



STATE OF MICHIGAN  
DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENT  
LANSING

JENNIFER M. GRANHOLM  
GOVERNOR

REBECCA A. HUMPHRIES  
DIRECTOR

March 9, 2010

Mr. Les Therrian, Director  
Department of Public Works  
City of St. Ignace  
396 North State Street  
St. Ignace, Michigan 49781

Dear Mr. Therrian:

SUBJECT: Septage Receiving Facility Operating Plan Approval  
City of St. Ignace Septage Waste Receiving Facility

Review by the Department of Natural Resources and Environment (DNRE), Water Bureau, Drinking Water and Environmental Health Section, On-Site Wastewater Unit, of the City of St. Ignace septage waste operating plan submitted on February 17, 2010, is complete. 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 plan will be posted on the Septage Waste Program website at [www.michigan.gov/deqseptage](http://www.michigan.gov/deqseptage).

The City of St. Ignace septage waste receiving facility, per its operating plan, has limited its acceptance of portable toilet and holding tank waste to 2,000 gallons per day. The receiving facility 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 30 days prior to the proposed date for implementation.

If you have any questions regarding this matter, please feel free to call or write to me.

Sincerely,

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

mc:ckp

Enclosure

cc: Mr. Nick Derusha, Luce-Mackinac-Alger-Schoolcraft District Health Department  
Mr. Steve Casey, DNRE

## ST. IGNACE WASTEWATER TREATMENT PLANT SEPTAGE RECEIVING OPERATING PLAN

The City of St. Ignace Wastewater Treatment Plant, located at 1288 North State St., currently accepts domestic septage only from certain "special" events. These events are designated by St. Ignace City Council as "Special events" which also includes the Labor Day Bridge Walk. "Porta John", or portable toilet, waste from these "events" are on a limited basis only. "Holding Tank Waste" (HTW) with a collection time of less than 30 days, if testing shows it has not turned anaerobic or do not contain metals or other chemicals which are deemed harmful by City WWTP personnel, are also accepted on a limited basis.

The City of St. Ignace has four other dump sites to the sanitary sewer collection system. The first two are the City Marina and Coast Guard dock, which receive marine waste from holding tanks located on boats, also two campgrounds – Straits State Park and Tiki Campground, that receive waste from RV or recreational vehicles. These sites have been directed to monitor amount, date and vehicle information from dumping activities.

Domestic septage as defined in Michigan Public Act 451, Part 117, Sec. 11701 (f) means septage pumped from a home septic tank, recreational vehicles (RV), cesspool, portable toilet (Porta John), type III marine sanitation device, or similar storage or treatment works that receives only domestic sewage.

The City of St. Ignace Wastewater Treatment Plant is a daily discharge Aerated Lagoon, with Final Effluent screening and Ultra-Violet disinfection. Our rated capacity is 2 million gallons per day. Currently we have a daily average discharge of about 800,000 gallons a day, but, we are limited as to the type of extra surcharges to our treatment system. Portable toilet or, "Porta Johns", contain high volumes of BOD, CBOD and suspended solids. Due to this we can accept only limited amounts of Portable Toilet Waste (PTW). Dumping of this type of waste will be closely monitored as to the affect it will have on our organic capacity of the Treatment Plant.(ex. During high volume into our treatment plant will result in slightly more portable toilet waste being discharged into the plant. Low flow periods will result in much lower discharge rates. Prior approval of the City's wastewater Superintendent is mandatory)

The City of St. Ignace requires septic haulers to be licensed by the State of Michigan, if they are dumping septage waste in the ponds. This dumping procedure will be monitored and recorded.

The City of St. Ignace will not accept residential septage, food establishment septage or any other "septage waste" deemed harmful to the City's Wastewater Treatment Facility.

A fee for septage treatment is set at a cost per 1,000 gallons, service fee, and any extra strength surcharges as set forth in the "User Charge System" for the City of St. Ignace. these fees are set at a minimum of \$10.00 per discharge of "holding tank waste & a minimum charge of \$25.00 per one thousand gallons for portable toilets (Porta-Johns, depending on the strength of proposed discharge. There will also be additional labor charges (service fee) required to oversee disposal. This cost is equal to one hour plus overhead for the employee.

