NORTHFIELD TOWNSHIP BOARD AGENDA November 11, 2014 - - 7:00 PM 8350 Main Street, 2nd Floor

CALL TO ORDER
PLEDGE/INVOCATION
ROLL CALL
CONSENT AGENDA: Minutes, Bills
ADOPT BALANCE OF AGENDA
CALL TO THE PUBLIC
CORRESPONDENCE AND ANNOUNCEMENTS

REPORTS/UPDATES

- Department Head Reports
- ZBA Report
- Planning Commission Report

- Parks and Rec Report
- Financial Report
- Township Manager's Report

Website: www.twp-northfield.org

AGENDA ITEMS

- 1. Health Insurance
- 2. Tax Tribunal Case: Mary L. Wolowiec Living Trust vs. Township of Northfield

JOINT SESSION WITH PLANNING COMMISSION

1. Sewer Capacity Report for Proposed Biltmore Development

2nd CALL TO THE PUBLIC BOARD MEMBER COMMENTS ADJOURNMENT

* Denotes previous backup; + denotes no backup in package

This notice is posted in compliance with PA 267 of 1976 as amended (Open Meetings Act) MCLA 41.72A (2) (3) and the Americans with Disabilities Act. (ADA) individuals with disabilities requiring auxiliary aids or services should contact the Northfield Township Office, (734-449-2880) seven days in advance.

NORTHFIELD TOWNSHIP

MEMO

To:

Northfield Township Board

From: Howard Fink

Date: 11/6/2014

Re:

Meeting Minutes

Dear Township Board,

There were a few errors in the draft Minutes from the October 28, 2014 meeting. These are noted in the copy you are receiving. Please note at Tuesday's meeting, the Minutes will need to be "Approved as Amended". Also, the Minutes from the Special Meeting on September 23, 2014 are included for approval.

Respectfully Submitted,

Howard Fink

NORTHFIELD TOWNSHIP Township Board Special Meeting Minutes September 23, 2014

CALL TO ORDER

The meeting was called to order at $6:15\ P.M.$ by Supervisor Engstrom at $8350\ Main\ Street.$

PLEDGE

Supervisor Engstrom led those present in the Pledge of Allegiance.

ROLL CALL

Marilyn Engstrom, Supervisor	Present
Angela Westover, Clerk	Present
Kathy Braun, Treasurer	Present
Janet Chick, Trustee	Present
Wayne Dockett, Trustee	Present
Jacki Otto, Trustee	Present
Tracy Thomas, Trustee	Present

Also present:

Township Manager Howard Fink Recording Secretary Lisa Lemble

ADOPT AGENDA

 Motion: Engstrom moved, Chick supported, that the agenda be adopted as presented.
 Motion carried 7—0 on a voice vote.

FIRST CALL TO THE PUBLIC

Nowatzke Conditional Use Permit. Dale Brewer said the Township Board should not act on this request because conditions listed by the Planning Commission have not been met and because of other deficiencies involving the traffic study, environmental and safety issues, unpaid sewer fees and personal property taxes, and lack of legal opinion and building elevations.

Mary Devlin, 9211 Brookside, spoke in favor of the request.

AGENDA ITEMS

Nowatzke Conditional Use Permit (CUP)

Chick referred to the record from the Planning Commission on this request. She said some of the information is at odds with comments made by Dale Brewer during the Call to the Public. Fink read into the record a memo from Township planning consultant Douglas Lewan which summarized the Commission's deliberations and actions and explained the difference between approval of a CUP and the required site plan which would address many of the issues brought up by Brewer.

Fink said he and legal counsel Burns had discussed the issue of the unpaid sewer bill and concluded that the issue should not have any bearing on this issue. Dockett disagreed and asked Nowatzke to explain. Nowatzke said he did not own the property until 2011, he has not yet received a sewer bill, and his attorney is handling the matter.

In answer to a question from Otto, Nowatzke said he has received environmental approvals for the site.

- Motion: Chick moved, Engstrom supported, that the Conditional Use Permit for Nowatzke Truck and Trailer be approved with the following conditions:
 - The traffic impact study be reviewed and approved by the County Road Commission as a part of the detailed site plan review process.
 - 2. The applicant apply for full (detailed) site plan review.
 - 3. Items 1 through 7 listed in the Engineer's August 13, 2014 letter be addressed as a part of the detailed site plan review process and noted as such by Orchard Hiltz & McCliment.
 - 4. Any non-conformities on the existing site be remediated according to the zoning ordinance.

Dockett said he will not support this only because of the unpaid sewer bill. Thomas said he will support it because the current issue is whether this is an appropriate use, and the issue of compliance with specific issues is to be handled as part of the site plan process.

Motion carried 6-1 on a roll call vote, Dockett opposed.

SECOND CALL TO THE PUBLIC

No comments.

BOARD MEMBER COMMENTS

None.

ADJOURNMENT

 Motion: Engstrom moved, Chick supported, that the meeting be adjourned. Motion carried.

Submitted by Lisa Lemble. Corrections to the originally issued minut Wording removed is stricken through; Wording added is <u>underlined</u> .	es are indicated as follows:
Approved by the Township Board on, 2014.	A

Official minutes of all meetings are available on the Township's website at http://www.twp-northfield.org/government/township_board_of_trustees/

NORTHFIELD TOWNSHIP Township Board Minutes October 28, 2014

CALL TO ORDER

The meeting was called to order at $7:03\ P.M.$ by Supervisor Engstrom at $8350\ Main\ Street.$

PLEDGE

Supervisor Engstrom led those present in the Pledge of Allegiance. $\,$

ROLL CALL

Marilyn Engstrom, Supervisor	Present
Angela Westover, Clerk	Present
Kathy Braun, Treasurer	Present
Janet Chick, Trustee	Present
Wayne Dockett, Trustee	Present
Jacki Otto, Trustee	Present
Tracy Thomas, Trustee	Present

Also present:

Township Manager Howard Fink
Wastewater Treatment Plant Superintendent
Tim Hardesty
Public Safety Director William Wagner
Community Center Director Tammy Averill
Township Attorney Paul Burns
Recording Secretary Lisa Lemble
Members of the community

CONSENT AGENDA:

- Minutes of September 9 & 23, 2014
- Rills

Dockett asked that minutes and bills be pulled for discussion.

ADOPT BALANCE OF AGENDA

Engstrom switched the order of the health insurance renewal presentation and the *Final Approval for Conditional Use Permits*.

 Motion: Engstrom moved, Chick supported, that the balance of the agenda be adopted as amended.
 Motion carried 7—0 on a voice vote.

FIRST CALL TO THE PUBLIC

Biltmore Request for Master Plan Amendment.

 Ed Wojtys, 6235 Hellner Road, commented on information contained in documents from the Township provided through a Freedom of Information Act (FOIA) request. He asked Board to address the concerns raised, and asked that the Biltmore request be handled more transparently. David Gordon, 5558 Hellner Road, said the current master plan is the result of 10 years of public input regarding development in the Township and should be followed.

- Mary Devlin, 9211 Brookside, said no one on the Board or on the staff, including Howard Fink, has done anything devious in their work for the Township.
- Jim Nelson, 7777 Sutton Road, said the information in the FOIA request revealed a subversion of the master plan which was developed with public involvement.
- Christina Kozak, 6449 Hellner Road, said the master plan should be followed to preserve open space.

Nowatzke Site Plan Application. Dale Brewer, 11548 East Shore Drive, said the Township should not have accepted this application because the pre-requisites have not been met, including submission of a traffic impact study.

Conditional Use Permit (CUP) Process. David Perry, 9411 Earhart Road, and Kathy Newman, 9355 Earhart, urged the Board to retain final approval of CUPs.

Thank you. Mary Devlin, 9211 Brookside, thanked Community Center Director Averill and volunteers who worked with her for the Halloween Celebration on Saturday.

CORRESPONDENCE AND ANNOUNCEMENTS

No comments.

REPORTS

Department Heads

Fire. Public Safety Director Wagner read the report summary for September. In answer to a question from Dockett, Wagner said the issue of safely and securely maintaining a supply of the drug that reverses heroin overdoses is being discussed statewide.

 $\ensuremath{\textit{Police}}$. Public Safety Director Wagner read the report summary for September.

Wastewater Treatment Plant. Hardesty referred to his written report.

Senior Center. Averill referred to her written report.

Other

Financial. Braun referred to the Revenue and Expenditures report and graphs.

Zoning Board of Appeals. No meeting since the last Board meeting.

Planning Commission. Chick reported that public hearings were held on amendments to several sections of the zoning ordinance. On November 5th action will be taken on these and a request by AT&T for a cell tower will be considered.

Northfield Township Board Meeting Minutes of Regular Meeting Public Safety Building; 8350 Main Street October 28, 2014

Parks and Recreation. Thomas reported that the committee continues to work on their master plan, and Barbara Griffith made a generous donation of a gazebo.

Township Manager. Fink referred to his written report and noted:

- he is asking the Board to allow him to act on a variety of administrative contracts without specific Board approval.
- he is pushing the County hard regarding a County preserve and a recreational path connecting to East Shore Drive.
- he is working with Averill on implementing the Wheels on Meals program in the Township.

Fink and Braun responded to questions from Dockett about fees for architectural services for construction of a meeting room on the Public Safety Building, personal property tax collections, a request for donation for 4° of July activities.

Motion: Chick moved, Engstrom supported, that Township Manager Howard Fink be given the authority to approve administrative contracts that are include in the budget.

Motion carried 7-0 on a voice vote

AGENDA ITEMS

1. Final Approval for Conditional Use Permits No One

Motion: Dockett moved, Mann-supported, that final approval of Conditional Use Permits be by made by the Planning Commission.

Dockett said the Commission and the planning consultant know more about planning issues than the Township Board.

Motion failed for lack of support.

PRESENTATION: Health Insurance Renewal Information

Jack Schmitz of Burnham & Flower Insurance Group said health coverage plans are changing as a result of the Affordable Care Act based on various factors including the level of coverage and age of participants. Fink said in light of the very high costs to employees under the new plans the Board may want to reconsider the Township's position on the hard caps. Schmitz said 97% of the Townships he works with have opted out of the hard caps. He added that the Board needs to make a decision at the next meeting.

AGENDA ITEMS continued

2. Non-Motorized Path Requests for Proposal

Otto reported that after she, Dockett, and Fink reviewed proposals she and Fink are recommending Tetra Tech and Dockett is recommending Metro Consulting Associates for the last phase of the Barker Road non-motorized path.

