

STATE OF MICHIGAN

DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING



August 16, 2011

Mr. Mark Bowman, Manager Gogebic-Iron Wastewater Treatment Facility 700 W. Cloverland Drive Ironwood, MI 48838-1013

Dear Mr. Bowman:

Review of the Gogebic-Iron Wastewater Septage Receiving Facility operating plan by the Department of Environmental Quality (DEQ) Environmental Resource Management Division, On-Site Wastewater Unit, Solid Waste and Land Application Section, is complete. The operating plan is approved. The plan 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 receiving facility must operate in accordance with the approved plan. If change in operations or conditions is anticipated, please file an amendment to the plan at least thirty (30) days prior to the proposed date for implementation. The facility operating plan will be posted on the Septage Program Website at www.michigan.gov/septage and then clicking on "Approved Septage Waste Receiving Facility Operating Plans under Program Forms and Downloads.

Thank you for your continued environmental stewardship and service to those with onsite septic systems in and around your community. If you have any questions, regarding this matter, please contact me.

Sincerely:

Jon D. Chinnery, Sr.

Environmental Quality analyst

On-Site Wastewater Unit

Solid Waste and Land Application Section Environmental Resource Management Division

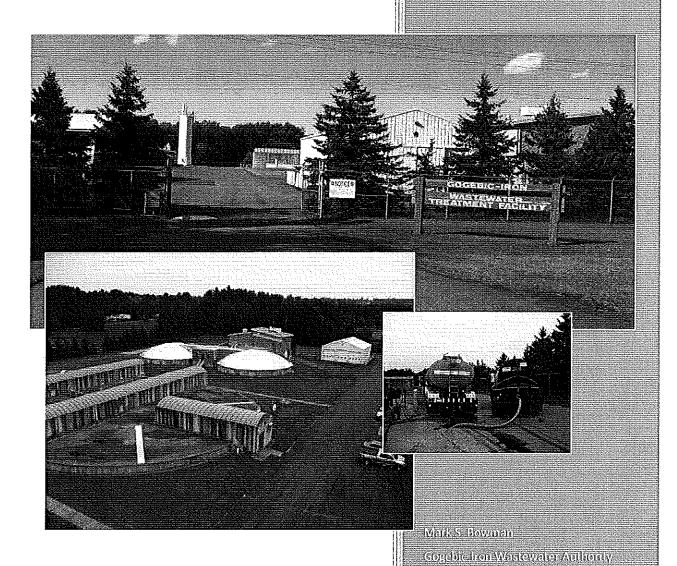
Phone: 517-241-1452 FAX: 517-241-4051

E-Mail: chinneryj@michigan.gov

cc: Mr. Matthew Campbell, DEQ

Mr. Steve Casev, DEQ

Septage Receiving Operating Plan



I. AUTHORIZATION

This Operating Plan for the Gogebic-Iron Wastewater Authority (Authority) Septage Facility is established pursuant to Act 381 PA of 2004 and Part 117 of 1994 PA 451, as amended, being MCL 324.11701 *et seq.*, and the rules promulgate there under by the Michigan Department of Environmental Quality.

It must be noted that liquid waste haulers, licensed and providing service within the State of Wisconsin are not affected by the above sited regulations

II. DEFINITIONS

- A. "Domestic septage" means liquid or solid material removed from a septic tank, cesspool, portable toilet, type III marine sanitation device, or similar storage or treatment works that receives only domestic sewage. Domestic septage does not include liquid or solid material removed from a septic tank, cesspool, or similar facility that receive 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.
- B. "Septage Receiving Facility Procedures Manual" means specific criteria established by the Authority detailing procedures for such items as; registration and bonding requirements of licensed septage haulers, sampling requirement, billing procedures, capacity priority, and general operation and maintenance for the Authority's Receiving Facility
- C. "Operating Plan" means a plan developed by the Authority in accordance with PA 381 of 2004 by the Authority for receiving septage waste that specifies the location; categories of septage waste that will be received; capacity; the service area; and hours of operation.

III. PURPOSE

This Operating Plan sets forth the general rules for the operation of the Authority's Septage Receiving Facility for the purpose of receiving septage from liquid waste haulers, with specific provisions for haulers accepting waste within the State of Michigan.

IV. BACKGROUND

Since 1986, the Authority has operated a regional facility to provide wastewater treatment services for its Members and the surrounding area. Because of its unique relationship with its Member, the City of Hurley Wisconsin, the Authority provides septage treatment to Wisconsin residents through septage

service providers as long as they are also licenced by the State of Michingan. Typically, the volume of septage received for treatment from within the State of Wisconsin is about 150,000 gallons per year.

V. LOCATION AND CONTACT INFORMATION

Mark Bowman, Manager Gogebic-Iron Wastewater Treatment Facility 700 W Cloverland Drive Ironwood, MI 4993-1013

Phone: (906) 932-5322 FAX: (906) 932-5398

Email: bowman.m@giwa.org

VI. SERVICE AREA

The Septage Receiving Facility shall accept and receive for treatment septage waste generated in:

- A. Gogebic County Michigan
- B. Iron County Wisconsin
- C. The Facility will also receive septage waste generated outside of its service area, providing adequate capacity is available. Should demand exceed treatment capacity, waste generated within the Contributing Members service area will be given first priority.

VII. CATEGORIES OF WASTE TYPES:

The Septage Receiving Facility will accept of wastes similar in characteristics to that of domestic and non-processed commercial wastewater.

A. Waste Types Accepted Include:

- 1. Domestic and non-processed commercial septage
- 2. Portable Toilets
- 3. Other Storage or treatment works that receive domestic and non-processed commercial sewage

B. Wastes Types Not Accepted:

- 1. Grease Traps
- 2. Forest Service vault toilets

3. Food establishment septage

C. Other Wastes

The Authority does accept other types of liquid wastes, but only on a case by case bases. Prior to granting approval to accept other waste types, each waste is pre-screening through a process that characterizes the material for treatability and suitability to meet discharge limitations.

VIII. RECEIVING FACILITY CAPACITY

During normal flow conditions, the Authority shall allow for the treatment of a maximum of 38,000 gallons of septage waste per day. During periods of wet weather when hydraulic condition limit the reatment facility's capacity, the maximum volume of septage waste accepted for treatment will be restricted to reflect current flow conditions.

In the event flow conditions restrict or eliminate the treatment of septage waste, at the Authority discressions, the Authority may provide for the temporary storage of up to 144,000 gallons of septage waste is the Waste Holding Tanks that are available on site.

IX. HOURS OF OPERATION

Weekdays – 7:00 a.m. through 5:00 p.m. After 4:00 p.m. the gates MAY be closed and locked for security reasons. From 4:00 P.M. until 5:00 P.M. there is at least one plant operator on site that will open the main gate when notified by telephone at 906-932-5348 or 906-932-5322.

