STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING

JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

May 30, 2007

Mr. Jack Dillon
Lenawee County Drain Commissioner's Office
Sewer & Water Superintendent
320 Springbrook Avenue, Suite 102
Adrian, Michigan 49221

Dear Mr. Dillon:

The Department of Environmental Quality, Water Bureau, Drinking Water and Environmental Health Section, On-Site Wastewater Unit, review of the May 24, 2007, final Rollin and Woodstock Septage Receiving Facility operating plan is complete. 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. Therefore, the operating plan is **approved**.

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 thirty (30) days prior to the proposed date for implementation.

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

Sincerely,

Brett A. Wiseley
On-Site Wastewater Unit
Drinking Water and Environmental Health Section
Lansing Operations Division
Water Bureau
517-241-1452

BAW:CKP

cc: Lenawee County Health Department
Mr. Jon Russell, DEQ

DEQ

DEQ Septage Receving Facility Checklist

Name of Septage Receiving Facility:
Rollin & Woodstock WWTP

DEQ Reviewer: BAW
Review Date: May 25, 2007

Address of Septage Receiving Facility:
6100 Sorby Road
Addison, Michigan 49220

Facility Contact: Jack Dillon, Len Co.
Telephone Number: 517-264-4696

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

Requirement	Yes	No	Comments
1. Location of septage RF.	X		
2. Hours of operation.	X		**M-F 7-4, NO HOLIDAYS**
3. Categories of septage waste the RF will receive.	X		
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.)			**NOT ACCEPTING**
5. *Fee structure charged to hauler.	X		
6. *Service area (septage acceptance) description of RF defined in detail.	X		**VOLUNTARY, NO RADIUS REQUIREMENT**
7. Notice of proposed operation plan:	X		
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		

Septage Receving Facility Checklist
Name of Septage Receiving Facility:

Requirement	Yes	No	Comments
7. Notice of proposed op. plan, continued:	X		
b) Was it public noticed in the local newspaper?	X		
c) Was it posted on the facility website?		N/A	
8. 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.	X		
I) Hydraulic capacity:	X		
II) Organic capacity:	X		
*III) Wet weather operation considerations (CSO & SSO)			N/A DIRECT TO WWTP SLUDGE HANDLING
9. Other conditions established for the RF.	X		

*5. Fee structure - must be justified and reasonable in accordance with standard accounting practices.
*6. This should be both written and illustrated on a map of the area. The service area information should include whether or not there is a county ordinance that also defines what they can or can't

accept. It should also include whether or not they accept septage pumped outside of the service area.
*8.d.(III). CSO-Combined Sewer Overflow and SSO-Sanitary Sewer Overflow.

I. EXECUTIVE SUMMARY

A. SUMMARY

The Project Plan for the Lenawee County Septage Receiving Facility has been prepared for the Lenawee County Drain Commissioner. The report focuses on evaluating septage receiving facilities for the Central Lenawee Wastewater Treatment (WWTP) and the Rollin-Woodstock WWTP. The report identifies the basis of design for the septage receiving facility and needed plant upgrades and expansion to accommodate future septage volumes and loadings. Currently, there are no septage receiving facilities in Lenawee County.

The need for the project has resulted from the following:

1. The mandated requirements in the amended Part 117, 1994 Public Act (PA) 451 - On October 12, 2004, the State of Michigan amended Part 117, Septage Waste Servicers of the Natural Resources and Environmental Protection Act. Part 117 regulates the pumping, disposal, and land application of septage waste. A copy of Act No. 381, which included the amendments to Part 117, is included in *Appendix E.*

2. Lack of septage receiving and treatment facilities within Lenawee County. A copy of the MDEQ's Statewide Accepting Septage Waste and Land Site Disposal Locations is included in *Appendix E.* Based on the locations shown, the nearest septage receiving stations are located in Jackson and Washtenaw Counties.

3. Also, in a letter to Septage Receiving Facility Operators dated June 9, 2005, the MDEQ states that *"The amendments to the Septage Waste Servicers law and continued growth in the total number of on-site wastewater treatment systems are expected to increase the need for septage receiving facilities."* A copy of the letter is included in *Appendix E.*

B. CONCLUSIONS

Optimizing the plants operation was explored. However, based on the capacity evaluation of the Rollin-Woodstock WWTP, it was determined that it can accept up to approximately 6,000 gallons per day (gpd). It was also determined that the Central-Lenawee WWTP does not have capacity to accept septage. The capacity analysis took into consideration the allocated capacity for the 20-year projected growth. The treatment capacity at both plants does not meet the septage projected loadings resulting from average and maximum month volumes of 13,500 gpd and 18,000 gpd, respectively.

The following alternatives were evaluated and the estimated project costs, annual debt service and user fee are summarized in *Table I.1*:

- **Alternative 1A (One Screen; No Grit Removal)** - Construction of one septage receiving station (with one screen and no grit removal) each at the Rollin-Woodstock and Central Lenawee WWTPs (total of two facilities), along with needed plant upgrades and/or expansion. The estimated capital costs of this alternative are **$5,438,400**, including **$3,352,800** at the Central Lenawee WWTP and **$2,085,600** at the Rollin-Woodstock WWTP. The 20-year life-cycle costs (present worth) of this alternative is $6,248,500.

- **Alternative 1B (One Screen with Grit Removal)** - Construction of one septage receiving station (with one screen and grit removal) each at the Rollin-Woodstock and Central Lenawee WWTPs (total of two facilities), along with needed plant upgrades and/or expansion. The estimated capital costs of this alternative are **$6,083,000**, including **$3,675,100** at the Central Lenawee WWTP and **$2,407,900** at the Rollin-Woodstock WWTP. The 20-year life-cycle costs (present worth) of this alternative is $6,881,900.

- **Alternative 2 (One Screen; One Future; No Grit Removal)** - Construction of one septage receiving station (with one screen and provisions for a future screen) each at the Rollin-Woodstock and Central Lenawee WWTPs (total of two facilities), along with needed plant upgrades and/or expansion. The estimated capital costs of this alternative are **$5,975,200**, including **$3,621,200** at the Central Lenawee WWTP and **$2,354,000** at the Rollin-Woodstock WWTP. The 20-year life-cycle costs (present worth) of this alternative is $6,792,700.

- **Alternative 3 (Two Screens; No Grit Removal)** - Construction of one septage receiving station (with two screens and no grit removal) each at the Rollin-Woodstock and Central Lenawee WWTPs (total of two facilities), along with needed plant upgrades and/or expansion. The estimated capital costs of this alternative are **$6,811,200**, including **$4,039,200** at the Central Lenawee WWTP and **$2,772,000** at the Rollin-Woodstock WWTP. The 20-year life-cycle costs (present worth) of this alternative is $7,637,400.

C. *SELECTED ALTERNATIVE*

Based on the monetary evaluation and technical considerations, presented in *Section III*, the selected alternative is: Alternative 1B - construction of one septage receiving station (with one screen and grit removal) to accept "domestic septage only" at the Rollin-Woodstock WWTP, along with needed plant upgrades for aerobic co-digestion of screened septage and thickened waste activated sludge (WAS).

- **Alternative 1B (One Screen with Grit Removal) at Rollin-Woodstock WWTP-** Construction of one septage receiving station (with one screen and

grit removal) at the Rollin-Woodstock WWTP, along with needed plant upgrades. The estimated capital costs of this alternative are **$2,407,900**. The alternative with grit removal was selected because removal of grit before the storage and aerobic digesters will minimize maintenance to the transfer and recirculation pumps and eliminate frequent cleaning of the storage and digester tanks.

- **Rollin-Woodstock WWTP Upgrades** – The potential sludge handling facility upgrades involve adding one aerobic digester, which would serve as the primary digester, and utilize one of the existing sludge holding tanks as the secondary digester. Both tanks would be covered and odor control would be provided. A preliminary estimate of the new tank capacity was determined to be about 193,000 gallons, with the assumption that the capacity of one of the existing tank of 238,000 gallons can be used. The sizing of the tank was based on a solids retention time (SRT) of 20 days and accepting the average septage volume of 13,500 gpd. Decant would be sent to the plant headworks, as needed to accept daily septage volumes. Aeration in the new tank would be provided utilizing coarse bubble diffuser system and existing blower capacity. The existing tank would be retrofitted with coarse bubble diffusion system. Pumps would be required for sludge transfer and recirculation. The process piping would be configured to allow for treating septage only and/or for mixing and treating septage with the waste activated sludge (WAS) currently produced at the plant.

- **Septage Pilot Program** - Prior to proceeding with the plants' upgrades, a full-scale pilot program is recommended to be implemented at the Rollin-Woodstock WWTP, using two of the existing unused aerobic digesters (with the 103,000 capacity). The goal of the pilot program is three fold: 1) it would provide data on the septage characteristics that can be used for properly sizing the plant upgrades; 2) it provides some basis for an optimum operational mode; and, 3) it can provide for an interim alternative of accepting septage until the permanent facilities are built. This is based on the determination that the plant has the capacity to accept up to 6,000 gpd of septage. The pilot study would involve accepting, sampling and treating septage at the plant. An operational protocol must be carefully prepared and approval must be obtained from the MDEQ for the pilot study. The pilot study duration should be for a minimum of 90 days.

The user cost of implementing the project at the Rollin-Woodstock WWTP at an estimated cost of **$2,407,900** would be **$117 per 1,000 gallons** of septage disposed at the facility (assuming 1.75 MG average annual septage volumes and 20-year at 1.625% interest loan term), including $81.00 for debt retirement and $36 per $1,000 gallon for operation and maintenance costs.

Table I.1

Estimated Project Costs, Annual Debt Service[1] and User Fee[2]

Facility	Alternative 1A	Alternative 1B	Alternative 2	Alternative 3
Central Lenawee WWTP (One Septage Facility)				
Septage Facility	$1,173,700	$1,496,000	$1,442,100	$1,860,100
Plant Upgrades	$2,179,100	$2,179,100	$2,179,100	$2,179,100
Project Costs	**$3,352,800**	**$3,675,100**	**$3,621,200**	**$4,039,200**
Annual Debt Service	**$197,700**	**$216,700**	**$213,500**	**$238,200**
User Fee	**$149**	**$160**	**$158**	**$172**
Rollin-Woodstock WWTP (One Septage Facility)				
Septage Facility	$1,173,700	$1,496,000	$1,442,100	$1,860,100
Plant Upgrades	$911,900	$911,900	$911,900	$911,900
Project Costs	**$2,085,600**	**$2,407,900**	**$2,354,000**	**$2,772,000**
Annual Debt Service	**$123,000**	**$142,000**	**$138,800**	**$163,500**
User Fee	**$106**	**$117**	**$115**	**$129**
Central Lenawee and Rollin-Woodstock WWTPs (Two Septage Facilities)				
Project Costs	**$5,438,400**	**$6,083,000**	**$5,975,200**	**$6,811,200**
Annual Debt Service	**$320,700**	**$358,700**	**$352,400**	**$401,700**
User Fee	**$219**	**$241**	**$237**	**$266**

[1]Assuming 1.75 MG of annual septage volume and 20-year at 1.625% loan term.

[2]User fee per 1,000 septage gallons disposed at the facility, including debt retirement and O&M costs of $36 per 1,000 gallons.

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
JACKSON DISTRICT OFFICE

JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

March 19, 2007

Mr. Jack R. Dillon, Sewer & Water Systems Superintendent
Lenawee County Drain Commission
320 Springbrook Avenue, Suite 102
Adrian, Michigan 49221

Dear Mr. Dillon:

SUBJECT: National Pollutant Discharge Elimination System Permit No. MI0027669
Designated Name: Rollin-Woodstock WWTP
Septage Treatment

The Department of Environmental Quality (DEQ), Water Bureau (WB), received your letter dated March 2, 2007, regarding the status of the septage receiving station pilot program at the Rollin-Woodstock Wastewater Treatment Plant (WWTP). As noted in your letter, we granted approval for the WWTP to receive 6,000 gallons of septage per day for 60 days, then approved an increase to 8,000 gallons of septage per day for the remainder of the pilot program. You have requested to maintain the 8,000 gallon per day septage receiving at the WWTP until a permanent septage receiving station can be installed.

DEQ, WB staff has reviewed your request in conjunction with final effluent data provided on the facility's Discharge Monitoring Reports. There is currently no evidence that the septage receiving station has had a detrimental effect on the treatment process or effluent quality at the WWTP. You are approved to continue accepting septage at the previously approved rate while completing design of the permanent septage receiving station.

We received your application for a construction permit under Part 41, Sewerage Systems, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, on March 13, 2007, for installation of the proposed temporary septage receiving screening equipment. This application will be reviewed in the near future. We will contact you to request any additional information that is needed in order for us to complete that review. You may contact Ms. Tiffany Myers, Environmental Engineer, of our staff, at 517-780-7480 with any questions regarding the application.

The March 2, 2007, letter states that upon completing final design of the permanent septage receiving station, you will be requesting authorization for an increase in the volume of septage to 18,000 gallons per day. We will review the increased loading authorization request when that is submitted along with any associated analytical data. Please be aware that the reliability and redundancy requirements of the WWTP as outlined in the "Recommended Standards for Wastewater Facilities" and in the United States Environmental Protection Agency's "Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability" must not be compromised as a result of the increased septage load. These items should be addressed in your request for the increased loading.

Please contact me should you have any questions regarding this correspondence.

Sincerely,

Jennifer Krejcik
Environmental Quality Analyst
Water Bureau
517-780-7933

JK/CH
cc: Mr. Stephen May, Drain Commissioner, Lenawee County Drain Commission
Mr. Matthew Campbell, WB, DEQ-Lansing Office
Ms. Tiffany Myers, WB, DEQ-Jackson District Office
File: Rollin-Woodstock WWTP, Correspondence, Lenawee County

OPERATING PLAN TO RECEIVE SEPTAGE AT THE

ROLLIN & WOODSTOCK WASTEWATER TREATMENT PLANT

A - PUBLIC NOTICE

B – OPERATING PLAN

C – RECEIVING FACILITY PROTOCOL

D - PLANT LOADING, CAPACITYS

E – PLANT INFLUENT DATA

F – FINAL EFFLUENT DATA

G – SEPTAGE TESTING DATA

H – SUPERNATANT TESTING DATA

I – WASTE ACTIVATED SLUDGE DATA

J – DIGESTER DATA, STORAGE DIGESTER DATA

K – MAPS OF PLANT LOCATION

L – PLANT FLOW DIAGRAM

M- CHAIN OF CUSTODY

RECEIVED
MICH DEPT OF ENVIRONMENTAL QUALITY

MAY 24 2007

Water Division
Groundwater Section
WELL CONSTRUCTION UNIT

Department of Environmental Quality
Water Bureau

Septage Program

Septage Receiving Facility Inspection

Completion of this form is voluntary

RECEIVING STATION CHECKLIST

RECEIVING FACILITY INFORMATION (please print or type)			
NAME Rollin-Woodstock WWTP			RECEIVING FACILITY OWNER Rollin-Woodstock Sanitary Drain Drainage Board
ADDRESS 6100 Sorby Rd.			MAINTAINER OF THE RECEIVING FACILITY Same
CITY Addison	STATE MI	ZIP 49220	HOURS OF OPERATION 7:30 A.M. - 4:00 P.M. M-F

PLEASE COMPLETE ALL OF THE FOLLOWING INFORMATION:	
1. Are individual septage firm accounts established and tracked?	[X] YES [ ] NO [ ] N/A
2. Are individual septage firms tracked on a per discharge basis? *This would include the volume discharged on a per visit basis.*	[X] YES [ ] NO [ ] N/A
3. Are firms and septage waste volumes tracked separately for all users disposing septage waste at this facility? *Please attach a copy of the list of septage haulers using the facility and the number of gallons of septage disposed at the plant per hauler.*	[X] YES [ ] NO [ ] N/A
4. Are the volumes totaled for each firm on a daily, weekly, monthly and yearly basis?	[X] YES [ ] NO [ ] N/A
5. How many gallons of septage waste are received annually at this facility?	_____ gallons
6. Does the design of the receiving facility readily accommodate the septage hauler? If not, please explain.	[X] YES [ ] NO [ ] N/A
7. Is the dump station ramp sloped resulting in the complete drainage of the septage waste vehicle?	[ ] YES [X] NO [ ] N/A
8. Is the dump station maintained on a regular schedule?	[X] YES [ ] NO [ ] N/A
9. Is staffing adequate to maintain the receiving facility?	[X] YES [ ] NO [ ] N/A
10. Is the receiving facility/dump station free of noxious odors?	[X] YES [ ] NO [ ] N/A
11. Are odor control measures in place?	[X] YES [ ] NO [ ] N/A
12. Describe how the screenings are managed and where they are disposed. Screenings are washed and placed in a dumpster to go to landfill.	
13. Can the receiving facility be gated and locked to limit access?	[X] YES [ ] NO [ ] N/A
14. Are there any safety issues? If so, please describe.	[ ] YES [X] NO [ ] N/A

Name of Inspector:

Name of Health Dept.:

Date of Inspection:

Please send a copy after inspection is complete to:

Department of Environmental Quality
Water Bureau, Septage Program
Constitution Hall, 2nd Floor, North
P.O. Box 30273
Lansing, MI 48909-7773

No enforcement action is to be taken by the health department.