▶ Motion: Dockett moved, Thomas supported, that the contract for engineering consulting services for Phase 3 of the Barker Road Non-Motorized Path be awarded to Metro Consulting Associates for a fee of \$32,500. Motion failed 3—4 on a roll call vote, Otto, Engstrom, Braun, Chick opposed.

► Motion: Dockett moved, Thomas supported, that the bid from Tetra Tech for the non-motorized path be accepted. Motion carried 6—1 on a roll call vote, Dockett opposed.

3. Horseshoe Lake Sewer District Refund

Motion: Otto moved, Thomas supported, that the entire balance of the Horseshoe Lake Sewer fund balance—at minimum \$692,213.19—be refunded without any holdbacks or deduction of legal fees.
 Motion carried 7—0 on a voice vote.

4. Extension of Assessing Contract

Motion: Engstrom moved, Thomas supported, that the contract with Assessment Administration Services be approved until December 15, 2016, pending legal review. Motion carried 7—0 on a voice vote.

5. Tax Increment Financing (TIF) Amendment

Barbara Griffith, Downtown Development Authority (DDA) Chair, reviewed the history of the DDA and the consideration of this amendment and asked that a public hearing date be set. Public Safety Director Wagner said he is concerned that enacting the proposed changes would negatively affect the public safety revenues that would be necessary to provide increased services for large developments.

▶ Motion: Chick moved, Otto supported, that the Resolution Regarding Approval of an Amendment to the Development Plan and Tax Increment Financing of the Downtown Development Authority of the Township of Northfield be approved.

Motion carried 7—0 on a voice vote.

Northfield Township Board Meeting Minutes of Regular Meeting Public Safety Building; 8350 Main Street October 28, 2014

6. Approval for Kiwanis to Salvage Metals from the Curtis Property

Otto noted that this building, which has been acquired by the Township, will be burned in a Fire Department training exercise in the spring, and Kiwanis has requested permission to salvage metals from the building prior to that as a fundraiser for the 4th of July Committee.

▶ Motion: Otto moved, Chick supported, that Kiwanis Club of Whitmore Lake be permitted to salvage metals from the Darlene Curtis property in collaboration with the Fire Department, subject to waivers proof of liability insurance being provided.

Motion carried 7—0 on a voice vote.

7. Approval for Suit Regarding Condition of Property at 8 Mile Road and US-23

Fink noted that due to a conflict of interest Fred Lucas, rather than Paul Burns, will represent the Township. He estimated the cost to be about \$1,000. He said he is willing to cancel all the tickets issued as long as the property is cleaned up by a reasonable date specified by legal agreement or court order.

Motion: Otto moved, Mann supported, that Fred Lucas be engaged for court proceedings against the property at 8 Mile Road and US-23.

Earl LaFave, owner of the property, described cleanup efforts he has made and asked for permission to keep some of the materials on site.

Motion carried 5—2 on a voice vote, Dockett and Engstrom opposed.

8.

Board Approval for Howard Fink and Tami Averill to Receive Township Credit Cards

In answer to questions Fink said these will be the only credit cards and spending limits are governed by policy.

Motion: Engstrom moved, Chick supported, that issuance of credit cards for Tami Averill, Howard Fink, William Wagner, and Timothy Hardesty be authorized. Motion carried 7—0 on a voice vote.

9. Authorization for Natural Gas Contract

Dockett said he does not think it is wise to enter into a two year contract for natural gas. Fink suggested one year. ▶ Motion: Engstrom moved, Otto supported, that the Township enter into a one-year contract with Integris Energy for the Township's natural gas.

Motion carried 7—0 on a voice vote

10. Planning Commission

Chick said the Township's prior action needs to be reaffirmed for codification purposes

Motion: Chick moved, Engstrom supported, that the motion made by the Northfield township Board of Trustees requesting approval to make an amendment to the Northfield Township zoning ordinance, specifically Article 51.0, Research, Technology and Manufacturing (RTM) allowing churches, synagogues, mosques, temples, other places of worship, and cemeteries as a Conditional Use as explained in the Board packet be reaffirmed. Motion carried 6--1 on a roll call vote, Chick opposed.

11. Minutes

Minutes of September 9 and 23, 2014

Dockett said he wants it stated in the minutes of this meeting or the September 23rd meeting that he did not think the September 23rd special meeting was properly called

Motion: Engstrom moved, Otto supported, that the minutes of the Township Board meetings of September 9 and 23, 2014, be accepted as presented, and to dispense with the reading.
 Motion carried 7—0 on a voice vote.

12. Bills

Dockett objected to paying SEMCOG dues and noted that a \$187 overcharge by the Township was refunded to an individual after two years.

 Motion: Engstrom moved, Thomas supported, that the bills be approved.
 Motion carried 7—0 on a voice vote.

SECOND CALL TO THE PUBLIC

Special Meeting. Dale Brewer said minutes of the special meeting of September 23rd were not made available to the public, it is not clear what took place at that meeting, and it is not clear it was legally called. In answer to a question from Dockett, Fink said there was a misunderstanding that these were closed session minutes, so they were not included in the packet, so a specific motion should be made at the next meeting regarding approval of these minutes.

Northfield Township Board Meeting Minutes of Regular Meeting Public Safety Building; 8350 Main Street October 28, 2014

Horseshoe Lake Sewer District. Jill Steuer, 760 Six Mile, thanked the Board on behalf of the Horseshoe Lake Sewer District members.

BOARD MEMBER COMMENTS

- Thomas he will be learning more about health insurance before the vote on the Township's coverage at the next meeting, and he urged other Board members to do that.
- Thomas said he is open to an agreement with Mr. LaFave short of a lawsuit.
- Otto said she is concerned that the Wastewater Capacity Summary given to Board members is more than 10 years old, information has changed, and costs will have increased, so she recommended holding a joint meeting of the Board and the Planning Commission to discuss this.

- We stover and Dockett encouraged all voters to confirm their voting precinct and come to the polls on November $4^{\rm th}.$
- Chick asked that creation of a priority list for use of excess general funds for projects listed by the Township Manager be added to a workshop agenda.
- Chick said contrary to comments made during the Call to the Public she sees that Fink is doing exactly what the Board asked him to do as a liaison between developers and the Township.

ADJOURNMENT

 Motion: Engstrom moved, Chick supported, that the meeting be adjourned.
 Motion carried 7—0 on a voice vote.

The meeting adjourned 9:53 P.M.

Submitted by Lisa Lemble.			
Corrections to the originally issued minutes are indic Wording removed is stricken through; Wording added is <u>underlined</u> .	rated as follows:		
Approved by the Township Board on	, 2014.		
Official minutes of all most and the second	Angela W	estover, Clerk	

Official minutes of all meetings, as well as expanded notes, are available on the Township's website at $\underline{\text{http://www.twp-northfield.org/government/township_board_of_trustees/}$

GL Number

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INVOICE GL DISTRIBUTION REPORT FOR NORTHFIELD TOWNSHIP EXP CHECK RUN DATES 11/12/2014 - 11/12/2014 JOURNALIZED OPEN

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Amount

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Invoice Description

Dept 301 OPERATING COSTS 266-301-727	266 FEDERAL NA		Dept 301 OPERATING COSTS 216-301-727 216-301-741		Fund 216 MEDICAL RESCUE FUND Dept 270 LEGAL/PROFESSIONAL 216-270-802 A			Dept 333 TRANSPORTATION 207-333-930)	Dept 301 OPERATING COSTS 207-301-727 207-301-727		Fund 207 LAW ENFORCEMENT FU Dept 270 LEGAL/PROFESSIONAL 207-270-802			101-666-812	101-666-812 101-666-812	Dept 666 COMMUNITY CENTER 101-666-727 101-666-727		Dept 270 LEGAL/PROFESSIONAL 101-270-802		101-265-940	101-265-930 101-265-938	101-265-850	Dept 265 HALL AND GROUNDS	101 CENTERT
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INVOICE GL DISTRIBUTION REPORT FOR NORTHFIELD TOWNSHIP EXP CHECK RUN DATES 11/12/2014 - 11/12/2014 JOURNALIZED OPEN

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Amount

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Vendor

Invoice Description

Fund 266 FEDERAL NARCOTICS Dept 301 OPERATING COSTS	FUND			
Dept 900 CAPITAL OUTLAY		Total For Dept 301 OPERATING	FING COSTS	19.75
970	EQUIPMENT	GRAYBAR	VL572PIR SPECO TECHNOLOGIES CLR CAM I	150.24
		Total For Dept 900 CAPITAL	AL OUTLAY	150.24
Fund 287 BUILDING DEPARTMENT Dept 270 LEGAL/PROFESSIONAL	NT FUND	Total For Fund 266 FEDERAL	AL NARCOTICS FUND	169.99
287-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	900.00
		Total For Dept 270 LEGAL,	LEGAL/PROFESSIONAL	900.00
Fund 370 PUBLIC SAFETY BLDG	G DEBT FD	Total For Fund 287 BUILDING	ING DEPARTMENT FUND	900.00
	REPAIRS & MAINTENANCE	WEBB CONTRACTORS	CHECK ON 2 AIR HANDLING UNITS	234.63
		Total For Dept 301 OPERATING	ING COSTS	234.63
Fund 571 WASTEWATER TREATMENT	ENT FUND	Total For Fund 370 PUBLIC	SAFETY BLDG DEBT FD	234.63
571-226-957	TRAINING & DEVELOPMENT	UIS SCADA	SERVICES RENDERED ON 10/14/14 - NFPA	359.00
Dept 270 LEGAL/PROFESSIONA	I	Total For Dept 226 PERSONNEL	NEL -	359.00
571-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	6,480.00
		Total For Dept 270 LEGAL/	LEGAL/PROFESSIONAL	6,480.00
Dept 301 OPERATING COSTS 571-301-727		QUILL CORP	CUPS, KLEENEX, PAPER TOWEL, COPY PAPE	173.77
571-301-740 571-301-740 571-301-817	OPERATING SUPPLIES OPERATING SUPPLIES LAB & TESTING	QUALITY ASSURANCE SERV L QUALITY ASSURANCE SERV L RRIGHTON ANALYTICAL LIC	# CP124 S & 620 C L SERVICE AND CALIBRATION OF	220.00
571-301-817	R1 8	PARAGON LABORATORIES, IN	BA PROJECT NUMBER 31762 WORKORDER 196936	1,130.00 408.00
571-301-819	COLLECTION SYS ANNUAL MAINT	PARAGON LABORATORIES, IN KENNEDY INDUSTRIES INC	EPA 1631E MERCURY, TOTAL FIELD SERVICE 719 10/22/14 & START CA	210.00
571-301-930	REPAIRS & MAINTENANCE	SPRINT/NEXTEL COMMUNICAT ARBOR SPRINGS WATER CO I		242.58 40.25
Dept 333 TRANSPORTATION		Total For Dept 301 OPERATING	ING COSTS	3,102.10
	FUEL & MILEAGE	VAL'S SERVICE STATION	28.7 DIESEL	129.00
		Total For Dept 333 TRANSP	TRANSPORTATION	129.00
Fund 701 TRUST AND AGENCY		Total For Fund 571 WASTEW	WASTEWATER TREATMENT FUND	10,070.10
701-000-277	RHETECH	OHM ADVISORS	RHETECH BLDG SERVICES RENDERED THROUG	1,300.00