Weekends/Holidays – 7:00 a.m. to 3:00 p.m. The main gate may be closed, preventing entry, unless prior arrangements have been made with the on-duty operator.

Also see the Liquid Waste Acceptance Application and Permit as well as Appendix A to the Acceptance Permit.

X. SEPTAGE WASTE HAULERS

In general, the Facility shall only receive septage waste from a licensed septage waste hauler using al licensed septage waste vehicle. For a more comprehensive review of the rules and regulations septage waste haulers must follow see the Liquid Waste Acceptance Application and Permit as well as Appendix A to the Acceptance Permit.

XI. OPERATOR

The Septage Receiving Facility will be operated by the staff of the Gogebic-Iron Wastewater Board

XII. OPERATING CONDITIONS

Access, Transfer, Discharge, Testing and Maintenance policies and procedures are outlined in the Liquid Waste Acceptance Application and Permit as well as Appendix A to the Acceptance Permit.

XIII. FEES AND BILLING

As per the Liquid Waste Acceptance Permit:

"Charges for liquid wastes accepted at the Gogebic-Iron Wastewater Authority's treatment facility will be billed out on the first of each month for wastes received during the previous month. The volume billed is based on the loads recorded on the Liquid Waste Log Sheets.

<u>PAYMENTS:</u> Checks should be made payable to: *Gogebic-Iron Wastewater Authority*. Payment in full must be received on or before the last day of the month in order to avoid interest charges. All past due balances will be subject to interest charged at the rate of 1.5% per month or 18% per annum.

<u>CHARGES</u>: Costs for dumping Liquid Waste into the Gogebic-Iron Wastewater Authority's treatment facility is subject to a schedule of charges based on the strength and nature of a particular type of liquid waste. Rates are subject to change and may be adjusted periodically as required. Responsible parties wishing to obtain an estimate of costs for a particular type of liquid waste, should contact the Plant Manager"

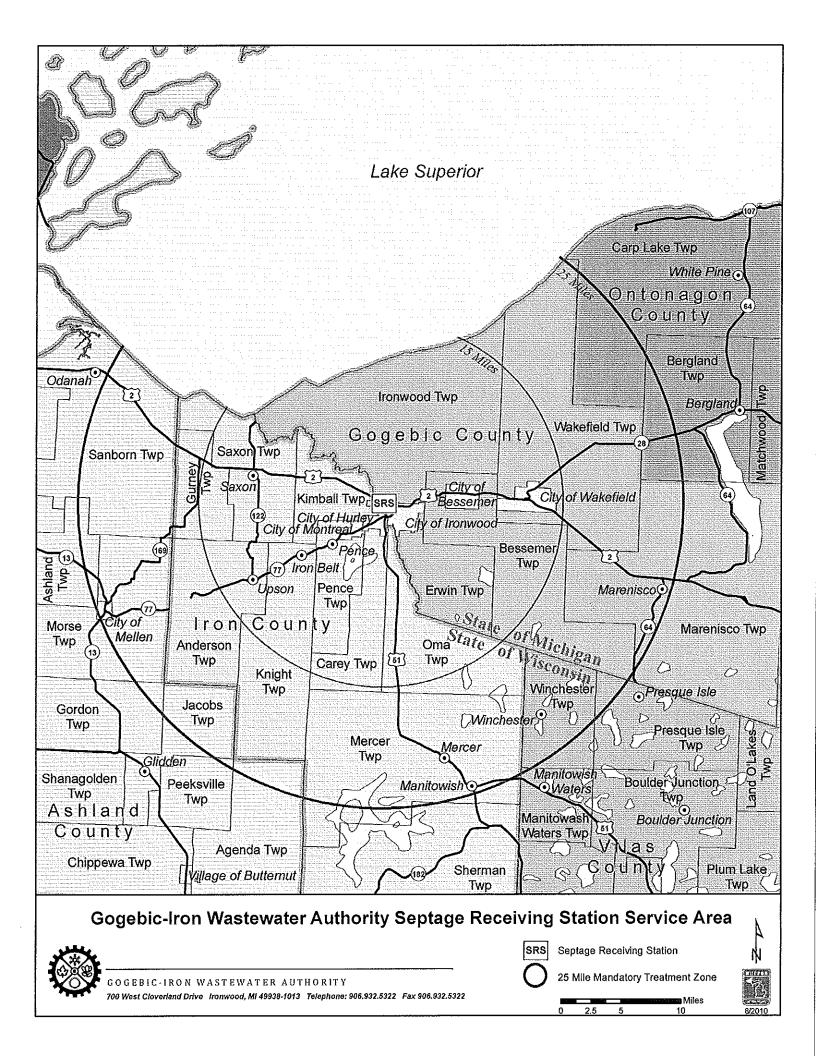
Effective August 1, 2011 the charge for septage waste will be \$75.31/1,000 gallons

XIV. APPROVAL AND MODIFICATION

This Operating Plan shall not take effect until approved the Michigan Department of Environmental Quality. Any major modifications to this Operating Plan must also be approved by the MDEQ.

APPENDIX A

Map of Service Area



APPENDIX B

Liquid Waste Acceptance Application

SEPTAGE WASTE ACCEPTANCE APPLICATION

SEPTAGE WASTE HAU	LER INFORMATI	ON:		
Name of Firm:		Contact Perso	on:	
Address:		Title:		
		Telephone #_		
		Fax #		
Name as it appears on your	liquid waste permit l	License		
MIDNR Septage Hauling C	Operator's License#_			
WDNR Septage Hauling B	usiness License #			
List the MDEQ or WDNR Gogebic-Iron Wastewater 1		each vehicle you wish have	e registered to acce	pt waste from at the
		Lic. Plate#	Decal #	
Describe all the types and a the Gogebic-Iron Wastewat	annual volumes of ea	nch liquids waste you are ap	plying to have acce	epted for treatment a
TYPE	ESTIMATI	ED ANNUAL VOLUME		
☐ Septic Tank				
Holding Tank		<u>.</u>		

APPENDIX C

Liquid Waste Acceptance Permit

LIQUID WASTE ACCEPTANCE PERMIT

<u>LICENSES</u>, <u>CERTIFICATES</u>, <u>AND MANIFESTS</u>: All domestic septage and holding tank wastes are required to be transported to the facility in vehicles that have a valid license from the State of Michigan or the State of Wisconsin. All other trucked waste material must be accompanied by a Uniform Hazardous Waste Manifest (US EPA Form 8700-22).

REGIONAL AND LOCAL SEWER USE ORDINANCES: Waste haulers must abide by all Regional and Local Sewer Use Ordinances. These ordinances define an extensive list of definitions, rules and regulations that liquid waste haulers are required to comply with in addition to those listed here. By signing this document, liquid waste haulers agree to comply with all the terms and conditions of Regional and Local Sewer Use Ordinances.