Septage Receiving Station Check List

1. Location if septage receiving facility.	Rollin & Woodstock WWPT 6100 Sorby Hwy Addison, Mi. 49220
2. Hours of operation.	Monday – Friday 7:30 am – 4:00 pm No Holidays
3. Categories of septage waste you receiving facility will accept.	Domestic only no (RV, commercial, Food Establishments Portable toilet waste, ect
4. Fee structure charged to haulers to Dispose of septage for treatment	$ 55.00 PER 1,000 gallons
5. Service Area of your septage receiving facility.	Lenawee County and Hillsdale County
6. Other conditios for receiving septage.	See Plan and Protocol

PUBLIC NOTICE

THE OPERATING PLAN FOR THE ROLLIN & WOODSTOCK WWTP

FOR RECEIVING DOMESTIC SEPTAGE

The State of Michigan has amended Part 117 of the Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994, P.A. 451, to require the development of an Operating Plan describing the receipt of septage wastes.

The Rollin & Woodstock Plant (R-W WWTP) has contracted with Hazen & Sawyer - Environmental Engineers to study the head works capacity. Because of the R-W WWTP minimal loadings, a study was approved by DEQ for the plant to receive 6,000 gallons per day of septage for 90 days. The study was completed in January of 2007, with little or no noticeable impact to plant discharge.

The R-W WWTP will continue to receive Septage during the interim period during the design phase of a permanent receiving station at a rate of 6,000 to 8,000 gallons per day and up to 18,000 gallons per day with MDEQ approval of submitted plan.

A new operating plan includes and describes: the location, hours of operation, limits to acceptance of domestic septage, fee structure, service area and other conditions applicable to the receipt and acceptance of domestic septage.

Copies of the operating plan will be available at the Lenawee County Drain Commissioner's Office at 320 Springbrook Ave. Suite 102 Adrian Michigan 49221, between the hours of 8:00 am and 4:30 pm; Monday through Friday. It will also be available on the Lenawee County Drain Commissioner's website at (www.lenaweedrain.com).

Written comments concerning this plan should be submitted by May 31, 2007 to the attention of

Jack Dillon
Lenawee County Drain Commissioner's Office
Sewer & Water Superintendent
320 Springbrook Ave. Suite 102
Adrian, MI 49221

For additional information, please call Jack Dillon or Stephen R. May at 517-264-4696.

Jack

LENAWEE COUNTY

Drain Commissioner's Office

Stephen R. May
Commissioner

320 Springbrook Avenue, Suite 102 • Adrian, Michigan 49221
Phone: 517-264-4696 • Fax: 517-264-4785
www.lenaweedrain.com

Jennifer L. Escott
Deputy

LETTER OF TRANSMITTAL

DATE: April 17, 2007

TO: Cheryl Procter - Legal Notices
The Daily Telegram

FAX #: 265-3030

RE: Public Notice - Rollin-Woodstock WWTP

We are sending you the following:

Quantity	Description
1 page	Operating Plan for the Rollin & Woodstock WWTP for Receiving Domestic Septage

Transmitted for your:

X use
___ review
___ approval
___ as requested
___ information
___ _____

Comments:
Please publish this notice one (1) time on Friday, April 20, 2007.
ALSO, please call me at 264-4696 to confirm receipt of notice. Thank you.

If you have any questions, please give me a call.

Respectfully,

Mary F. Twiss

Mary F. Twiss
Account Clerk III

mt

FAXED
3:45 PM

AFFIDAVITS OF PUBLICATION

PUBLIC NOTICE
THE OPERATING PLAN FOR THE ROLLIN & WOODSTOCK WWTP FOR RECEIVING DOMESTIC SEPTAGE

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The R-W WWTP will continue to receive Septage during the interim period during the design phase of a permanent receiving station at a rate of 6,000 to 8,000 gallons per day and up to 18,000 gallons per day with MDEQ approval of submitted plan.

A new operating plan includes and describes: the location, hours of operation, limits to acceptance of domestic septage, fee structure, service area and other conditions applicable to the receipt and acceptance of domestic septage.

Copies of the operating plan will be available at the Lenawee County Drain Commissioner's Office at 320 Springbrook Ave., Suite 102, Adrian, Michigan 49221, between the hours of 8:00 a.m. and 4:30 p.m.; Monday through Friday. It will also be available on the Lenawee County Drain Commissioner's website at (www.lenaweedrain.com).

Written comments concerning this plan should be submitted by May 31, 2007 to the attention of Jack Dillon, Lenawee County Drain Commissioner's Office, Sewer & Water Superintendent, 320 Springbrook Ave., Suite 102, Adrian, MI 49221.

For additional information, please call Jack Dillon or Stephen R. May at 517-264-4696.

1T April 20

STATE OF MICHIGAN
County of Lenawee
City of Adrian

Vicki Sentle being first duly sworn, says that she is the PRINCIPAL CLERK of The Daily Telegram a newspaper published in the English language for the dissemination of local or transmitted news and intelligence of a general character, which is a duly qualified newspaper, and that annexed here to is a copy of a certain order taken from said newspaper, in which the order was published on the

April 20, 2007

#

Paid _____ Amount Due $63.50

Subscribed and sworn to before me this day of April 20 2007

Sheri L. Myers
Notary Public, Lenawee County, Michigan
My Commission Expires: June 17, 2010

487

Advertising Receipt

RECEIVED
LENAWEE COUNTY
DRAIN COMMISSIONER'S OFC

The Daily Telegram
133 N. Winter Street
Adrian, MI 49221
Phone: (517) 265-5111
Fax: (517) 265-3030

Stephen May
Lenawee County Drain Commission
425 N. Main
Adrian, MI 49221

Cust#: 02100626-000
Ad#: 05570418
Phone: (517)264-4696
Date: 04/18/07

Ad taker: ls **Salesperson:** **Classification:** 001

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
01 The Daily Telegram	04/20/07	04/20/07	1	61.50		61.50
Affidavit						2.00

Payment Reference:

Total:	63.50
Tax:	0.00
Net:	63.50
Prepaid:	0.00
Total Due	63.50

PUBLIC NOTICE
THE OPERATING PLAN FOR THE ROLLIN & WOODSTOCK WWTP FOR RECEIVING DOMESTIC SEPTAGE

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The Rollin & Woodstock Plant (R-W WWTP) has contracted with Hazen & Sawyer - Environmental Engineers to study the head works capacity. Because of the R-W WWTP minimal loadings, a study was approved by DEQ for the plant to receive 6,000 gallons per day of septage for 90 days. The study was completed in January of 2007, with little or no noticeable impact to plant discharge.

The R-W WWTP will continue to receive Septage during the interim period during the design phase of a permanent receiving station at a rate of 6,000 to 8,000 gallons per day and up to 18,000 gallons per day with MDEQ approval of submitted plan.

A new operating plan includes and describes: the location, hours of operation, limits to acceptance of domestic septage, fee structure, service area and other conditions applicable

OPERATING PLAN TO RECEIVE SEPTAGE AT THE

ROLLIN & WOODSTOCK WASTEWATER TREATMENT PLANT

The Rollin & Woodstock Wastewater Treatment Plant receives domestic sewage from the townships of Rollin and Woodstock and the Village of Addison, as well as domestic septage from Lenawee County and Hillsdale County. The Plant is operated by the Lenawee County Drain Commissioner, under the authority of the Rollin & Woodstock Sanitary Drain Drainage Board. Jack Dillon is the current Superintendent. The septage is trucked to the septage receiving facility by independent haulers.

The State of Michigan has amended Part 117 of the Septage Waste Servicer's, of the Natural Resources and Environmental Protection Act, 1994, P.A. 451, to require the development of an Operating Plan describing the receipt of septage wastes. This plan is submitted in response to this requirement.

1.) <u>The Rollin & Woodstock WWTP service area and capacities.</u>

The Rollin & Woodstock WWTP is located at 6100 Sorby Road, Addison, Michigan 49220. The Rollin & Woodstock Plant (R-W WWTP) receives sewage from Devils Lake and Round Lake areas located in the townships of Rollin and Woodstock and the Village of Addison.

The R-W WWTP is regulated under NPDES permit MI0027669 and is authorized to treat a maximum flow of 1.2 MGD with a peak flow of 3 MGD.

<u>2.) Domestic Septage Waste</u>

The R-W WWTP will receive domestic septage from the counties of Lenawee and Hillsdale in accordance with State laws. No other type of septage will be received at the R-W WWTP including, food establishment, commercial, portable toilet, or recreational vehicle waste.

<u>3.) Service Area of Septage</u>

The R-W WWTP will receive septage primarily from Lenawee County and Hillsdale County. State Law requires any septage hauler pumping septage within 15 miles of the R-W WWTP, and the hauler does not have 50,000 gallons of storage and can not land apply they are required to bring that septage to R-W WWTP receiver station. The septage receiving service area will increase to a 25 mile radius from the plant in 2010. Haulers using R-W WWTP receiver station will be on a voluntary basis, and not mandatory. Haulers will be able to land apply per MDEQ requirements.

OPERATING PLAN TO RECEIVE SEPTAGE AT THE

ROLLIN & WOODSTOCK WASTEWATER TREATMENT PLANT

4.) Other Conditions for Receiving Septage Waste

The following additional conditions have been established for the receipt of septage waste.

a. All trucks must be licensed through the Michigan Department of Environmental Quality (MDEQ) as a condition of applying for permission to discharge.

b. Each truck must have a written chain of custody to verify where the septage was pumped and to confirm origin of the septage.

c. All trucks shall be equipped to connect to the R-W WWTP receiving facility station.

d. Each company will pre-apply for permit to discharge to the plant, so that R-W WWTP can keep track of gallons unloaded, feed rates to the screen.

e. The R-W WWTP may withhold discharge at any time should plant conditions warrant or if it has received the maximum amount for that day.

f. The maximum discharge limit for a single day will be 18,000 gallons, Monday through Friday, 7:30 am to 4:00 pm. except holidays.

g. The R-W WWTP may receive more than 18,000 gallons per day on an emergency basis. The additional septage will be diverted to one of two gravity sludge thickeners, and processed during the weekend or during slow periods.

h. At no time will septage be allowed to deteriorate the discharge quality of the plant process. Only the dewatering (supernatant) will be allowed back to the head works of the plant. The septage will be kept separated from the normal operation of the plant to receive sewage from the Townships and the Village.

i. The Card access will allow the R-W WWTP to monitor the septage flow and provide information for billing and prevent unauthorized use.

j. Should R-W WWTP have a problem, flow or septage or supernatant would be sent to the EQ basin for pre-treatment.

OPERATING PLAN TO RECEIVE SEPTAGE AT THE

ROLLIN & WOODSTOCK WASTEWATER TREATMENT PLANT

4.) Fee Structure to Dispose of Septage for Treatment

Each hauler will be charged $ 55.00 per 1,000 gallons or $.055 cents per gallon.

a. $25.00 - operations and maintenance
b. $17.00 - debt service of loan
c. $10.00 - tank storage lease - R-W WWTP
d. $3.00 - miscellaneous

5.) Odor Control

Plant has had no odor problems, the screen and primary digesters will be covered, and odor control measures will be installed if needed.

6.) Screenings

All screening are washed with plant non-potable water in the screen, placed in plant drying beds to dry and will be taken to land-fill.

The Rollin & Woodstock Wastewater Treatment Pant
Septage Receiving Facility Protocol

A pilot program was completed at the Rollin & Woodstock WWTP to determine the capacity of the treatment plant to accept septage. The second goal of the program was to gather data on the septage characteristics and study the effects of the septage on the discharge effluent of the plant. MDEQ allowed the plant to accept 6,000 gallon of septage per day which was screened and pumped to aerobic digesters that were not in use. The dissolved oxygen was kept at or above 2 mg/l. After 60 days into the study the amount of septage was increased to 8,000 gallon per day. This had minimal effect on the plant. We did not witness any odors coming from the process. The supernatant that was taken from the process and pumped back to the head-works of the plant showed no effects on the discharge of the plant.

Project Plan Conclusion

The plant has two aerobic digesters with a capacity of 50,000 gallons each. The pilot study demonstrated that one digester could treat 8,000 gallons per day of septage with no adverse effects on the plant or the discharge. In the new protocol, the septage will be divided between both aerobic digesters which will allow 16,000 – 18,000 gallons per day of septage to be processed at the plant. The septage would only be sent to the solids handling portion of the plant. The supernatant would be pumped to the head-works of the plant which would be controlled by the operator. If there should be a problem with the septage or the plant discharge, the plant would discontinue to accept septage.

Mode of Operation

The project plan is to construct a building at the west end of the gravity thickeners and install the JWC Honey Monster Septage Receiving System. The septage hauler will drive up to the building and connect to a (4) inch stand pipe located next to the drive. The hauler will then insert a card (that will be issued to him by the Lenawee County Drain Commissioner) to start the screen and open the inlet valve to the screen. The septage will flow through the screen into a pumping station located at the gravity thickeners. The station will turn on at a preset level and transfer the septage to the predetermined digester or digesters.

The septage will be mixed with treated sludge in the primary digesters. Sludge will be transferred daily from the primary digesters to a decant tank, there the sludge will be allowed to settle and the solids and supernatant will separate and the supernatant will be fed back to the head-works of the plant. The solids that settle will be pumped to a storage digester and mixed with waste activated sludge from the plant process. The storage digester will be decanted and the Bio-solids will be concentrated in preparation for land application at an approved site. All Bio-solids will conform with State regulations and in accordance with the R-W WWTP Bio-solids Management Plan.

The Rollin & Woodstock Wastewater Treatment Pant
Septage Receiving Facility Protocol

Because of winter months the primary digesters and decant tank will be covered and odor control will be installed. Should a hauler have an emergency and have to unload at the plant, overflow will be sent to the gravity thickener and will be fed to the digester at the operator's discretion or during low flows of septage. The gravity thickeners will give the plant 50,000 gallons of emergency storage. This cover will keep odor in control and keep the digesters from freezing during winter months.

The supernatant will be fed back to the head-works at a rate so not to affect the plant discharge quality. Should the system develop a problem all septage activities will be suspended until the problem is corrected. The septage program at no time will diminish the plants ability to treat the sewage coming to the plant from its customers.

Septage Hauler Responsibilities

1. Haulers will complete a chain of custody documenting the location and date pumped
2. The hauler will have a permit to unload at the R-W WWTP by having a card (issued by the Lenawee County Drain Commissioner) to start the receiving station.
3. The card will allow R-W WWTP to keep track of the unloading flow rate and the total gallons unloaded.
4. The hauler must be licensed and insured.
5. Any septage load not meeting domestic quality that may present some type of characteristic not compatible with the plant may be refused.
6. The hauler will have a compatible connection to R-W WWTP receiver.
7. The hauler must be able to pressurize the truck tank to clean out the connection and piping going to the screen. This will help prevent freezing in winter and septage being spilled on the ground.
8. It is the haulers responsibility to report any problems with equipment to the R-W WWTP staff.
9. The hauler will enter the North gate at the plant drive West around the storage tanks turn South and drive up to the inlet pipe to the screen, after unloading they will proceed South than turn East following the drive and leave by way of the North gate.

The Responsibilities of the Operator at R-W WWTP

1. Will keep equipment in proper working condition.
2. Will be inspected on a daily basis.
3. The screen building will have a gas detector with audio and visual alarm warning system.

4. Odor control will be controlled by vent fans which will run when screen is started or a person entering the building or detection limits are out of compliance for safe entrance.

5. The hauler will be billed by the Lenawee County Drain Commissioner on a monthly basis.

Hydraulic and Organic Loading Capacity

The septage will not flow through the head-works, but will enter the sludge handling and processing streams. The supernatant will be pumped back to the head-works. Should the supernatant affect the plant, the supernatant will be shut off and the flow will be sent to the Equalization Basin.

Section D of the Operating Plan shows the loadings and capacities.

The Organic loading on the head-works was contracted to Hazen & Sawyer Engineers;

Table 1 shows the projected loading and available capacities for the plant in the year of 2025.
Table 2 shows the loading of the supernatant going back to the head-works at volumes equal to the septage being accepted. The Peak Day is the highest amount sent to the head-works in one day.
Table 3 shows the same loadings in pounds per day at different loadings volumes.
Table 4 shows the capacity available for Rollin & Woodstock future flows.
The Supernatant should have minimal effect on the plant discharge.

Digester Capacity

The next page in section (D) shows the digester volumes and capacities of the plant. Total plant capacity includes hauling bio-solids two times per year achieving a total volume of 1,662,000 million gallons per year. Total septage that could be received is 4,320,000 million gallons per year. The plant could expect to see 70% to 76% reduction in volume by solids separation or (decanting) in the digesters and sludge storage. This reduction would leave 787,200 gallons for future capacity. The plant has a belt thickener and two gravity thickeners if more capacity is needed to meet future flows.