These charges are reviewed yearly by the City of St. Ignace

Currently the charge for HTW would be \$10.00/thou. gallons (minimum)  
\$30.60/hour (labor)  
Total minimum charge \$40.60

Currently the charge for PTW would be \$25.00/thou. gallons (minimum)  
\$30.60/hour (labor)  
Total minimum charge \$55.60

If entry to the WWTP is needed on weekends or Holidays, the labor charge would be subject to overtime rates, which are a minimum of 2 hours and 1.5 times the labor charge.

This plan has been mailed to Jim Durm, Moran Township Supervisor & Dale Nelson, St. Ignace Township Supervisors & their respective Boards. Delivered to St. Ignace City Council and the LMAS District Health Department. 749 Hombach St. .

Receiving Facility Information availability:

(The City of St. Ignace currently has a contract with a company to install a City web site, where all City information will be listed) As soon as the City's web site is on line, haulers and MDEQ will be notified.

Location:

1288 North State St., St. Ignace, MI 49781

Receiving Facility Information: (phone 906-643-9670)

Treatment Plant Superintendent – Les Therrian – phone # 906-643-9670  
Email – therrian@lighthouse.net

Treatment Plant Chief Operator – Mark Reiman – phone # 906-643-9670

Hydraulic Capacity – 2.0 million gallons/day

Organic Capacity

Parameter	Basis of Design	Current Loading
TSS lbs./day	5,000	677
BOD	3,600	761
PO4	135	14
NH3	415	89

- See loading information on next sheet

Maximum acceptance rates for PTW discharge are 35,000 gallons. This is based on 9,700 mg/l of BOD for PTW, which leaves a BOD loading of 81 lbs. HTW discharge is based on an average BOD of 330 mg/l, and at 2.8 lbs of BOD per 1,000 gallons. Discharge could be almost limitless, but, discharge into St. Ignace WWTP is situational only.

The City of St. Ignace has set a maximum total daily hydraulic loading limit of 2,000 gallons per day of accepted PTW and HTW

Service Area: None. Disposal by contract only

Hours of Operation:

7:00am until 3:00pm, Monday thru Friday

(Closed Saturdays, Sundays, and observed Holidays)

Other conditions for receiving Septage Waste

The City of St. Ignace permits State licensed waste haulers who have received approval from the city to bring specific septage waste to the facility with the following conditions.

- Oxygen demand does not affect operation of WWTP
- Prior approval from City of St. Ignace WWTP
- Other extra strength parameters are not exceeded (TSS, PO4, and NH3)
- Water quality testing performed, if required by City, is the responsibility of the hauler.



February 16, 2010

To: Matthew Campbell, Septage Waste Program Coordinator  
Fax# 517-241-1328  
From: Les Therrian, DPW Director  
Fax# 906-643-9393

Re: City of St. Ignace Treatment Process

- Influent flow enters ponds at Structure A, Cell 1-A
- Flow continues thru 1-A and 2-B to the SE corner of 1-C
- Flow out of 1-C continues westerly to Floc. Cell #2  
This is where chemical addition,  $FeCl_3$ , is done
- After #2, flow continues to Polishing Cell #4
- Flow continues to Disinfection & Screening in Building #2
- Then to Control building #1, Easterly to Lake Huron after step aeration @ the end of system.