Appendix A describes many of the specific ordinances that pertain to the disposal of liquid waste material. If you do not have a copy of Appendix A, or wish to obtain a copy of the Regional and/or Local Sewer Use Ordinances, you may contact the Authority's office.

Please note that these Ordinances contain severe penalties in addition to those described herein.

<u>FACILITY HOURS:</u> Weekdays – 7:00 A.M. through 5:00 P.M. After 4:00 P.M. the gates MAY be closed and locked for security reasons. From 4:00 P.M. until 5:00 P.M. there is at least one plant operator on site that will open the main gate when notified by telephone at 906-932-5348 or 906-932-5322.

Weekends/Holidays - 7:00 A.M. to 3:00 P.M. The main gate may be closed, preventing entry, unless prior arrangements have been made with the on-duty operator.

DISCHARGE LOCATION: Liquid waste material may be discharged into the facility's system only as directed by facility personnel. The normal discharge location is the Liquid Waste Disposal Station, located at the southeast section of the facility. Alternate discharge locations may be made available upon request. Parties wishing to use these alternate locations must receive special permission prior to use (see Special Conditions section).

<u>LOAD VERIFICATION:</u> Each responsible party and/or their agents are required to log-in each load into the facility's "Liquid Waste Log Book" <u>BEFORE</u> any material is allowed to be discharged into the facility. The Liquid Waste Log Book contains individual sections for each registered responsible party and/or it's agents. Upon turning to their specific section, each responsible party and/or their agents will find a form on which to record the date and time the material was brought in, their truck's MDEQ/WDNR ID number, the driver's name, the nature of the liquid waste, and its volume (in gallons).

Vehicles.

- Vehicles shall carry a copy of their registration and permit issued in accordance with the hazardous materials transportation act and shall produce it upon request of the Michigan Department of Environmental Quality or peace officer.
- All vehicles and containers used to transport liquid industrial waste shall be closed or covered to prevent the escape of liquid industrial waste, and the outside of all vehicles, containers, and accessory equipment shall be kept free of liquid industrial waste and its residue.
- 3. All portions of a vehicle that has been in contact with a liquid industrial waste material shall be <u>cleaned</u> and <u>decontaminated</u> before the transport of any incompatible or nonwaste material. Transporters who own or legally control a vehicle or equipment shall maintain as part of the transporter's records documentation of decontamination before the vehicle is used for the transportation of nonwaste material or product.

<u>SAMPLING</u>: As part of the conditions to discharge liquid waste material into this facility, all responsible parties and/or their agents shall allow unconditional sampling of their waste materials. Sampling is performed in the following manner:

After a driver has logged-in a load, the waste haul driver and/or a plant operator may take a sample of the waste material being discharged.

Samples are taken to verify the waste's contents and to assure the correct liquid waste charges are assessed (see Special Conditions section for other provisions that may apply to sampling requirements).

SANITARY CONDITIONS: The discharge of liquid waste material can and will at times cause the discharge of waste material to areas other than those directed (spills, leaks, etc.). The responsible party and/or their agents (drivers) are expected, and required, to clean up after themselves. A self-draining yard hydrant has been provided at the Disposal Station for this purpose. During colder periods, the hose will be located just inside the upstairs door of the Headworks building (the building just to the west of the Disposal Station). Drivers are required to use this water source to assist in cleaning any and all spills. The yard hydrant must be turned OFF after each usage, and in the winter, the hose MUST be removed and returned to its proper place in the Headworks building. In addition, a number of 5-gallon plastic pails have been provided for the disposal of any bulk material.

BILLING: Charges for liquid wastes accepted at the Gogebic-Iron Wastewater Authority's treatment facility will be billed out on the first of each month for wastes received during the previous month. The volume billed is based on the loads recorded on the Liquid Waste Log Sheets.

<u>PAYMENTS:</u> Checks should be made payable to: *Gogebic-Iron Wastewater Authority*. Payment in full must be received on or before the last day of the month in order to avoid interest charges. All past due balances will be subject to interest charged at the rate of 1.5% per month or 18% per annum.

<u>CHARGES</u>: Costs for dumping Liquid Waste into the Gogebic-Iron Wastewater Authority's treatment facility is subject to a schedule of charges based on the strength and nature of a particular type of liquid waste. Rates are subject to change and may be adjusted periodically as required. Responsible parties wishing to obtain an estimate of costs for a particular type of liquid waste, should contact the Plant Manager (see address above).

<u>SPECIAL CONDITIONS</u>: *Material of unusual strength, odor, or other irregularities* – If a responsible party wishes to dump a load that fits this description, they MUST make arrangements prior to discharging, to assure the liquid waste's compatibility and/or to minimize the impact on the facility's discharge waters and the surrounding area. A responsible party and/or it's agents who fails to comply with this condition WILL NOT ONLY PLACE IN JEOPARDY their privileges to use this facility, but are exposed to all the liabilities for any damages incurred.

Special sampling: Any liquid waste that meets the above conditions may be required to be tested prior to discharge into the facility.

Discharge locations: Use of manholes — If a responsible party and/or its agents receive temporary permission to discharge into an alternate (manhole) location, their driver must replace the manhole cover each and every time the cover is removed. In addition, as this practice posses a hazard of injury to persons and equipment, their driver must attend the manhole throughout the time the cover is removed and until the cover is replaced. Replacing the cover in any position other than its fully seated position is not acceptable. A responsible party and/or it's agents who's driver(s) do not strictly adhere to this section are subject to immediate, irrevocable, and permanent removal of discharge privileges.

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT: The undersigned, as authorized representative of the indicated company or individual, hereby agrees to defend, indemnify and hold harmless the Gogebic-Iron Wastewater Authority, its Board members, officers, agents, employees and principals from any and all claims, damages, causes of action, fines, penalties or other expenses incurred by the Gogebic-Iron Wastewater Authority's treatment facility in the connection with the acceptance and treatment of any materials supplied pursuant to this agreement. This agreement shall apply to the undersigned, and any of its agents, servants, principals, or successors in interest. This indemnity agreement is intended to completely indemnify the Gogebic-Iron Wastewater Authority and its treatment facility regardless of any negligence of the Gogebic-Iron Wastewater Authority itself.

In addition, the undersigned, and any representatives referred to in this section agree to pay any attorney fees incurred by the Gogebic-Iron Wastewater Authority in connection with the enforcement of any portion of this agreement.

<u>SUMMARY:</u> This simple set of guidelines is designed to provide harmony between the Gogebic-Iron Wastewater Authority and the individual Liquid Waste Haulers utilizing the treatment facility.

These guidelines are effective as of August 9, 2011. It should be noted that all parties involved shall be expected to adhere to this agreement with no exceptions. Deviations from this permit shall jeopardize a liquid waste hauler's ability to utilize the Gogebic-Iron Wastewater Authority's treatment facility for disposal of Liquid Trucked Waste. Also, at the Authority's discretion, fines can and will be levied against anyone caught violating these guidelines.