Hazen & Sawyer Projected Loadings. Table 1

Rollin & Woodstock WWTP (2025)

Parameter	Average Day	Max Month	Peak Day	Max Month Loadings	PLANT CAPACITY	AVAILABLE CAPACITY
Flow, MGD	1.0	1.10	2.20	1.10	1.20	0.10 MGD
BOD mg/l	60	93	139	851 ppd	1201 ppd	350 ppd
TSS mg/l	61	78	n/a	712 ppd	1501 ppd	789 ppd
TKN mg/l	32	32	32	294 ppd	N/A	N/A
NH3-N mg/l	20	20	20	183 ppd	300 ppd	117 ppd
Total-P mg/l	3.0	4.3	n/a	40 ppd	60 ppd	30 ppd

TABLE 2

Actual Supernatant Loading applied to Plant

Parameter	Project Value	Month Avg Day	Month Max Day	Peak Day
Volume , gpd	6,000	8,723	18,000	37,000
BOD mg/l	6	10	18	
TSS mg/l	10	22	42	
VSS mg/l	9	16	28	
TKN mg/l	3	4	5	
NH3-N mg/l	0.16	0.6	2.1	
Total P mg/l	0.5	0.9	1.6	

TABLE 3

Actual Loadings Pounds Per Day (ppd)

	6,000 GALLONS	8,723 GALLONS	18,000 GALLONS	37,500 GALLONS
Parameers	Project Design	Monthly Avg	Monthly Max	Peak Day
BOD ppd	0.3	0.7	2.7	5.5
TSS ppd	0.5	1.5	6.3	13
VSS ppd	0.5	1.12	4.2	8.6
TKN ppd	0.2	0.3	0.75	1.5
NH3-N ppd	0.01	0.04	0.3	0.64
Total P ppd	0.03	0.06	0.24	0.49

Available Capacity TABLE 4

	From Table 1	18,000 GALLONS	37,000 GALLONS	Available Capacity
Parameter	Available Capacity	Monthly Max	Peak Day Loading	Future
Flow, MGD	1.10	0.018	0.037	0.063
BOD ppd	350 ppd	2.7	5.5	344.5 ppd
TSS ppd	789 ppd	6.3	13	776 ppd
NH3-N ppd	117 ppd	0.3	6.4	110.6 ppd
Total P ppd	30 ppd	0.24	0.49	29.5 ppd

OPERATING PLAN TO RECEIVE SEPTAGE AT THE

ROLLIN & WOODSTOCK WASTEWATER TREATMENT PLANT

DIGESTER CAPACITY

1) Primary Digesters = 2 tanks @ 50,000 gal. each	100,000 gallons
2) Decant Tank = 1 tank @ 20,000 gal.	20,000 gallons
3) Sludge Storage = 3 tanks @ 237,000 gal. each	711,000 gallons
Total Treatment/Storage Capacity	**831,000 gallons**

Bio-Solids will be applied Spring and Fall doubling our storage capacity.

Total Holding Capacity **1,662,000 gallons per year**

Septage Receiving Capacity

The plant may receive up to 18,000 gallons/day/ M-F.

1.) 18,000 gal. x 20 days/month x 12 months/year = 4,320,000 gallons/year.

2.) The Pilot study just completed by R-W WWTP demonstrated a 78% reduction in volume can be expected

3.) 410,750 gal of septage was received during our study. We decanted back to the head works of the plant 323,130 gallons of supernatant.

a.) 323,130gal / 410,750 x 100 = 78% reduction in volume.

b.) The plant wasted from the treatment process a total of 49,720 gallon of waste activated sludge (WAS) during our study.

c.) 410,750 gal. septage + 49,720 was = 460,470 total gallons of septage and waste activated sludge was received by the solids handling portion of the treatment plant during our study.

d.) 323,130 gal / 460,470gal x 100 = 70% reduction in sludge volume.

4.) 4,320,000 gallons received/year x 70% reduction in volume = 3,024,000 gallon of supernatant will be sent back to the head works to be processed by the plant, with 1,296,000 gallons going into sludge holding.

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

DECEMBER 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	12	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1			1.653								
2			0.976								
3			0.957		43	344	32	256	1.2	9.6	
4			0.868		31	225	28	203	1.1	8.0	
5			0.844		33	233	24	169	1.1	7.8	55
6			0.810		40	271	45	304	1.5	10.1	
7			0.754		48	302	52	327	2.0	12.6	
8			0.765								
9			0.778								
10			0.779		84	546	68	442	2.0	13.0	
11			0.785		47	308	65	426	2.0	13.1	
12			1.033		51	440	41	354	1.4	12.1	
13			0.905		59	446	54	408	1.4	10.6	
14			0.913		43	328	35	267	1.4	10.7	
15			0.888								
16			0.847								
17			0.818		83	567	53	362	2.3	15.7	
18			0.760		53	336	63	400	1.7	10.8	
19			0.757		51	322	53	335	1.9	12.0	
20			0.762		33	210	39	248	1.1	7.0	
21			0.910								
22			0.862								
23			0.937								
24			0.796								
25			0.921				30	231	2.9	22.3	
26			0.918				40	307	1.5	11.5	
27			0.843		58	408	45	317	1.3	9.2	
28			0.816								
29			0.800								
30			0.837								
31			1.223								
TOT			27.515			5285		5355		196.0	
AVG			0.888		50	352	45	315	1.6	11.5	
MIN			0.754		31	210	24	169	1.1	7.0	
MAX			1.653		84	567	68	442	2.9	22.3	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

NOVEMBER 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	11	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
1			0.637		38	202	47	250	1.4	7.4	
2			0.649		29	157	34	184	0.9	4.9	
3			0.652								
4			0.650								
5			0.671		56	314	48	269	1.6	9.0	
6			0.669		30	168	50	279	1.3	7.3	
7			0.748		81	506	99	618	2.1	13.1	
8			0.691		31	179	32	185	1.1	6.3	
9			0.672							5.6	
10			0.677								
11			0.781								
12			0.713		155	923	154	917	5.8	34.5	
13			0.708		20	118	62	367	2.3	13.6	
14			0.730		38	232	35	213	1.5	9.1	
15			0.714		39	233	34	203	1.5	8.9	
16			0.952		46	366	48	382	1.4	11.1	40
17			0.868								
18			0.814								
19			0.738		136	838	82	505	2.0	12.3	
20			0.713		37	220	37	220	1.5		
21			0.741		23	142	32	198	1.3	8.0	
22			0.736		108	664				6.1	
23			0.724								
24			0.706								
25			0.733								
26			0.675		315	1775	174	981	5.9	33.3	
27			0.728		41	249	45	274	1.7	10.3	
28			0.716		53	317	56	335	1.1	6.6	
29			0.752		37	232	62	389	1.3	8.2	
30			1.123		42	394	36	338	1.2	11.3	
31											
TOT		0	22.081			8228		7106		227.1	
AVG			0.736		68	411	61	374	1.9	11.4	40
MIN			0.637		20	118	32	184	0.9	4.9	
MAX			1.123		315	1775	174	981	5.9	34.5	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

OCTOBER 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID 460150 06 2005 500
PLANT# MO YR SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
1			0.715		150	896	86	513	2.8	16.7	
2			0.747				44	274	1.7	10.6	
3			0.694		40	232	38	220	1.4	8.1	
4			0.813		70	475	85	577	1.9	12.9	
5			0.729		44	268	39	237	1.5	9.1	
6			0.710								
7			0.641								
8			0.661		154	850	70	386	2	11.0	
9			0.687		69	396	76	436	1.8	10.3	
10			0.690		34	196	38	219	1.4	8.1	
11			0.697		42	244	36	210	1.4	8.1	
12			0.687		45	258	41	235	1.4	8.0	
13			0.731								
14			0.714								
15			0.689		146	840	63	362	2.1	12.1	
16			0.732		49	299	38	232	1.5	9.2	
17			0.892		40	298	62	462	1.2	8.9	
18			0.730		26	158	29	177	1.2	7.3	
19			0.705		51	300	48	283	1.7	10.0	
20			0.686								
21			0.708								
22			0.646		126	680	77	415	1.7	9.2	
23			0.664		82	455	49	272	1.5	8.3	
24			0.661		34	188	46	254	1.4	7.7	
25			0.610		35	178	37	188	1.6	8.1	
26			0.657		44	241	45	247	1.5	8.2	
27			0.852								
28			0.822								
29			0.713		51	304	50	298	1.4	8.3	
30			0.709		33	195	37	219	1.3	7.7	
31			0.675		26	147	26	147	1.8	10.1	
TOT		0	22.067			8098		6864		218.3	
AVG			0.712		63	368	50	298	1.6	9.5	
MIN			0.61		26	158	29	177	1.2	7.3	
MAX			0.892		154	896	86	577	2.8	16.7	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

SEPT. 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	9	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	3		0.754								
2	3		0.781								
3	1		0.770								
4	2		0.737		206	1268	138	849	3.6	22.2	
5	2		0.686		104	596	84	481	3.6	20.6	
6	2		0.672		53	297	49	275	2.8	15.7	
7	2		0.663				86	476	2.7	14.9	
8	2		0.727								
9	34		0.688								
10	3		0.701		148	866	62	363	2.4	14.0	
11	24	0.05	0.661		147	811	140	773	4.0	22.1	
12	34	0.32	0.678		46	260	45	255	1.8	10.2	
13	24	0.13	0.667		58	323	51	284	1.7	9.5	
14	3		0.707				44	260	1.3	7.7	
15	3		0.730								
16	3		0.734								
17	34	0.03	0.711		105	623	25	148	4.1	24.3	
18	34	0.31	0.740		115	711	104	643	2.6	16.1	
19	2		0.694		52	301	58	336	1.8	10.4	
20	1		0.695		141	818	73	424	2.9	16.8	
21	1		0.645		39	210	44	237	1.7	9.2	
22	34	0.21	0.646								
23	34	0.15	0.702								
24	3		0.647		154	832	70	378	2.0	10.8	
25	2		0.625		78	407	62	324	2.3	12.0	
26	1		0.634		45	238	48	254	1.7	9.0	
27	2		0.654		59	322	42	229	1.7	9.3	
28	2		0.664		33	183	36	200	1.7	9.4	
29	234	0.15	0.671								
30	34	0.40	0.652								
31											
TOT		1.75	20.736			9068		7188		264.2	
AVG			0.691		93	533	66	378	2.4	13.9	
MIN			0.625		33	183	25	148	1.3	7.7	
MAX			0.781		206	1268	140	849	4.1	24.3	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

AUGUST 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	08	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	2		0.769		60	385	55	353	1.8	11.6	
2	13		0.739		108	666	92	568	2.5	15.4	
3	34	0.18	0.760		84	533	83	527	2.3	14.6	
4	1		0.813								
5	1		0.792								
6	2		0.820		183	1253	122	835	7.4	50.7	
7			0.808		83	560	51	344	4.4	29.7	
8	2		0.786		44	289	42	276	2.9	19.0	
9	2		0.737		54	332	34	209	3.0	18.5	
10	2		0.772				30	193			
11	2		0.858								
12	2		0.915								
13	2		0.856				78	558	2.9	20.7	
14	1		0.764		64	408	43	274	1.9	12.1	
15	1		0.662		57	315	41	227	1.7	9.4	
16	2		0.636		120	637	164	871	2.9	15.4	
17	24	0.04	0.647		53	286	47	254	1.9	10.3	
18	34	0.54	0.739								
19	3		0.769								
20	12		0.691		106	612	158	912	4.2	24.2	
21	1		0.649		88	477	63	341	2.1	11.4	
22	2		0.657		51	280	40	219	1.7	9.3	
23	24	0.40	0.619		69	357	75	388	2.4	12.4	
24	24	0.02	0.693		66	382	59	341	1.7	9.8	
25	3		0.707								
26	34	0.57	0.700								
27	34	0.06	0.791				135	892	2.6	17.2	
28	34	0.68	0.773				62	400	1.6	10.3	
29	34	0.07	0.762		60	382	42	267	1.4	8.9	
30	2		0.693		58	336	37	214	1.4	8.1	
31	34	0.05	0.682		53	302	75	427	2.1	12.0	
TOT		2.61	23.059			8792		9890		351.0	
AVG			0.744		77	463	71	430	2.6	16.0	
MIN			0.619		44	280	30	193	1.4	8.1	
MAX			0.915		183	1253	164	912	7.4	50.7	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JULY 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID 460150 07 2006 500
PLANT# MO YR SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
1			0.984								
2			0.973		122	991	118	959	3.3	26.8	
3			1.282								
4			0.988		224	1848	151	1246	3.8	31.3	
5			0.871		83	604	76	553	2.0	14.5	
6			0.870		47	341	49	356	1.4	10.2	
7			0.862								
8			0.984								
9			0.835				98	683	2.6	18.1	
10			0.812		140	949	51	346	1.9	12.9	
11			0.793		42	278	39	258	1.6	10.6	
12			0.803		33	221	26	174	1.9	12.7	
13			0.840		52	365	42	295	2.1	14.7	
14			0.941								
15			0.841								
16			0.945		220	1736	105	829	2.3	18.1	
17			0.768				34	218	1.9	12.2	
18			0.887		114	844			1.8	13.3	
19			0.828		37	256	37	256	1.8	12.4	
20			0.818		55	376	55	376	1.9	13.0	
21			0.897								
22			0.859								
23			0.817		320	2183	154	1051	4.6	31.4	
24			0.809		65	439	71	480	2.2	14.9	
25			0.823		39	268	38	261	1.4	9.6	
26			0.809		49	331	40	270	1.7	11.5	
27			0.875		50	365	47	343	1.7	12.4	
28			0.806								
29			0.899								
30			0.794		256	1697	194	1286	4.4	29.2	
31			0.813		67	455	75	509	2.2	14.9	
TOT		0	27.126			14548		10748		344.9	
AVG			0.875		106	766	75	537	2.3	16.4	
MIN			0.768		33	221	26	174	1.4	9.6	
MAX			1.282		320	2183	194	1286	4.6	31.4	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JUNE 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATU
JACK R. DILLON

ID	460150	06	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	3		0.909		46	349	48	364	1.4	10.6	
2	24	0.01	0.956								
3	3		0.989								
4	1		0.872		45	328	40	291	1.8	13.1	
5	2		0.860		61	438	43	309	1.8	12.9	
6	34	0.06	0.850		69	490	59	419	1.6	11.4	
7	24	0.07	0.938		43	337	49	384	1.4	11.0	
8			0.879		33	242	33	242	1.2	8.8	
9	1		0.968								
10	1		0.946								
11	2		0.821		125	857	121	829	2.4	16.5	
12	1		0.870		86	625	52	378	1.6	11.6	
13	2		0.818		41	280	35	239	1.4	9.6	
14	1		0.845		32	226	31	219	1.2	8.5	
15	1		0.848		67	474	68	481	1.9	13.5	
16	1		0.947								
17	2		0.911								
18	34	0.34	0.926		100	773	62	479	1.8	13.9	
19	23		0.878		140	1026	75	550	2.0	14.7	
20	24	0.56	0.824		43	296	42	289	1.4	9.6	
21	34	1.18	0.997		60	499	63	524	1.6	13.3	
22	2		0.911		41	312	32	243	1.0	7.6	
23	2		0.857								
24	1		0.824								
25	2		0.864		150	1082	78	563	2.6	18.8	
26	2		0.777		43	279	36	234	1.2	7.8	
27	2		0.812		72	488	56	380	1.4	9.5	
28	24	0.10	0.782		36	235	39	255	1.3	8.5	
29	1		0.827		43	297	40	276	1.4	9.7	
30	1		0.887								
31											
TOT		2.32	26.393			9934		7949		240.7	
AVG			0.880		66	473	52	379	1.6	11.5	
MIN			0.777		32	226	31	219	1.0	7.6	
MAX			0.997		150	1082	121	829	2.6	18.8	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

MAY 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	05	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	2		0.861		49	352	86	618	1.8	12.9	
2			0.954		34	271	35	279	1.1	8.8	
3	34	0.55	0.889		34	252	39	290	1.0	7.4	
4	3		0.869		29	210	31	225	1.0	7.3	
5	1		0.898								
6	1		0.912								
7	2		0.868								
8	1		0.906		21	159	28	212	1.1	8.3	
9	1		0.883		61	450	97	715	2.1	15.5	
10	24	1.68	1.079		45	405	59	532	1.1	9.9	
11	24	0.18	1.113		40	372	41	381	1.2	11.2	
12	34	0.10	1.084								
13	34	0.23	1.078								
14	24	0.30	1.033		44	380	48	414	1.4	12.1	
15	34	0.28	1.145		67	641	31	296	1.0	9.6	
16	3		1.123		58	544	39	366	1.2	11.3	
17	34	0.05	1.011		23	194	28	236	1.0	8.4	
18	34	0.12	1.033		28	242	32	276	1.0	8.6	
19	2		1.080								
20	2		0.908								
21	2		1.002		32	268	24	201	1.0	8.4	
22	1		0.913		26	198	35	267	1.5	11.4	
23	2		0.910		38	289	33	251	1.2	9.1	
24	24	0.10	0.904				33	249	1.0	7.5	
25	34	0.11	0.965		49	395	38	306	1.3	10.5	
26	1		1.024								
27	1		1.075								
28			1.115				126	1173	3.1	28.9	
29	3		0.966		97	782	118	952	2.8	22.6	
30	2		0.925		66	510	71	548	1.7	13.1	
31	34	0.05	0.963		59	474	40	322	1.4	11.3	
TOT		3.75	30.489			7387		9108		254.0	
AVG			0.984		45	369	51	414	1.4	11.5	
MIN			0.861		21	159	24	201	1.0	7.3	
MAX			1.145		97	782	126	1173	3.1	28.9	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

APRIL 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID 460150 04 2006 500
PLANT# MO YR SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
1	34	0.01	0.866								
2	34	0.35	0.923		60	462	44	339	2.0	15.4	
3	24	0.02	0.948		29	230	39	309	1.2	9.5	
4	2		0.909		26	197	29	220	1.1	8.3	
5	2		0.886		26	192	24	178	0.9	6.7	
6	34	0.2	0.906		48	363	58	439	2.2	16.6	
7	1		0.970								
8	1		0.923								
9	1		0.855		48	343	64	457	1.1	7.9	
10	1		0.885		38	281	57	421	1.7	12.6	
11	24	0.33	0.904		21	159	30	226	1.0	7.5	
12	24	0.03	0.970		42	340	54	437	1.5	12.1	
13	24	0.02	0.947		54	427	76	601			
14	1		0.974								
15			0.885								
16	1		0.935		48	375	41	320	1.2	9.4	
17	1		0.902		94	708	106	798	2.3	17.3	
18			0.874		32	234	29	212	1.0	7.3	
19	1		0.869		36	261	29	210	1.0	7.3	
20	2		0.870		25	182	31	225	1.0	7.3	
21	1		0.863								
22	24	0.01	0.891								
23			0.917		134	1026	111	850	3.0	23.0	
24	3		0.907		60	454	29	220	1.1	8.3	
25	24	0.07	0.847		31	219	37	262		7.1	
26			0.854		57	406	59	421	1.6	11.4	
27			0.844			7	46	324	1.3	9.2	
28			0.815								
29			0.828								
30			0.877			7	59	432		7.3	
31											
TOT		1.04	26.844			6874		7901		211.5	
AVG			0.895		48	327	50	376	1.5	10.6	
MIN			0.815		21	7	24	178	0.9	6.7	
MAX			0.974		134	1026	111	850	3	23.0	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