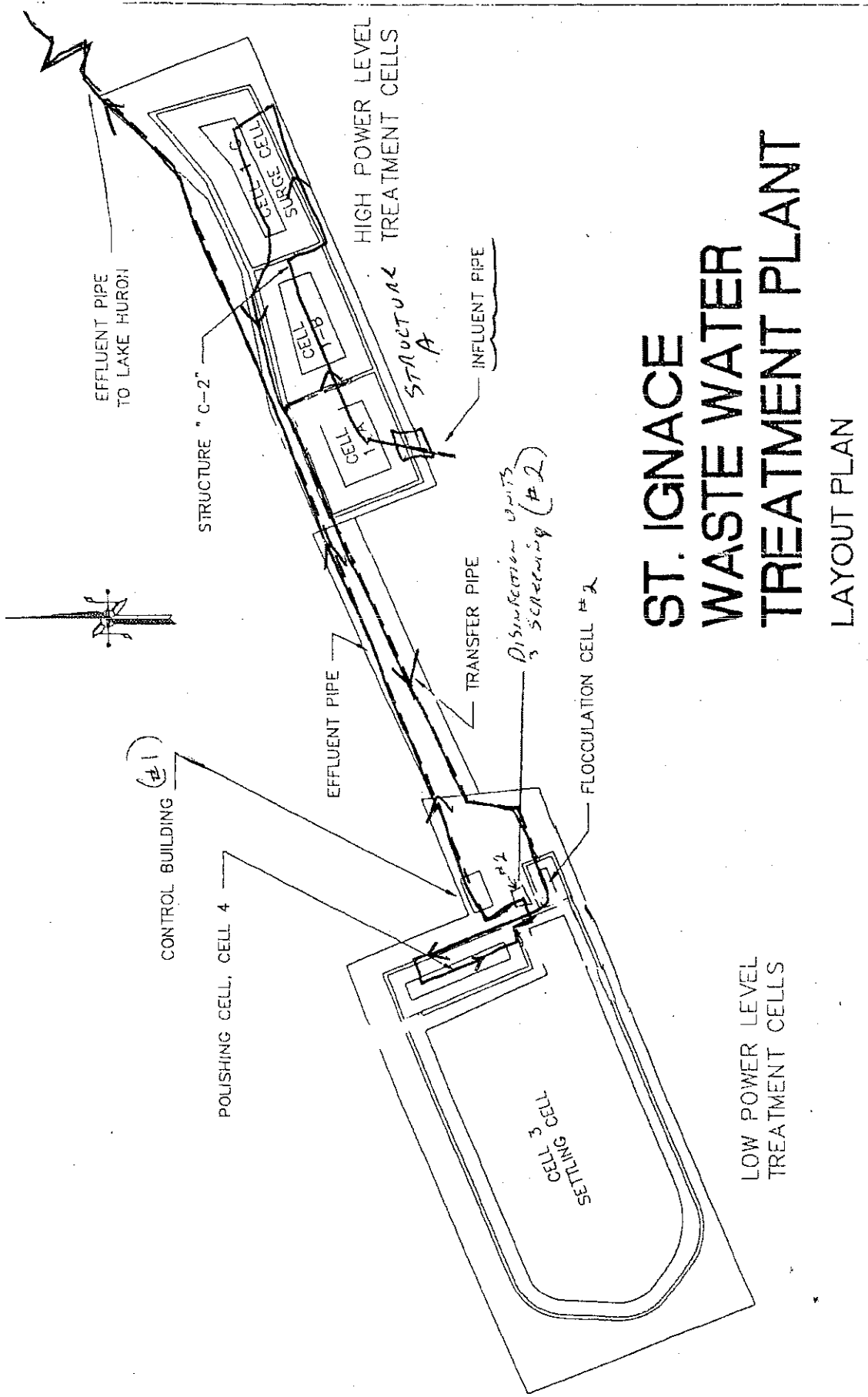
Volumes of Cell 1-A = 2.348 MG, 1-B = 1.89 MG, 1-C = 7.3 MG For a total Primary treatment of 11.538 MG.

Cells 1-A & 1-B are treated with Diffused air, 3 - 75 hp. Blowers, with 1 full and another on VFD at 60 to 100% power. 1-C has mechanical aerators - 35 hp.

Cell #2 = 60,000 gallons and Cell #4 = 750,000 gallons.

After final settling in Cell #4, wastewater is screened by mechanical screening and disinfected with UV before discharge thru a step aeration system, then to Lake Huron.