A copy of this permit and other matters relating to the Authority's acceptance of various liquid wastes shall be kept in the Liquid Waste Log Book, located in the front entryway of the facility's Administration Building.

VERIFICATION OF ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS:

Ι,	the duly authorized representative of
(Print Name)	(Name of Firm)
Furthermore, I will assure that all contract and/or in the future utilize the Gogebic-Iro	having read and understood the Gogebic-Iron Wastewater Authority's ereby agree to comply with all conditions and terms stated herein ors, liquid waste haulers, and any other persons or entities who presently on Wastewater Authority's treatment facility on my/our behalf, shall also with this permit and the terms stated herein.
(Signature)	(Date)
facility shall take effect July 1, 2011 authorization to dispose of liquid waster	and shall expire on June 30, 2012 . In order to receive beyond the above date of expiration, the permittee must submit a to the Gogebic-Iron Wastewater Authority no later than thirty (30) days
Issued this day of	
Approved By:Mark Bowman Gogebic-Iron Wastewate	, Manager

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APPENDIX A

TO THE

LIQUID WASTE ACCEPTANCE PERMIT

The following information contains excerpts from the Gogebic-Iron Wastewater Authority's Regional and Local Sewer Use Ordinances. This information is provided to liquid waste haulers, and their agents for the purpose of notifying them of the various regional and local codes they are required to be in compliance with.

Waste haulers should be aware that any violations of the Gogebic-Iron Wastewater Authority's Regional and/or Local Sewer Use Ordinances may subject them to penalties, which can carry severe personal and/or property liability.

LOCAL SEWER USE ORDINANCE (EXAMPLE) INDEX

ARTICLE I - DEFINITIONS (ALPHABETICAL)

ARTICLE II - USE OF THE PUBLIC SEWERS

Sec. 201 Sanitary Sewers

Sec. 202 User Connections

Sec. 203 Storm Sewers

See. 204 Prohibitions and Limitations on Sewer Discharge

Sec. 205 Special Arrangements

ARTICLE III - CONTROL OF HIGH STRENGTH - TOXIC WASTES DIRECTED TO PUBLIC SEWERS

Sec. 301 Submission of Basic Data

Sec. 302 Extension of Time

Sec. 303 High Strength - Toxic Discharges

Sec. 304 Control Manholes

Sec. 305 Metering of Waste

Sec. 306 Waste Sampling

Sec. 307 Analyses

Sec. 308 Pretreatment

See. 309 Submission of Information

Sec. 310 Grease and/or Sand Interceptors

ARTICLE IV - RIGHT OF ENTRY, SAFETY AND IDENTIFICATION

Sec. 401 Right of Entry

Sec. 402 Safety

Sec. 403 Identification, Right to Enter Easements

ARTICLE V - SEWER CONSTRUCTION (BUILDING SEWERS)

Sec. 501 Work Authorized

Sec. 502 Cost of Sewer Connection

Sec. 503 Use of Old Building Sewers

Sec. 504 Materials and Methods of Construction

Sec. 505 Building Sewer Grade

Sec. 506 Storm and Groundwater Drains

Sec. 507 Conformance to Plumbing Codes

Sec. 508 Inspection of Connection

Sec. 509 Barricades, Restoration

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ARTICLE VI - SEPTIC TANK AND HOLDING TANK DISPOSAL See. 601 No Person

ARTICLE VII - DAMAGE OR TAMPERING WITH FACILITIES

Sec. 701 Willful, Negligent or Malicious Damage

Sec. 702 Liability for Losses

ARTICLE VIII - VIOLATIONS AND PENALTIES

Sec. 801 Written Notice

Sec. 802 Accidental Discharge

Sec. 803 Continued Violations

Sec. 804 Liability to Utility for Losses

ARTICLE IX - APPEALS

Sec. 901 Procedures

ARTICLE X - VALIDITY

Sec. 1001 Repeal of Conflicting Ordinances

Sec. 1002 Invalidation Clause

Sec. 1003 Amendment

ARTICLE XI - AUDIT

Sec. 1101 Annual Audit

ARTICLE XII - ENACTING CLAUSE

Sec. 1201 Date of Effect Sec. 1202 Date of Enactment

LOCAL SEWER USE ORDINANCE (EXAMPLE)

ARTICLE I - DEFINITIONS

SEC. 101 - AMMONIA NITROGEN (NH3-N). One of the oxidation states of nitrogen, in which nitrogen is combined with hydrogen in molecular form as NH3 or in ionized form as NH4. Quantitative determination of Ammonia Nitrogen shall be made in accordance with procedures set forth in "Standard Methods".

SEC. 102 – APPROVING AUTHORITY. Either the Gogebic-Iron Wastewater Authority (Authority), the Local Unit of Government, or its duly authorized deputy, agent, or representative.

SEC. 103 – BIOCHEMICAL OXYGEN DEMAND (BOD). The quantity of oxygen utilized in the biochemical oxidation of organic matter in five (5) days at 20 degrees Centigrade, expressed as milligrams per liter. Quantitative determination of BOD shall be made in accordance with procedures set forth in "Standard Methods".

SEC. 109 - COMPATIBLE POLLUTANT. The biochemical oxygen demand, suspended solids, pH, or fecal coliform bacteria, plus any additional pollutants identified in the NPDES permit for the publicly owned treatment works receiving the pollutants, if such works was designed to treat such additional pollutants, and in part does remove such pollutants to a substantial degree.

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- SEC. 112 FLOATABLE OIL. Any oil, fat, or grease in a physical state such that it will separate by gravity from wastewater by treatment in an approved pre-treatment facility. A wastewater shall be considered free of floatable oil if it is properly pretreated and the wastewater does not interfere with the collection system.
- SEC. 114 GARBAGE. The residue from the preparation, cooking and dispensing of food, and from the handling, storage, and sale of food products and produce.
- SEC. 117 INCOMPATIBLE POLLUTANT. Any pollutant, which is not a compatible pollutant.
- SEC. 118 INDUSTRIAL USER. Any user whose premises are used primarily for the conduct of a profit-oriented enterprise in the fields of manufacturing, transportation, communications or utilities, mining, agriculture, forestry, or fishing.
- SEC. 119 INDUSTRIAL WASTE. Any trade or process waste as distinct from segregated domestic wastes or wastes from sanitary conveniences.
- SEC. 120 INSTITUTIONAL USER. Any user whose premises are used primarily for the conduct of activities of a social, charitable, or educational character.
- SEC. 123 NORMAL DOMESTIC SEWAGE. Sanitary sewage resulting from the range of normal domestic activities, in which BOD₅, SS, P. or NH3-N concentrations do not exceed normal concentrations of:
 - a) A five day, 20 C, BOD₅ of not more than 200 mg/1. b) A suspended solids content of not more than 240 mg/1. c) A phosphorus content of not more than 10 mg/1. d) An ammonia nitrogen content of not more than 30 mg/1.
- SEC. 126 pH. The logarithm of the reciprocal of the hydrogen ion concentration. The concentration is the weight of hydrogen ions, in grams, per liter of solution. Neutral water, for example, has a pH value of 7 and a hydrogen-ion concentration of 10.
- SEC. 127 PHOSPHORUS (P). Total phosphorus in wastewater, which may be present in any of three principal forms: orthophosphate, polyphosphates, and organic phosphates. Quantitative determination of total phosphorus shall be made in accordance with procedures set forth in "Standard Methods".