MARCH 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	03	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	34		0.855		38	271	36	257	1.2	8.6	
2	35		0.852		33	235	29	206	1.1	7.8	
3	2		0.830								
4	1		0.841								
5	25	0.05	0.841		72	506	46	323	1.3	9.1	34
6	24	0.03	0.838		47	329	44	308	1.5	10.5	
7	24		0.842		30	211	27	190	1.0	7.0	
8	24	0.21	0.873		31	226	35	255	1.0	7.3	
9	34	0.77	1.038		47	407	39	338	1.1	9.5	
10	3		1.126								
11	34	0.30	1.114								
12	24	0.78	1.149				59	566			
13			1.557		36	468	44	572	2.1	27.3	
14	3		1.236		26	268	29	299	1.1	11.4	
15	1		1.106		27	249	31	286	1.1	10.2	
16	4	0.08	1.063		21	186	25	222	1.0	8.9	
17	1		1.067								
18	1		1.000								
19			0.901		81	609	35	263	1.3	9.8	
20	1		0.943		22	173	28	220	1.0	7.9	
21	1		0.929		21	163	23	178	0.9	7.0	
22	2		0.902		67	505	96	723	2.1	15.8	
23	1		0.912		42	320	44	335	1.4	10.7	
24	35		0.936								
25	345		0.892								
26	1		0.887		44	326	28	207	1.0	7.4	
27	24	0.09	0.895		58	433	72	538	1.6	12.0	
28	3		0.902		26	196	32	241	1.1	8.3	
29	1		0.874		51	372	60	438	1.5	10.9	
30	34	0.06	0.893		28	209	48	358	1.4	10.4	
31	24	0.05	0.903								
TOT		2.42	29.997			6663		7325		217.7	
AVG			0.968		40	317	41	333	1.3	10.4	34
MIN			0.830		21	163	23	178	0.9	7.0	
MAX			1.557		81	609	96	723	2.1	27.3	

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

FEBRUARY 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID 460150 02 2006 500
PLANT# MO YR SPC

D A Y	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l	REMARK
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004		
1	34	0.25	0.996		30	249	35	291	0.90	7.5		
2	34	0.08	0.983		49	402	63	517	1.2	9.8		
3	3		1.027									
4	3		1.215									
5	345	0.41	1.059		74	654	126	1114	2.0	17.7		
6	1		1.062		34	302	40	355	0.88	7.8		
7	1		0.975		28	228	40	326	0.78	6.4		
8	35		0.944		29	229	38	300	0.82	6.5		
9	25	0.05	0.896		24	180	30	224	0.81	6.1		
10	3		0.951									
11	25	0.06	0.903									
12	1		0.834				76	529	1.6	11.1		
13	1		0.869				42	305	1.0	7.3		
14	2		0.858		31	222	32	229	0.86	6.2		
15	34	0.60	0.969		57	461	35	283	1.0	8.1		
16	34	1.00	1.512		37	467	39	492	1.1	13.9		
17	1		1.518									
18	1		1.150									
19	1		1.019		51	434	31	264	1.2	10.2		
20	1		0.959		38	304	33	264	1.1	8.8		
21			0.979		35	286	25	204	1.9	15.5		
22	2		0.988		39	322	31	256	1.1	9.1		
23	1		0.979		32	262	27	221	1.1	9.0		
24	1		1.049									
25	1		0.939									
26	3		0.880		70	514	47	345	1.1	8.1		
27	25		0.914		37	282	36	275	1.5	11.4		
28	1		0.863		41	295	26	187	1.2	8.6		
29												
30												
31												
TOT		2.45	28.29			6094		6982		189.0		
AVG			1.010		41	339	43	349	1.2	9.5		
MIN			0.834		24	180	25	187	0.78	6.1		
MAX			1.518		74	654	126	1114	2	17.7		

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JANUARY 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID 460150 01 2006 500
PLANT# MO YR SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l	REMARK:
PN SF	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004		
1	34	0.07	0.890		31	230	47	349	1.4	10.4		
2	34	0.20	1.001		29	242	47	393	1.2	10.0		
3	34	0.05	0.974		43	350	70	569	1.2	9.8		
4	34	0.02	0.932		39	304	33	257	0.8	6.2		
5	3		0.881		33	243	34	250	0.82	6.0		
6	3		0.856									
7	3		0.836									
8	2		0.832		89	618	74	514	3.6	25.0		
9	2		0.816		26	177	31	211	1.0	6.7		
10	34	0.15	0.816		45	307	42	286	1.1	7.5		
11	2		0.833		38	264	30	209	0.9	6.3		
12	3		0.832		54	375	61	424	1.0	6.9		
13	345	0.91	1.195									
14	1		1.050									
15	1		0.865		63	455	59	426	1.5	10.8		
16	24	0.06	0.902		36	271	36	271	0.86	6.5		
17	345	0.59	1.070		36	322	35	313	2.5	22.3		
18	3		0.972		30	243	29	235	0.8	6.3		
19	2		0.979		44	360	36	294	0.91	7.4		
20	34	0.47	1.183									
21			1.093									
22	1		0.947		43	340	51	403	1.2	9.5		
23	2		0.985				50	411	6.9	56.8		
24	25		0.911		87	662	87	662	0.86	6.5		
25	3		0.889		60	445	57	423	2.3	17.1		
26	1		0.850		77	547	77	547	1.8	12.8		
27	3		0.958									
28	34	1.00	1.015									
29	34	0.10	1.297		62	671	71	769	1.8	19.5		
30	24		1.099		63	578	64	587	1.5	13.8		
31	2		1.012		48	406	70	592	1.5	12.7		
TOT		3.62	29.771		1076	8410		9396		296.9		
AVG			0.960		49	382	52	409	1.6	12.9		
MIN			0.816		26	177	29	209	0.78	6.0		
MAX			1.297		89	671	87	769	6.9	56.8		

PLANT INFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JANUARY 2006

* Weather Codes
1 Clear
2 Partly Cloudy
3 Cloudy
4 Rain
5 Snow
6 Windy

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	01	2006	500
	PLANT#	MO	YR	SPC

DAY	WEATHER TYPE *CODE	PRECIP INCHES	FLOW MGD	PH SU	BOD 5 mg/l	BOD 5 LBS.	SS mg/l	SS LBS.	TOT - P mg/l	TOT - P LBS.	SVS mg/l
PN	OOO33	OOO45	50050	OO400	OO310	85001	OO530	85002	665	85004	
SF											
1	3		1.118		64	597	34	317	1.9	17.7	
2	2		1.000		74	618	73	610	1.7	14.2	
3	2		0.971		99	803	121	981	3.1	25.1	
4	34	0.9	1.158		45	435	37	358	1.2	11.6	
5	34	0.17	1.284								
6	2		1.125								
7	35	0.28	1.086		56	508	49	444	1.6	14.5	
8	2		1.036		48	415	42	363	1.3	11.2	
9	35		0.982		32	262	28	230	1.0	8.2	
10	2		0.880		28	206	32	235	1.0	7.3	
11	34	0.03	0.922		42	323	46	354	1.2	9.2	
12	34	0.25	0.951								
13	34	0.12	0.972								
14	34	1.07	1.116		80	745	68	634	1.9	17.7	
15	2		1.373		52	596	31	355	1.6	18.3	
16	2		1.080		41	370	50	451	1.2	10.8	
17			0.972		39	317	34	276	1.1	8.9	
18	35		0.982		26	213	24	197	1.2	9.8	
19	2		1.043								
20	3		0.839								
21	35	0.07	0.887		27	200	28	207	1.1	8.1	
22	3		0.857		56	401	64	458	1.8	12.9	
23	35	0.04	0.874		39	285	32	234	1.1	8.0	
24	2		0.862		48	345	37	266	1.4	10.1	
25			0.798		56	373	88	586	2.3	15.3	
26			0.880								
27	5		0.809								
28	25	0.17	0.868		42	304	47	341	1.6	11.6	
29	35	0.07	0.803		44	295	28	188	1.2	8.0	
30	3		0.805		39	262	28	188	1.1	7.4	
31	3		0.791		58	383	30	198	1.0	6.6	
TOT		3.17	30.124		1135	9257		8471		272.9	
AVG			0.972		49	402	46	368	1.5	11.9	
MIN			0.798		26	200	24	188	1.0	7.3	
MAX			1.373		99	803	121	981	3.1	25.1	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

DECEMBER 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150 PLANT#	12 MO	2006 YR	269 SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	1.653									88	7.4	10.4		
2	0.976													
3	0.957	24	3	0	<2			3.5	0.44					
4	0.868	22	3	0	<2	0.4	0.05	3.3	0.46	<10	7.4	10.2		
5	0.844	21	3	0	<2	0.0	<.05	4.2	0.59	<20	7.5	9.5		
6	0.810	20	3	7	1	0.0	<.05	3.1	0.46	<10	7.4	9.0		
7	0.754	25	4	0	<2	0.0	<.05	3.5	0.56	<10	7.5	9.4		
8	0.765									<10	7.6	9.9		
9	0.778													
10	0.779	19	3	0	<2	0.0	<.05	4.3	0.66					
11	0.785	20	3	7	1	0.0	<.05	4.5	0.69	<10	7.5	9.7		
12	1.033	34	4	9	1	1.0	0.12	5.8	0.67	<10	7.5	9.5		
13	0.905	23	3	8	1	0.0	<.05	4.3	0.57	<10	7.4	9.4		
14	0.913	23	3	8	1	0.5	0.06	4.7	0.62	<10	7.3	9.0		
15	0.888									<20	7.4	8.9		
16	0.847													
17	0.818	27	4	0	<2	0.3	0.05	4.7	0.69					
18	0.760	13	2	0	<2	0.5	0.08	4.5	0.71	<10	7.6	9.2		
19	0.757	13	2	0	<2	0.5	0.08	4.4	0.69	<10	7.5	9.5		
20	0.762	25	4	6	1	0.4	0.07	3.7	0.58	<10	7.5	9.1		
21	0.910	30	4							<10	7.4	9.5		
22	0.862	22	3	22	3			5.9	0.82	<10	7.3	9.5		
23	0.937													
24	0.796			0	<2						7.3	9.4		
25	0.921	61	8	8		0.0	<.05				7.4	9.3		
26	0.918	15	2	8		0.0	<.05	5.3	0.69	<10	7.5	9.4		
27	0.843	7	1	0	<2			6.0	0.86	<10	7.7	9.4		
28	0.816	20	3	0	<2	0.0	<.05	3.9	0.58	<10	7.5	9.8		
29	0.800									<10	7.4	9.5		
30	0.837													
31	1.223	41	4	0	<2	0.0	<.05		0.63	<10				
TOT	27.515													
AVG	0.888	24	3	4	1	0.2	0.07	4.4	0.63	11	7.5	9.5	98	94
MIN	0.754	7	1	0	1	0.0	0.05	3.1	0.44	88	7.3	8.9		
MAX	1.653	61	8	22	3	1.0	0.12	6.0	0.86	88	7.7	10.4		
7 DAY MAX		29	4	8	1	0.4	0.07							

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

NOVEMBER 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	11	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM
PN	310	85001	530	85002	650	85004							
SF													
1	0.637	21	4	0	<2	0.7	0.13	3.3	0.63	11	7.5	8.2	
2	0.649	49	9	0	<2	0.5	0.10	4.0	0.73	13	7.3	8.6	
3	0.652									14	7.4	7.9	
4	0.650												
5	0.671	73	13	11	2	0.6	0.11	5.3	0.95				
6	0.669	56	10	6	1	0.4	0.08	4.6	0.82	35	7.4	8.2	
7	0.748	75	12	12	2	0.6	0.09	8.1	1.30	<20	7.6	7.5	
8	0.691	58	10	6	1	0.4	0.07	4.4	0.77	<20	7.5	8.2	
9	0.672	62	11	0	<2	0.4	0.07	4.5	0.80	20	7.4	9.2	
10	0.677									21	7.4	8.5	
11	0.781												
12	0.713	54	9	6	1	0.4	0.07	5.1	0.85				
13	0.708	53	9	12	2	0.7	0.12	4.2	0.71	49	7.5	8.7	
14	0.730	49	8	6	1	0.0	<.05	3.8	0.63	24	7.4	8.2	
15	0.714	30	5	6	1	1.5	0.26	4.0	0.68	24	7.6	8.6	
16	0.952	56	7	16	2	0.4	0.05	5.5	0.69	<20	7.3	8.5	
17	0.868									24	7.5	9.1	
18	0.814												
19	0.738	43	7	0	<2	0.5	0.08	4.1	0.67				
20	0.713	30	5	0	<2	0.3	0.05	4.1	0.69	62	7.4	9.2	
21	0.741	37	6	0	<2	0.0	<.05	4.3	0.69	49	7.5	9.3	
22	0.736	25	4	0	<2	0.0	<.05	4.0	0.65	26	7.5	8.9	
23	0.724	6	1			0.0	<.05	4.7	0.78	<20	7.5	9.3	
24	0.706									<10	7.5	9.2	
25	0.733												
26	0.675	23	4	0	<2	1.1	0.20	4.3	0.77				
27	0.728	18	3			0.4	0.07	4.3	0.70	<20	7.4	8.5	
28	0.716	18	3	0	<2	0.4	0.06	4.1	0.69	<20	7.4	9.0	
29	0.752	13	2	13	2	0.3	0.05	4.6	0.74	<20	7.4	8.7	
30	1.123	103	11	0	<2	1.8	0.19	8.4	0.90	<20	7.4	8.4	
31													
TOT	22.081												
AVG	0.736	43	7	5	2	0.5	0.10	4.7	0.77	11	7.4	8.6	97
MIN	0.637	6	1	0	1	0.0	0.05	3.3	0.63	11	7.3	7.5	
MAX	1.123	103	13	16	2	1.8	0.26	8.4	1.30	62	7.6	9.3	
7 DAY MAX		65	11	9	2	0.8	0.11						

S . OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

OCTOBER 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	10	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW	SS	SS	CBOD	CBOD	NH4	NH4	PHOS.	PHOS.	FECAL	pH	OXYGEN DO	CBOD % REM	SS % REM
	MGD	LBS.	mg/l	LBS.	mg/l	LBS.	mg/l	LBS	mg/l	CT/100	SU	mg/l		
PN	310	85001	530	85002	650	85004								
SF														
1	0.715	24	4	0	<2	0.4	0.06	4.1	0.69					
2	0.747	31	5			0.4	0.07	3.6	0.57	<10	7.4	7.3		
3	0.694	17	3	6	1	0.3	0.05	3.6	0.62	<10	7.4	7.3		
4	0.813	27	4	0	<2	0.5	0.07	4.9	0.73	<10	7.4	7.3		
5	0.729	30	5	0	<2	0.4	0.07	4.8	0.79	<10	7.5	7.9		
6	0.710									13	7.4	8.0		
7	0.641													
8	0.661	22	4	0	<2	0.0	<.05	4.3	0.78					
9	0.687	17	3	6	1	0.3	0.06	5.0	0.87	14	7.5	7.8		
10	0.690	29	5	0	<2	0.4	0.07	5.1	0.88	<10	7.4	7.5		
11	0.697	23	4	0	<2	0.6	0.10	5.6	0.97	11	7.6	7.5		
12	0.687	57	10	0	<2	0.3	0.06	5.3	0.93	<10	7.5	8.2		
13	0.731									13	7.5	8.5		
14	0.714													
15	0.689	40	7	0	<2	0.5	0.08	5.8	1.01					
16	0.732	43	7	0	<2	0.4	0.06	5.3	0.87	21	7.4	7.9		
17	0.892	52	7	0	<2	0.5	0.07	4.7	0.63	50	7.4	8.2		
18	0.730	43	7	6	1	0.4	0.07	3.4	0.56	15	7.5	8.0		
19	0.705	35	6	6	1	1.2	0.20	3.6	0.62	20	7.6	7.8		
20	0.686									13	7.5	7.7		
21	0.708													
22	0.646	48	9	0	<2	0.6	0.12	5.0	0.92					
23	0.664	44	8	0	<2	0.5	0.09	5.5	0.99	31	7.4	8.0		
24	0.661	61	11	0	<2	0.6	0.11	4.8	0.87	<10	7.5	8.3		
25	0.610	36	7	5	1	0.3	0.05	5.0	0.98	10	7.4	8.4		
26	0.657	44	8	0	<2	0.8	0.15	5.6	1.03	11	7.5	8.1		
27	0.852									12	7.5	8.2		
28	0.822													
29	0.713	42	7	0	<2	0.4	0.07	3.6	0.61					
30	0.709	59	10	12	2	0.7	0.11	3.6	0.61	19	7.2	8.3		
31	0.675	45	8	0	<2	0.6	0.11	3.0	0.54	<10	7.4	8.0		
TOT	22.067													
AVG	0.712	38	6	2	1	0.5	0.09	4.6	0.79	11	7.5	7.9		
MIN	0.610	17	3	0	1	0.0	<.05	3.0	0.54	10	7.2	7.3		
MAX	0.892	61	11	12	2	1.2	0.20	5.8	1.03	50	7.6	8.5		
7 DAY MAX		47	9	2	2	0.6	0.10							