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INVOICE GL DISTRIBUTION REPORT FOR NORTHFIELD TOWNSHIP EXP CHECK RUN DATES 11/12/2014 - 11/12/2014 JOURNALIZED OPEN

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Fund 571 WASTEWATER TREATMENT FUND 0170 - ARBOR SPRINGS WATER CO INC 0262 - BRIGHTON ANALYTICAL LLC 1110 - KENNEDY INDUSTRIES INC 1456.00 - SPRINT/NEXTEL COMMUNICATIONS 1645 - PFEFFER, HANNIFORD & PALKA 1718 - QUALITY ASSURANCE SERV LLC 1750 - QUILL CORP 2109 - UIS SCADA 2117 - VAL'S SERVICE STATION 9864 - PARAGON LABORATORIES, INC. TOTAL FUND 571 WASTEWATER TREATMENT FUND	Fund 370 PUBLIC SAFETY BLDG DEBT FD 2256.5 - WEBB CONTRACTORS TOTAL FUND 370 PUBLIC SAFETY BLDG DEBT F	Fund 287 BUILDING DEPARTMENT FUND 1645 - PFEFFER, HANNIFORD & PALKA TOTAL FUND 287 BUILDING DEPARTMENT FUND	Fund 266 FEDERAL NARCOTICS FUND 9804 - NORTH EASTERN UNIFORMS & EQUIPMENT MISC - MISC VENDOR TOTAL FUND 266 FEDERAL NARCOTICS FUND	Fund 216 MEDICAL RESCUE FUND 0170 - ARBOR SPRINGS WATER CO INC 1645 - PFEFFER, HANNIFORD & PALKA 9804 - NORTH EASTERN UNIFORMS & EQUIPMENT TOTAL FUND 216 MEDICAL RESCUE FUND	Fund 207 LAW ENFORCEMENT FUND 0170 - ARBOR SPRINGS WATER CO INC 0373.1 - CRUISERS 1645 - PFEFFER, HANNIFORD & PALKA 2273.1 - CARQUEST AUTO PARTS - PD TOTAL FUND 207 LAW ENFORCEMENT FUND	Fund 101 GENERAL FUND 0170 - ARBOR SPRINGS WATER CO INC 0208 - BS&A SOFTWARE 0323.01 - CHARTER COMMUNICATIONS 1645 - PFEFFER, HANNIFORD & PALKA 1750 - QUILL CORP 2247.2 - WASHTENAW COUNTY TREASURER MISC - MISC VENDOR TOTAL FUND 101 GENERAL FUND	Total For All Funds:	Total For Fund 701 TRUST AND AGENCY	Total For Dept 000	Vendor Invoice Description
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1,300.00	Page: 4/4 Amount
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CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP CHECK DATE FROM 10/28/2014 - 11/06/2014 Banks: MIF

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		MIF	10/29/2014 MIF	10/29/2014 MIF :	10/29/2014 MIF 3							10/29/2014 MIF :	10/29/2014 MIF :			10/29/2014 MIF	10/29/2014 MIF :	10/29/2014 MIF	10/29/2014 MIF	10/29/2014 MIF	Fund: 101 GENERAL F	Check Date Bank	
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CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP CHECK DATE FROM 10/28/2014 - 11/06/2014 Banks: MIF

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				10/29/2014			10/29/2014	10/29/2014				10/29/2014	10/29/2014	10/29/2014			10/29/2014	10/29/2014			10/29/2014	10/29/2014	10/29/2014	Fund: 101	Check Date
				MH			MIF	MIF				MIF	MIF	ы Н			MIF	MIF			MIF	M	iz H	GENERAL	e Bank
				38333*#			38331	38329*#				38328*#	38326	38323			38321#	38318			38317	38316	38315	Hel	k Check #
				STANDARD INSURANCE CO.			PRINTING SYSTEMS INC	PITTSFIELD TOWNSHIP				PAUL E BURNS	NORTHFIELD TOWNSHIP	MUNICODE			MLIVE MEDIA GROUP	MARY KENDALL			MARY COOK	LINDA HARTLEY	KIM POHL		Payee
CHECK MIF 38333 TOTAL FOR FUND 101:	LIFE/DISB. INSURANCE	LIFE/DISB. INSURANCE	DISB.		CHECK MIF 38331 TOTAL FOR FUND 101:	E C	SUPPLIES	CODE ENFORCEMENT	CHECK MIF 38328 TOTAL FOR FUND 101:			LEGAL	SUPPLIES	CONTRACTUAL SERVICES	CHECK MIF 38321 TOTAL FOR FUND 101:		PRINTING & PUBLICATIONS PRINTING & PUBLICATIONS	SUPPLIES	CHECK MIF 38317 TOTAL FOR FUND 101:	SCC TRIPS/PROGRAMS		SCC TRIPS/PROGRAMS	SCC TRIPS/PROGRAMS		Banks: MIF Description
	717	717	717	717		727	727	608		927	803	803	727	818		900	900	727		812	812	812	812		Account
-	666	257	253	172	1	191	191	412	-	270	270	253	265	172	·	167	, H 0 0 1 H	265	ı	666	666	666	666	200	
230.57	43.68	67.20	38,40	81.29	273.00	130.60	142.40	520.00	4,839.52	(3,800.00)	8,139.52	500.00	142.71	3,547.01	650.52	349.09	301.43	30.56	34.06	14.84	19.22	168.45	21.00	AIIIOUIIL	Amorran

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Check Date	Bank	Check #	Payee	Description	Account	ブ > > 5 t	
Fund: 101 0	GENERAL	FUND				77	- AIIIOUIIC
10/29/2014	MIH	38336	TAMI AVERILL	h-1	727	666	42.37
				RIPS/PROGRA	812	666	327.70
				CHECK MIF 38336 TOTAL FOR FUND 101:			370.07
10/29/2014	MIF	38337*#	TETRA TECH INC	WL SPEC ASSESS RECEIVABLE-CURRENT	045	000	640.00
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	CHARGEBACKS - PRIOR TAX YEARS	938	265	
10/30/2014	MIF	38343	ALL AMERICAN CLEANING CO.	MATUPE	i i	1	70 · 02
10/30/2014	M T	30316		NEIGHNE & MAINIENANCE	930	666	280.00
7077	131 F	0 0 4 0	ENC BANK	REPAIRS & MAINTENANCE	930	6 6 6	815.71
11/06/2014	MIF	38347*#	AT&T	COMMUNICATION	850	265	215.82
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	265	45.86
11/06/2014	M H	38351	HORNBACK RECYCLING	REPAIRS & MAINTENANCE	930	666	65.00
11/06/2014	MH	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	666	רע ע ע
11/06/2014	MIF	38355	MICRO TECH SERVICES INC	REPAIRS & MAINTENANCE	930	265	90 0
11/06/2014	MIF	38356	RED CARPET TRAVEL CLUB	SCC TRIPS/PROGRAMS	812	666	779 52
11/06/2014	MIF	38362	WILLIAM LENAGHAN	CODE ENFORCEMENT	809	412	625.00
11/06/2014	MIF	38363*#	PNC BANK	LATE FEES AND PENALTIES	922	215	(78 00)
				LATE FEES AND PENALTIES COMMUNICATION		215 265	(43.72)
				CHECK MIF 38363 TOTAL FOR FUND 101:			(76.72)
11/06/2014	MIF	38364#	PNC BANK	LATE FEES AND PENALTIES	922 922	215	(29.00)
				MISCELLANEOUS TRAINING & DEVELOPMENT	956 957	265	10.00
							Vines

11/06/2014 01:42 PM User: JEWELIE DB: Northfield CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP CHECK DATE FROM 10/28/2014 - 11/06/2014 Banks: MIF Page 4/14

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Fund: 101 GENERAL FUND Рауее Total for fund 101 GENERAL FUND Description CHECK MIF 38364 TOTAL FOR FUND 101: Account Dept 28,303.37 240.17 Amount

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11/06/2014	11/06/2014	11/06/2014	11/06/2014			10/29/2014			10/29/2014	10/29/2014	10/29/2014			10/29/2014	10/29/2014	10/29/2014	10/29/2014	10/29/2014	Fund: 207 I 10/29/2014	Check Date
MILE	M H	MIF	MIF			MIF			MIF	MIF	MIF			MIF	MIF	MIF	MIF	MIF	LAW ENF MIF	Bank
ω ω ω « «	38357	38354	38348*#			38342*#			38340	38333*#	38328*#			38327	38320	38311*#	38297	38295*#	ENFORCEMENT F IF 38288	Check #
WARD'S DO IT CENTER	N WIREL	MICHIGAN STATE POLICE	AUTOMATED RESOURCE MGT INC			WASHTENAW COUNTY TREASURER			WARD'S DO IT CENTER	STANDARD INSURANCE CO.	PAUL E BURNS			OAKLAND COUNTY	MICHIGAN STATE POLICE	HEWLETT-PACKARD FINANCIAL SRV. (BRIGHTON FORD INC	AT&T LONG DISTANCE	FUND 14A-3 DISTRICT COURT	Payee
SUPPLIES	COMMUNICATION	DUE TO OTHERS	SUPPLIES	CHECK MIF 38342 TOTAL FOR FUND 207:	\circ	DISPATCH SERVICES	CHECK MIF 38340 TOTAL FOR FUND 207:	SUPPLIES	SUPPLIES	LIFE/DISB. INSURANCE	LEGAL	CHECK MIF 38327 TOTAL FOR FUND 207:	COMMUNICATION	CONTRACTUAL SERVICES	DUE TO OTHERS	C COMPUTER		COMMUNICATION	DUE TO OTHERS	Description
727 727	850	214	727		938	820		727	727	717	803		850	818	214	972	930	850	214	Account
301	301	000	301	-	3 (O	ω 01		301	301	226	270	ent transmission in local	301	301	000	301	33 33	301	000	Dept
16.40 (1.64)	521.38	90.00	52.74	6,939.58	1,660.67	5, 278, 91	46.20	4.71	41.49	652.37	3,300.00	5,189.50	1,551.50	3,638.00	322.50	200.00	32.24	398.76	500.00	Amount

