 | OUTFALL 001                         | Water  | 12/02/08 06:57 | 12/02/08 14:05 |  |

# **REPORT OF LABORATORY ANALYSIS**





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PASI-G

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v.

## SAMPLE ANALYTE COUNT

| Project:<br>Pace Proj <b>e</b> ct N | N1866A05-006 MAUTHE |          |          |                      |            |
|-------------------------------------|---------------------|----------|----------|----------------------|------------|
| Lab ID                              | Sample ID           | Method   | Analysts | Analytes<br>Reported | Laboratory |
| 4011984001                          | OUTFALL 001         | EPA 6010 | DLB      | 1                    | PASI-G     |

SM 3500-Cr B (Online)

DEY

## **REPORT OF LABORATORY ANALYSIS**





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## **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE

Pace Project No.: 4011984

Method: EPA 6010

Description:6010 MET ICP, DissolvedClient:OMNNI ASSOCIATES, INC.Date:December 10, 2008

#### General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 6010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

#### **Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

# **REPORT OF LABORATORY ANALYSIS**

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## **PROJECT NARRATIVE**

Project: N1866A05-006 MAUTHE

Pace Project No.: 4011984

Method:SM 3500-Cr B (Online)Description:Chromium, HexavalentClient:OMNNI ASSOCIATES, INC.Date:December 10, 2008

### **General Information:**

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

## Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

#### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## **REPORT OF LABORATORY ANALYSIS**

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# ANALYTICAL RESULTS

Project: N1866A05-006 MAUTHE

Pace Project No.: 4011984

| Sample: OUTFALL 001     | Lab ID:       | 4011984001   | Collecte    | d: 12/02/0  | 8 06:57 | Received: 12/  | 02/08 14:05 Ma | atrix: Water | <u></u> |
|-------------------------|---------------|--------------|-------------|-------------|---------|----------------|----------------|--------------|---------|
| Parameters              | Results       | Units        | LOQ         | LOD         | DF      | Prepared       | Analyzed       | CAS No.      | Qual    |
| 6010 MET ICP, Dissolved | Analytical    | Method: EPA  | 6010 Prep   | aration Met | hod: EF | PA 6010        |                |              |         |
| Chromium, Dissolved     | <b>2190</b> u | ig/L         | 5.0         | 1.1         | 1       | 12/08/08 07:42 | 12/10/08 11:07 | 7440-47-3    |         |
| Chromium, Hexavalent    | Analytical    | Method: SM 3 | 500-Cr B (0 | Online)     |         |                |                |              |         |
| Chromium, Hexavalent    | <b>2.3</b> m  | ng/L         | 0.20        | 0.034       | 10      |                | 12/02/08 14:45 | 18540-29-9   |         |

Date: 12/10/2008 04:38 PM

# **REPORT OF LABORATORY ANALYSIS**

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# QUALITY CONTROL DATA

| Project:           | N1866A05-006 M  | AUTHE                                  | . ·         |             |               |                |            |          |
|--------------------|-----------------|--|-------------|-------------|---------------|----------------|------------|----------|
| Pace Project No.:  | 4011984         |  |             |             |               |                |            |          |
| QC Batch:          | WETA/2887       | ······································ | Analysis Me | ethod:      | SM 3500-Cr B  | (Online)       | · · ·      | ·        |
| QC Batch Method:   | SM 3500-Cr B (  | Online)                                | Analysis De | escription: | Chromium, Hex | kavalent by 35 | 00         |          |
| Associated Lab San | nples: 40119840 | 001                                    |             |             |               |                |            |          |
| METHOD BLANK:      | 107799          |  | Matrix      | : Water     |               |                |            | <u> </u> |
| Associated Lab San | nples: 4011984( | 001                                    |             |             |               |                |            |          |
|                    |                 |  | Blank       | Reporting   |               |                | _          |          |
| Param              | neter           | Units                                  | Result      | Limit       | Analyzed      | d Quali        | fiers      |          |
| Chromium, Hexaval  | ent             | mg/L                                   | <0.0034     | 0.02        | 0 12/02/08 12 | 2:30           |            |          |
| LABORATORY CO      | NTROL SAMPLE:   | 107800                                 |             |             | <u></u>       | <u> </u>       |            |          |
|                    |                 |  | Spike       | LCS         | LCS           | % Rec          | ·          |          |
| Param              | neter           | Units                                  | Conc.       | Result      | % Rec         | Limits         | Qualifiers |          |
| Chromium, Hexaval  | ent             | mg/L                                   | .3          | 0.33        | 108           | 90-110         |            | •        |