Structure A, in Cell #1-A is where discharge of any PTW and HTW will occur. In Structure A is a bar screen that will collect any debris from discharge, before entering ponds.



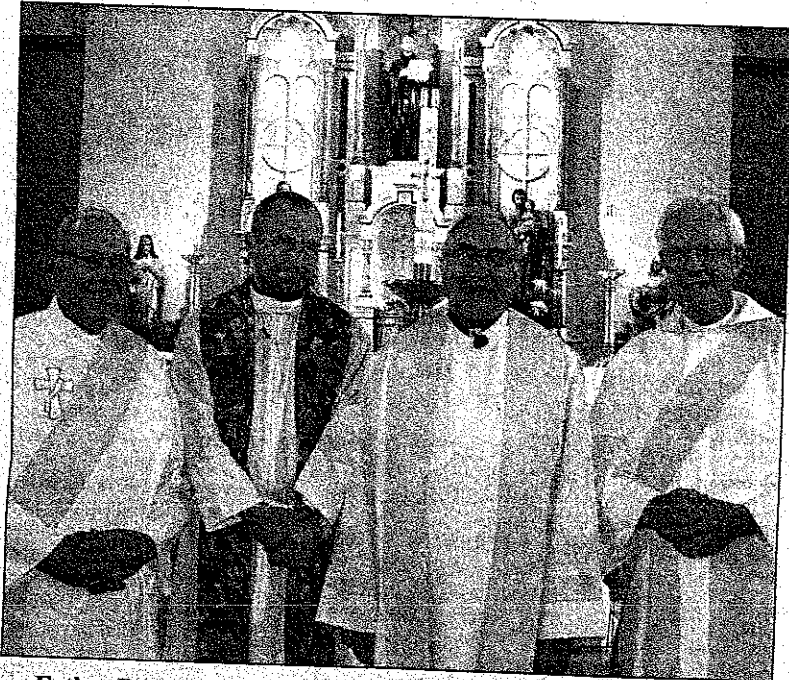
# ST. IGNACE WASTE WATER TREATMENT PLANT

LAYOUT PLAN

*Flow PATTERN*

PL-8

Thursday, November 5, 2009



Father Pawel Mecwel (second from left) was installed as pastor at St. Ignatius Loyola Catholic Church in St. Ignace and Immaculate Conception in Moran in a ceremony Sunday, October 25, in St. Ignace. Participating in the ceremony are (from left) Deacon Don Olmstead, Fr. Mecwel, Father Ted Brodeur of Brimley, and Deacon Tom McClelland. About 120 people from both parishes attended a potluck dinner following the installation.

## CITY OF ST. IGNACE PUBLIC NOTICE

The City of St. Ignace operates a Wastewater Treatment Plant, located at 1288 North State St., St. Ignace, MI 49781. The treatment plant is currently and will continue to accept specific domestic sewage waste for treatment. A full copy of the proposed operating plan is available for review during normal business hours at City Hall, 396 North State St., St. Ignace.

Written comments on the proposed operation plan of the receiving facility shall be received until November 30, 2009 following the publication date of this notice. Please submit any written comments to Eric Dodson, City Manager, City of St. Ignace, 396 North State St., St. Ignace, MI 49781.

Les Therrian  
DPW Director

## REQUEST FOR BIDS Clark Township Snowplowing Assistance Bid

CLARK TOWNSHIP IS SEEKING BIDS for assistance with snowplowing the Albert Lindberg Airport (3 Mile Road, Hessel).

The bid will need to be for assistance in full plowing/clearing. The type of plowing necessary shall be at the Airport Manager's discretion. Bids shall be per hour based on equipment required and shall take into consideration the following requirements:

1. Snowplowing maintained to 30' either side of the runway edge-of-metal and clearing around papi lights all winter.
2. NO heavy equipment may be used on runway (greater than 17 ton GVW).
3. NO bulldozers may be used on premises. Any end loader used

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WATER BUREAU  
DWEMS