

# 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: C2001018840  
Customer Number: 73568000

System Name/Owner: City of Traverse City      WSSN / Pool ID: 6640  
Collection Address: 2010 Eastern Avenue, Traverse City 49684      Source: Type I  
Collected By: CARL HOLDER      Site Code: E-600  
Twp/Sec/Well #: City of Traverse/06/SURFACE WATER      Collector: Public Water Supply Operator  
County: Grand Traverse      Sample Date: 02/26/2001 10:00:00AM  
Sample Point: PLANT TAP      Received: 02/27/2001 1:26:00PM  
Sample Kit #: 32      Purpose: Routine Monitoring  
Chlorination: Yes      Water System: Public System Surface Water

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
10 mg/L	CHLORIDE (AUTOMATED)	02/28/2001		4 mg/L	CRA 19960701
0.9 mg/L	FLUORIDE (AUTOMATED)	02/28/2001	4.0 mg/L	0.1 mg/L	CRA 19960701
116 mg/L	HARDNESS AS CaCO3	02/28/2001		10 mg/L	CRA 19960701
Not Detected	IRON (AUTOMATED)	02/28/2001		0.1 mg/L	CRA 19960701
Not Detected	NITRATE AS N (AUTOMATED)	02/28/2001	10 mg/L	0.4 mg/L	CRA 19960701
Not Detected	NITRITE AS N (AUTOMATED)	02/28/2001	1 mg/L	0.05 mg/L	CRA 19960701
6 mg/L	SODIUM (AUTOMATED)	02/28/2001		5 mg/L	CRA 19960701
23 mg/L	SULFATE (AUTOMATED)	02/28/2001		5 mg/L	CRA 19960701

Lab Comments:  
None

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## Official Laboratory Report

**Report To:**

City of Traverse City  
 400 Boardman  
 Traverse City MI 49684

Sample Number: C2001018841  
 Customer Number: 73568000

System Name/Owner: City of Traverse City

WSSN / Pool ID: 6640

Collection Address: 2010 Eastern Ave- Water Plant, Traverse City

Source: Type I

Collected By: CARL HOLDER

Site Code: E-600

Twp/Sec/Well #: City of Traverse/ ? /SURFACE WATER

Collector: Public Water Supply Operator

County: Grand Traverse

Sample Date: 02/26/2001 10:00:00AM

Sample Point: PLANT TAP

Received: 02/27/2001 1:26:00PM

Sample Kit #: 36VO

Purpose: Routine Monitoring

Chlorination: Yes

Water System: Public System Surface Water

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
Not Detected	BENZENE	03/09/2001	0.005 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	BROMOBENZENE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	BROMOCHLOROMETHANE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	BROMOFORM	03/09/2001	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	BROMOMETHANE	03/09/2001		0.020 mg/L	CXVO 19960701
Not Detected	BUTYLBENZENE, NORMAL-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	BUTYLBENZENE, SEC-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	BUTYLBENZENE, TERT-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	CARBON TETRACHLORIDE	03/09/2001	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	CHLOROBENZENE	03/09/2001	0.1 mg/L	0.0005 mg/L	CXVO 19960701
0.0020 mg/L	CHLORODIBROMOMETHANE	03/09/2001	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	CHLOROETHANE	03/09/2001		0.020 mg/L	CXVO 19960701
0.0030 mg/L	CHLOROFORM	03/09/2001	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	CHLOROMETHANE	03/09/2001		0.05 mg/L	CXVO 19960701
Not Detected	CHLOROTOLUENE (COMBINED)	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DIBROMO-3-CHLOROPROPANE, 1,2-	03/09/2001		0.0025 mg/L	CXVO 19960701
Not Detected	DIBROMOETHANE 1,2- (EDB)	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DIBROMOMETHANE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROBENZENE,1,2-	03/09/2001	0.6 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROBENZENE,1,3-	03/09/2001		0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROBENZENE,1,4-	03/09/2001	0.075 mg/L	0.0004 mg/L	CXVO 19960701
0.0033 mg/L	DICHLOROBROMOMETHANE	03/09/2001	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROBUTANE, 1,4-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLORODIFLUOROMETHANE	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	DICHLOROETHANE,1,1-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROETHANE,1,2-	03/09/2001	0.005 mg/L	0.0005 mg/L	CXVO 19960701

