

# Michigan Department of Environmental Quality

DWRP Laboratory Services - Drinking Water Lab  
USEPA Region V Drinking Water Lab Cert. No. MI00003  
P.O. Box 30270, Lansing, MI 48909-7770

TEL: 517/335-8184 FAX: 517/335-8562

## Official Laboratory Report

Report To:

City of Traverse City  
400 Boardman  
Traverse City MI 49684

Sample Number: C2002039275

Customer Number: 73568000

System Name/Owner: City of Traverse City

WSSN / Pool ID: 6640

Collection Address: 2010 Eastern Avenue, Traverse City 49686

Source: Type I

Collected By: CARL HOLDER

Site Code: E-600

Twp/Sec/Well #: Traverse City/ ? / ?

Collector: Public Water Supply Operator

County: Grand Traverse

Sample Date: 7/8/2002 7:45:00AM

Sample Point: PLANT TAP

Received: 7/9/2002 2:32:00PM

Sample Kit #: 36ME

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Public System Surface Water

| Test Result  | Analyte Name   | Tested    | Limit MCL  | Rpt Limit   | Test Performed |
|--------------|----------------|-----------|------------|-------------|----------------|
| Not Detected | ANTIMONY       | 7/15/2002 | 0.006 mg/L | 0.0006 mg/L | CSB 19960701   |
| Not Detected | ARSENIC        | 7/15/2002 | 0.01 mg/L  | 0.002 mg/L  | CAS 19970415   |
| 0.02 mg/L    | BARIUM         | 7/15/2002 | 2 mg/L     | 0.01 mg/L   | CBA 19960701   |
| Not Detected | BERYLLIUM      | 7/15/2002 | 0.004 mg/L | 0.0004 mg/L | CBE 19960701   |
| Not Detected | CADMIUM        | 7/15/2002 | 0.005 mg/L | 0.0003 mg/L | CCD 19960701   |
| Not Detected | CHROMIUM       | 7/15/2002 | 0.1 mg/L   | 0.01 mg/L   | CCR 19960701   |
| Not Detected | LEAD BY ICP/MS | 7/15/2002 |            | 0.001 mg/L  | CPB 19991210   |
| Not Detected | MERCURY        | 7/15/2002 | 0.002 mg/L | 0.0001 mg/L | CHG 19970416   |
| Not Detected | NICKEL         | 7/15/2002 | 0.1 mg/L   | 0.01 mg/L   | CNI 19960701   |
| 0.002 mg/L   | SELENIUM       | 7/15/2002 | 0.05 mg/L  | 0.001 mg/L  | CSE 19960701   |
| Not Detected | THALLIUM       | 7/15/2002 | 0.002 mg/L | 0.0002 mg/L | CTL 19960701   |

Lab Comments:

None

Partial Chem

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## Official Laboratory Report

Report To:

City of Traverse City  
400 Boardman  
Traverse City MI 49684

Sample Number: C2002039277  
Customer Number: 73568000

System Name/Owner: City of Traverse City

WSSN / Pool ID: 6640

Collection Address: 2010 Eastern Avenue, Traverse City 49686

Source: Type I

Collected By: CARL HOLDER

Site Code: E-600

Twp/Sec/Well #: Traverse City/ ? / ?

Collector: Public Water Supply Operator

County: Grand Traverse

Sample Date: 7/8/2002 8:00:00AM

Sample Point: PLANT TAP

Received: 7/9/2002 2:32:00PM

Sample Kit #: 32

Purpose: Routine Monitoring

Chlorination: None

Water System: Public System Surface Water

| Test Result  | Analyte Name  | Tested    | Limit MCL | Rpt Limit | Test Performed |
|--------------|---|-----------|-----------|-----------|----------------|
| 6 mg/L       | CHLORIDE (AUTOMATED)                                      | 7/10/2002 |           | 4 mg/L    | CRA 19960701   |
| 0.1 mg/L     | FLUORIDE (AUTOMATED) <i>(out of fluoride at the time)</i> | 7/10/2002 | 4.0 mg/L  | 0.1 mg/L  | CRA 19960701   |
| 124 mg/L     | HARDNESS AS CaCO3   | 7/10/2002 |           | 10 mg/L   | CRA 19960701   |
| Not Detected | IRON (AUTOMATED)  | 7/10/2002 |           | 0.1 mg/L  | CRA 19960701   |
| Not Detected | NITRATE AS N (AUTOMATED)                                  | 7/10/2002 | 10 mg/L   | 0.4 mg/L  | CRA 19960701   |
| Not Detected | NITRITE AS N (AUTOMATED)                                  | 7/10/2002 | 1 mg/L    | 0.05 mg/L | CRA 19960701   |
| Not Detected | SODIUM (AUTOMATED)  | 7/10/2002 |           | 5 mg/L    | CRA 19960701   |
| 22 mg/L      | SULFATE (AUTOMATED)                                       | 7/10/2002 |           | 5 mg/L    | CRA 19960701   |

Lab Comments:

None

Carbamates

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## Official Laboratory Report

Report To:

City of Traverse City  
400 Boardman  
Traverse City MI 49684

Sample Number: C2002024877  
Customer Number: 73568000

System Name/Owner: City of Traverse City

WSSN / Pool ID: 6640

Collection Address: 2010 East Avenue, Traverse City 49686

Source: Type I

Collected By: CARL HOLDER

Site Code: E-600

Twp/Sec/Well #: Traverse City / ? / ?