Date: 12/10/2008 04:38 PM

## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

| Project:           | N1866A05-006 N  | IAUTHE   |       |               |                |          |            |          |            |              |     |         |   |
|--------------------|-----------------|----------|-------|---------------|----------------|----------|------------|----------|------------|--------------|-----|---------|---|
| Pace Project No.:  | 4011984         |          |       |               |                |          |            |          |            |              |     |         |   |
| QC Batch:          | MPRP/2077       |          | _     | Analys        | is Method      | : E      | PA 6010    |          | <u> </u>   | •            |     | · · · · | • |
| QC Batch Method:   | EPA 6010        |          |       | Analys        | is Descrip     | tion: 6  | 010 MET D  | issolved |            |              |     |         |   |
| Associated Lab San | nples: 40119840 | 001      |       |               |                |          |            |          |            |              |     |         |   |
| METHOD BLANK:      | 109342          |          |       | N             | latrix: Wa     | ter      |            |          |            | <u>_</u> _,, |     |         |   |
| Associated Lab San | nples: 40119840 | 001      |       |               |                |          |            |          |            |              |     |         |   |
|                    |                 |          |       | Blank         | R              | eporting |            |          |            |              |     |         |   |
| Param              | leter           | Units    | \$    | Result        | t              | Limit    | Analyz     | ed       | Qualifiers |              |     |         |   |
| Chromium, Dissolve | ed              | ug/L     |       |               | <1.1           | 5.0      | ) 12/10/08 | 10:39    |            |              |     |         |   |
| LABORATORY CO      | NTROL SAMPLE:   | 109343   |       | <u>.</u>      |                |          |            |          | <u></u>    |              |     |         |   |
|                    |                 |          |       | Spike         | LCS            | 5        | LCS        | % Re     | с          |              |     |         |   |
| Param              | leter           | Units    | 6     | Conc.         | Resu           | lt       | % Rec      | Limits   | s Qu       | alifiers     |     |         |   |
| Chromium, Dissolve | d               | ug/L     |       | 500           |                | 484      | 97         | 80       | 0-120      |              | -   |         |   |
|                    |                 |          | 10024 |               |                | 100245   |            |          |            |              |     |         |   |
| WATRIA SPIRE & W   | IATRIA SPIRE DU | FLICATE. | 10954 | +<br>MC       | MCD            | 109345   |            |          |            |              |     |         |   |
|                    |                 | 401185   | 3005  | IVIJ<br>Spike | IVISU<br>Snike | MS       | MSD        | MS       | MSD        | % Rec        |     | Max     |   |
| Paramet            | er (            | Jnits Re | esult | Conc.         | Conc.          | Result   | Result     | ° % Rec  | % Rec      | Limits       | RPD | RPD     | Qual                                    |
| Chromium, Dissolve | d ug/l          | -        | 2.8J  | 500           | 500            | 486      | 485        | 97       | 96         | 75-125       | .2  | 20      |   |

