



ENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

January 30, 2007

Mr. Christopher L. Buday, Director
Department of Public Works
Grand Traverse County
2650 LaFranier Road
Traverse City, Michigan 49686-8972

Dear Mr. Buday:

SUBJECT: Septage Receiving Facility Operating Plan Approval
Grand Traverse County Septage Treatment Facility

Department of Environmental Quality (DEQ) review of the revised Grand Traverse County Septage Treatment Facility (GTCSTF) operating plan, received on December 19, 2006, is complete. The purpose of the review was to ensure that the plan addressed all of the required elements of Part 117, Septage Waste Servicers, Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 117). The GTCSTF operating plan is approved.

The GTCSTF approved operating plan will be posted on the Septage Program website and can be viewed at www.michigan.gov/degseptage and clicking on the "Approved Septage Waste Receiving Facility Operating Plans" link.

The 15 radial mile service area described in Part 117 is in effect. In 2010 that service area will extend outward to 25 radial miles from the center of the GTCSTF provided the plant has the capacity to accept septage waste generated within that extended service area.

The GTCSTF must operate in accordance with the approved plan. If a change in operations or conditions is anticipated, please file an amendment to the plan at least thirty days prior to the proposed date for implementation and mail to the DEQ for review and posting.

If you have any questions regarding this matter, please feel to contact me.

Sincerely,

Matthew Campbell
Septage Waste Program Coordinator
On-Site Wastewater Unit
Drinking Water and Environmental Health Section
Lansing Operations Division
Water Bureau
517-335-4178

cc: Mr. Thomas A. Buss, Grand Traverse County Health Department
Mr. Mike Stiffler, DEQ



**GRAND TRAVERSE COUNTY
DEPARTMENT OF PUBLIC WORKS**

PUBLIC SERVICE BUILDING
2650 LAFRANIER ROAD
TRAVERSE CITY, MI 49686-8972
(231) 995-6039 • FAX (231) 995-6053

December 14, 2006

RECEIVED
MICH DEPT OF ENVIRONMENTAL QUALITY

DEC 19 2006

Water Division
Groundwater Section
WELL CONSTRUCTION UNIT

Mr. Matthew Campbell
Septage Program Coordinator
Drinking Water and Environmental Health Section
Water Bureau
Constitution Hall
2nd Floor, North
P.O. Box 30273
Lansing, MI 48909-77773

RE: Grand Traverse County Septage Treatment Facility

Dear Matt;

Enclosed with this letter please find the following documents to support our request for approval by the State of Michigan:

- 1) Proof of publication indicating that a notice of the proposed operating plan was published in the Traverse City Record Eagle;
- 2) Proof that the operation plan was mailed to the Health Officers located in Antrim, Benzie, Grand Traverse, Kalkaska and Leelanau Counties;
- 3) Proof that the operations plan was mailed to each legislative body of each city, village and township located in whole or in part in the service area;
- 4) Proof that the operation plan was published on our website; <http://www.co.grand-traverse.mi.us/home.htm>; and
- 5) The receiving capacity of the Grand Traverse County Septage Treatment Facility is 90,000 gallons per day.

Please let me know if you need additional information. Thank you for your assistance.

Sincerely,

Christopher L. Buday
DPW Director

W/attachment

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RECYCLED PAPER

PUBLIC NOTICE

The Grand Traverse County Septage Treatment Facility (GTCSTF) currently is receiving and treating domestic septage, domestic holding tank waste, special commercial waste and will continue to receive this waste in the future.

On October 12, 2004 House Bill 5771 and 5772 were signed into law by Governor Jennifer M. Granholm. The Bills amend Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451. Part 117 regulates the pumping, disposal and land application of septage waste.

In accordance with the requirements of Section 11715b of Part 117, the Grand Traverse County Board of Public Works has prepared a draft Septage Receiving Operating Plan. A copy of the proposed Operating Plan is available for review at Grand Traverse County Department of Public Works, 2650 Lafranier, Traverse City, Michigan, during normal business hours.

This public notice is a request for public comments on the proposed Operating Plan. Please submit any written comments to STF, at the address below by December 10, 2006.

Grand Traverse County Septage Treatment Facility
Grand Traverse County DPW
2650 Lafranier Road
Traverse City, MI 49684

RECEIVED
MICH DEPT OF ENVIRONMENTAL QUALITY

NOV 22 2006

Water Division
Groundwater Section
WELL CONSTRUCTION UNIT

**GRAND TRAVERSE COUNTY
SEPTAGE TREATMENT FACILITY
OPERATING PLAN
September 13, 2006**

Facility Name & Address:

Grand Traverse County
Septage Treatment Facility
1717 Ahlberg Road
Traverse City, Michigan 49686

Facility Owner & Address:

Grand Traverse County
Dept. of Public Works
2650 LaFranier Road
Traverse City, Michigan 49686

Facility Operator & Mailing Address:

OMI
606 Franklin Street
Traverse City, Michigan 49686

Regulatory Authority:

This plan has been developed in response to the regulatory requirements of Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The Grand Traverse County Septage Treatment Facility has accepted septage and holding tank waste since 2005 and plans to continue to receive septage, holding tank and grease trap wastes. Special waste may delivered to GTCSTF on a case by case basis. Subsequently, this Septage Treatment Facility Operating Plan has been prepared pursuant to the requirements of Section 324.11715b.

