



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

April 2, 2013

Mr. Shane Batdorff
Village of Stockbridge
P.O. Box 115
Stockbridge, Michigan 49285-0115

Dear Mr. Batdorff:

SUBJECT: Septage Waste Receiving Facility Operating Plan Approval
for the Village of Stockbridge Wastewater Treatment Facility

The Department of Environmental Quality (DEQ), Office of Drinking Water and Municipal Assistance (ODWMA), has completed the review of the Village of Stockbridge Wastewater Treatment Facility (Facility) Septage Waste Operating Plan (Operating Plan). The Operating Plan is approved and meets the requirements outlined in Section 11715b of Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The Facility's approved Operating Plan will be posted on the Septage Waste Program's Website and can be viewed at www.michigan.gov/septage by clicking on the "Approved Septage Waste Receiving Facility Operating Plans" link.

The Facility must operate in accordance with the approved Operating Plan. If a change in operations or conditions is anticipated, please file an amendment to the Operating Plan at least thirty (30) days prior to the proposed date for implementation of the change.

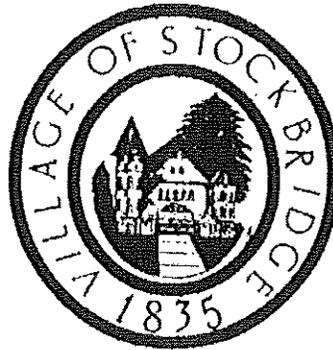
Thank you for your continued environmental stewardship and service to those with on-site wastewater systems in and around your community and those who service them. If you have any questions regarding this matter, please contact me via email at burutolu@michigan.gov; at either of the telephone numbers listed below; or at DEQ, ODWMA, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Ebinimi Burutolu, Soil Scientist
Septage Waste Program
Environmental Health Programs Unit
Environmental Health Section
Office of Drinking Water
and Municipal Assistance
Telephone (Warren): 586-753-3773
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Telephone (Lansing): 517-241-4598
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cc: Ms. Elaine J. Venema, Fleis Vandenbrink Engineering, Inc.
Mr. Jim Wilson, Environmental Health Director, Ingham County Health Department
Ms. Cheryl Bartley, Lansing District Office, DEQ
Mr. Richard Falardeau, DEQ
Mr. Matthew Campbell, DEQ

**VILLAGE OF STOCKBRIDGE
WASTEWATER TREATMENT FACILITY
SEPTAGE OPERATING PLAN**



FEBRUARY 2013

Prepared by:



**FLEIS & VANDENBRINK
ENGINEERING, INC.**

Offices in Indiana and Michigan

I. Introduction/Purpose

The Village of Stockbridge owns and operates a wastewater treatment facility (WWTF). The WWTF is currently operating at approximately 57% of its capacity and expects to remain at that operating level over the next 10-20 years with its current customer base (municipal residential and commercial clients located in the Village).

The Village would like to expand its customer base to include a portable toilet service provider operating in Ingham and surrounding counties. Liquid waste from the portable toilet provider is regulated under the Michigan Public Act 451 Part 117 regulations governing receipt and treatment of domestic septage.

The Village had previously accepted septage from this customer on a trial basis in 2009 with no issues.

II. Existing WWTF Design Basis Summary/Description

The Village of Stockbridge Wastewater Treatment Facility located at 611 S. Williams Street, Stockbridge, Michigan, treats the domestic sewage collected from the entire Village of Stockbridge. The original facility was constructed in 1965 and has been upgraded through two large improvements projects in 1984 and more recently in 2006. The WWTF is currently designed to treat flows up to 175,000 gallons per day (gpd). The influent flow averaged approximately 100,000 gpd during 2011.

The WWTF is a lagoon system consisting of one aerated lagoons, two facultative lagoons, and a polishing lagoon. Ferric chloride is fed after the aerated lagoon to allow phosphorus precipitation in Lagoons No. 2 and No. 3. Treated effluent is discharged either via spray irrigation to the groundwater to via surface water discharge to the Jacobs Lake Drain.

Table 1 summarizes the current WWTF design basis.

Table 1 – Existing WWTF Design Summary

Design Average Flow:	175,000 gpd
Design Maximum Daily Flow:	263,000 gpd
Lagoon Sizes:	
Lagoon No. 1 (aerated):	3.3 acres (divided into 2 cells)
Lagoon No. 2 (facultative):	3.8 acres
Lagoon No. 3 (facultative):	1.9 acres
Lagoon No. 4 (polishing):	5.7 acres
Discharge Type:	Groundwater OR Surface Water
Discharge Period:	Seasonal (April 1 to October 31)
Organic Loading:	34 lbs BOD5/ac/day for Lagoons No. 1, 2 and 3 Lagoon No. 4 provides additional treatment/storage
Sludge Storage:	Bottom two feet of each lagoon
Freeboard:	Three feet available

III. Proposed Septage Receiving Operations

The Village will only accept domestic septage, which is defined in Michigan Public Act 451, Part 117, §11701(f) as, septage pumped from a home septic tank, recreational vehicle, cesspool, portable toilet, type III marine sanitation device, or similar storage or treatment works that receives only domestic septage. No other types of waste will be accepted. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar facility that receives either commercial wastewater or industrial wastewater and does not include grease removed from a grease interceptor, grease trap, or other appurtenance used to retain grease or other fatty substances contained in restaurant waste.

The Village will only accept domestic septage from local septic servicing haulers that meet the conditions of this Septage Operating Plan and have entered into an acceptable agreement with the Village. At the time of publication of this Plan, only one hauler, a local portable toilet service provider, meets these conditions.

The Village proposes to receive septage from the portable toilet facility through the existing connection to the Village sanitary sewer system (which is currently not in use).

Portable Toilet Dump Station (located at the toilet facility site)

The portable toilet user is equipped with a metered dumping station at their facility, located at 4980 Bird Drive, Stockbridge, Michigan. This dumping station is connected into the Village's sewer system eventually entering the Village's main lift station and discharging to the WWTF. The portable toilet business is not currently using the sanitary sewer connection, but is hauling its waste to approved septage receiving facilities in the county. If this Plan is approved, the local portable toilet business would discharge approximately 18,000 gallons of metered toilet waste into the Village collection system annually. Discussions with the portable toilet business indicate that waste with large amounts of paper and rag debris would not be dumped into the sewer system, but would be hauled to another septage receiving facility.

IV. Septage Receiving Maintenance

Portable Toilet Dump Station (located at the toilet facility site)

The meter at the portable toilet dump station facility must be inspected periodically for correct operation. It should be calibrated as recommended by the manufacturer. The dump station must be kept clean.

V. Record Keeping

Records associated with septage receiving will be kept on file at the WWTF, pursuant to applicable federal, State, and local regulations.

The septage volume received by the WWTF for each hauler and individual load will be recorded and kept on file. Applicable laboratory analysis for samples taken for any septage load will also be kept on file.

In addition, septic haulers must be licensed by the State of Michigan. A copy of servicing and vehicle licenses will be kept on file at the treatment plant.

VI. Fees

A fee for septage treatment is set at a cost per 1,000 gallons and is reviewed annually by the Village of Stockbridge. The current fee is set at \$6.05 per 1,000 gallons in addition to a readiness to serve fee of \$70.12 charged quarterly.