Date: 12/10/2008 04:38 PM

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: N1866A05-006 MAUTHE

Pace Project No.: 4011984

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Date: 12/10/2008 04:38 PM

### **REPORT OF LABORATORY ANALYSIS**

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|   |                 | ilen noj  |                                |  |  |
|---|-----------------|-----------|--------------------------------|--|--|
| Pace Analyticai Client Name   | e: <u>Ômn</u> i | AG        | 5 <u>0C.</u>                   | Project #                              | 4011984                                |
| Courier: C Fed Ex UPS USPS Clie<br>Tracking #:  | ent Com         | mercial   | Pace Other                     | CoalGan<br>Piel D                      | l<br>u∻ Daite                          |
| Custody Seal on Cooler/Box Present: Use   | no 💭            | Seals     | intact: 🗌 yes                  | no                                     |  |
| Packing Material: Bubble Wrap Bubbl   | e Bags 🛛        | None      | Other                          | ······································ |  |
| Thermometer Used  | Type of Ic      | ze: Wet   | Blue None                      | Samples on ice, co                     | oling process has begun                |
| Cooler Temperature $20$<br>Temp should be above freezing to 6°C                               | Biologica       | l Tissue  | is Frozen: Yes No<br>Comments: | Date and Initia<br>contents:           | is of person examining $2208AB$        |
| Chain of Custody Present:   | Dyes DM         |           | 1.                             |  |  |
| Chain of Custody Filled Out:  |                 |           | 2.                             |  |  |
| Chain of Custody Relinquished:  |                 | lo 🗆 N/A  | 3.                             |  |  |
| Sampler Name & Signature on COC:  | Dyes DM         | 10 🗆 N/A  | 4.                             |  |  |
| Samples Arrived within Hold Time:   | Dyes DM         |           | 5.                             |  |  |
| Short Hold Time Analysis (<72hr):   | QYes DN         |           | 6. nexchrom                    | l                                      |  |
| Rush Turn Around Time Requested:  |                 |           | 7.                             |  |  |
| Sufficient Volume:  |                 | 10 🗆 N/A  | 8. `~                          |  |  |
| Correct Containers Used:  |                 | lo 🗆 N/A  | 9.                             |  |  |
| -Pace Containers Used:  |                 | 10 🗆 N/A  |                                |  |  |
| Containers Intact:  |                 |           | 10.                            |  |  |
| Filtered volume received for Dissolved tests  |                 | 10 DINIA  | 11.                            | 1                                      |  |
| Sample Labels match COC:  |                 |           | 12.                            |  |  |
| -Includes date/time/ID/Analysis Matrix:   | W               |           |                                |  |  |
| All containers needing preservation have been checked.  |                 | 10 🗆 N/A  | 13.                            |  |  |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation. | Dixes ON        | lo 🗆 N/A  |                                |  |  |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)   | 🛛 Yes 🗆 N       | 0         | completed                      | preservative                           |  |
| Samples checked for dechlorination:   | □Yes □N         | 0 \([]N/A | 14.                            | ·····                                  |  |
| Headspace in VOA Vials ( >6mm):   | □Yes □N         |           | 15.                            |  |  |
| Trip Blank Present:   | □Yes □N         | o DINA    | 16.                            |  |  |
| Trip Blank Custody Seals Present  | □Yes □N         |           |                                |  | •                                      |
| Pace Trip Blank Lot # (if purchased):   |                 |           |                                |  |  |
| Client Notification/ Resolution   |                 |           |                                | Field Data Post                        | 12 V / N                               |
| Person Contacted  |                 | Date/     | Time:                          |  |  |
| Comments/ Resolution:   | <u></u>         |           |                                |  |  |
| · · · · · · · · · · · · · · · · · · ·   |                 |           | ·                              |  |  |
|   |                 |           |                                |  | ······································ |
|   |                 |           |                                |  | ······                                 |
| · · · · · · · · · · · · · · · · · · ·   |                 |           |                                |  |  |
|   |                 |           |                                |  |  |
| Project Manager Review:   |                 |           |                                | Date:                                  | 2/2/1/                                 |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