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP CHECK DATE FROM 10/28/2014 - 11/06/2014

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		IP DUES	POSTAGE 85	CHECK MIE 38363 TOTAL FOR FIND 207.	
CHECK MIF 38360 TOTAL FOR FUND 207: FUEL & MILEAGE	F 38360 ILEAGE	F 38360 ILEAGE & DEVEI	F 38360 ILEAGE & DEVEI	F 38360 ILEAGE & DEVEI	F 38360 ILEAGE & DEVEI IP DUES F 38363
860	860	860 957 727	860 957 727 807	860 957 727 807 851	860 957 727 807 851
ယ ယ ယ	ω ω ω	333 226 301	333 226 301	333 226 301 301	333 226 301 301
2,214.73	2,214.73	2,214.73 50.00 25.29	2,214.73 50.00 25.29 105.00	2,214.73 50.00 25.29 105.00 20.90	2,214.73 50.00 25.29 105.00 20.90

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Description

Account Dept

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				2.00 CT T O I I	Account	Dept	Amount
Fund: 216 M	MEDICAL	RESCUE FU	FUND				
10/29/2014	MIF	38291	APOLLO FIRE APPARATUS REPAIR	g gr	930	33 33	137.68
					930	ш ш	269.32
				CHECK MIF 38291 TOTAL FOR FUND 216:			407.00
10/29/2014	M H H	38292*#	ARBOR SPRINGS WATER CO INC	SUPPLIES	727	301	5.50
10/29/2014	MIF	38295*#	AT&T LONG DISTANCE	COMMUNICATION	850	30 01) 1
10/29/2014	MIF	38298	BROOKE BARROWS	UNIFORMS/GEAR & ALLOWANCE	7 / 7)) ()	, h
10/29/2014	MIF	38300	CARQUEST AUTO PARTS - FD	지 구 디	ь Э н	, C	52.99
10/29/2014	⊼ ਸ	30303		THEOTING & MAINIENANCE	930	ω ω ω	8.79
FT07/67/01	H	3830s	CREATIVE CARS INC	REPAIRS & MAINTENANCE	930	33 3	1,094.36
10/29/2014	M H	38304*#	DTE ENERGY	UTILITIES	920	301	107.59
10/29/2014	M L	38308	EMERGENT HEALTH PARTNERS	DISPATCH SERVICES	820	301	856.17
10/29/2014	MIF	38311*#	HEWLETT-PACKARD FINANCIAL SRV. C	COMPUTER	972	900	יינ מס מ
10/29/2014	MIF	38322	MOORE MEDICAL LLC	SUPPLIES	727	301	290.03
10/29/2014	MIF	38325	NORTH EASTERN UNIFORMS & EQUIPME	UNIFORMS/GEAR & ALLOWANCE UNIFORMS/GEAR & ALLOWANCE	741	301	1,235.78
				CHECK MIF 38325 TOTAL FOR FUND 216:		***	1,352.76
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	226	70.41
10/29/2014	MIF	38334	STAPLES CREDIT PLAN	SUPPLIES	727	301	257.37
10/29/2014	MIH	38341	WASHTENAW AREA MUTUAL AID	TRAINING & DEVELOPMENT	957	226	1,950.00
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	CHARGEBACKS - PRIOR TAX YEARS	938	301	742.67
10/30/2014	MIF	38344	CARQUEST AUTO PARTS - FD	REPAIRS & MAINTENANCE	930	ω ω ω	114.55

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Check Date Bank Check #	Payee	Description	Account	Dept	Amount
Fund: 216 MEDICAL RESCUE F	FUND				ed personal de la companya del companya de la companya del companya de la companya del la companya de la compan
		REPAIRS & MAINTENANCE	930	333	1,516.59
		CHECK MIF 38344 TOTAL FOR FUND 216:		- The second sec	1,631.14
10/30/2014 MIF 38345	HOME DEPOT CREDIT SERVICES	EQUIPMENT	970	900	1,349.10
11/06/2014 MIF 38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	301	82.55
11/06/2014 MIF 38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	301	105.60
11/06/2014 MIF 38363*#	PNC BANK	UNIFORMS/GEAR & ALLOWANCE EQUIPMENT	741 970	301	511.30 762.75
		CHECK MIF 38363 TOTAL FOR FUND 216:			1,274.05
		Total for fund 216 MEDICAL RESCUE FUND	Ū		11,700.88

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11/06/2014 Fund: 230 DONATION FUND MIF 38359 WASTE MANAGEMENT OF MI Total for fund 230 DONATION FUND DONATIONS - EVENTS/COMMUNITY PROJECTS Description 904 Account 301 Dept Amount 18.00 18.00

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	11/06/2014 MIF 38347*# AT&T	10/29/2014 MIF 38329*# PITTSFIELD TOWNSHIP	Fund: 287 BUILDING DEPARTMENT FUND	Check Date Bank Check # Payee
Total for fund 287 BUILDING DEPARTMENT FUND	COMMUNICATION	INSPECTOR EXPENSES		Description
RIMENT FUND	850	725		Account Dept
	301	261		Dept
2,319.43	.43	2,288.00		Amount

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Check Date Ban Fund: 370 PUBLIC 10/29/2014 MIF 10/29/2014 MIF 10/29/2014 MIF 10/29/2014 MIF 11/06/2014 MIF		SAFETY BLDG 38289*# 38290 38301*# 38342*# 383350*	# Payee DG DEBT FD ALLIANCE WINDOW CLEANING ALLISTAR ALARM LLC CONSUMERS ENERGY WASHTENAW COUNTY TREASURER CHARTER COMMUNICATIONS DTE ENERGY	Description REPAIRS & MAINTENANCE CONTRACTUAL SERVICES UTILITIES CHARGEBACKS - PRIOR TAX YEARS COMMUNICATION UTILITIES	9 8 9 9 8 9	Account 930 818 920 938 938	ccount Dept 30 301 18 301 20 301 50 301
2014	MIF	38301*#	CONSUMERS ENERGY WASHTENAW COUNTY TREASURER	1	TAX YEARS	920 TAX YEARS 938	920 938
_/06/2014	MIF	38349	CHARTER COMMUNICATIONS	COMMUNICATION		850	
11/06/2014	MIF	38350*		UTILITIES		920	
11/06/2014	MIF	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES		920	920 301
11/06/2014	MIF	38353	J & M LANDSCAPING	GROUNDS/CLEANG/JANITORL SERVIC	ANITORL SERVIC	ANITORL SERVIC 816	
11/06/2014	МІН	38363*#	PNC BANK	SUPPLIES		727	727 301
				Total for fund 370		70 PUBLIC SAFETY BLDG DEBT FD	PUBLIC SAFETY BLDG DEBT

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257.75	301	950	N LAND LEASING	MICHIGAN DEPT. OF TRANSPORTATION	38319	MIF	10/29/2014
1,738.99	301	930	REPAIRS & MAINTENANCE	GREAT LAKES PUMP & SUPPLY CO.	38310	MIF	10/29/2014
1,667.46	301	920	UTILITIES	DTE ENERGY	38307*#	MIF	10/29/2014
978.32			CHECK MIF 38304 TOTAL FOR FUND 571:				
27.61	301	920	UTILITIES				
17.63	301	920	UTILITIES				
47.12	301	920	UTILITIES				
414.44	301	920	UTILITIES				
17.04	301	920	UTILITIES				
39.05	301	920	UTILITIES				
18.20	301	920	UTILITIES				
22.78	301	920	UTILITIES				
25.91	301	920	UTILITIES				
9.77	301	920	UTILITIES				
11.45	301	920	UTILITIES				
77.59	301	920	UTILITIES				
53.93	301	920	UTILITIES				
144.02	301	920	UTILITIES				
20.14	301	920	UTILITIES				
31.64	301	920	UTILITIES	DTE ENERGY	38304*#	MIF	10/29/2014
1,181.78			CHECK MIF 38301 TOTAL FOR FUND 571:				
20.15	301	920	UTILITIES				
18.70	301	920	UTILITIES				
20.15	301	920	UTILITIES				
1,047.22	301	920	UTILITIES				
19.42	301	920	UTILITIES				
24.49	301	920	UTILITIES				
15.52	301	920	UTILITIES				
16.13	301	920	UTILITIES	CONSUMERS ENERGY	38301*#	MIF	10/29/2014
39.70	301	850	COMMUNICATION	AT&T LONG DISTANCE	38295*#	MIF	10/29/2014
				ENT FUND	ER TREATMENT	WASTEWATER	Fund: 571 W/
Amount	Dept	Account	Description	Payee	Check #	Bank	Check Date
			Banks: MlF				