ARTICLE II USE OF THE PUBLIC SEWERS

- SEC. 204 PROHIBITIONS AND LIMITATIONS. Except as hereinafter provided, no person shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer.
 - (1) Any gasoline, benzene, naphtha, fuel oil, other flammable or explosive liquid, solid, or gas.
 - (2) Any waters or wastes containing toxic or poisonous solids, liquids, or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any

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waste treatment process or which constitutes a hazard to humans or animals, creates a public nuisance, or creates any hazard in or has an adverse effect on the waters receiving any discharge from the treatment works.

- (3) Any waters or wastes having a pH lower than 5.5 or higher than 9.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the wastewater works.
- (4) Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers, or other interference with the proper operation of the wastewater facilities such as, but not limited to, ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, whole blood, paunch manure, hair and flesh, entrails, and paper dishes, cups, milk containers, etc., either whole or ground by garbage grinders.
- (5) The following described substances, materials, waters, or waste shall be limited in discharges to municipal systems to concentrations or quantities which will not harm either the sewers, wastewater treatment process or equipment, will not have an adverse effect on the receiving stream, or will not otherwise endanger lives, limb, public property, or constitute a nuisance. The Approving Authority may set limitations lower than the limitations established in the regulations below if in his opinion such more severe limitations are necessary to meet the above objectives. In forming his opinion as to the acceptability, the Approving Authority will give consideration to such factors as the quantity of subject waste in relation to flows and velocities in the sewers, materials of construction of the sewers, the wastewater treatment process employed, capacity of the wastewater treatment plant, degree of treatability of the waste in the wastewater treatment plant, and other pertinent factors. The limitations or restrictions on materials or characteristics of waste or wastewaters discharged to the sanitary sewer which shall not be violated without approval of the Approving Authority are as follows:
 - (a) Wastewater having a temperature higher than 150 degrees Fahrenheit (65 degrees Celsius).
 - (b) Wastewater containing more than 25 milligrams per liter of petroleum oil, nonbiodegradable cutting oils, or product of mineral oil origin.
 - (c) Any water or waste which may contain more than 100 mg/1 of fat, oil, or grease.
 - (d) Any garbage that has not been properly shredded. Garbage grinders may be connected to sanitary sewers from homes, hotels, institutions, restaurants, hospitals, catering establishments, or similar places where garbage originates from the preparation of food in kitchens for the purpose of consumption on the premises or when served by caterers.
 - (e) Any waters or wastes containing iron, chromium, copper, zinc, mercury, and similar objectionable or toxic substances to such degree that any such material received in the composite wastewater at the wastewater treatment works exceeds the limits established by the Approving Authority for such materials.

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- (f) Any waters or wastes containing odor-producing substances exceeding limits which may be established by the Approving Authority.
- (g) Any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Approving Authority in compliance with applicable state or federal regulations.
- (h) Quantities of flow, concentrations, or both which constitute a "slug" as defined herein.
- (i) Water or wastes containing substances which are not amenable to treatment or reduction by the wastewater treatment processes employed, or are amenable to treatment only to such degree that the wastewater treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters.
- (j) Any water or wastes which, by interaction with other water or wastes in the public sewer system, release obnoxious gases, form suspended solids which interfere with the collection system, or create a condition deleterious to structures and treatment processes.
- (k) Materials which exert or cause:
 - 1. Unusual BOD, chemical oxygen demand or chlorine requirements in such quantities as to constitute a significant load on the wastewater treatment plant.
 - 2. Unusual volume of flow or concentration of wastes constituting "slugs" as defined herein.
 - 3. Unusual concentrations of inert suspended solids (such as, but not limited to, fuller's earth, lime slurries, and lime residues) or of dissolved solids (such as, but not limited to, sodium sulfate).
 - 4. Excessive discoloration (such as, but not limited to dye wastes and vegetable tanning solutions).

No wastewater, regardless of character, shall be discharged to the sewage system in such a manner as to interfere with the designed operation of the collection system or treatment facilities, or to cause the treatment works to exceed the limits presented by the NPDES permit.

SEC. 205 - SPECIAL ARRANGEMENTS. No statement contained in this Article shall be construed as prohibiting any special agreement between the Authority and any person whereby an industrial waste of unusual strength or character may be admitted to the sewage disposal works, either before or after pretreatment, provided that there is no impairment of the functioning of the sewage disposal works by reason of the admission of such wastes, and no extra costs are incurred by the Approving Authority without recompense by the person provided that all rates and provisions set forth in this Ordinance are recognized and adhered to.

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SEC. 303 - HIGH STRENGTH - TOXIC DISCHARGES. If any waters or wastes are discharged, or proposed to be discharged to the public sewers, which waters or wastes contain substances or possess the characteristics enumerated in Article II and which in the judgement of the Approving Authority, may have deleterious effect upon the sewage works, processes, equipment, or receiving waters, or which otherwise create a hazard to life, health, or constitute a public nuisance, the Approving Authority may:

- (a) Reject the wastes.
- (b) Require pretreatment to an acceptable limit for discharge to the public sewers.
- (c) Require control over the quantities and rates of discharge and/or
- (d) Require payment to cover the added cost of handling and treating the wastes not covered by existing taxes or sewer charges under the provisions of Section 205.

The toxic pollutants subject to prohibition or regulation under this Article shall include, but need not be limited to, the list of toxic pollutants or combination of pollutants established by Section 307(a) of the Clean Water Act of 1977 and subsequent amendments. Effluent standards or prohibitions for discharge to the sanitary sewer shall also conform to the requirements of Section 307(a) and associated regulations.

Pretreatment standards for those pollutants which are determined not to be susceptible to treatment by the treatment works or which would interfere with the operation of such works shall conform to the requirements and associated regulations of Section 307(b) of the Clean Water Act of 1977 and subsequent amendments. The primary source for such regulations shall be 40 CFR 403, General Pretreatment Regulations for Existing and New Sources of Pollution.

SEC. 306 - WASTE SAMPLING. Industrial wastes discharged into the public sewers shall be subject to periodic inspection and a determination off character and concentration of said wastes. The determination shall be made by the industry as often as may be deemed necessary by the Approving Authority.

Sampling shall be conducted in such a manner as to be representative of the composition of the wastes. The sampling may be accomplished either manually or by the use of mechanical equipment acceptable to the Approving Authority.