Purpose:

The purpose of the Grand Traverse County Septage Treatment Facility (GTCSTF) is to serve the residents of participating townships by addressing difficulties associated with proper disposal of septage waste material including holding tanks and restaurant grease traps. The facility will eliminate the problems associated with land application of septage waste including frozen soil conditions in winter months, loss of required isolation areas due to continued development of neighboring properties, loss of disposal properties due to increased public pressure.

The treatment facility will utilize membrane bioreactor (MBR) for flow treatment along with an autothermophilic aerobic digester (ATAD) for biosolids treatment. Effluent from the MBR will be discharged into the

Garfield Township wastewater collection system for final treatment at the Traverse City Regional Wastewater Treatment Facility. The ATAD will produce a Class A biosolids which will be dewatered to cake-like material for beneficial re-use.

Location and Surrounding Area:

The GTCSTF is located next to the Grand Traverse County Road Commission facility and the Grand Traverse County Humane Society. The parcel is zoned Agriculture with Industrial zoned property to the east and Agriculture zoned property on three sides. The facility is located on a ridge above the Boardman River valley.

Categories of Acceptable Material:

In general, the GTCSTF will accept domestic household septage waste, holding tank waste, restaurant grease trap material, portable toilet material and special waste. The facility may accept special waste such as industrial type waste material, landfill leachate or other material as long as that material in its delivered state is not disruptive to the plant operations as determined by Grand Traverse County. Waste that is disruptive to plant operations will not be accepted. All waste is subject to testing upon delivery and may be rejected if disruptive to plant operations.

Service Area:

The service area for the GTCSTF is defined as all Townships within Grand Traverse County and Elmwood Township in Leelanau County. Material from other Townships will be accepted provided the following:

1. There is available treatment capacity AND
2. The Township where the material originates has passed a resolution allowing the GTCSTF to provide the treatment service.

Fee Structure:

The GTCSTF will provide treatment on delivered material under the following fee structure:

- | | |
|-----------------------|---------------------|
| 1. Septage: | 12 cents per gallon |
| 2. Holding Tank: | 4 cents per gallon |
| 3. Restaurant Grease: | 12 cents per gallon |

Fees are based on facility operation costs, maintenance costs, replacement costs and capital costs. Special waste fees will be determined on a case by case basis. GTCSTF may adjust the fee structure in the future.

Hours of Operation:

The GTCSTF will initially be open to receive material seven days per week from 7:00 AM to 10:00 PM local time. Emergency access will be available during non-operating hours via phone contact with plant operators or County staff. GTCSTF may adjust the operating hours in the future.

Hauler Licensing:

Material will be received by the GTCSTF from those septage-servicing agents licensed by the State of Michigan and Grand Traverse County (GTC). County licensing process will require each service agent to enter into a contract with GTC and received the required training for use of the facility.

Delivery and Treatment Process:

The GTCSTF will receive material from septage waste vehicles licensed and authorized to use the facility. Loads will be discharged from the vehicles and into the facility through one of two truck bays. The truck bays are drive thru bays with automatic doors operated such that the bay is completely enclosed during the unload process.

Unloading of the vehicles uses a quick connect couple hose attached directly to the vehicle. The material is processed through a rock trap, meter, multiple sensors for detecting "hot" loads and finally through a ¼" screen. Subsequent to passing through screen the material leaves the unload building through underground piping and is sent to a 100,000 gallon equalization tank.

The equalization tank provides volume of material storage to provide a measured feed into the bioreactor vessel. Material is pumped from the equalization tank through a 0.7-millimeter screen and into an on-site pump station. The pump station then pumps the screened material to the bioreactor at a controlled rate.

The material in the bioreactor is aerated and biologically treated while a portion is passed through a membrane canister; that portion of the material that passes through the membrane as permeate/effluent is sent to a post equalization tank. If desired, the effluent can be stored in the post equalization tank for discharge into the sewer collection system during off-peak hours.

As the concentration of solids accumulates in the bioreactor a portion is drawn off, dewatered and sent to the ATAD for biosolids processing. Through aeration and detention time the ATAD unit produces a Class A biosolids for beneficial reuse.

Odor Control

The GTCSTF utilizes a biofilter for odor control. Each component in the receiving and treatment process is covered and enclosed. The head

space within each vessel as well as the space within the receiving building is ducted to the odor control system. The air is processed through the ATAD unit for conditioning and sent on to the biofilter. The air enters the filter through a set of distribution piping located under a stock of root material. Bacteria growth on the root material provides the air treatment and removes the odor. Once passing through the root media the cleaned air is discharged into the environment.