Check Date

Bank Check # Payee

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Description

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	t (, Circ Cir H		Description	Account	Dept	Amount
Fund: 571 W	ASTEWA	WASTEWATER TREATMENT	MENT FUND				
10/29/2014	MIF	38324	NCL OF WISCONSIN, INC.	OPERATING SUPPLIES	740	301	47.27
10/29/2014	MIF	38330	POWER VAC OF MICHIGAN, INC	COLLECTION SYS ANNUAL MAINT	819	301	1,430.00
10/29/2014	MIH	38332	SPRINT/NEXTEL COMMUNICATIONS	COMMUNICATION	850	301	242.28
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	226	251.77
10/29/2014	MIF	38335	SYNAGRO CENTRAL, LLC	COLLECTION SYS ANNUAL MAINT	819	301	25,570.60
10/29/2014	MIF	38337*#	TETRA TECH INC	ENGINEER	806	270	2,880.00
10/29/2014	MIF	38338	UIS SCADA	REPAIRS & MAINTENANCE	930	301	332.69
10/29/2014	MIF	38339	USA BLUE BOOK	COLLECTION SYS ANNUAL MAINT REPAIRS & MAINTENANCE	9 8 19	300	118.70
				CHECK MIF 38339 TOTAL FOR FUND 571:			197.22
11/06/2014	MIF	38347*#	AT&T	COMMUNICATION	850	301	272.99
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	301	16.05
11/06/2014	MIF	38350*	DTE ENERGY	UTILITIES	920	301	9.25
11/06/2014	MIF	3 8 3 5 2 * #	INTEGRYS ENERGY SERVICES, INC.	UTILITIES UTILITIES CHECK MIF 38352 TOTAL FOR FUND 571:	920 920	301	813.42 4,226.05 5,039.47
11/06/2014	MIF	38358*	WARD'S DO IT CENTER	REPAIRS & MAINTENANCE REPAIRS & MAINTENANCE CHECK MIF 38358 TOTAL FOR FUND 571:	930 930	301	131.20 (10.45) 120.75
'*'-INDICATES		CHECK DISTI	TOTAL - ALL FUNDS DISTRIBUTED TO MORE THAN ONE FUND	Total for fund 571 WASTEWATER TREATMENT FUND	NT FUND		42,274.34 111,918.03

11/06/2014 01:42 PM User: JEWELIE DB: Northfield CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP CHECK DATE FROM 10/28/2014 - 11/06/2014

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Check Date Bank Check # Payee Description Account Dept Amount

"#"-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE DEPARTMENT



Northfield Township Public Safety

8350 Main Street, Whitmore Lake, MI 48189 Fire: 734-449-2385 • Fax: 734-449-2521 Police: 734-449-9911 • Fax: 734-449-0511 www.twp.northfield.mi.us



NORTHFIELD TOWNSHIP FIRE DEPARTMENT STATISTICAL REPORT FOR October 2014

November, 2014

To The Northfield Township Board of Trustees:

The Northfield Township Fire Department responded to 52 requests for service in October 2014. This is about 5 more calls than October 2013 when we responded to 47 calls.

Fire Calls: 9

Motor Vehicle crashes-8

Medical Responses-32

Wires down!
Alarms-1
Gas Leak-1
Smoke investigation-6

False Alarm-2

Of the responses for the month 63% were in the Hamlet area of the Township, 37% were in the rural areas of the Township. There were two Mutual aids that were in Hamburg Twp.

Mutual Aid calls for the month: We assisted other agencies 2 times and received assistance from other agencies 2 times.

The Average response time for the month of October was 6:10.

Significant calls for the month: The only significant call for the month was the rescue crew got to assist delivering a baby at the Shell station on Territorial. Mother and baby were both healthy and transported to U of M. It's a Boy!

William Wagner

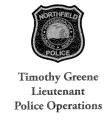
Weller Wegn

Fire Chief



Northfield Township Public Safety

8350 Main Street, Whitmore Lake, MI 48189 Fire: 734-449-2385 • Fax: 734-449-2521 Police: 734-449-9911 • Fax: 734-449-0511 www.twp.northfield.mi.us



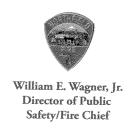
November 2014 Director of Public Safety Board Communication

- 1. Fire department training October: Training for the month of October consisted of: Search and rescue evolutions at the Darlene Curtis house on Main St. We trained on the new EMS protocol on back boarding or the lack there of. You will see very few people backboarded anymore. And lastly we had the classroom portion of our annual drivers training.
- 2. EMS/ HVA update: Attached is the monthly report for ALS response times over 10 minutes. EMS calls were down for the month but the ALS response times seem to be a little bit better this month with a few exceptions.
- 3. Fire Prevention Week: Fire Prevention week was October 5th through the 11th. The theme for this year's week is "Working smoke detectors save lives" I would encourage **EVERYONE** to test and change the batteries in your smoke detectors. If a resident does not have a smoke detector or needs batteries contact us and we will help correct that problem.
- 4. Police and Fire Departments open House: The open house was very nice this years with around 150 residents that came out and visited the Police and Fire Station. The helicopter was a hit as usual and we did have a head on crash at Main and Six Mile just as the open house started. We were able to handle the crash while landing the helicopter at the same time.

- **5. Public Education:** This year we were able to make contact with all classes K-4 in the Whitmore Lake Schools as well as the Pre-school and various classes at Ann Arbor Christian and Spirit De Sanctus.
- **6. Runs of Significance:** October was a relatively quiet month with the only call of significance was the rescue crew got to help deliver a baby at the Shell Station. Mother and baby were fine and it was a boy.

ALS Response Times In excess of 10 minutes October 2014

Date	<u>Location</u>	Incident type	ALS Response time	Transport	
10/3/2014	Hamlet	Difficulty Breathing	1,200	HVA	
10/8/2014	Hamlet	Unconcious	15 minutes	HVA	
10/9/2014	Hamlet	sick person	14 minutes	HVA	
10/10/2014	Hamlet	Difficulty Breathing	20 minutes	HVA	
10/12/2014	Hamlet	Unconcious	23 minutes	HVA	
10/15/2014	Hamlet	Trauma	18 minutes	HVA	
10/21/2014	Rural	Cardiac arrest	14 minutes	HVA	
10/23/2014	Hamlet	Difficulty Breathing	13 minutes	HVA	



Northfield Township Public Safety

8350 Main Street, Whitmore Lake, MI 48189 Fire: 734-449-2385 • Fax: 734-449-2521 Police: 734-449-9911 • Fax: 734-449-0511 www.twp.northfield.mi.us



MONTHLY REPORT OCTOBER 2014

TO: The Northfield Township Board of Trustees

FROM: Lieutenant Timothy Greene **RE:** Monthly Operations Review

DATE: Township Board Meeting of November 11, 2014

GENERAL ENFORCEMENT STATISTICS

The Northfield Township Police Department responded to 456 complaints during the Month of October 2014, and handled 5 mutual aid responses inside the township and 5 outside the township. Of the total complaints answered, 59 % of them were in the hamlet area and 41 % were handled throughout the rest of the Township. The average response time on calls for service is 5.72 minutes. Officers generated a total of 13 arrests. An itemized listing of monthly activities is attached.

VEHICLE SALE/REPLACEMENT

I request the Northfield Township Board of Trustees approve the sale of Police Department owned vehicles, a 2005 Dodge Dakota, 2003 Ford Taurus, and a 2012 Ford Explorer. I further request approval to purchase a new 2015 Chevy Tahoe from Champion Chevrolet at a cost of \$34,534.10. Item is budgeted out of Federal Forfeiture funds.

Timothy Greene.

Lieutenant

Attachments:

CLEAR-1018 Verified Offense By Date

Agency: NR

10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

0.7	Code Description	(According to the Control of the Con
1178	CSC 4th Degree -Forcible Contact	Incident Count
1313	Assault/ Battery/Simple (Incl Domestic and Police Officer	1
1380	Telephone Used for Harassment, Threats	4
1385	Other Electronic Medium Used for Harassment, Threats	1
2305	Larceny - Personal Property from Vehicle - LFA	1
2308	Larceny - From Building (Includes Library, Office used by Public, etc)	3
2309	Larceny - From Yards (Grounds Surrounding a Building)	1
2399	Larceny (Other)	2
2902	Damage to Property - Private Property - MDOP	1
2999	Damage to Property - MDOP (other)	
3078	Retail Fraud, Theft 3rd Degree	2
3562	Marijuana -Possess	1
5309	Harassing Communications	1
5591	Inhalation of Chemical Agents	1
8031	OUID Operating Under the Influence of Drugs	1
8041	Operating Under the Influence of Alcohol / Liquor OWI	1
80412	Operating Under the Influence of Alcohol / Liquor OWI 2nd Offense	1
C2931	DWLS OPS License Suspended / Revoked	1
C2933	Vehicle Registration - Improper / Expired	6
C2934	Vehicle Insurance - None / Expired	4
C2935	DWLS 2nd OPS License Suspended / Revoked	1
C2937	No OPS on Person - NOP-NOLOP	2
C3010	Felony Arrest Warrant (Originating Agency)	1
C3020	Misdemeanor Arrest Warrant (Originating Agency)	2
C3050	Misdemeanor Arrest Warrant - Other Jurisdiction	1
C3101	Acc, Single Motor Vehicle	5
C3114	Acc, Injury Type C	1
C3145	Property Damage Traffic Crash PDA	14
C3150	Property Damage H&R Traffic Crash	1
C3170	Private Property Traffic Crash	1
C3205	Sudden Death - Natural	1
C3208	Death Investigation - Cause Unknown	1
C3221	Attempt Suicide - Juvenile	1
C3250	Mental	3
C3299	Welfare Check	3
C3310	Family Trouble	7
C3312	Neighborhood Trouble	1
C3314	Missing Persons	2
C3318	Found Property	2
C3324	Suspicious Circumstances	9
C3326	Suspicious Vehicles	10
C3328	Suspicious Persons	9
C3329	Intelligence Information	1
C3330	Assist Other Law Enforcement Agency	2
C3331	Assist Medical	10

CLEAR-1018 Verified Offense By Date

Agency: NR

10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

eggents of	ode Description	
C3332	Assist Fire Department	Incident Count
C3333	Assist Motorist	
C3334	Assist Other Govt Agency	
C3336	Assist Citizen	2
C3337	Assist Citizen - Vehicle Lockout	۷.
C3345	Accidental Property Damage	
C3351	Civil - Landlord / Tenant	
C3355	Civil Matter - Other	12
C3702	Traffic Complaint / Road Hazard	14
C3704	Traffic Complaint / Abandoned Auto	
C3707	Vehicle Release	
C3708	Traffic Complaint / Private Impound	
C3728	Traffic Complaint / Parking Complaint	-
C3799	Miscellaneous Traffic Complaint	,
C3804	Animal Complaint	7
C3808	Animal Bite / Scratch	1
C3902	Burglary Alarm	2
C4041	Speeding Citation	37
C4047	Disobey Traffic Signal Citation	1
C4048	Improper Passing Citation	1
C4105	Equipment Citation	7
C4125	Seat Belt Law Citation	1
C4222	Parking - Aband Motor Vehicle	1
C4307	Drove W/Expired Ops	1
C4308	Violation of Restricted Ops	1
L3501	911 Hang Up - NR	3
L3502	Follow Up - NR	2
L3504	PBT Station - NR	11
L3506	Shots Fired - NR	2
L3507	Fingerprints - NR	6
L3508	Ticket Sign Off - NR	1
L3510	Loud Music - NR	2
L3512	Vin Inspection - NR	1
L3514	Warrant Pick Up - NR	1
L3521	Open Door / Window - NR	2
_3526	False Alarm - NR	18
_3531	Traffic control - NR	3
3532	Range Firearms - NR	1
_3535	GUN Permit, Applications, CCW Permits - NR	28
_3538	Property/Vacation Check - NR	1
3540	Child Safety Seat Inspection - NR	1
.3542	BOL - NR	9
.3546	Trespass Notice Served - NR	1
.3547	Subpoena Service - NR	1
.3550	Speed Sign Detail - NR	, , , , , , , , , , , , , , , , , , ,