Installation, operation, and maintenance of the sampling facilities shall be the responsibility of the establishment discharging the waste and shall be subject to the approval of the Approving Authority. Access to sampling locations shall be granted to the Approving Authority or its duly authorized representative at all times. Every care shall be exercised in the collection of samples to ensure their preservation in a state comparable to that at the time the sample was taken.

SEC. 307 - ANALYSES. All measurements, tests, and analyses of the characteristics of waters and wastes to which reference is made in this Ordinance shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater", published by the American Public Health Association. Sampling methods, location times, durations, and

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frequencies are to be determined on an individual basis subject to approval by the Approving Authority.

Determination of the character and concentration of the industrial wastes shall be made by the establishment discharging them, or its agent, as designated and required by the Approving Authority. The Approving Authority may also make its own analyses on the wastes and these determinations shall be binding as a basis for charges.

SEC. 308 - PRETREATMENT. Where required, in the opinion of the Approving Authority, to modify or eliminate wastes that are harmful to the structures, processes or operation of the wastewater treatment works, the person shall provide at his expense such preliminary treatment or processing facilities as may be determined required to render his wastes acceptable for admission to the public sewers.

SEC. 310 - GREASE AND/OR SAND INTERCEPTORS. Grease, oil, and sand interceptors shall be provided when, in the opinion of the Approving Authority, they are necessary for the proper handling of liquid wastes containing floatable grease in excessive amounts, as specified in Section 204(6)(c), Article II, or any flammable wastes, sand, or other harmful ingredients; except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Approving Authority, and shall be located as to be readily and easily accessible for cleaning and inspection. In the maintaining of these interceptors the owner(s) shall be responsible for the proper removal and disposal by appropriate means of the captured material and shall maintain records of the dates, and means of disposal which are subject to review by the Approving Authority. Any removal and hauling of the collected materials not performed by owner(s) personnel must be performed by currently licensed waste disposal firms.

ARTICLE IV RIGHT OF ENTRY, SAFETY AND INDENTIFICATION

SEC. 402 - SAFETY. While performing the necessary work on private premises referred to in Section 401, the Authority employees shall observe all safety rules applicable to the premises established by the owner or occupant and the Authority shall indemnify the owner against loss or damage to its property by Authority employees and against the liability claims and demands for personal injury or property damage asserted against the owner and growing out of gauging and sampling operation by Authority employees; except as such may be caused by negligence or failure of the owner to maintain safe conditions as required in Section 304, Article III. -

SEC. 403 - IDENTIFICATION, RIGHT TO ENTER EASEMENTS. Duly authorized employees of the Authority_bearing proper credentials and identification shall be permitted to enter all private properties through which the Authority holds a duly negotiated easement for the purpose of, but not limited to, inspection, observation, measurement, sampling, repair and maintenance of any portion of the sewage works lying within said easement, all subject to the terms, if any, of the agreement.

ARTICLE VI - SEPTIC TANK AND HOLDING TANK WASTE

SEC. 601 - NO PERSON in the business of gathering and disposing of septic tank sludge or holding tank sewage shall transfer such material into any area or sewer manhole located within the Authority's service area without obtaining an Authority approved Liquid Waste Acceptance Policy. Persons obtaining an approved Liquid Waste Acceptance Policy are required to comply with the terms and conditions contained therein.

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ARTICLE VII - DAMAGE OR TAMPERING WITH SEWAGE FACILITIES

SEC. 701 - WILLFUL, NEGLIGENT OR MALICIOUS DAMAGE. No unauthorized person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface, or tamper with any structure, appurtenance, or equipment which is a part of the sewage facilities. Any persons violating this provision shall be subject to-immediate arrest under a charge of disorderly conduct.

SEC. 702 - LIABILITY TO DISCHARGER FOR LOSSES. Any person who intentionally, negligently or accidentally violates any provisions of this Ordinance shall become liable to the Authority or any downstream user, for any expense, loss or damage occasioned by reason of such violation which the Authority or any downstream user may suffer as a result thereof. This section shall be applicable whether or not a written notice of the violation was given as provided in Section 801 and without consideration for any penalties which may be imposed for a violation of this Ordinance.

ARTICLE VIII - VIOLATIONS AND PENALTIES

SEC. 801 - WRITTEN NOTICE OF VIOLATION. Any person found to be violating any provision of this Ordinance shall be served by the Authority with a written notice stating the nature of the violation and providing a reasonable time for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations.

SEC. 802 - ACCIDENTAL DISCHARGE. Any person found to be responsible for accidentally allowing a deleterious discharge into the sewer system which causes damage to the treatment facility and/or receiving body of water shall, in addition to a fine, pay the amount to cover damage, both values to be established by the Approving Authority.

SEC. 803 - CONTINUED VIOLATIONS. Any person, partnership or corporation, or any off-leer, agent or employee thereof, who shall continue any violation beyond the aforesaid notice time limit provided shall, upon conviction thereof, forfeit not less than \$100 nor more than \$500 together with the costs of prosecution.

In default of payment of such forfeiture and costs, said violator shall be imprisoned in the Gogebic County Jail for a period not to exceed 30 days. Each day in which any violation is continued beyond the aforesaid notice time limit shall be deemed a separate offense.

SEC. 804 - LIABILITY TO THE AUTHORITY FOR LOSSES. Any person violating any provision of this Ordinance shall become liable to the Authority for any expense, loss, or damage occasioned by reason of such violation, which the Authority may suffer as a result thereof.

ARTICLE X - VALIDITY

SEC. 1002 - INVALIDATION CLAUSE. Invalidity of any section, clause, sentence, or provision in the Ordinance shall not affect the validity of any other section, clause, sentence, provision or this Ordinance which can be given effect without such invalid part or parts.

SEC. 1003 - AMENDMENT. The Authority through its duly qualified officers, reserves the right to amend this Ordinance in part or in whole wherever it may deem necessary, but such right will be exercised only after due notice to all persons concerned and proper hearing on the proposed amendment.

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ARTICLE XI - AUDIT

SEC. 1101 - ANNUAL AUDIT. The Authority shall conduct an annual audit, the purpose of which shall be to demonstrate the continued proportionality and sufficiency of the user charges relative to changes in system operation and maintenance costs.

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APPENDIX D

Notifications

SEPTAGE RECEIVING FACILITY OPERATING PLAN APPROVAL

LIST OF NOTIFICATIONS AND SUMMARY OF COMMENTS RECEIVED

Publication of Public Notice - Daily Globe - June 24, 2011

Website Posting - NA

Submittal to Western UP Department of Public Health – June 23, 2011

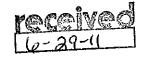
Legislative bodies -

Bergland Township	June 24, 2011
Bessemer Township	June 24, 2011
Bessemer, City of	June 24, 2011
Carp Lake Township	June 24, 2011
Erwin Township	June 24, 2011
Gogebic County	June 24, 2011
Ironwood, Charter Township of	June 24, 2011
Ironwood, City of	June 24, 2011
Mareninsco Township	June 24, 2011
Wakefield Township	June 24, 2011
Wakefield, City of	June 24, 2011
Watersmeet Township	June 24, 2011

SUMMARY OF COMMENTS RECEIVED CONCERNING THE PLAN: As of July 25, 2011 no comments were received

Emailed proposed Plan to MDEQ for review June 22, 2011

MDEQ Approved Plan -- Pending



DAILY GLOBE, INC.