FINAL EFFLUENT SHEET

ST OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

SEPT. 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	9	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW	SS	SS	CBOD	CBOD	NH4	NH4	PHOS.	PHOS.	FECAL	pH	OXYGEN DO	CBOD % REM
	MGD	LBS.	mg/l	LBS.	mg/l	LBS.	mg/l	LBS	mg/l	CT/100	SU	mg/l	
PN	310	85001	530	85002	650	85004							
SF													
1	0.754	19	3	19	3	0.3	0.05	4.8	0.77	<10	7.3	7.8	
2	0.781												
3	0.770												
4	0.737	12	2			0.5	0.08	4.8	0.78				
5	0.686	11	2	6	1	0.0	<.05	4.2	0.74	15	7.4	7.5	
6	0.672	6	1	0	<2	0.0	<.05	5.0	0.90	<10	7.3	7.3	
7	0.663	6	1			0.0	<.05	4.1	0.74	<10	7.5	7.4	
8	0.727									<10	7.4	7.8	
9	0.688												
10	0.701	18	3	0	>2	0.5	0.08	5.7	0.98				
11	0.661	6	1	0	<2	0.3	0.05	5.0	0.90	<10	7.4	7.7	
12	0.678	11	2	0	<2	0.0	<.05	5.1	0.91	<10	7.3	7.7	
13	0.667	11	2	0	<2	0.0	<.05	4.7	0.85	<10	7.4.	7.7	
14	0.707	12	2			0.0	<.05	6.3	1.07	<10	7.4	7.7	
15	0.730									<10	7.4	7.5	
16	0.734												
17	0.711	12	2	0	<2	11.0	1.86	2.7	0.45				
18	0.740	12	2	0	<2	2.1	0.34	5.4	0.88	<10		7.4	
19	0.694	12	2	12	2	0.3	0.06	4.6	0.79	<10	7.4	8.2	
20	0.695	17	3	0	<2	0.3	0.06	4.6	0.79	<10	7.5	7.7	
21	0.645	32	6	11	2	0.3	0.06	4.6	0.85	<10	7.4	8.0	
22	0.646									<10	7.5	8.2	
23	0.702												
24	0.647	22	4	0	<2	0.4	0.07	3.9	0.73				
25	0.625	16	3	0	<2	0.6	0.11	3.9	0.74	<10	7.4	7.3	
26	0.634	16	3	0	<2	0.0	<.05	3.5	0.66	<20	7.4	7.9	
27	0.654	16	3	0	<2	0.3	0.06	3.6	0.66	<10	7.4	7.7	
28	0.664	22	4	0	<2	0.8	0.14	3.7	0.66	<10	7.5	7.8	
29	0.671									<10	7.4	7.4	
30	0.652												
31													
TOT	20.736												
AVG	0.691	14	3	3	<2	0.9	0.23	4.5	0.79		7.4	7.7	
MIN	0.625	6	1	0	1	0.0	<.05	2.7	0.45		7.3	7.3	
MAX	0.781	32	6	19	3	11.0	1.86	6.3	1.07		7.5	8.2	
7 DAY MAX		18	3	4	2	2.8	0.48						

FINAL EFFLUENT SHEET

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

AUGUST 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	08	2006	269	
	PLANT#	MO	YR	SPC	

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	0.769	6	1	0	<2	0.5	0.08	4.7	0.74	<10	7.4	7.1		
2	0.739	6	1	0	<2	0.0	<.05	4.7	0.76	<10	7.4	7.8		
3	0.760	6	1	0	<2	0.6	0.10	4.7	0.74	<10	7.4	7.2		
4	0.813									<10	7.5	7.8		
5	0.792													
6	0.820	7	1	0	<2	1.6	0.23	10.1	1.48					
7	0.808	7	1			0.8	0.12	5.5	0.81	<10	7.5	7.7		
8	0.786	3	0.4	0	<2	0.4	0.06	4.3	0.66	<10	7.4	7.4		
9	0.737	12	2	0	<2	0.7	0.12	4.1	0.66	<10	7.4	7.8		
10	0.772	13	2	0	<2	1.2	0.19	6.4		<40	7.4	7.4		
11	0.858									<40	7.5	7.2		
12	0.915													
13	0.856	14	2			3.4	0.48	5.3	0.74					
14	0.764	13	2			0.7	0.11	4.8	0.75	<10	7.4	7.1		
15	0.662	11	2	0	<2	0.4	0.07	3.8	0.68	<10	7.5	7.7		
16	0.636	11	2	0	<2	0.3	0.06	3.3	0.63	<20	7.4	7.8		
17	0.647	11	2	0	<2	0.3	0.06	3.4	0.63	<10	7.4	8.4		
18	0.739									<10	7.4	7.9		
19	0.769													
20	0.691	12	2	0	<2	0.3	0.06	4.6	0.79					
21	0.649	11	2	0	<2	0.0	<.05	3.5	0.65	<10	7.5	7.8		
22	0.657	11	2	0	<2	0.4	0.07	3.7	0.68	<10	7.4	7.7		
23	0.619	10	2	10	2	0.3	0.05	3.5	0.68	<10	7.4	7.7		
24	0.693	12	2	0	<2	0.3	0.05	4.2	0.73	18	7.5	8.4		
25	0.707									<10	7.5	7.6		
26	0.700													
27	0.791	13	2			0.8	0.12	4.5	0.68					
28	0.773	6	1			0.0	<.05	4.5	0.70	<10	7.4	7.7		
29	0.762	6	1	6	1	0.4	0.06	4.2	0.66	<10	7.5	7.7		
30	0.693	6	1	0	<2	0.0	<.05	3.7	0.64	<10	7.4	7.8		
31	0.682	17	3	0	<2	0.0	<.05	4.0	0.7	<10	7.3	7.9		
TOT	23.059													
AVG	0.744	10	2	1	<2	0.6	0.12	4.6	0.74		7.4	7.7		
MIN	0.619	3	0.4	0	1	0.0	<.05	3.3	0.63		7.3	7.1		
MAX	0.915	17	3	10	2	3.4	0.48	10.1	1.48		7.5	8.4		
7 DAY MAX		12	2	2	2	1.0	0.16							

ATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JULY 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150 PLANT#	07 MO	2006 YR	269 SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	0.984													
2	0.973	16	2			4.0	0.49	5.9	0.73					
3	1.282	32	3	11	1	11.1	1.04	8.1	0.76	<20	7.3	7.6		
4	0.988	25	3	8	1	25.2	3.06	6.9	0.84	<10	7.5	7.1		
5	0.871	15	2	0	<2	3.6	0.49	4.5	0.62	<10	7.4	7.2		
6	0.870	15	2	0	<2			2.8	0.38	24	7.5	7.6		
7	0.862									<10	7.5	7.7		
8	0.984													
9	0.835	21	3	7		0.6	0.09	4.2	0.60					
10	0.812	14	2	7	1	0.6	0.09	4.8	0.71	17	7.3	7.5		
11	0.793	13	2	0	<2	0.5	0.07	4.8	0.72	<10	7.4	7.6		
12	0.803	13	2	0	<2	0.5	0.07	7.2	1.08	<10	7.4	7.8		
13	0.840	14	2	7	1	0.4	0.06	8.4	1.20	<10	7.3	7.6		
14	0.941									<10	7.4	7.6		
15	0.841													
16	0.945	16	2	8	1	0.7	0.09	6.2	0.79					
17	0.768	26	4	0	<2	0.8	0.13	4.6	0.72	<10	7.3	7.4		
18	0.887	22	3	7	1	1.2	0.16	5.8	0.78	<10	7.5	7.3		
19	0.828	14	2	0	<2	0.8	0.11	5.2	0.75	<10	7.3	7.6		
20	0.818	14	2	0	<2	0.0	<.05	5.7	0.83	<10	7.4	7.3		
21	0.897									<10	7.5	7.6		
22	0.859													
23	0.817	20	3	7	1	6.4	0.94	5.2	0.76					
24	0.809	7	1	0	<2	2.0	0.29	4.9	0.73	<10	7.4	7.3		
25	0.823	7	1	0	<2	0.8	0.11	4.5	0.65	<10	7.4	7.3		
26	0.809	13	2	0	<2	0.4	0.06	4.5	0.67	<10	7.5	7.8		
27	0.875	7	1	0	<2	0.4	0.06	5.3	0.72	<10	7.4	7.5		
28	0.806									<10	7.3	7.7		
29	0.899													
30	0.794	7	1	0	<2	0.5	0.07	5.0	0.76					
31	0.813	7	1	20	3	0.0	<.05	4.9	0.72	11	7.5	7.6		
TOT	27.126													
AVG	0.875	15	2	4	1	2.9	0.39	5.4	0.75		7.4	7.5		
MIN	0.768	7	1	0	1	0.0	0.06	2.8	0.38		7.3	7.1		
MAX	1.282	32	4	20	3	25.2	3.06	8.4	1.20		7.5	7.8		
7 DAY MAX		21	3	5		11.0								

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JUNE 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	06	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	0.909	53	7	0	<2	0.9	0.12	4.8	0.63	<10	7.4	7.5		
2	0.956									<20	7.5	7.8		
3	0.989													
4	0.872	29	4	0	<2	0.5	0.07	9.7	1.34					
5	0.860	29	4	0	<2	0.5	0.07	7.8	1.09	<10	7.4	8.0		
6	0.850	21	3	7	1	0.4	0.05	6.5	0.91	<10	7.5	8.3		
7	0.938	31	4	8	1	0.4	0.05	6.8	0.87	<10	7.3	7.9		
8	0.879	22	3	0	<2	0.0	<.05	6.2	0.85	<10	7.4	7.9		
9	0.968									<10	7.5	8.1		
10	0.946													
11	0.821	27	4	7	1	0.5	0.08	5.5	0.80					
12	0.870	36	5	7	1	0.4	0.06	4.6	0.64	<10	7.4	7.7		
13	0.818	20	3	7	1	0.3	0.05	4.0	0.58	<10	7.3	7.8		
14	0.845	21	3	0	<2	0.4	0.06	4.4	0.63	<10	7.3	7.5		
15	0.848	21	3	7	1	0.4	0.06	4.7	0.66	<10	7.3	7.5		
16	0.947									<10	7.4	8.2		
17	0.911													
18	0.926	31	4	8	1	1.9	0.24	6.0	0.78					
19	0.878	15	2	7	1	0.5	0.07	5.2	0.71	12	7.3	7.4		
20	0.824	27	4	0	<2	0.6	0.09	4.9	0.71	<10	7.4	7.7		
21	0.997	33	4	0	<2	0.8	0.10	6.4	0.77	<10	7.4	7.9		
22	0.911	23	3	8	1	0.7	0.09	4.6	0.60	<10	7.3	7.9		
23	0.857									<10	7.2	7.6		
24	0.824													
25	0.864	14	2	14	2	1.0	0.14	5.3	0.73					
26	0.777	13	2	0	<2	0.5	0.07	3.7	0.57	23	7.3	7.8		
27	0.812	27	4	0	<2	0.6	0.09	4.0	0.59	23	7.3	8.1		
28	0.782	20	3	7	1	0.5	0.07	4.2	0.64	<10	7.4	8.0		
29	0.827	14	2	0	<2	0.5	0.07	4.8	0.69	<10	7.3	8.3		
30	0.887									<10	7.4	8.3		
31														
TOT	26.393													
AVG	0.880	25	3	4	1	0.6	0.09	5.4	0.75		7.4	7.9		
MIN	0.777	13	2	0	1	0.0	0.05	3.7	0.57		7.2	7.4		
MAX	0.997	53	7	14	2	1.9	0.24	9.7	1.34		7.5	8.3		
7 DAY MAX		26	4	5	1	0.9	0.12							

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

MAY 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	05	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW	SS	SS	CBOD	CBOD	NH4	NH4	PHOS.	PHOS.	FECAL	pH	OXYGEN DO	CBOD % REM	SS % REM
	MGD	LBS.	mg/l	LBS.	mg/l	LBS.	mg/l	LBS	mg/l	CT/100	SU	mg/l		
PN	310	85001	530	85002	650	85004								
SF														
1	0.861	36	5	7	1	0.9	0.12	4.6	0.64	<10	7.4	9.2		
2	0.954	40	5	8	1	0.0	<.05	4.1	0.52	19	7.6	8.9		
3	0.889	37	5	7	<2	0.5	0.07	4.2	0.57	10	7.5	9.1		
4	0.869	36	5	7	1	0.4	0.06	4.0	0.55	16	7.4	8.8		
5	0.898									<10	7.5	9.1		
6	0.912													
7	0.868	36	5	0	<2	0.5	0.07	5.1	0.71					
8	0.906	38	5	8	1	0.4	0.05	5.2	0.69	<10	7.5	8.7		
9	0.883	59	8	0	<2	5.0	0.68	4.8	0.65	16	7.3	8.9		
10	1.079	63	7	18	2	0.8	0.09	5.0	0.56	<10	7.5	9.4		
11	1.113	46	5	0	<2	0.6	0.06	6.0	0.65	11	7.4	8.4		
12	1.084									47	7.4	8.6		
13	1.078													
14	1.033	69	8	9	1			5.6	0.65				LOST NH4	
15	1.145	67	7	0	<2	0.0	<.05	6.0	0.63	11	7.3	8.6	SAMPLE	
16	1.123	75	8	9	1	0.7	0.08	7.7	0.82	19	7.4	8.4		
17	1.011	67	8	17	2	0.0	<.05	5.3	0.63	23	7.4	8.4		
18	1.033	52	6	0	<2	0.5	0.06	6.0	0.70	<10	7.5	8.4		
19	1.080									<10	7.6	8.6		
20	0.908													
21	1.002	42	5	0	<2	0.9	0.11	6.0	0.72					
22	0.913	30	4	15	2	0.8	0.11	6.5	0.86	<10	7.5	8.6		
23	0.910	38	5	0	<2	0.8	0.11	5.5	0.72	<10	7.4	8.6		
24	0.904	8	1			0.4	0.05	5.5	0.73	<10	7.5	8.5	CBOD ERROR	
25	0.965	40	5	24	3	1.0	0.12	5.1	0.63	<10	7.6	7.7		
26	1.024									17	7.6	8.1		
27	1.075													
28	1.115	37	4			1.4	0.15	5.8	0.62					
29	0.966	48	6	16	2	1.6	0.20	5.6	0.69		7.5	7.7	CBOD,FECAL	
30	0.925	31	4	0	<2	0.8	0.11	4.6	0.60	15	7.5	7.2	NO SAMPLE	
31	0.963	32	4	0	<2	0.9	0.11	4.7	0.58	<10	7.5	7.4		
TOT	30.489													
AVG	0.984	45	5	7	1	0.9	0.13	5.3	0.66	11	7.5	8.5		
MIN	0.861	8	1	0	1	0.0	0.05	4.0	0.52	10	7.3	7.2		
MAX	1.145	75	8	24	3	5.0	0.68	7.7	0.86	47	7.6	9.4		
7 DAY MAX		66	7	7		1.5	0.19							

STATE MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

APRIL 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150 PLANT#	04 MO	2006 YR	269 SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	0.866													
2	0.923	69	9	8	1	0.5	0.07	5.5	0.72				98	80
3	0.948	40	5	16	2	0.4	0.05	4.8	0.61	<10	7.6	8.9	93	87
4	0.909	30	4	8	1	0.4	0.05	4.3	0.57	<10	7.5	9.3	96	86
5	0.886	30	4	15	2	0.6	0.08	3.8	0.52	<10	7.5	9.3	92	83
6	0.906	53	7	8	1	0.5	0.06	4.5	0.59	<10	7.6	9.3	98	88
7	0.970									<10	7.7	8.8		
8	0.923													
9	0.855	50	7	14	2	0.9	0.12	5.3	0.75				96	89
10	0.885	66	9	7	1	0.4	0.06	4.4	0.60	<10	7.5	9.1	97	84
11	0.904	75	10	8	1	0.6	0.08	5.4	0.72	<10	7.4	8.5	95	67
12	0.970	57	7	16	2	0.6	0.08	5.6	0.69	<10	7.4	9.5	95	87
13	0.947	39	5	16	2	0.6	0.08	4.6	0.58	17	7.3	9.5	96	93
14	0.974									15	7.4	9.2		
15	0.885													
16	0.935	47	6	8	1	0.8	0.1	3.9	0.5				98	85
17	0.902	38	5	0	<2			5.6	0.74	13	7.3	8.9	100	95
18	0.874	58	8	7	1	0.0	<.05	4.7	0.64	11	7.4	9.0	97	72
19	0.869	51	7	0	<2	0.6	0.08	4.3	0.59	<10	7.4	9.0	100	76
20	0.870	36	5	7	1	0.4	0.05	4.0	0.55	<10	7.4	9.1	96	84
21	0.863									<10	7.4	8.9		
22	0.891													
23	0.917	46	6	0	<2	0.5	0.07	4.0	0.52				100	95
24	0.907	38	5	0	<2	0.7	0.09	3.9	0.51	11	7.6	9.5	100	83
25	0.847	28	4	0	<2	0.5	0.07	3.0	0.42	<10	7.3	8.8	100	89
26	0.854	28	4	0	<2	0.4	0.05	3.3	0.46	<10	7.5	9.1	100	93
27	0.844	35	5	0	<2	0.4	0.05	2.9	0.41	<10	7.4	9.0	100	89
28	0.815									<10	7.5	9.0		
29	0.828													
30	0.877	37	5	0	<2	0.4	0.05	4.0	0.55					92
31														
TOT	26.844													
AVG	0.895	45	6	7	1	0.5	0.07	4.4	0.58	11	7.5	9.1	97	86
MIN	0.815	28	4	0	1	0.0	0.05	2.9	0.41	11	7.3	8.5		
MAX	0.974	75	10	16	2	0.9	0.12	5.6	0.75	17	7.7	9.5		
7 DAY MAX		57	8	12	2	0.6	0.08							