4717
D. J. Co. DPW


AFFIDAVIT OF PUBLICATION

STATE OF MICHIGAN
County of Grand Traverse

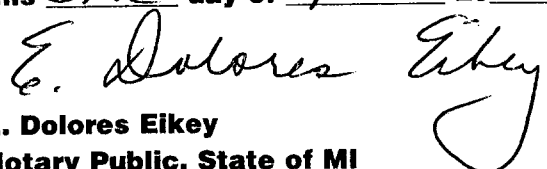
Michael C. Nau being duly sworn deposes and says the annexed printed copy of notice was taken from the Traverse City RECORD-EAGLE, a newspaper printed and circulated in said State and County, and that said notice was published in said newspaper on the following dates:

Nov 2, 2006

that he or she is the agent of the printers of said newspaper, and knows well the facts stated herein



Subscribed and sworn to before
this 3rd day of Nov 2006



E. Dolores Eikey
Notary Public, State of MI
County of Grand Traverse
My Commission Expires September 14, 2011
Acting in County of Grand Traverse

LEGAL NOTICE
PUBLIC NOTICE
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In accordance with the requirements of Section 11715b of Part 117, the Grand Traverse County Board of Public Works has prepared a draft Septage Receiving Operating Plan. A copy of the proposed Operating Plan is available for review at Grand Traverse County Department of Public Works, 2650 Lafranier, Traverse City, Michigan, during normal business hours.
This public notice is a request for public comments on the proposed Operating Plan. Please submit any written comments to STF, at the address below by December 10, 2006.
Grand Traverse County Septage Treatment Facility
Grand Traverse County DPW
2650 Lafranier Road
Traverse City, MI 49684
NOVEMBER 2, 2006 - 1T

Matthew Campbell - Re: GTCSTF Operating Plan

From: <cbuday@co.grand-traverse.mi.us>
To: "Matthew Campbell" <Campbelm@michigan.gov>
Date: 1/26/2007 12:16 AM
Subject: Re: GTCSTF Operating Plan
CC: <Chris_Buday/Public_Works/GTC@co.grand-traverse.mi.us>, "Richard Falardeau" <FALARDER@michigan.gov>

Hello Matt,

Thank you for all your help.

Grand Traverse County wants to include the Part 117, 15 radial mile area requirement. Also, Grand Traverse County did pass an ordinance requiring any septage or holding tank waste generated in Grand Traverse County to discharge at the Septage Treatment Facility.

It may take a couple days to send you the ordinance since I am in California taking a contracting class for the military (not mobilization related). I will be back in my office the first week in February.

V/r,

Christopher L. Buday, Director DPW
Grand Traverse County
2650 LaFranier
Traverse City, MI 49686
(231) 995-6054
(231) 995-6053 fax
cbuday@co.grand-traverse.mi.us



Septage Receiving Facility Checklist

Name of Septage Receiving Facility:
Grand Traverse County STF

DEQ Reviewer: **M. Campbell**

Review Date: **1/23/07**

Additional Info. Rec'd. 12/19/06

Address of Septage Receiving Facility:
**1717 Ahlberg Road
Traverse City, MI 49686**

Facility Contact: **Mr. Chris Buday, Director BPW**
Telephone Number: **231-995-6054**

The following information must be included in the Operation Plan in order to receive DEQ approval:

<u>Requirement</u>	<u>Yes</u>	<u>No</u>	<u>Comments</u>
1. Location of septage RF.	X		
2. Hours of operation.	X		M - F, 7 a.m to 7 p.m.
3. Categories of septage waste the RF will receive.	X		Domestic septage, food establishment septage, and portable toilet waste. Additional wastes (liquid industrial wastes) may be accepted.
4. If food establishment septage is accepted, how is the RF ensuring that the FES meets the 1:3 ratio mandated by law? (Not OP req't.)	X		*No information.
5. Fee structure charged to hauler.	X		12 cpg for domestic septage, 4 cpg for holding tank waste, and 18 cpg for FES (cpg - cents per gallon).
6. Service area (septage acceptance) description of RF defined in detail.	X		All townships within Grand Traverse County and Elmwood Township in Leelanau County.

Septage Receiving Facility Checklist

Name of Septage Receiving Facility: **Grand Traverse County STF**

<u>Requirement</u>	<u>Yes</u>	<u>No</u>	<u>Comments</u>
7. *Notice of proposed operation plan:			
a) Was it mailed to county HD and legislative body of each city, village and township located in whole or in part of the service area?	X		
b) Was it public noticed in the local newspaper?	X		Published in Record Eagle on 11/2/06.
c) Was it posted on the facility website?	X		www.co.grand-traverse.mi.us/home.htm
9. Did the notice contain the following?			
a. Statement that the RF proposed to or is currently receiving and will continue to receive septage waste for treatment.	X		
b. Statement in the notice that the proposed operating plan is available for review during normal work hours.	X		
c. A request for written comments on the proposed operation of the RF and the deadline for receipt of such comments, which shall not be less than 30 days after publication, posting, or mailing of the notice.	X		
d. Receiving facility capacity.			
I) Hydraulic capacity:	X		90,000 gallons per day.
II) Organic capacity:		X	
*III) Wet weather operation considerations (CSO & SSO)			Nothing noted in the operating plan.
10. Other conditions established for the RF.		X	