Collector: Public Water Supply Operator

County: Grand Traverse

Sample Date: 4/8/2002 12:30:00PM

Sample Point: PLANT TAP

Received: 4/9/2002 1:09:00PM

Sample Kit #: 36LP

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Public System Surface Water

| Test Result  | Analyte Name          | Tested    | Limit MCL | Rpt Limit  | Test Performed |
|--------------|-----------------------|-----------|-----------|------------|----------------|
| Not Detected | ALDICARB              | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | ALDICARB SULFONE      | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | ALDICARB SULFOXIDE    | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | CARBARYL              | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | CARBOFURAN            | 4/10/2002 | 0.04 mg/L | 0.001 mg/L | CXLP 19960701  |
| Not Detected | HYDROXYCARBOFURAN, 3- | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | METHIOCARB            | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | METHOMYL              | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |
| Not Detected | OXAMYL                | 4/10/2002 | 0.2 mg/L  | 0.001 mg/L | CXLP 19960701  |
| Not Detected | PROPOXUR (BAYGON)     | 4/10/2002 |           | 0.001 mg/L | CXLP 19960701  |

Lab Comments:  
None

Herbicides

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## Official Laboratory Report

Report To:

City of Traverse City  
400 Boardman  
Traverse City MI 49684

Sample Number: C2002013747  
Customer Number: 73568000

System Name/Owner: City of Traverse City

WSSN / Pool ID: 6640

Collection Address: 2010 Eastern Avenue, Traverse City 49686

Source: Type I

Collected By: CARL HOLDER

Site Code: E-600

Twp/Sec/Well #: Traverse City/ ? / ?

Collector: Public Water Supply Operator

County: Grand Traverse

Sample Date: 1/7/2002 8:00:00AM

Sample Point: PLANT TAP

Received: 1/8/2002 3:13:00PM

Sample Kit #: 36NV

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Public System Surface Water

| Test Result  | Analyte Name               | Tested    | Limit MCL  | Rpt Limit    | Test Performed |
|--------------|----------------------------|-----------|------------|--------------|----------------|
| Not Detected | 2,4,5-T                    | 1/11/2002 |            | 0.001 mg/L   | CXHB 19960701  |
| Not Detected | 2,4,5-TP (SILVEX)          | 1/11/2002 | 0.05 mg/L  | 0.0003 mg/L  | CXHB 19960701  |
| Not Detected | 2,4-D                      | 1/11/2002 | 0.07 mg/L  | 0.002 mg/L   | CXHB 19960701  |
| Not Detected | ACIFLUORFEN                | 1/11/2002 |            | 0.004 mg/L   | CXHB 19960701  |
| Not Detected | BENTAZON                   | 1/11/2002 |            | 0.002 mg/L   | CXHB 19960701  |
| Not Detected | DCPA, MONO                 | 1/11/2002 |            | 0.001 mg/L   | CXHB 19960701  |
| Not Detected | DICAMBA                    | 1/11/2002 |            | 0.002 mg/L   | CXHB 19960701  |
| Not Detected | DINOSEB                    | 1/11/2002 | 0.007 mg/L | 0.0003 mg/L  | CXHB 19960701  |
| Not Detected | PENTACHLOROPHENOL          | 1/11/2002 | 0.001 mg/L | 0.00006 mg/L | CXHB 19960701  |
| Not Detected | PICLORAM                   | 1/11/2002 | 0.5 mg/L   | 0.002 mg/L   | CXHB 19960701  |
| Not Detected | TOTAL DCPA, MONO & DI-ACID | 1/14/2002 |            | 0.001 mg/L   | CDCPA 20010605 |

Lab Comments:

None



Wisconsin State Laboratory of Hygiene  
 PO Box 7996  
 Madison, WI 53707-7996  
 800-442-4618 • FAX: 608-224-6267

# Laboratory Report

University of Wisconsin Center for Health Sciences  
 Radiochemistry Laboratory • 608-224-6227

Stanley L. Inhorn, M.D., Medical Director • Ronald H. Laessig, Ph.D., Director  
 DNR LAB ID 113133790

TRAVERSE CITY WATER PLANT  
 PO BOX 592  
 TRAVERSE CITY, MI 49684

| Sample <b>82130</b>                             |             | Collected: <b>04/23/02 @ 09:00</b> |             | Received: <b>04/26/02 @ 14:48</b> |             |                  |
|---|-------------|------------------------------------|-------------|-----------------------------------|-------------|------------------|
| Description: <b>TRAVERSE CITY WATER PLANT</b>   |             |                                    |             |                                   |             |                  |
| Location: <b>2010 EASTERN AVE TRAVERSE CITY</b> |             |                                    |             |                                   |             |                  |
| Comment: <b>LAB ACIDIFIED PH&lt;2.0 DDA</b>     |             |                                    |             |                                   |             |                  |
| Storet Code                                     | Parameter   | EPA method                         | MDL (pCi/L) | Results (pCi/L)                   | MCL (pCi/L) | Date of Analysis |
| 1501  | GROSS ALPHA | 900.0                              | <b>2.3</b>  | <b>0.2 ± 1.2</b>                  | 15          | 07/05/02         |
| 3501  | GROSS BETA  | 900.0                              | 3           | <b>3 ± 2</b>                      | 50          | 07/05/02         |
| 9503  | RADIUM-226  | 903.1                              | 0.06        | <b>0.12 ± 0.05</b>                | 5.0         | 08/16/02         |
| 11501   | RADIUM-228  | 904.0                              | <b>0.6</b>  | <b>0.3 ± 0.4</b>                  | (combined)  | 07/31/02         |

Date Reported: **August 19, 2002**

Report ID: 0819020914571

Total Pages: **1**

Approved By: QA Officer: \_\_\_\_\_  
 Lab Manager: \_\_\_\_\_

*Signature*  
*Redacted for*  
*privacy*

Date: 08/19/02  
 Date: 08/19/02

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

MDL = Minimum Detection Limit MCL = Maximum Contaminant Level **NOTE: Gross Alpha results are not adjusted**