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

MARCH 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	03	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	0.855	36	5	7	1	0.4	0.05	5.6	0.78	23	7.5	9.5	97	86
2	0.852	57	8	7	1	0.4	0.05	5.3	0.75	23	7.4	9.5	97	72
3	0.830									11	7.4	9.8		
4	0.841													
5	0.841	56	8	14	2	0.4	0.05	4.6	0.66				97	83
6	0.838	42	6	0	<2	0.0	<.05	4.8	0.68	21	7.4	9.7	100	86
7	0.842	42	6	0	<2	0.4	0.05	4.7	0.67	10	7.5	9.7	100	78
8	0.873	44	6	0	<2	0.4	0.05	4.9	0.67	<10	7.4	9.8	100	83
9	1.038	69	8	0	<2	0.4	0.05	5.5	0.64	11	7.3	9.4	100	79
10	1.126									<10	7.3	8.7		
11	1.114													
12	1.149	57	6			1.8	0.19	9.0	0.94					90
13	1.557	104	8	0	<2	0.9	0.07	8.2	0.63	<10	7.3	8.7	100	82
14	1.236	72	7	10	1	0.6	0.06	5.3	0.51	<10	7.5	9.3	96	76
15	1.106	37	4	0	<2	0.6	0.06	4.6	0.50	<10	7.6	9.8	100	87
16	1.063	44	5	0	<2	0.9	0.10	4.4	0.50	<10	7.4	9.7	100	80
17	1.067									<10	7.6	9.8		
18	1.000													
19	0.901	30	4	0	<2	0.5	0.06	4.7	0.62				100	89
20	0.943	31	4	0	<2	0.0	<.05	7.2	0.91	<10	7.5	10	100	86
21	0.929	46	6	23	3	0.4	0.05	6.6	0.85	<10	7.6	9.8	86	74
22	0.902	45	6	0	<2	0.5	0.06	4.5	0.60	<10	7.5	10.5	100	94
23	0.912	30	4	15	2	0.5	0.07	5.2	0.68	<10	7.4	10.1	95	91
24	0.936									<10	7.4	10.4		
25	0.892													
26	0.887	44	6	0	<2	0.7	0.09	4.8	0.65				100	79
27	0.895	45	6	0	<2	0.6	0.08	4.0	0.54	<10	7.4	9.9	100	92
28	0.902	38	5	15	2	0.5	0.06	4.2	0.56	<10	7.5	9.8	92	84
29	0.874	22	3	0	<2	0.4	0.06	4.1	0.56	<10	7.5	9.6	100	95
30	0.893	22	3	0	<2	0.4	0.05	4.3	0.58	<10	7.3	9.9	100	94
31	0.903									<10	7.5	9.1		
TOT	29.997													
AVG	0.968	46	6	4	2	0.5	0.07	5.3	0.66	11	7.4	9.7	98	84.47
MIN	0.830	22	3	0	1	0.0	0.05	4.0	0.50	10	7.3	8.7	86	72
MAX	1.557	104	8	23	3	1.8	0.19	9.0	0.94	23	7.6	10.5	100	95
7 DAY MAX		63	7	9	2	1.0	0.10							

STATE MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

FEBRUARY 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	02	2006	269
	PLANT#	MO	YR	SPC

DAY	FLOW	SS	SS	CBOD	CBOD	NH4	NH4	PHOS.	PHOS.	FECAL	pH	OXYGEN DO	CBOD % REM	SS % REM
	MGD	LBS.	mg/l	LBS.	mg/l	LBS.	mg/l	LBS	mg/l	CT/100	SU	mg/l		
PN	310	85001	530	85002	650	85004								
SF														
1	0.996	42	5	17	2	0.8	0.10	3.9	0.47	<10	7.5	9.2	93	86
2	0.983	49	6	16	2	0.4	0.05	4.3	0.52	11	7.4	9.6	96	90
3	1.027									<10	7.4	9.1		
4	1.215													
5	1.059	53	6	18	2	1.1	0.13	4.5	0.51				97	95
6	1.062	44	5	9	1	0.4	0.05	4.3	0.49	12	7.4	9.6	97	88
7	0.975	49	6	0	<2	0.7	0.08	4.0	0.49	16	7.4	9.9	100	85
8	0.944	31	4	0	<2	0.4	0.05	4.2	0.53	<10	7.4	9.1	100	89
9	0.896	37	5	0	<2	0.5	0.07	4.3	0.58	<20	7.5	10.0	100	83
10	0.951									<11	7.3	9.8		
11	0.903													
12	0.834	21	3			0.0	<.05	3.8	0.54					96
13	0.869	29	4			0.6	0.08	4.2	0.58	13	7.5	9.5		90
14	0.858	43	6	0	<2	0.4	0.06	4.1	0.57	13	7.5	10.3	100	81
15	0.969	57	7	0	<2	0.0	<.05	4.7	0.58	<10	7.5	9.8	100	80
16	1.512	202	16	13	1	0.9	0.07	13.5	1.07	11	7.5	9.4	97	59
17	1.518									<20	7.3	9.9		
18	1.150													
19	1.019	68	8	0	<2	0.8	0.09	4.5	0.53				100	74
20	0.959	56	7	8	1	0.5	0.06	4.1	0.51	21	7.6	10.1	97	79
21	0.979	57	7	0	<2	0.6	0.07	4.2	0.52	15	7.5	9.2	100	72
22	0.988	49	6	0	<2	0.7	0.09	4.4	0.53	<10	7.5	9.7	100	81
23	0.979	33	4	0	<2	0.4	0.05	4.1	0.5	16	7.4	9.7	100	85
24	1.049									<10	7.5	10.1		
25	0.939													
26	0.880	51	7	0	<2	0.4	0.05	4.7	0.64				100	85
27	0.914	46	6	0	<2	0.6	0.08	5.0	0.65	31	7.4	9.9	100	83
28	0.863	94	13	7	1	0.0	<.05	6.5	0.90	15	7.4	9.8	98	50
29														
30														
31														
TOT	28.290													
AVG	1.010	56	7	5	1	0.5	0.07	4.9	0.59	11	7.4	9.7	99	82
MIN	0.834	21	3	0	<2	0.0	0.05	3.8	0.47	<10	7.3	9.1	93	50
MAX	1.518	202	16	18	2	1.1	0.13	13.5	1.07	31	7.6	10.3	100	96
7 DAY MAX		71	7	7	1	0.6	0.08			13				

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JANUARY 2006

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150	01	2006	269										
	PLANT#	MO	YR	SPC										
DAY	FLOW	SS	SS	CBOD	CBOD	NH4	NH4	PHOS.	PHOS.	FECAL	pH	OXYGEN DO	CBOD % REM	SS % REM
	MGD	LBS.	mg/l	LBS.	mg/l	LBS.	mg/l	LBS	mg/l	CT/100	SU	mg/l		
PN	310	85001	530	85002	650	85004								
SF														
1	0.890	45	6	0	<2			4.5	0.60				100	87
2	1.001	58	7	0	<2	0.8	0.09	5.4	0.65		7.3	9.5	100	85
3	0.974	65	8	0	<2	0.4	0.05	4.6	0.57	<10	7.3	9.4	100	89
4	0.932	47	6	0	<2	0.4	0.05	3.7	0.47	<20	7.5	9.2	100	82
5	0.881	29	4	0	<2	0.4	0.06	3.9	0.53	<10	7.5	9.3	100	88
6	0.856									<10	7.6	10.1		
7	0.836													
8	0.832	35	5	0	<2	0.0	<.05	4.3	0.62				100	93
9	0.816	41	6	0	<2			4.3	0.63	<10	7.5	9.3	100	81
10	0.816	41	6	7	1	0.3	0.05	4.2	0.62	<10	7.5	9.6	98	86
11	0.833	35	5	0	<2	0.3	0.05	4.1	0.59	<10	7.4	9.4	100	83
12	0.832	35	5	0	<2	0.3	0.05	4.0	0.58	<10	7.6	9.3	100	92
13	1.195					0.5	0.05			<10	7.4	9.1		
14	1.050													
15	0.865	43	6	0	<2	0.4	0.05	3.8	0.53				100	90
16	0.902	30	4			0.0	<.05	3.8	0.51	21	7.4	9.0		89
17	1.070	45	5	0	<2	0.5	0.06	4.6	0.52	<10	7.5	8.9	100	86
18	0.972	154	19	24	3	0.0	<.05	4.1	0.50	11	7.5	9.0	90	34
19	0.979	41	5	0	<2	0.4	0.05	4.4	0.54	25	7.4	9.5	100	86
20	1.183									<10	7.5	9.0		
21	1.096													
22	0.947	39	5	0	<2	0.4	0.05	4.3	0.55				100	90
23	0.985	49	6			0.4	0.05	4.8	0.59	21	7.4	9.4		88
24	0.911	46	6	0	<2	0.0	<.05	3.3	0.43	<10	7.4	9.4	100	93
25	0.889	44	6	0	<2	0.0	<.05	4.4	0.60	<10	7.4	10.0	100	89
26	0.850	64	9	0	<2	0.8	0.11	4.0	0.56	20	7.6	9.8	100	88
27	0.918									14	7.4	9.4		
28	1.015													
29	1.297	76	7	0	<2	0.5	0.05	7.5	0.69				100	90
30	1.099	55	6	0	<2	1.0	0.11	4.6	0.50	23	7.4	8.6	100	91
31	1.012	34	4	0	<2	0.5	0.06	4.1	0.48	<10	7.5	9.4	100	94
TOT			146		4									
AVG	0.959	50	6	1	2	0.4	0.06	4.4	0.56	13	7.5	9.3	99.8	86
MIN	0.816	29	4	0	1	0.0	<.05	3.3	0.43	<10	7.3	8.6		
MAX	1.297	154	19	24	3	1.0	0.11	7.5	0.69	25	7.6	10.1		
7 DAY MAX		63	8	6	2	0.5	0.06							

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

JANUARY 2007

FINAL EFFLUENT SHEET

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

SUPERINTENDENT'S SIGNATURE
JACK R. DILLON

ID	460150 PLANT#	01 MO	2007 YR	269 SPC										
DAY	FLOW MGD	SS LBS.	SS mg/l	CBOD LBS.	CBOD mg/l	NH4 LBS.	NH4 mg/l	PHOS. LBS	PHOS. mg/l	FECAL CT/100	pH SU	OXYGEN DO mg/l	CBOD % REM	SS % REM
PN	310	85001	530	85002	650	85004								
SF														
1	1.118	47	5	9	1	0.0	<.05	5.6	0.60		6.8	8.8	98	
2	1.000	25	3	0	<2	0.0	<.05	4.0	0.48	<10	7.3	9.0		
3	0.971	32	4	8	1	0.0	<.05	4.6	0.57	11	7.4	9.2	99	88
4	1.158	39	4	0	<2	0.0	<.05	5.6	0.58	<10	7.3	9.0		95
5	1.284									11	7.5	9.1		
6	1.125													
7	1.086	54	6	0	<2	0.5	0.05	5.9	0.65					
8	1.036	35	4	9	1	0.6	0.07	5.4	0.63	<10	7.4	9.2	98	
9	0.982	66	8	0	<2	0.0	<.05	5.2	0.63	<10	7.5	8.4		84
10	0.880	37	5	0	<2	0.4	0.06	5.0	0.68	<10	7.4	9.8		88
11	0.922	54	7	0	<2	0.6	0.08	4.8	0.63	<10	7.4	9.8		75
12	0.951									<10	7.5	9.8		
13	0.972													
14	1.116	56	6	0	<2	0.6	0.06	6.8	0.73					
15	1.373	46	4	23	2	0.0	<.05	6.0	0.52	22	7.3	10.2	96	
16	1.080	90	10	9	1	0.5	0.05	4.7	0.52	<10	7.3	10.3	98	85
17	0.972	49	6	0	<2	0.4	0.05	5.6	0.69	<10	7.4	10.4		81
18	0.982	66	8	0	<2	0.0	<.05	4.3	0.52	<10	7.4	10.1		84
19	1.043									<10	7.4	9.4		
20	0.839													
21	0.887	59	8	0	<2	0.6	0.08	4.7	0.63					
22	0.857	29	4	0	<2	0.5	0.07	4.6	0.65	<10	7.5	10		
23	0.874	51	7	7	1	0.7	0.10	4.9	0.67	<10	7.5	10.1	97	75
24	0.862	36	5	0	<2	0.8	0.11	5.0	0.69	<20	7.4	9.5		92
25	0.798	33	5	7	1	1.1	0.17	4.7	0.70	<10	7.4	10.3	98	84
26	0.880									<10	7.4	9.3		
27	0.809													
28	0.868	29	4	0	<2	0.7	0.09	4.6	0.63					
29	0.803	27	4	7	1	0.0	<.05	4.7	0.70	<10	7.4	10.3	98	
30	0.805	40	6	7	1	1.3	0.20	4.4	0.66	<10	7.5	10.1	97	87
31	0.791	33	5	0	<2	0.4	0.06	4.2	0.64	<10	7.5	10.1		82
TOT	30.124		128		10									
AVG	0.972	45	6	4	1	0.4	0.09	5.0	0.63	13	7.4	9.7	98	87
MIN	0.791	25	3	0	1	0.0	<.05	4.0	0.48	<10	6.8	8.4		
MAX	1.373	90	10	23	2	1.3	0.20	6.8	0.73	22	7.5	10.4		
7 DAY MAX		61	7	6	2	0.7	0.11							

SEPTAGE TESTIN

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

OCT. 2006

ID 460150 10 2006 269
PLANT# MO YR SPC

SEPTAGE

DAY	SEPTAGE gals.	BOD 5 mg/l	SOL BOD mg/l	TSS mg/l	SVS mg/l	TS % solids	TOTAL P mg/l	ORTHO P mg/l	pH	TKN mg/l	TOT ALK.	NH4 mg/l
PN SF												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	4500	1320	137	4010	2970	0.77	47.3	3.7			1060	72.9
13	2000								7.3			
14												
15												
16	5200	2820	202	12200	8600	1.47	81.3	10.4	7.3		800	76.0
17	3000	6400	130	15000	11800	1.64	71.3	5.2	7.9		1070	76.6
18	7500											
19	5000		152	12080	9000	1.44		6.9	7.3			
20	3000											
21												
22												
23	5600	7400	220	21080	15480	1.78	112.5	6.4	7.1		960	75.6
24	5000									480		
25	7000	5300	260	11360	9000	1.23	66.9	10.0	7.4		1110	115.6
26	4500			34600	21440	4.09	265.6	36.4	7.5		1730	264.0
27	6400											
28												
29												
30	6000	1213	112	3700	2720	0.51	22.5	5.1	7.2		700	43.6
31	3000									460		
TOT	67700											
AVG	4836	4076	173	14254	10126	1.77	95.3	10.5	7.4	470	1061	103.5
MIN	2000	1213	112	3700	2720	0.51	22.5	3.7	7.1		700	43.6
MAX	7500	7400	260	34600	21440	4.09	265.6	36.4	7.9		1730	264.0

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

NOVEMBER 2006

ID	460150	11	2006	269
	PLANT#	MO	YR	SPC

SEPTAGE

DAY PNSF	SEPTAGE gals.	BOD 5 mg/l	SOL BOD mg/l	TSS mg/l	SVS mg/l	TS % solids	TOTAL P mg/l	ORTHO P mg/l	pH	TKN mg/l	TOT ALK.	NH4 mg/l
1	6000	4800	315	18400	13260	1.95	22.5	7.7	6.8		870	82
2	6000	3200	126	15278	9074	1.79	21.0	10.0	7.2			82
3	6000											
4												
5												
6	6000											
7	6000	4400	355	11160	8400	1.44	99.6	14.9	6.7	460	890	
8	6000	2300	175	14440	8042	1.15	106.9	14.3	7.5		1090	
9	6000			19300	13142	2.63						
10												
11												
12												
13	6000	1380	225	5330	4274	0.74	46.5	9.8	7.1		710	
14	5700	7300	385	11658	11658	1.98	93.8		7.0	620	1000	444
15	5600											
16	5800	4800	225	14016	9720	1.79	131.3	7.5	7.1		1120	86
17												
18	4000											
19	5600											
20	5600	4100	260	11518		1.19	75.3	13.6	6.8		980	84.8
21	4800	2400	135	20754	11846	2.14	313.1	5.5	7.2	680	1780	86.6
22	5000											
23												
24	3000											
25												
26												
27	8700	4025	167	14448	10360	1.35	173.4	3.0	7.0	350	570	63.6
28	3000					2.31						
29	2500	3975	220			1.68						
30	8600	2400	138	18340	10140	1.05	40.0	12.8				
31												
TOT	115900											
AVG	5519	3757	227	14554	9992	1.71	102.1	9.9	7.0	528	1001	132.7
MIN	2500	1380	126	5330	4274	0.74	21.0	3.0	6.7		570	63.6
MAX	8700	7300	385	20754	13260	2.63	313.1	14.9	7.5		1780	444.0