CLEAR-1018 Verified Offense By Date

Agency: NR

10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

	ode Description	
L3551	Sex Offender Registration/Verification - NR	4
L3552	Traffic Stop - NR	1
L3555	Attempt to Serve Warr - NR	55
L3558	Code Violation - NR	2
L3568	Local Records Check - NR	1
L3569	Assist Other Police Agency - Inside Northfield - NR	2
L3570	Assist Other Police Agency - Outside Northfield - NR	5
L3597	Non Terminal - NR	5
L4925	Commercial Vehicle Violations - NR	26
L6012	Traffic Direction / Control / Problem - NR	5
		1
	Sum:	456

Report Time: 11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses All Offenses that were Attempted or Completed For the Month of October

Agency: Northfield Township Police

ORI: MI8196400

	lassification	Oct/2013	Oct/2014	%Change
0900	M IPPEDINONNECLICENT MANCHAUGUSTER I (CANTILLE)			
0900	THE TOTAL SERVICE OF THE TOTAL COLUMN ARY)	0	0	-
0900	THE THE THE WOLDNING THE CHINACE THE CHINA	0	0	-
1000	The state of the s	0	0	-
1000		0	0	-
-		0	0	-
1100	ENETTOTAL ENIONACINA -COC IST DEGREE	1	0	-100.0%
1100	TO THE THORT ENION ACTION SED DEGREE	1	0	-100.0%
1100	TENER LINE THOR OF WEIGHT AND THE BEGREE	0	0	-
1100	TENENT ENERGY ON ONALIANAL FOSC SKD DEGREE	0	0	-
1100	TENSILE ENEMANTON OBSECT TOSCIOT DEGREE	0	0	-
1100		0	0	_
1100		0	0	-
11008	SEXUAL CONTACT FORCIBLE -CSC 4TH DEGREE	0	1	-
12000		0	0	_
13001	NONAGGRAVATED ASSAULT	5	4	-20.0%
13002	? AGGRAVATED/FELONIOUS ASSAULT	1	0	-100.0%
13003	NTIMIDATION/STALKING	3	3	0%
20000	ARSON	0	0	-
21000	EXTORTION	0	0	-
22001	BURGLARY -FORCED ENTRY	3	0	-100.0%
22002	BURGLARY -ENTRY WITHOUT FORCE (Intent to Commit)	0	0	-100.078
23001	LARCENY -POCKETPICKING	0	0	-
23002	LARCENY -PURSESNATCHING	0	0	-
23003	LARCENY -THEFT FROM BUILDING	1	1	- 00/
23004	LARCENY -THEFT FROM COIN-OPERATED MACHINE/DEVICE	0		0%
23005	LARCENY -THEFT FROM MOTOR VEHICLE	1	0	-
23006	LARCENY-THEFT OF MOTOR VEHICLE PARTS/ACCESSORIES	2	3	200.0%
23007	LARCENY -OTHER	2	0	-100.0%
24001	MOTOR VEHICLE THEFT	0	3	50.0%
24002	MOTOR VEHICLE, AS STOLEN PROPERTY	· ·	0	-
24003	MOTOR VEHICLE FRAUD	0	0	-
25000	FORGERY/COUNTERFEITING	_	0	-
26001	FRAUD -FALSE PRETENSE/SWINDLE/CONFIDENCE GAME	0	0	-
26002	FRAUD -CREDIT CARD/AUTOMATIC TELLER MACHINE	1	0	-100.0%
26003	FRAUD -IMPERSONATION	1	0	-100.0%
26004	FRAUD -WELFARE FRAUD	0	0	-
26005	FRAUD -WIRE FRAUD	0	0	#
27000	EMBEZZLEMENT	0	0	-
28000	STOLEN PROPERTY	0	0	-
29000	DAMAGE TO PROPERTY	1	0	-100.0%
30001	RETAIL FRAUD -MISREPRESENTATION	7	3	-57.1%
30002	RETAIL FRAUD -THEFT	0	0	-
30002	NETWELL WOOD - THEIR I	0	1	-

Agency: Northfield Township

ORI: MI8196400

Oakland County CLEMIS

REPORT EXCLUDES UCR STATUS OF UNF

Report: CLEAR-008 Page 1 of 4

Report Time: 11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses All Offenses that were Attempted or Completed For the Month of October

Agency: Northfield Township Police

ORI: MI8196400

CI	Classification		Oct/2014	%Change
30003	RETAIL FRAUD -REFUND/EXCHANGE	0	2	
30004		0	0	
35001		-	0	-
35002		0	3	-
36001		0	1	-
36002		0	0	-
37000		0	0	-
39001	GAMBLING- BETTING/WAGERING	0	0	-
39002		0	0	-
39003		0	0	-
39004		0	0	-
40001	COMMERCIALIZED SEX -PROSTITUTION	0	0	-
40002	COMMERCIALIZED SEX -ASSISTING/PROMOTING PROSTITUTION	0	0	-
40003	HUMAN TRAFFICKING - PURCHASING PROSTITUTION	0	0	-
51000	BRIBERY	0	0	-
52001	WEAPONS OFFENSE- CONCEALED	0	0	-
52002	WEAPONS OFFENSE -EXPLOSIVES	0	0	-
52003	WEAPONS OFFENSE -OTHER	0	0	-
64001	HUMAN TRAFFICKING - COMMERCIAL SEX ACTS	0	0	-
64002	HUMAN TRAFFICKING - INVOLUNTARY SERVITUDE	0	0	-
	Total for Group A	30	23	-23.3%
01000	SOVEREIGNTY	0	0	-23.3 /
02000	MILITARY	0	0	-
03000	IMMIGRATION	0	0	-
09003	NEGLIGENT HOMICIDE -VEHICLE/BOAT	0	0	-
14000	ABORTION	0	0	_
22003	BURGLARY - UNLAWFUL ENTRY (NO INTENT)	1	0	-100.0%
22004	POSSESSION OF BURGLARY TOOLS	0	0	-100.076
26006	FRAUD -BAD CHECKS	0	0	_
36003	PEEPING TOM	0	0	_
36004	SEX OFFENSE -OTHER	0	0	_
38001	FAMILY -ABUSE/NEGLECT NONVIOLENT	1	0	-100.0%
38002	FAMILY -NONSUPPORT	0	0	-100.078
38003	FAMILY -OTHER	0	0	
1001	LIQUOR LICENSE -ESTABLISHMENT	0	0	-
1002	LIQUOR VIOLATIONS -OTHER	2	0	-100.0%
2000	DRUNKENNESS	0	0	100.076
8000	OBSTRUCTING POLICE	0	1	<u>-</u>
9000	ESCAPE/FLIGHT	0	0	<u>-</u>
0000	OBSTRUCTING JUSTICE	1	0	-100.0%
3001	DISORDERLY CONDUCT	0	0	100.070
3002	PUBLIC PEACE -OTHER	0	0	_
1001	HIT and RUN MOTOR VEHICLE ACCIDENT	1	0	-100.0%
Agenc	y: Northfield Township Oakland County CLEMIS		· ·	Report: CL FAR-

Oakland County CLEMIS

Report: CLEAR-008 Page 2 of 4

ORI: MI8196400

REPORT EXCLUDES UCR STATUS OF UNF

Report Time: 11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses All Offenses that were Attempted or Completed For the Month of October

Agency: ORI:

Agency: Northfield Township Police

MI8196400

Classification		Oct/2013	Oct/2014	%Change
54002	OPERATING UNDER THE INFLUENCE OF LIQUOR OR DRUGS	2	3	50.0%
55000	HEALTH AND SAFETY	0	1	30.076
56000	CIVIL RIGHTS	0	0	
57001	TRESPASS	0	0	
57002	INVASION OF PRIVACY -OTHER	0	0	_
58000	SMUGGLING	0	0	_
59000	ELECTION LAWS	0	0	_
60000	ANTITRUST	0	0	_
61000	TAX/REVENUE	0	0	_
62000	CONSERVATION	0	0	_
63000	VAGRANCY	0	0	_
70000	JUVENILE RUNAWAY	0	0	_
73000	MISCELLANEOUS CRIMINAL OFFENSE	1	0	-100.0%
75000	SOLICITATION	0	0	-100.0%
77000	CONSPIRACY (ALL CRIMES)	0	0	-
	Total for Group B	9	5	-44.4%
2800	JUVENILE OFFENSES AND COMPLAINTS	4	0	-100.0%
2900	TRAFFIC OFFENSES	9	14	55.6%
3000	WARRANTS	8	4	-50.0%
100	TRAFFIC CRASHES	25	22	-12.0%
3200	SICK / INJURY COMPLAINT	17	8	-52.9%
300	MISCELLANEOUS COMPLAINTS	96	101	5.2%
400	WATERCRAFT COMPLAINTS / ACCIDENTS	0	0	5.2.70
500	NON-CRIMINAL COMPLAINTS	177	201	13.6%
600	SNOWMOBILE COMPLAINTS / ACCIDENTS	0	0	-
700	MISCELLANEOUS TRAFFIC COMPLAINTS	15	17	13.3%
800	ANIMAL COMPLAINTS	3	8	166.7%
900	ALARMS	0	2	100.176
	Total for Group C	354	377	6.5%
700	LOCAL ORDINANCES - GENERIC	0	0	-
000	HAZARDOUS TRAFFIC CITATIONS / WARNINGS	36	39	8.3%
100	NON-HAZARDOUS TRAFFIC CITATIONS / WARNINGS	4	8	100.0%
200	PARKING CITATIONS	2	1	-50.0%
300	LICENSE / TITLE / REGISTRATION CITATIONS	4	2	-50.0%
400	WATERCRAFT CITATIONS	0	0	~
500	MISCELLANEOUS A THROUGH UUUU	0	0	
300	LIQUOR CITATIONS / SUMMONS	0	0	_
700	COMMERCIAL VEHICLE CITATIONS	0	0	-
300	LOCAL ORDINANCE WARNINGS	0	0	-
900	TRAFFIC WARNINGS	3	5	66.7%
	Total for Group D	49	55	12.2%
000	FIRE CLASSIFICATIONS	0	0	
00	18A STATE CODE FIRE CLASSIFICATIONS	1	0	-100.0%