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| (F                 | Please Print Clearly)               |   |                                       |                  |                          |                                       |          | REGION                                | Page 1             | of           |
|--------------------|-------------------------------------|---|---------------------------------------|------------------|--------------------------|---------------------------------------|----------|---------------------------------------|--------------------|--------------|
| Company Name:      | Omnni Associ                        | lates   |                                       | h dianto         |                          | MN: 012-                              | 507-1700 | WI: 920-469-2436                      | \$U                |              |
| Branch/Location:   | Appleton                            |   |                                       | liytical         |                          |                                       |          |                                       | •                  |              |
| Project Contact:   | Brian Wayne                         | er /  | vrww.p                                | 8088893.0011     |                          |                                       |          | Quote #:                              | Mauthe             |              |
| Phone:             | 920/830-614                         |   | CHAIN                                 | OF C             | USTO                     | DY                                    |          | Mail To Contact:                      | Brian Way          | ner          |
| Project Number:    | N/1866405/0                         | 75  |                                       | Preservation Cod | es<br>Water E=Metho      |                                       |          | Mail To Company:                      | Amnni Arm          | ntes         |
| Project Name:      | Mauthe                              | H=Sou   | dium Bisulfate Solution               | I=Sodium Thiosul | ate J=Other              |                                       |          | Mail To Address:                      | onesustems         | Drive        |
| Project State:     | INIT                                | FILTER  | RED?                                  |                  |                          |                                       |          | <b>4</b> .                            | Annieton WI        | 54914        |
| Complet State:     | VVL                                 | (YES/   |                                       |                  |                          | <u> </u>                              |          | Invoice To Contact:                   | Bioho May          | nen.         |
| Sampled By (Print  | Brian wayn                          |   | DE)* Catter A                         |                  |                          |                                       |          |                                       | Drun vour          | intre linter |
| Sampled By (Sign)  | " B. J. Warper                      | Populaton   |                                       |                  |                          |                                       |          | Invoice to Company:                   | UMNNI ALSOU        | 1410         |
| PO #:              |                                     | Program:  | 【翻譯 た ら                               | ٤                |                          |                                       |          | Invoice To Address:                   | CANOD              |              |
| Data Package O     | Options MS/MSD                      | Matrix Codes  |                                       | 2                |                          |                                       |          |                                       | Juivit             |              |
|                    | rel III (billable)                  | S = Air VV = VValer<br>S = Blota DW = Drinkin<br>C = Charcoal GW = Ground<br>C = Oil SW = Surface | ng Water<br>d Water<br>e Water        | NO3              |                          |                                       |          | Invoice To Phone:                     |                    | . <u> </u>   |
| EPA Levi           | your sample                         | S = Soil WW = Waste<br>SI = Sludge WP = Wipe  | Water                                 |                  |                          |                                       |          | CLIENT                                | LAB COMMENTS       | Profile #    |
| PACE LAB'#         | CLIENT FIELD ID                     | COLLECTION<br>DATE TIME   | MATRIX MAAN                           |                  |                          |                                       |          | COMMENTS                              | (Lab Use Only)     |              |
| $\alpha$           | OutFallOOI                          | 12/2/06 6:57  | GW X                                  |                  |                          |                                       |          | 2-250 m                               | AD                 |              |
|                    |                                     |   |                                       |                  |                          |                                       |          |                                       |                    | •            |
|                    |                                     |   |                                       |                  |                          |                                       |          | •                                     |                    |              |
|                    |                                     |   |                                       |                  |                          | 1                                     |          | · · · ·                               | · .                | • • •        |
|                    |                                     |   |                                       | <u> </u>         |                          | +                                     |          |                                       |                    |              |
|                    |                                     |   |                                       |                  |                          |                                       |          |                                       |                    |              |
|                    | ·                                   |   |                                       |                  |                          | ┢┈╶┠╸                                 |          |                                       |                    |              |
|                    |                                     |   |                                       |                  |                          | ++                                    |          |                                       |                    |              |
|                    |                                     |   |                                       | ┨───┤────        | <b>├</b> ──- <b>├</b> ── | +                                     |          |                                       |                    |              |
| <u> </u> ·         | <u></u>                             |   |                                       | <u> </u>         |                          | + $+$                                 |          |                                       |                    |              |
|                    |                                     |   |                                       |                  |                          | + + + + + + + + + + + + + + + + + + + |          |                                       |                    | <del></del>  |
|                    |                                     |   |                                       |                  |                          |                                       | _        |                                       |                    |              |
|                    |                                     |   |                                       |                  |                          |                                       |          | · · · · · · · · · · · · · · · · · · · |                    | .,           |
|                    |                                     |   |                                       |                  |                          |                                       |          |                                       |                    |              |
| Rush Turnaro       | ound Time Requested - Prelim        | 1S Relinquished By:   | of lite man                           | Date/Time:       | 345                      | Received By:                          | Kond     | Datertime.                            | 2 10/0 PACE P      | roject No.   |
| Da                 | ite Needed:                         | Relinquished By:  | 12                                    | Date/Time:       |                          | Received By                           | Th       | Laterime:                             | 401                | 1984         |
| Transmit Prelim Ru | ush Results by (complete what you w | ant): 12 /34  | emper /                               | 108 14           | -07                      | XUIL                                  | y d      | MARY RIZIOS                           | HU5_Receipt Temp = | DAI °C       |
| Email #2:          |                                     | Kelinguished By:  | () (                                  | Uate/Time:       |                          | Received By:                          | U        | : Date/Time:                          | Samole F           | lecelpt pH   |
| Felephone:         |                                     | Relinquished By:  | · · · · · · · · · · · · · · · · · · · | Date/Time:       |                          | Received By:                          |          | Date/Time:                            | (OK)               | djusted      |
| Fax:               |                                     |   |                                       |                  |                          | <b> </b>                              |          | ·                                     | Cooler Cu          | stody Seal   |
| Sample             | s on HOLD are subject to            | Relinquished By:  |                                       | Date/Time:       |                          | Dessived Dur                          |          | Deter                                 | I Present / I      | Int Present  |

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