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

ID	460150	12	2006	269
	PLANT#	MO	YR	SPC

SEPTAGE

DAY	SEPTAGE gals.	BOD 5 mg/l	SOL BOD mg/l	TSS mg/l	SVS mg/l	TS % solids	TOTAL P mg/l	ORTHO P mg/l	pH	TKN mg/l	TOT ALK.	TS % VOL.	NH4 mg/l
PN SF													
1													
2													
3													
4	5300	3025	68	9320	6094	1.12	70.2	10.7	7.0		990	60	58
5	5600	2700	>365	7730	3063	0.92	47.3	11.6	6.8		740	72	58
6	5600												
7	5800	2900	335	9878	6644	1.61	88.9	3.5	7.4		890	43	147
8	5500												
9				19300	13142	2.63							
10													
11	9000	2330	180	9742	6102	1.13	114	9.8	7.3		820	59	104.6
12	8600	4100	230	15520	9520	2.52	129.1	6.9	7.2	440	960	41	
13	5000												
14	4500	6100	170	41880	19840	4.80	356.3	8.1	7.2				84.8
15	7200												
16													
17													
18	7000	5900	>380	19556	15506	2.07	195.3	24.2	6.9			68	130
19	4700	3025	>390	9934	7976	1.24	102.3		6.9	590		77	268
20													
21	3800					0.74							
22	6000												
23													
24													
25													
26	6000	3600		31882		3.75	55.3	4.4		1800			
27	3000					2.41							
28	5000			16232	12018								
29	3000												
30													
31													
TOT	100600												
AVG	5589	3742	197	17361	9991	2.08	128.7	9.9	7.1	943	880	60	121.5
MIN	3000	2330	68	7730	3063	0.74	47.3	3.5	6.8	440	740	41	58.0
MAX	9000	6100	335	41880	19840	4.80	356.3	24.2	7.4	1800	990	77	268.0

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

ID 460150 01 2007 269
PLANT# MO YR SPC

SEPTAGE

DAY	SEPTAGE gals.	BOD 5 mg/l	SOL BOD mg/l	TSS mg/l	SVS mg/l	TS % solids	TOTAL P mg/l	ORTHO P mg/l	pH	TKN mg/l	TOT ALK.	TS % vol.	NH4 mg/l
PN													
SF													
1													
2	5000	>7300	>365	13388	8320	1.13	268.0	14.0	6.9		1770	61	107
3	1800	2200	210	7984	6042	0.68	69.7	5.4	7.1		620	68	106.6
4	4500	3300	245	12364	8724	1.40	163.1	7.5	7.1		1920	64	81.4
5	3000												
6													
7													
8	6700	2800	230	7794	5960	1.00	67.8	9.3	7.0		1270	58	61.8
9	9100	5300	600	21814	14750	2.71	264	10	7.0	840	1520	57	153.8
10	3500	2825	180	7614	3312	0.92	74.7	7.4	7.0		1030	60	68.2
11	7500												
12	8000												
13													
14													
15	2800												
16	5800												
17	6500	3225	290	6800	3188	0.65	85	9.7	6.9		870	71	76.2
18	5800	3350	230	8280	5820	1.40	45.9	6.8	7.1		800	59	76.4
19	5000												
20													
21													
22	9700												
23	9000	4500	440	23006	8136	2.49	244.8	4.4	7.1	670	1360	62	88.6
24	7300	6000	295	20308	15422	2.27	183.4	7.3	7.0		1380	68	93.0
25	6800	6400	>385	9320	7894	1.14	107.5	13.9	6.8		1190	70	124.8
26	9000												
27													
28													
29	5750	4600	375	14606	10164	1.88	148.4	5.1	6.9	120	1060	62	83.8
30	4000	1238	>233	2135		0.32	35.8	5.5	7.1			49	55.9
31													
TOT	126550												
AVG	6026	3812	310	11955	8144	1.38	135.2	8.2	7.0	543	1233	62	90.6
MIN	1800	1238	180	2135	3188	0.32	35.8	4.4	6.8		620		55.9
MAX	9700	6400	600	23006	15422	2.71	268.0	14.0	7.1		1920		153.8

SEPTAGE TESTING

SEPTAGE TESTING

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

OCT. 2006

ID 460150 10 2006 269
PLANT# MO YR SPC

SUPERNATE

DAY	BOD 5	SOL BOD	TSS	SVS	TS	TOTAL P	ORTHO P	TKN	pH	TOT ALK.	GALLONS	NH4
	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l					mg/l
PNSF												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	7	<3	18	16	0.16	0.62	0.21		7.3	148	8600	0.06
31	8	<3	15	11	0.22	0.56	0.22	3.1	6.6	150	8600	
TOT											17200	
AVG	7.5	<3	17	14	0.19	0.59	0.22	3.1	7.0	149	8600	0.06
MIN	7.0	0.0	15	11	0.16	0.56	0.21		6.6	148	8600	0.06
MAX	8.0	0.0	18	16	0.22	0.62	0.22		7.3	150	8600	0.06

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

NOV. 2006

ID 460150 10 2006 269
PLANT# MO YR SPC

SUPERNATE

DAY	BOD 5	SOL BOD	TSS	SVS	TS	TOTAL P	ORTHO P	pH	TOT ALK.	GALLONS	TKN	NH4
	mg/l	mg/l	mg/l	mg/l	%	mg/l	mg/l				mg/l	mg/l
PN SF												
1	5	2	15	11	0.14	0.66	0.38	6.5	160	8650		
2	5	<4	21	12	0.16	0.69	0.42	7.3		7930		
3										7930		
4												
5												
6	8	<3	6		0.15	0.61	0.41	7.1		4300		
7	16	4	35	6	0.15	1.30	0.49		188	5800	4.6	
8	10	3	26	18	0.18	1.00	0.56	7.9	218	4300		
9												
10												
11												
12												
13	11	<3	24	8	0.17	1.05	0.61	7.2	170	11900		
14	5	<3	8		0.11	0.96	0.36		142	3600	4.1	
15												
16	8	<3	36	28	0.19	1.20	0.72	7.2	184	11660		0.92
17												
18												
19												
20	11	<3	45			1.60	0.98	7.3	174	8100		
21	9	5	12	12	0.22	0.85	0.72	7.3	160		3.7	0.34
22												
23												
24												
25												
26												
27	12	6	19	13	0.30	1.10	0.55	7.2	132	9200	3.0	0.6
28												
29												
30												
31												
TOT										83370		
AVG	9.1	<3	22	14	0.18	1.00	0.56	7.2	170	7579		0.62
MIN	5.0	2.0	6	6	0.11	0.61	0.36	6.5	132	3600		0.34
MAX	16.0	6.0	45	28	0.30	1.60	0.98	7.9	218	11900		0.92

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEC. 2006

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

ID 460150 12 2006 269
PLANT# MO YR SPC

SUPERNATE

DAY	BOD 5	SOL BOD	TSS	SVS	TS	TOTAL P	ORTHO P	pH	TOT ALK.	GALLONS	TKN	NH4
	mg/l	mg/l	mg/l	mg/l	%	mg/l	mg/l				mg/l	mg/l
PNSF												
1												
2												
3												
4	7	<3	14	11	0.29	0.78	0.37	7.2	104	8660		0.27
5	8	<3	26		0.22	0.89	0.51	7.3	128	9700		0.27
6												
7												
8												
9												
10												
11	7	<3	20	15	0.24	0.91	0.37	7.4	134	8600		0.09
12	10	5	18	12	0.23	0.78	0.27	7.3	138	8600		0.16
13	12	7	23	16	0.23	0.36	0.26			8300		
14												
15										2400		
16												
17												
18	11	12	18	10	0.23	0.89	0.40	7.7		5400		3.09
19	10	6	13	9	0.24	0.71	0.29		200	11200		0.52
20		4	21	16	0.26	0.82	0.26			15500		0.67
21												
22												
23												
24												
25												
26	14	4	19	15		1.77	0.28			4600		
27						0.61				9700		
28	9	3	16									
29												
30												
31												
TOT										92660		
AVG	9.8	<3	19	13	0.24	0.85	0.33	7.4	141	8424		0.72
MIN	7.0	3.0	13	9	0.22	0.36	0.26	7.2	104	2400		0.09
MAX	14.0	12.0	26	16	0.29	1.77	0.51	7.7	200	15500		3.09

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

JAN. 2007

ID 460150 01 2007 269
PLANT# MO YR SPC

SUPERNATE

DAY	BOD 5	SOL BOD	TSS	SVS	TS	TOTAL P	ORTHO P	pH	TOT ALK.	GALLONS	TKN	NH4
	mg/l	mg/l	mg/l	mg/l	%	mg/l	mg/l				mg/l	mg/l
PN SF												
1												
2												
3	10	4	16	12	0.22	1.28	0.43	7.4	292	14700		0.44
4	21	4	41	29	0.21	1.16	0.55	7.1	278	1400		2.02
5												
6												
7												
8	11	6	34	23	0.19	1.06	0.44	7.3	192	4800		0.25
9	10	7	20		0.21	0.96	0.63	7.4	210	6200	1.5	0.31
10												
11	<5	<3	12	8	0.25	0.64		7.3	184	5800		0.1
12										2800		
13												
14												
15										15400		
16	36	8	94	66	0.22	2.45	1.10	7.2		37000	11.0	3.12
17												
18	9	<3	23	15	0.13	0.74	0.30	7.6	184	3000		<.05
19												
20												
21												
22	9	<3	46	30	0.22	0.98	0.61	7.2	218	1500		0.16
23												
24	9	<3	38	26	0.15	1.08	0.39	7.5	178	28500		<.05
25	10	4	20		0.20	0.68	0.60	7.4	202	6800		0.15
26												
27												
28												
29	6	<3	10	9	0.19	0.48	0.20	7.4	210	2000	2.6	<.05
30												
31												
TOT										129900		
AVG	13	<3	32	24	0.20	1.05	0.53	7.3	215	9992		0.82
MIN	<5	<3	10	8	0.13	0.48	0.20	7.1	178	1400		0.10
MAX	36	8.0	94	66	0.25	2.45	1.10	7.6	292	37000		3.12

S E OF MICHIGAN
DEPARTME F ENVIRONMENTAL QUALITY

OCT. 2006

WAS

TSS mg/l	TVSS mg/l	TS %	TS % VOL.	GAL.	ID DAY PN SF
					1
					2
					3
					4
					5
					6
					7
					8
					9
					10
		1.9	61	21650	11
				1880	12
16900	19550	2.19	62	1880	13
					14
					15
24850	15850	2.69	63	2070	16
25950	16650	2.67	63	1880	17
20200	13150			1880	18
15850	9750	1.44	67	1320	19
10550	6700	1.20	60	1130	20
					21
					22
10100	6300	1.34	62	1130	23
12150	7700	1.44	62	1130	24
17450	11250	1.94	63	750	25
15500	9700	2.09	63	750	26
4200	2700	0.59	59	750	27
					28
					29
				0	30
					31
				38200	TOT
15791	10845	1.77	62	2729	AVG
4200	2700	0.59	59	0	MIN
25950	19550	2.69	67	21650	MAX

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

NOV. 2006

WAS

TSS mg/l	TVSS mg/l	TS %	TS % VOL.	GAL.	ID DAY PNSF
					1
					2
17600	11100	2.2	60	470	3
					4
					5
					6
					7
					8
					9
					10
					11
					12
					13
					14
					15
					16
					17
					18
					19
					20
					21
					22
					23
					24
					25
					26
					27
36670	22900	3.2	61	470	28
					29
30800	19300	3.05	63	560	30
					31
				1500	TOT
28357	17767	2.82	61	500	AVG
17600	11100	2.20	60	470	MIN
36670	22900	3.20	63	560	MAX

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEC. 2006

WAS

TSS mg/l	TVSS mg/l	TS %	TS % VOL.	GAL.	ID DAY PNSF
23600	14970	3.2	64		1
21900	14310	3.1	63		2
					3
				1600	4
				2100	5
20960	14450			2100	6
26950	18530	3.0	64	2000	7
				400	8
					9
					10
6870	4490	3.0	60	1800	11
5400	3500	0.7	63	1800	12
780	500	1.07	57	2000	13
					14
				3000	15
					16
					17
11460	7400	1.5	63	2500	18
		1.4	67	2500	19
		0.90	63	3100	20
		0.91	55	2500	21
					22
					23
					24
					25
					26
					27
				2000	28
					29
30800	19300	3.05	63		30
					31
				29400	TOT
16524	10828	1.98	62	2100	AVG
780	500	0.70	55	400	MIN
30800	19300	3.20	67	3100	MAX

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN. 2007

WAS

TSS mg/l	TVSS mg/l	TS %	TS % VOL.	GAL.	ID DAY PNSF
					1
					2
8370	5580	0.9	66	3000	3
10640	6960	1.2	65	2000	4
					5
					6
					7
					8
9670	6360	1.2	65	2000	9
2050	1781	1.2	60	2000	10
9760		1.2	67	2000	11
					12
					13
					14
					15
					16
					17
		1.2	62	2000	18
6440	4990	1.0	62	2000	19
					20
					21
					22
					23
					24
					25
					26
					27
					28
					29
					30
					31
				15000	TOT
7822	5134	1.13	64	2143	AVG
2050	1781	0.90	60	2000	MIN
10640	6960	1.20	67	3000	MAX

SEPTAGE TESTING

SEPTAGE TESTING

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

OCT. 2006

DIGESTERS #1

% SOLIDS	% VOL.	D.O.	pH	T.ALK	TEMP.	AIR	DAY
		mg/l			o C	SCFS	
							PNSF
							1
							2
							3
							4
							5
							6
							7
							8
							9
							10
							11
1.9	61	1.4	7.2	1030	13		12
		4.3					13
							14
							15
1.8	61	5.9	6.9	790			16
		5.0					17
1.3	65	1.3	6.9	590	16		18
1.7	61	9.5	7.0	690	15		19
							20
							21
							22
1.5	62	7.8	7.3	940	11		23
		8.4			14	190	24
1.7	62	8.9	6.6	700	15	180	25
							26
							27
							28
							29
1.5	65	6.7	7.2	780	17	190	30
		7.3			18	170	31
							TOT
1.6	62	6.0	7.0	789	15	183	AVG
1.3	61	1.3	6.6	590	11	170	MIN
1.9	65	9.5	7.3	1030	18	190	MAX

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

NOV. 2006

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

DIGESTERS

#1 % SOLIDS	#1 % VOL.	#1 D.O. mg/l	#1 pH	#1 T.ALK	#1 TEMP. o C	#1 AIR SCFS	#2 % SOLIDS	#2 % VOL.	#2 D.O.	#2 pH	#2 T.ALK	#2 TEMP.	#2 AIR	DAY PNSF
1.3	63	9.2	7.1	580	17	190	1.9	63	5.5	6.9	760	13	95	1
		7.5			16	190			5.1			13	100	2
1.4	62	8.8	7.4	700	15	192	1.97	61	6.7	7.1	1080	12	114	3
														4
														5
1.7	60	8.3	7.3	660	16	200	2.4	61	7.4		960	12	125	6
		7.5			17	176			6.6			13	138	7
1.5	61	7.0	7.3	690	18	187	2.7	62	5.8	7.4	1260	13	130	8
		6.8			19	180			6.3			13	137	9
														10
														11
														12
1.7	61	9.7	7.2	570	15	184	2.7	62	6.5	6.8	880	13	120	13
		8.8			16	232			5.3			13	134	14
1.4	57	7.2	6.9	440	16	217	2.5	62	7.2	7.0	840	14	144	15
		7.7			17	193			8.2			14	150	16
		7.4			16	238			7.4			13	120	17
														18
														19
1.6	54	5.7	6.8	450	16	211	2.8		5.0	6.9	730	13	140	20
		8.0			16	226			6.9			12	148	21
1.6	55	8.7	7.0	770	16	220	2.8	62	6.1	7.0	990	13	130	22
														23
														24
														25
														26
1.8	54	7.8	7.1		17	206	2.7	59	7.5	7.0		14	150	27
		8.3			18	230			6.4			15	133	28
1.8	56	8.7	7.0		19	232	2.7	60	5.7	6.9		16	122	29
		7.3		870	20	230			4.6			17	125	30
														31
														TOT
1.6	58	7.9	7.1	637	17	207	2.5	61	6.3	7.0	938	13	129	AVG
1.3	54	5.7	6.8	440	15	176	1.9	59	4.6	6.8	730	12	95	MIN
1.8	63	9.7	7.4	870	20	238	2.8	63	8.2	7.4	1260	17	150	MAX

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

DEC. 2006

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

DIGESTERS #1							DIGESTERS #2							
% SOLIDS	% VOL.	D.O.	pH	T.ALK	TEMP.	AIR	% SOLIDS	% VOL.	D.O.	pH	T.ALK	TEMP.	AIR	SF
		mg/l			o C	SCFS								
														1
														2
														3
1.5	63	8.8	6.8	480	15	210	2.6	63	8.5	6.9	930	11	170	4
		8.8			13	197			8.0			10	162	5
1.4	63	10.2	6.2	520	12	228	3.1	64	10.2	6.9	1120	10	123	6
		9.7			11	203			10.2			9	150	7
1.7	54	6.8	6.9	630	10		1.9	64	5.4	6.9	1020			8
														9
														10
2.0	52	9.9	6.7	590	10	178	3.0	55	9.5		880	7	112	11
		9.0			11	212			9.2			9	146	12
1.6	54	9.2	6.9	740	12	210	3.0	55	6.5	6.9	860	10	120	13
1.1	58	9.0			11		2.8	63	5.2			7		14
														15
														16
														17
1.9	47	9.2	7.0	530	16	210	3.1	64	6.4	7.1	1000	12	131	18
		7.6		950	15	213			7.7			12	163	19
		8.4			15	216			6.8			11	133	20
		8.4	7.0	750	14	206			0.5	5.8	880	11	86	21
														22
														23
														24
														25
1.5	46	11.0	7.2	700	12	184	2.5	60	7.0	6.8	900	11	95	26
1.7	58	7.5			11	216	2.5	58	7.2			10	98	27
1.9	52	7.3	7.3	1000	15	228	2.6	61	10.4			11	131	28
														29
														30
														31
1.6	55	8.8	6.9	689	13	208	2.7	61	7.4	6.8	949	10	130	
1.1	46	6.8	6.2	480	10	178	1.9	55	0.5	5.8	860	7	86	
2.0	63	11.0	7.3	1000	16	228	3.1	64	10.4	7.1	1120	12	170	