Agency: Northfield Township

Oakland County CLEMIS

Report: CLEAR-008 Page 3 of 4

ORI: MI8196400

REPORT EXCLUDES UCR STATUS OF UNF

Report Time: 11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses All Offenses that were Attempted or Completed For the Month of October

Agency: N

Agency: Northfield Township Police

MI8196400

Cla	ssification	Oct/2013	Oct/2014	%Change
	Total for Group E	1	0	-100.0%
6000	MISCELLANEOUS ACTIVITIES (6000)	1	1	0%
6100	MISCELLANEOUS ACTIVITIES (6100)	0	0	-
6200	ARREST ASSIST	0	0	_
6300	CANINE ACTIVITIES	0	0	-
6500	CRIME PREVENTION ACTIVITIES	0	0	-
6600	COURT / WARRANT ACTIVITIES	0	0	-
6700	INVESTIGATIVE ACTIVITIES	1	0	-100.0%
	Total for Group F	2	1	-50.0%
	Total for All Groups	445	461	3.6%

Agency: Northfield Township

ORI: MI8196400

Oakland County CLEMIS

REPORT EXCLUDES UCR STATUS OF UNF

Report: CLEAR-008

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MONTHLY REPORT for OCTOBER 2014 EVENTS OF SIGNIFICANCE

LARCENY

On October 18, a man on Spencer Rd reported that a large amount of scrap metal had been stolen from his property. The man believed that his daughter's boyfriend may be a possible suspect. The man reviewed his security cameras and was able to hear the voice of his daughter's boyfriend on the security footage. He then went to a local scrap yard, where they had record of the suspect having sold scrap to them after the time of the theft. Officers confronted the suspect, who ultimately admitted to stealing the scrap. This case is being reviewed by the Prosecutor's Office.

OWI CRASH

On October 12, officers were dispatched to an injury crash on Main Street near Six Mile Rd. Upon arrival, officers located three subjects who were injured. The driver of the vehicle traveling northbound on Main Street told officers that he fell asleep while driving, crossed the center line and struck the southbound vehicle head-on. As officers interviewed the driver, they noticed an odor of intoxicants. The driver admitted to having five beers over the last three hours. After some field sobriety tests, the driver consented to a PBT, yielding a .104 result. The driver was arrested for OWI and transported to the jail. Charges are pending at the Prosecutor's Office for OWI 2nd Offense Causing Injury.

DOMESTIC VIOLENCE

On October 12, officers responded to a residence on Winters Lane for a Domestic Violence incident. Upon arrival, officers located a female victim on the front porch who was visibly upset. She advised officers that she had been out at a bar and returned home shortly after midnight. Her husband had also been drinking. She advised that her husband approached her and an argument ensued, during which time he pushed her several times, causing her to fall down the exterior stairs of the home and hit her head. The victim's husband then locked her out of the residence. Officers attempted to make contact with the suspect (who was in the home) but he would not answer the door or his phone. Officers helped the victim find alternative arrangements for the night and provided her with information for Domestic Violence victim's assistance. Charges were requested from the Prosecutor's Office for Domestic Violence and were authorized.

OPERATE UNDER THE INFLUENCE OF DRUGS

On October 6, officers responded to a gas station on Main Street to the report of a subject passed out behind the wheel. As officers approached, they observed two empty pill bottles in the driver's lap and multiple pills in his hand. The subject was very incoherent, confused and seemed to be under the influence of a drug(s). The subject was taken into custody for possession of drugs. Officers performed sobriety tests on the subject, which he failed. His PBT resulted in .000 so officers drafted a search warrant for blood and transported the subject to the hospital to be drug tested. Upon arrival at the hospital, the subject started resisting officers' commands and making threats to the officers, adding a charge of Resist & Obstruct. The officers learned that the subject had tried to sell his drugs to the clerk inside the gas station. The subject's vehicle was forfeited for having been involved in the attempt sale of drugs. Officers located marijuana and drug paraphernalia in the subject's vehicle so he was also charged with Possession of Marijuana & Drug Paraphernalia.

SEX OFFENDER VIOLATION ARREST

On October 5, officers went to the residence of a registered sex offender living in Northfield Township, whom they knew to have a valid warrant for his arrest. The offender had a warrant for Failing to Register. While officers were waiting for backup near the offender's house, they observed him leaving his residence in a vehicle. They initiated a traffic stop on the offender and took him into custody on the warrant without incident.

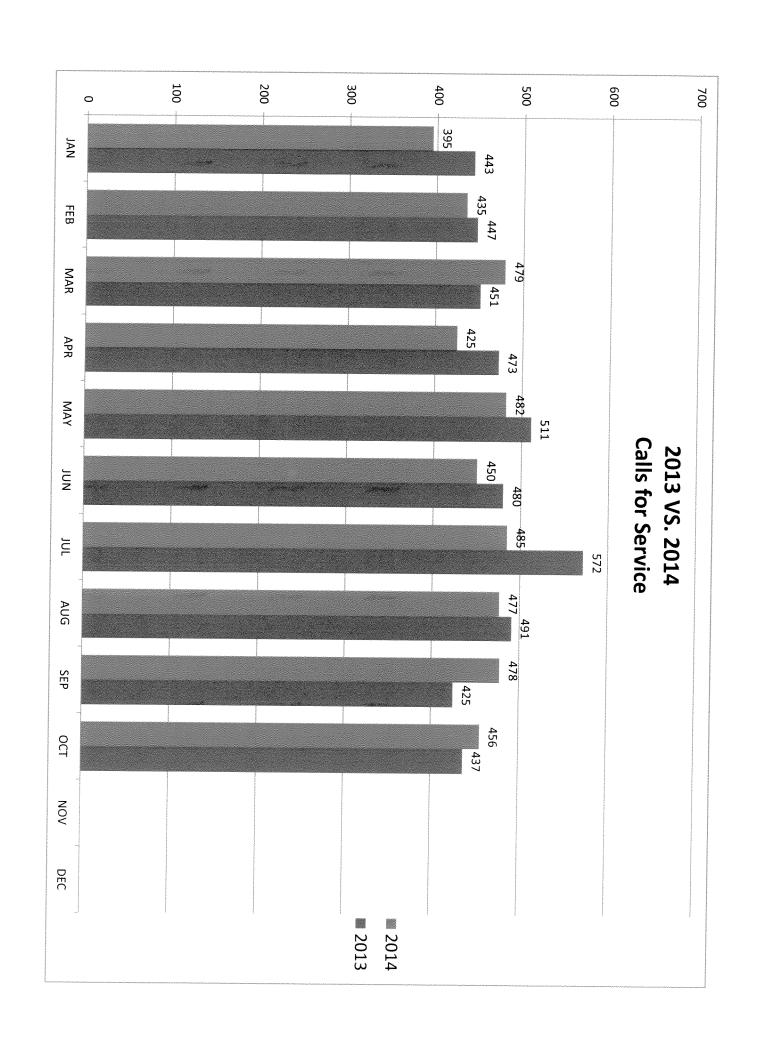
MONTHLY TRAINING FOR OCTOBER 2014

FORMAL TRAINING

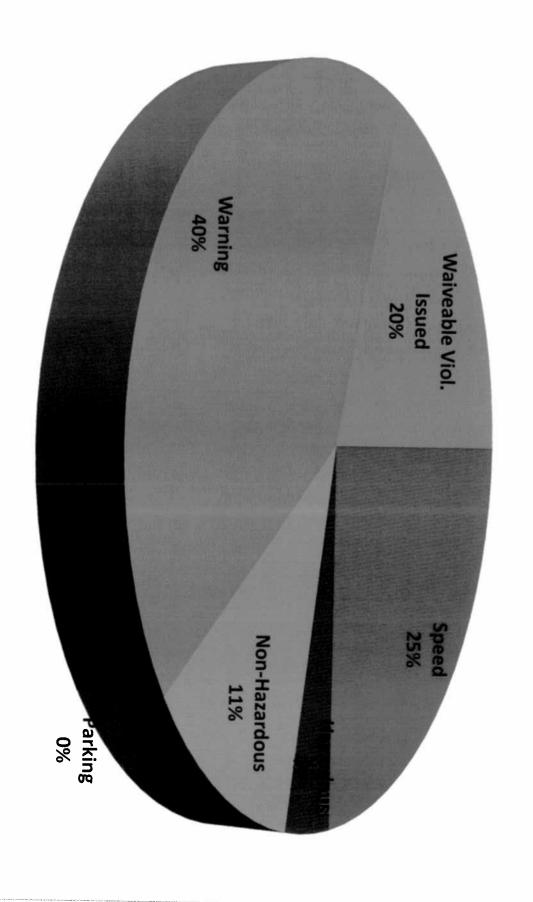
Clerk S. Hamilton – Security Awareness Training - LEIN