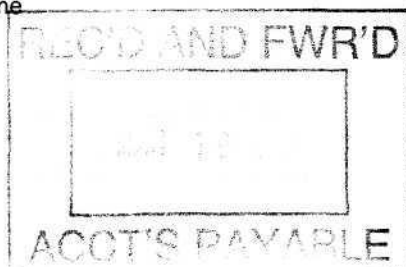
Michigan Department of Environmental Quality  
 Official Laboratory Report

03/14/2001  
 C2001018841  
 2010 Eastern Ave- Water Plant, Traverse City

Test Result	Analyte Name	Tested	Limit MCL	Rpt Limit	Test Performed
Not Detected	DICHLOROETHYLENE,1,1-	03/09/2001	0.007 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROETHYLENE,1,2-CIS	03/09/2001	0.07 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROETHYLENE,1,2-TRANS	03/09/2001	0.1 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPANE,1,2-	03/09/2001	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPANE,1,3-	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPANE,2,2-	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,1-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,3-CIS	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	DICHLOROPROPENE,1,3-TRANS	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	ETHYLBENZENE	03/09/2001	0.7 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	FLUOROTRICHLOROMETHANE	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	HEXACHLOROBUTADIENE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	HEXACHLOROETHANE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	ISOPROPYL BENZENE	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	ISOPROPYL TOLUENE, PARA-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	METHYL ETHYL KETONE	03/09/2001		0.02 mg/L	CXVO 19960701
Not Detected	METHYL ISOBUTYL KETONE	03/09/2001		0.02 mg/L	CXVO 19960701
Not Detected	METHYL TERT-BUTYL ETHER	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	METHYLENE CHLORIDE	03/09/2001	0.005 mg/L	0.0006 mg/L	CXVO 19960701
Not Detected	NAPHTHALENE	03/09/2001		0.001 mg/L	CXVO 19960701
Not Detected	NITROBENZENE	03/09/2001		0.01 mg/L	CXVO 19960701
Not Detected	PROPYLBENZENE, NORMAL-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	STYRENE	03/09/2001	0.1 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHANE,1,1,1,2-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHANE,1,1,2,2-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	TETRACHLOROETHYLENE	03/09/2001	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TETRAHYDROFURAN	03/09/2001		0.005 mg/L	CXVO 19960701
Not Detected	TOLUENE	03/09/2001	1 mg/L	0.0005 mg/L	CXVO 19960701
0.0083 mg/L	TOTAL TRIHALOMETHANES	03/09/2001	0.10 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROENZENE,1,2,3-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROENZENE,1,2,4-	03/09/2001	0.07 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHANE,1,1,1-	03/09/2001	0.2 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHANE,1,1,2-	03/09/2001	0.005 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	TRICHLOROETHYLENE	03/09/2001	0.005 mg/L	0.0004 mg/L	CXVO 19960701
Not Detected	TRICHLOROPROPANE,1,2,3-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	TRIMETHYLBENZENE,1,2,4-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	TRIMETHYLBENZENE,1,3,5-	03/09/2001		0.0005 mg/L	CXVO 19960701
Not Detected	VINYL CHLORIDE	03/09/2001	0.002 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	XYLENE, ORTHO-	03/09/2001	10 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	XYLENE,META-&PARA-	03/09/2001	10 mg/L	0.0005 mg/L	CXVO 19960701
Not Detected	XYLENES (TOTAL)	03/09/2001	10 mg/L	0.0005 mg/L	CXVO 19960701

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

CARL HOLDER  
 TRAVERSE CITY WATER TREATMENT PLANT  
 2010 EASTERN AVE  
 TRAVERSE CITY, MI 49686

Sample **79220** Collected: **02/26/01 @ 10:00** Received: **02/28/01 @ 15:01**  
 Description: **TRAVERSE CITY WTR TRTMNT PLNT**  
 Location: **2010 EASTERN AVE; WATER TRTMNT PLNT ENTRANCE TO DIST. SYSTEM**  
 Comment: **WSSN: 6640**

Storet Code	Parameter	EPA method	MDL (pCi/L)	Results (pCi/L)	MCL (pCi/L)	Date of Analysis
39337	GROSS ALPHA	900.0	2.1	<i>NO</i> -0.2 ± 0.9	15	03/28/01
39338	GROSS BETA	900.0	4	<i>NO</i> 2 ± 2	50	03/28/01

Date Reported: **April 4, 2001**

Report ID: 0404011514360

Total Pages: 1

Approved By:

QA Officer: -

*Signature*

Date: 040501

Lab Manager: -

*Redacted for privacy*

Date: 040501

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