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

JAN. 2007 2006

SEPTAGE TESTING

ROLLIN-WOODSTOCK WWTP
ADDISON MI. 49220
PERMIT # 0027669

DIGESTERS #1							DIGESTER #2							
% SOLIDS	% VOL.	D.O.	pH	T.ALK	TEMP.	AIR	% SOLIDS	% VOL.	D.O.	pH	T.ALK	TEMP.	AIR	SF
		mg/l			o C	SCFS								
														1
1.6	65	8.1			15	247	2.2	63	6.5			11	118	2
		6.2			14	193			8.1			11	142	3
1.5	66	8.1	7.5	1530	13	214	2.4	64	5.5	7.3	1130	11	120	4
		7.6			12	217			6.2			11	135	5
														6
														7
1.8	56	9.4	7.3	820	14	220	2.2	62	9.0	7.1	1070	11	154	8
		10.2			12	229			9.1			10	130	9
1.5	65	8.9	7.1	690	10	247	2.1	62	8.4			8	135	10
		9.8			10	192			8.8			8	141	11
1.4	67	8.8	7.0	440	10	196	1.8	64	8.9	7.1	800	8	133	12
														13
														14
1.5	68	9.2			12	230	2.2	60	10.2			8	150	15
														16
1.5	66						2.0	61						17
														18
1.3	71	9.7	7.2	700	8	192	1.9	69	9.3	7.2	840	7	133	19
														20
														21
1.2	69	10.8	7.3	530	7	169	1.8	65	11.2	7.2	830	5	135	22
		11.2			7	175			11.3			5	144	23
1.4	68	13.6	7.2	890	9	212	1.6	66	13.2	7.1	770	5	136	24
		10.2			8	204			10.6			5	121	25
1.3	68		7.1	850	6	186	1.6	65		7.2	700	4	120	26
														27
														28
1.5	72	10.6	7.2	530	7	213	1.5	65	11.0	7.2	590	3	130	29
		10.8			8	206			10.8			5	135	30
1.3	67		7.2	520	4		1.4	64		7.1	710	1		31
1.4	67	9.6	7.2	750	10	208	1.9	64	9.3	7.2	827	7	134	
1.2	56	6.2	7.0	440	4	169	1.4	60	5.5	7.1	590	1	118	
1.8	72	13.6	7.5	1530	15	247	2.4	69	13.2	7.3	1130	11	154	

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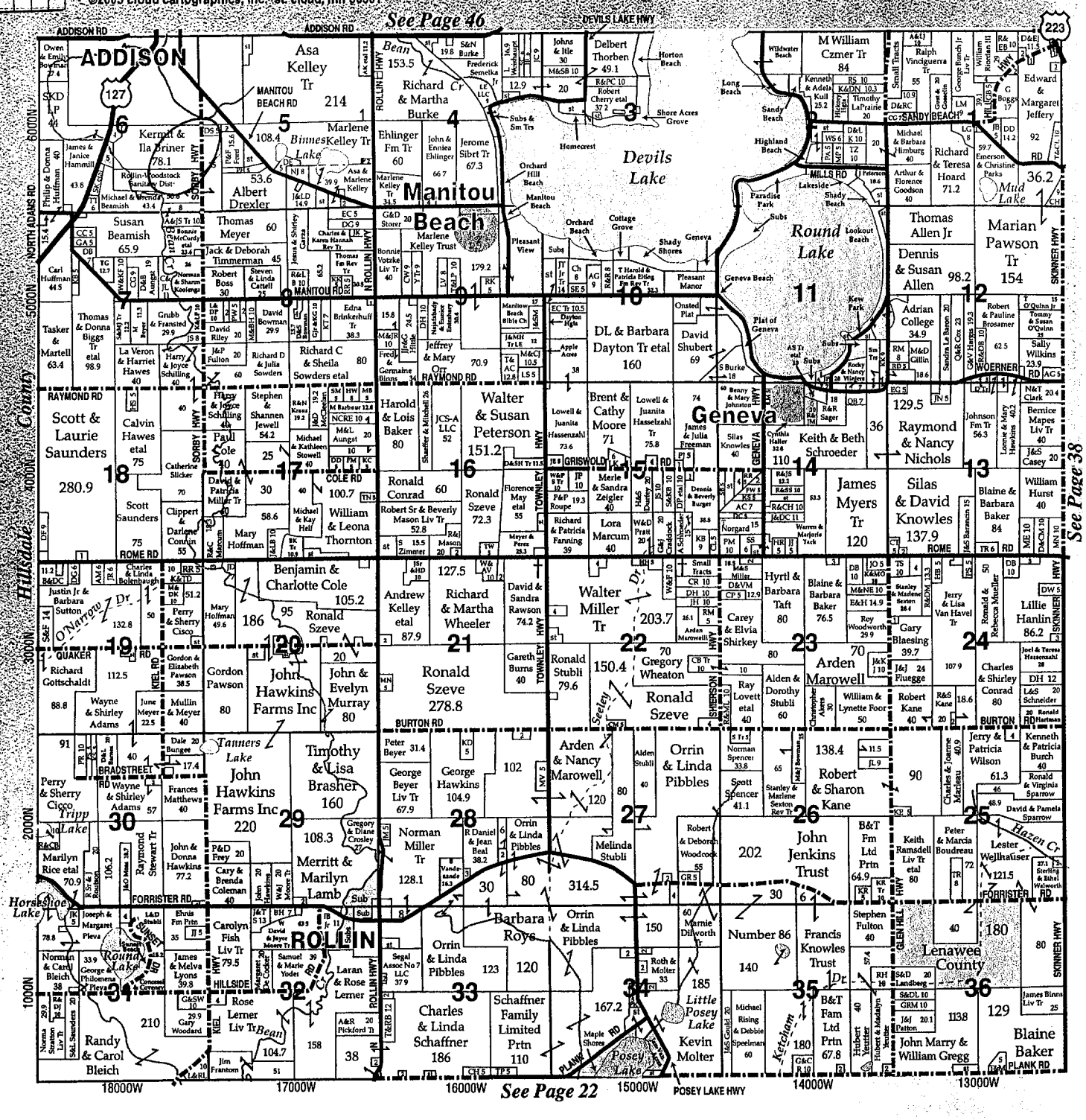

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SCHOLL'S SLAUGHTER HOUSE
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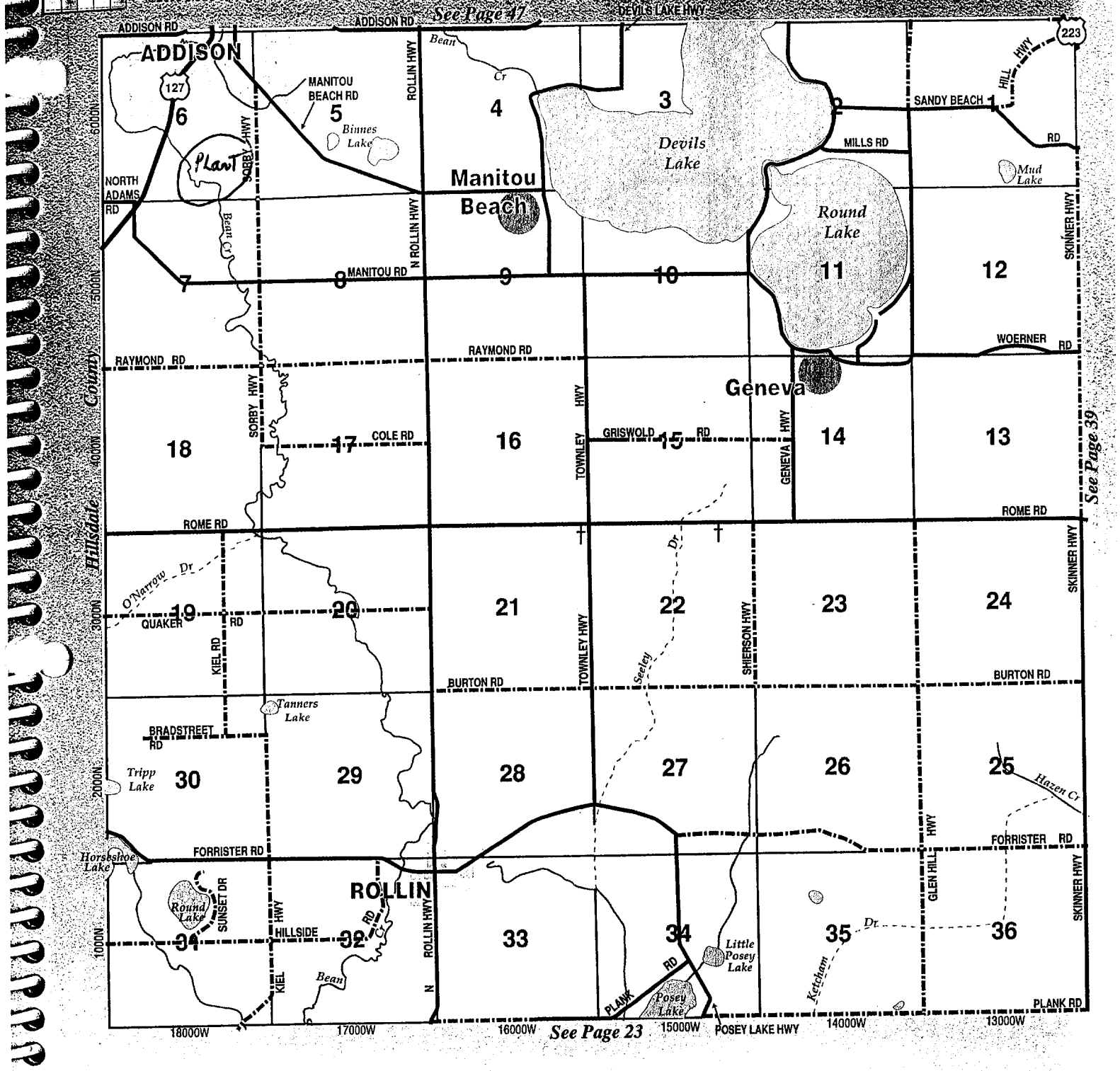

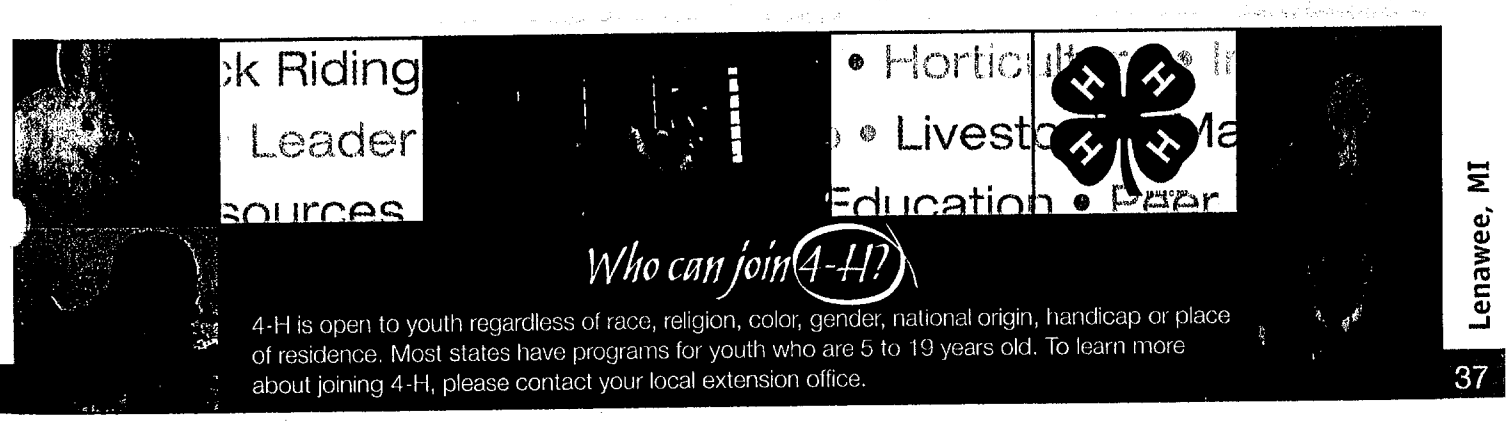

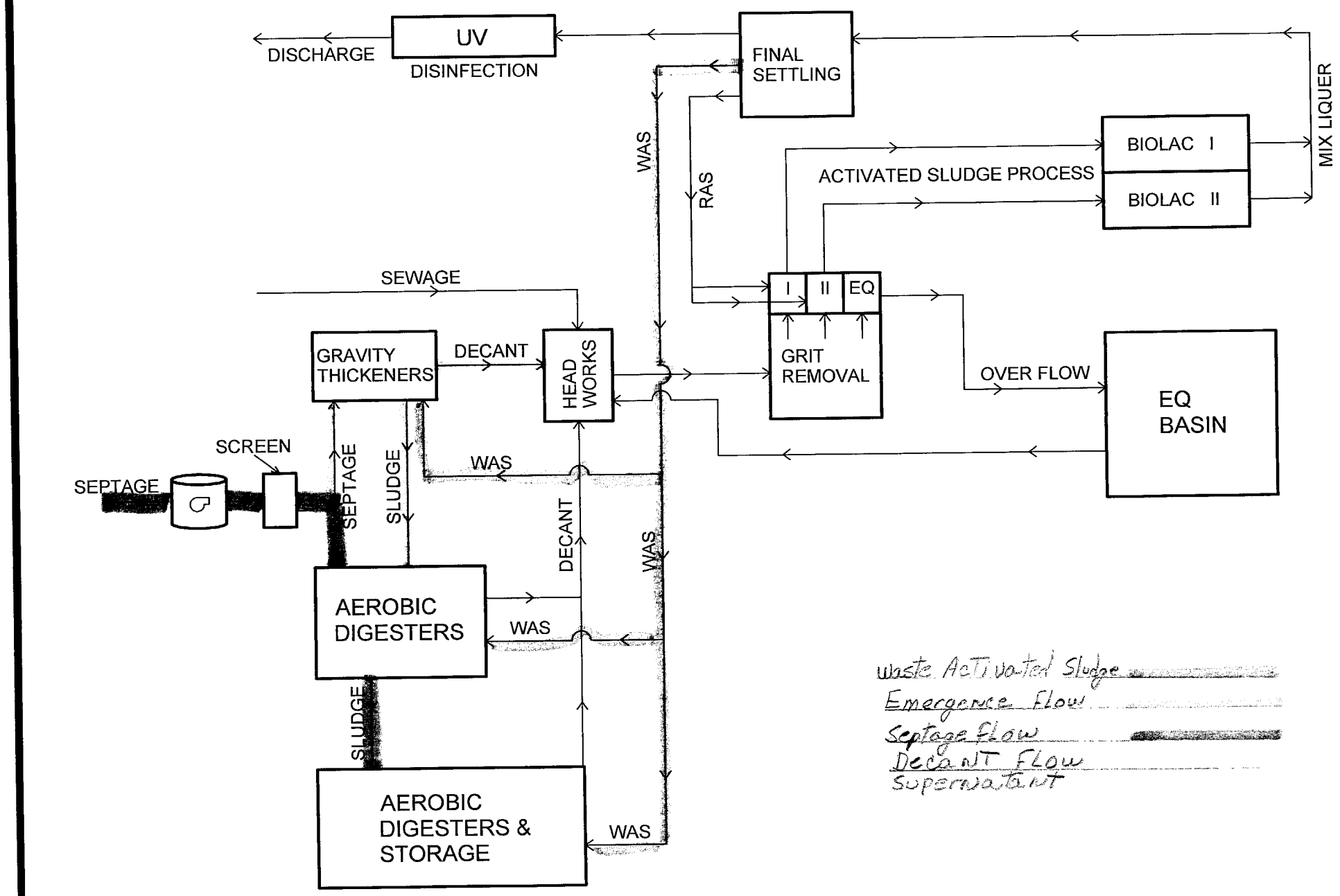

Waste Activated Sludge
Emergence Flow
Septage Flow
Decant Flow
Supernatant

№ 200

LENAWEE COUNTY DRAIN COMMISSIONER'S OFFICE

ROLLIN-WOODSTOCK WASTEWATER TREATMENT PLANT
HAULED WASTE TRACKING AND DISCHARGE TICKET

1) Hauling Company Information	
Name:	
Address:	
City:	
State:	
Zip Code	
2) Origin of Waste Material	
Name:	
Address:	
City, State & Zip Code:	
Gallons:	
Name:	
Address:	
City, State & Zip Code:	
Gallons:	
Name:	
Address:	
City, State & Zip Code:	
Gallons:	
Name:	
Address:	
City, State & Zip Code:	
Gallons:	
3) Discharge Information	
I hereby certify that the waste hauled and discharged at the Rollin-Woodstock Wastewater Treatment Plant is from the above locations in the stated quantities and is "residential domestic waste" only.	
Signed:	**Date:**
Hauling Company Representative	
Time In:	
Time Out:	
Total Gallons:	

PLANT COPY