118 E. McLeod Avenue • Ironwood, MI 49938 (906)932-2211 Fax (906)932-5358

PROOF OF PUBLICATION
STATE OF MICHIGAN - COUNTY OF GOGEBIC

Rebecca Torro

Rebecca Torro, being duly sworn says: I am the Legal Advertising Representative of the Daily Globe, a newspaper published and circulation in Gogebic and Ontonagon Counties. The Annexed is a printed copy of a notice which was published in said paper on the following date(s):

June 24, 2011 Subscribed and sworn to before me this

24th day of June 2011

Jennifer Louise Martilla

Gogebic County, Acting in Gogebic County

My Commission expires 09-19-2013

PUBLIC NOTICE OF COMMENTS TO THE GOGEBIC IRON WASTEWATER AUTHORITY

SEPTAGE RECEIVING OPERATING PLAN

In accordance with Michigan Department of Environmental Quality (MDEQ) regulations, the Gogebic-Iron Wastewater Authority (Authority) has proposed a Septage Receiving Operating Plan (Plan). The Authority's receiving facility is currently receiving septage waste and will continue to receive septage waste for treatment. Prior to approving Authority's Plan, the MDEQ requires that comments must first be solicited from the public until July 24, 2011. A copy of the proposed operating plan is available for viewing at the GIWA's treatment facility, 700 West Cloverland Drive, Ironwood, Mi, during normal business hours.

Written comments on the plan should be sent to the GIWA by July 2011 at the following address:

Gogebic-Irón Wastewater Authority 700 West Cloverland Drive Ironwood, MI 49938

against t

JENNIFER LOUISE MARTILLA
Notary Public, State of Michigan
County of Gogebic
My commission expires Sept. 19, 2013
Acting in the County of

June 23, 2011

Mr. Tom Chatel Manager City of Bessemer 411 S Sophie St Bessemer, MI 49911

RE: Septage Waste Receiving Operating Plan

Dear Mr. Chatel:

The Michigan Department of Environmental Quality (MDEQ) requires all septage receiving facilities in Michigan to develop an operating plan. The Gogebic-Iron Wastewater Authority is such a facility and a proposed operating plan has been developed.

The MDEQ further requires that the proposed operating plan be submitted to the legislative body of each city, village, and township located in whole or in part within the service the service area of the wastewater treatment plant to which the receiving facility is connected. The MDEQ's purpose for this requirement is to make municipalities aware that the treatment plant was receiving septage so as to provide them with an opportunity to comment on the proposed operating plan. Accordingly, we are please to enclose a copy of the Authority's proposed plan for your records. If you have any questions regarding this matter, please feel free to contact me.

Sincerely,

Mark Bowman Plant Manager

Enc.

June 23, 2011

Tonya Rule Western UP District Health Department 210 N Moore St. Bessemer, MI 49911

SUBJECT:

Notification of proposed septic receiving operating plan

Dear Ms Rule,

The Gogebic-Iron Wastewater Authority (Authority) is informing you that in accordance with Michigan Department of Environmental Quality (MDEQ) regulations, a proposed a Septage Receiving Facility Operating Plan (Plan) is pending approval. As a condition of approving the Plan, the Authority was required to publish and post notifications that included the following statements:

- The receiving facility is currently receiving, septage waste and will continue to receive septage waste for treatment.
- A statement of where and when the operating plan has been available for review.
- A request for written comments on the proposed operation of the receiving facility and a deadline for receipt of such comments, which shall be not less than 30 days after the publication (Daily Globe), posting or mailing of the notice.

After the 30 day comment period has expired, the Authority will present a summary of comments to the MDEQ for consideration as well as make a request for a final approval of the proposed Plan.

If you or your staff would like a copy of the Authority's proposed Plan, or have questions regarding this matter, please direct them to my attention.

Sincerely,

Mark Bowman, Manager

CC: File

Matthew Campbell, Septage Waste Program Coordinator, MDEQ

GIWA/Board

APPENDIX E

Background Information

Parameter Septage* RWW Ratio Septage** RWW Ratio Septage** RWW Ratio TSS 15,000 220 68 13,000 176 74 13,000 409 32 BOD 7,000 220 32 6,500 143 45 6,500 223 29 Ammona-N 150 25 6 6 100 8 12 10 13 8 45 Phosphorus 250 8 31 210 3 72 45 45 45				SUGGESTE	SUGGESTED SEPTAGE LOADING VALUES	OADING V	ALUES			
Septage** RWW Ratio Septage*** RWW Ratio Septage*** 15,000 220 68 13,000 176 74 13,000 7,000 220 32 6,500 143 45 6,500 150 25 6 100 8 12 100 250 8 31 210 3 72 210			Typical		GIWA Mo	nthly Aver	rage Data	GIWA Mont	thly Maxin	num Data
15,000 220 68 13,000 176 74 1 7,000 220 32 6,500 143 45 45 150 25 6 100 8 12 250 8 31 210 3 72	Parameter	Septage*	RWW	Ratio	Septage**		Ratio	Septage**	RWW	Ratio
7,000 220 32 6,500 143 45 45 150 25 6 100 8 12 250 8 31 210 3 72	TSS	15,000	220	89	13,000	176	74	13,000	409	32
150 25 6 100 8 12 250 8 31 210 3 72	ВОБ	2,000	220	32	6,500	143	45	6,500	223	29
250 8 31 210 3 72	Ammona-N	150	25	9	100	∞	12	100	13	8
	Phosphorus	250	8	31	210	က	72	210	5	45

*WEF MOP 24 Sepgage Handling

**EPA Publication No.: 625/R-94/002 Guide to Septage Treatment and Disposal. (These are also the same values used to estimate budget costs for septage charges)

Design 12,390 3.4 2,650 2,250 331 112	13 Yr Avg na 2 2 2,499 2,103 1,103 4,1	Reserve na 1.3 1.3 1.47 1.47 1.70	Design 0.421 839 398 234 214	3 Yr Avg Reserve	Reserve 0.421 839 398 234 234 21	Prim Design 4.48 3.487 2,647 2,647 133 Physica Units	Primary Clarifiers 3 Yr Avg Reserve 4.48 2.1 2 3.487 2,495 9 2,647 2,103 5 569 1.14 4 1.33 42 Physical Characeristics tter 65 ft		sign 1,4 1,6 ddle	3 Yr Avg Resen 4.48 2.1 459 564 885 1,210 569 162 na na Physical Characeristics 955,000 gal 715,000 gal	Reserve 2.3 895 775 775 104 105	% Rmv by Primaries 85% 85% 95% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	Septage Capacity Load mg/l 1,950 325 100	Load Gallons 55,023 285,997 488,309 3.4
						SWD	12 12 14		inner	/ 15,000 gal 474,000 gal	gal gal	% Deskirn Today Data Set used		60%
						Surface Volume	3,318 ft2 39,816 ft3		SWD Total Aer.	12 ft 287,000 ft3	12 ft 30 ft3	Septuga Treatability Factor Calculated Septage Volume	ality Factor age Volume	38,760
						SOR	675 8	gal/ft2/dy	DT w/Side	11.5 hrs	hrs	83	EPA PUB NO. 625/R-94/002	-94/002
						WOR	11,547 gal/ft/dy		908	7	7 lb/1000/ft3			
						占	3.2 hrs	ırs	NH3-N	2.1	2.1 lb/1000/ft3			

					GIWA INF	GIWA INFLUENT DATA 2007-09	2007-09					
	Flow	ΜC	Temp	Hd	B	800	TSS		Phosphorus	horus	Amonia	Amonia Nitrogen
	Mly Avg	Dly Peak										
Month-Yr	MC	MGD	Deg F	SU	mg/L	Lb/Dy	mg/L	rb/Dy	mg/L	rp/Dy	mg/l	rp/Dy
Average	2.14	2.85	51	7.2	143	2,103	176	2,495	2.91	42	8,35	114
Maximum	6,55	7.79	63	7.4	223	3,582	409	4,169	4.65	64	13.16	148

			GIW	GIWA PRIMARY EFFLUENT Data 2007-09	FFLUENT!	Jata 2007-09				
	B(BOD	il .	TSS	<u> </u>	TVSS	Phosphorus	orus	Amonia	Amonia Nitrogen
Month-Yr	mg/L	VQ/qT	mg/L	Lb/Dy	mg/L	VQ/q1	mg/L	Lb/Dv	mg/L	\Q/q1
verage	76	1,210	33	564	26	437	1.4	23	11.6	162
laximum	140	2,643	43	1,307	33	975	2.2	49	18.3	196

Chapter 10 Treatment at Wastewater Treatment Plants

A wastewater treatment plant (WWTP) is often a convenient and environmentally sound location for septage disposal. Many plants can be modified to receive and treat septage effectively Septage addition, however, can have a significant impact on plant operations or performance if receiving facilities are not properly designed. Septage handling increases plant operation and maintenance (O&M) costs in proportion to the amount of septage received. The cost of residuals (sludge, grit, screenings) handling and disposal often shows the largest increase. The septage receiving program must be developed recognizing that the National Pollutant Discharge Elimination System (NPDES) permit of the treatment plant prohibits the acceptance of hazardous wastes under the Resource Conservation and Recovery Act (RCRA)10.1.

Estimating Plant Capacity Determining the ability of a plant to handle septage and estimating the amount of material that can be effectively handled are complex processes. Table 10-I lists the potential impacts of septage addition to a WWTE Figure 10-I provides a method to estimate the allowable rates of septage addition: assuming that a holding tank is provided and that septage is added to the sewage flow on a semi continuous basis. This chart takes into account the current loadings to the plant compared with its design loadings. Package plants or other activated sludge processes that do not employ primary treatment are the least amenable to septage handling. A conventional activated sludge plant (with primary clarifier) designed for 2 million gallons per day (mgd) and operating at 50 percent of design capacity should be capable of receiving a septage flow of 1.4 percent of 2 mgd, or 28,000 gal per day A 2-mgd extended aeration plant operating at 50 percent capacity could receive 0.6 percent of 2 mgd, or 12,000 gal per day Allowable septage volumes may be reduced due to septage characteristics, treatment plant operations, and sewage flow patterns. A factor of safety should be included in establishing allowable septage volumes.

Table 10-1. Impacts of Septage Addition to a WWTP

Increased volume of screenings and grit requiring disposal Increased odor emissions from headworks
Scum accumulations in clarifiers
Increased organic loadings to biological processes
Potential odor and foaming problems in aerated basins
Increased loadings to sludge handling processes
Increased sludge volumes requiring final disposal
Increase housekeeping requirements

The adverse impacts of septage addition may increase significantly if septage is discharged directly from the hauler truck as a slug load into a small treatment plant. A 1,000 gallon load of septage adds an organic load equivalent to 35,000 gal of sewage. If a 1 mgd plant with no primary clarifier received a 1,000 gal load of septage over a 10 minute period, the instantaneous organic loading would increase by a factor of four. If that load were to be added over a period of 60 min, the organic loading would increase by only about 60 percent. As a rule of thumb, for unequalized septage addition to a sewage treatment process, the allowable septage addition rates determined using Figure 10-I should be divided by five. If septage is added to the solids handling train, allowable loadings must be estimated based on site-specific information and will vary depending on both the existing solids handling processes used at the plant and their design capacity First, information on current versus design hydraulic and solids loadings must be compiled for those processes that will be employed to co-treat septage/sludge mixtures. Such processes may include thickening, aerobic or anaerobic digestion, dewatering, chemical stabilization and composting. Then, conservative estimates of the volumes of septage that could be processed without exceeding the design capacity of each unit process can be developed

EPA Guide to Septage Treatment and Disposal EPA/625/R-94/002 September 1994

Design Flow 3.4
% Design Today 60%
Data Set used 2
Septage Treatability Fac 1.14

Calculated Sept	age Volume	38	,760		
	Data 1	Data 2		Data 3	Data 4
% Design	Aerated	AS w/		AS w/o	Package
Today	Lagoon	Primary		Primary	Plant
0%	3.6		2.85	1.24	0.55
5%	3.42		2.71	1.18	0.52
10%	3.24		2.57	1.12	0.50
15%	3.06		2.42	1.05	0.47
20%	2.88		2.28	0.99	0.44
25%	2.7		2.14	0.93	0.41
30%	2.52		2.00	0.87	0.39
35%	2.34		1.85	0.81	0.36
40%	2.16		1.71	0.74	0.33
45%	1.98		1.57	0.68	0.30
50%	1.8		1.43	0.62	0.27
55%	1.62		1.28	0.56	0.25
60%	1.44		1.14	0.50	0.22
65%	1.26		1.00	0.43	0.19
70%	1.08		0.86	0.37	0.16
75%	0.9		0.71	0.31	0.14
80%	0.72		0.57	0.25	0.11
85%	0.54		0.43	0.19	0.08
90%	0.36		0.29	0.12	0.05
95%	0.18		0.14	0.06	0.03
100%	0		0	0	0

Gogebic-Iron Wastewater Authority

Trucked Waste Log

Month:	Page:
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			Ramme's Septic		
Day	Time In	MDNR/WDNR ID#	Driver's Name	Holding	Septic
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