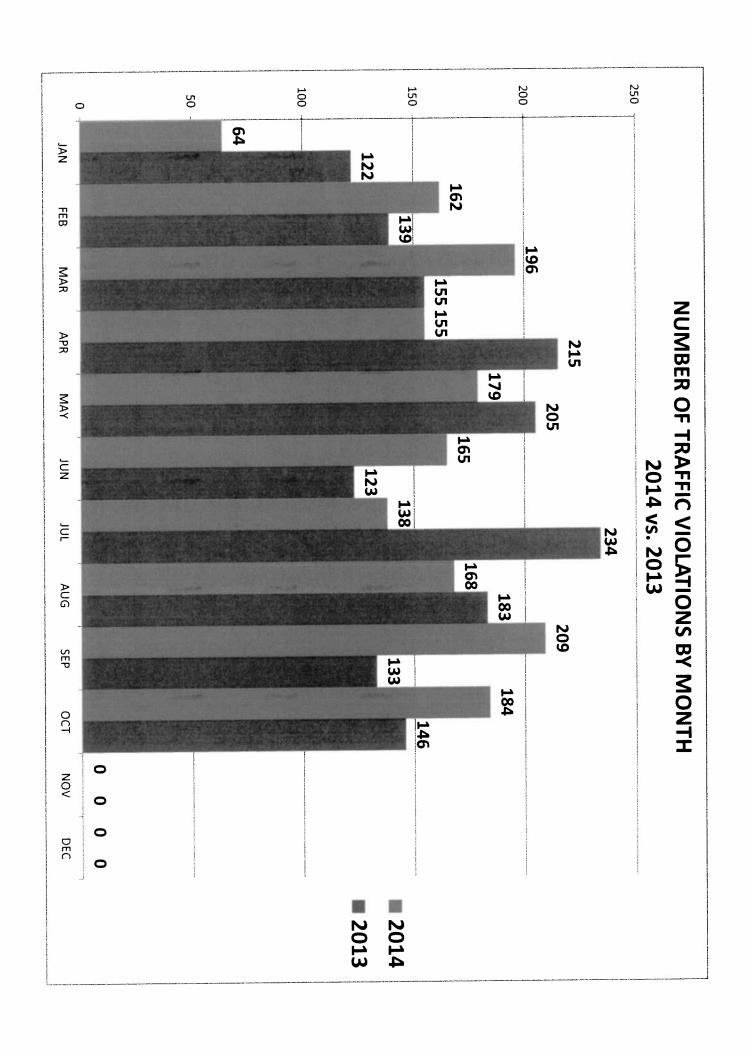
IN-SERVICE TRAINING

Firearms Qualifications
Firearms Standard for Active Duty Law Enforcement Officers



TRAFFIC VIOLATIONS ISSUED BY TYPE October 2014

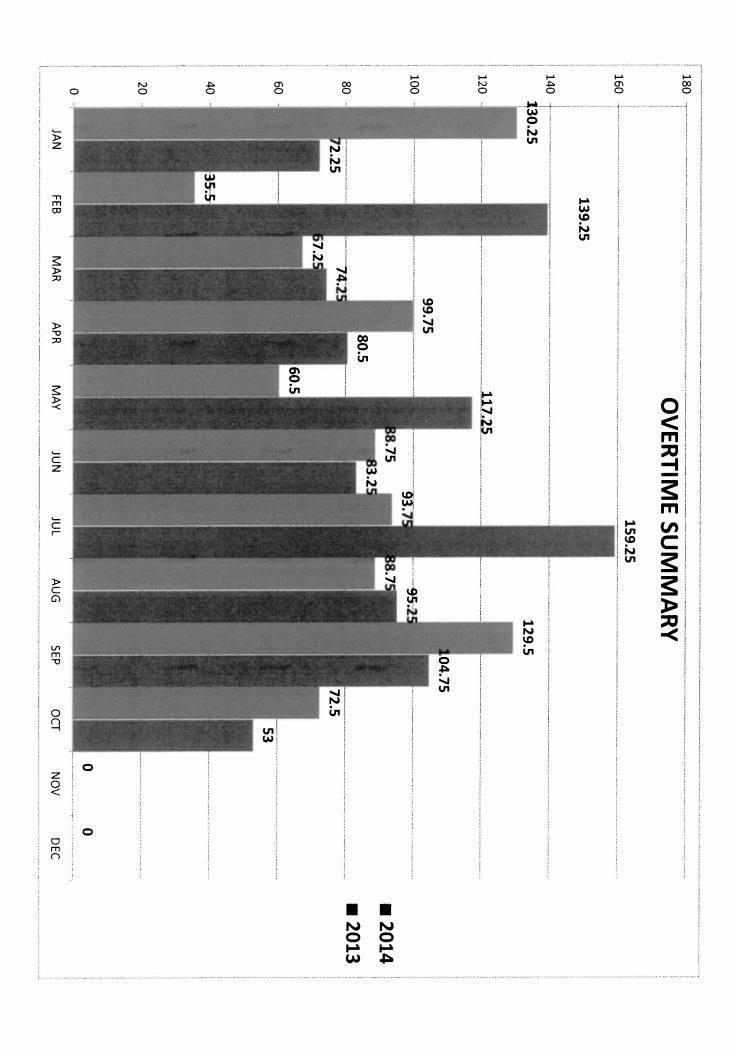




TRAFFIC VIOLATIONS SUMMARY

2014 Speed Hazardous	JAN 11 4	FEB 41 13	MAR 49 12	APR 53	(1, 2014) MAY 59 11	APR MAY JUN JUL AUG 53 59 49 22 39 8 11 2 15 15	DECEMB JUL 22			24	014 SEP 0 46 13	014 SEP 46 13	014 SEP OCT 46 46 13 7
Non-Hazardous	10	19	17	14	19	6	25	330	26			26	26
Parking	0	0	0	0	0	0	0	- 4	1	1 0	1	1	1
Warning	29	64	81	59	70	83	71	5000	61		98	98	98
Waiveable Viol. Issued	10	25	37	21	20	25	5			26 26	1	The second secon	37
TOTAL	2	163	106	155		C STATE OF THE PARTY OF THE PAR	138		26			26	45
Summer day.		707	130		1/9	165		00	***	****	26 26 168 209	26 26 168 209	168 209 184
2013		707		JANUARY	1, 2013 1	155 179 165 ANUARY 1, 2013 THROUGH		BE	26 168 BER 31, 2013	23	26 209 013	26 36 209 184 013	2b 3b 209 184 0
Speed	JAN	FEB	MAR	JANUARY	1, 2013 I	165 HROUGH JUN		B	26 168 BER 31, 2015 AUG	013	26 209 013 SEP (26 36 209 184 013 SEP OCT	26 36 209 184 0 013 SEP OCT NOV
Hazardous	JAN 25	FEB 25	MAR 27	JANUARY APR 62	1/9 1, 2013 1 MAY 74	165 HROUGH JUN 30		8	26 168 BER 31, 2013 AUG 51	013	26 209 013 SEP	26 36 209 184 013 SEP OCT N 19 39	26 36 209 184 0 013 SEP OCT NOV C
The Library of the li	JAN 25	FEB 725	MAR 27 8	JANUARN APR 62	1/9 1, 2013 MAY 74 7	165 'HROUGH JUN 30 9		E	26 168 BER 31, 2013 AUG 51	23	26 209 013 SEP 19	26 36 209 184 013 SEP OCT 19 39 5 15	26 36 209 184 0 013 SEP OCT NOV 19 39 5 15
Non-mazardous	JAN 25 10	FEB FEB 122	MAR 8	JANUARY APR 62 12	1/9 1, 2013 MAY 74 7 26	165 THROUGH JUN 30 9			26 168 IBER 31, 2011 AUG 51 16	- 8 -	26 209 013 SEP 19 5	26 36 209 184 013 SEP OCT 19 39 5 15 26	26 36 209 184 0 013 SEP OCT NOV 19 39 5 15 12 26
Parking	JAN 25 10 8	FEB 225 8	MAR 27 8	JANUARY APR 62 12 22	179 71, 2013 1 MAY 74 7 26	165 'HROUGH JUN 30 9 16			26 168 18ER 31, 2 AUG 51 16	23	26 209 013 SEP 19 5 12	26 36 209 184 013 SEP OCT 19 39 5 15 12 26 0 0	26 36 209 184 0 013 SEP OCT NOV 19 39 5 15 12 26 0 0
Parking Warning	JAN 25 10 8 0	FEB 25 8 114 1	MAR 27 8	JANUARN APR 62 12 22 21	179 1, 2013 MAY 74 7 26 1 1	165 THROUGH JUN 30 9 16 0			26 168 IBER 31, 2011 AUG 51 16 16 0	8 _	26 209 013 SEP 19 5 12 0	26 36 209 184 013 SEP OCT 19 39 5 15 12 26 0 0	26 36 209 184 0 013 SEP OCT NOV 19 39 5 15 12 26 0 0 87 49
Parking Warning Waiveable	JAN 25 10 8 0 69	FEB 255 8 114 1 770 21	MAR 27 8 15 0 0 86 19	JANUARY APR 62 12 22 21 103	179 (1, 2013 MAY	165 HROUGH JUN 30 9 16 0			26 168 BER 31, 2013 AUG 51 16 16 0 0	93	26 209 013 SEP 19 12 0	26 36 209 184 013 SEP OCT 19 39 5 15 10 0 87 49 10 17	26 36 209 184 0 013 SEP OCT NOV 19 39 5 15 12 26 0 0 87 49 10 17

Note: Waiveable citations are: Defective Equipment; No Operator's License on Person and No Registration



OVERTIME SUMMARY

TOTAL	Other	PTO	Holiday	Vacation	comp		Sick 2014			ZUI3 - IUIAL	2013 TOTAL	2014 - TOTAI				TOTAL	Holiday	Special Detail	Administrative	SHORT SHIRE	Short Shift	Training	Report Writing	Complaint Investigation	Court	2014	
203.5	12	44	48	46	9.5	44	JAN			72.25	130.25	JAN			C7.0CT	130 25	116	0	0	4	c		0	0.25	10	JAN	
117.25	0	61.75	10	0	9.5	36	FEB			139.25	35.5	FEB			33.3	30 0	0	0	0	12	0		0	0	23.5	FEB	
214.5	0 8	8	0	60	23.5	51	MAR			74.25	67.25	MAR			6/.25	3		0	0	28.25	0	0	,	0.75	38.25	MAR	
176.75	5	30	57	106	26.75	0	APR			80.5	99.75	APR			99.75	6		14.5	6	32.25	0	0	> 4	9	38	APR	NAME OF THE OWNER, OWNE
158.25	22	123	10	12	13.25	0	MAY	EMPLOYEE TIME OFF		117.25	60.5	MAY	20		60.5	-		0	0	16.5	4	0	, ,	٥	31	MAY	OVE
198	C.0CT		0	0	33.5	8	N	YEE TI		83.25	88.75	NOF	2013 VS. 2014		88.75	o	2.30	37 5	2.5	35	0	0	c	0 10,70	18 75	S S	OVERTIME BY TYPE
315.5	39.5	10	100	128	84	54	JUL	ME OF		159.25	93.75	JUL	114		93.75	36	34	34	0	1	6.5	3.75	C:5	27.	13	בי	TYPE
245	39	c		184	22	0	AUG	777		95 25	88.75	AUG			88.75	0	34		0	0	25.25	1	13.5	1	100	AHG	
189	153.5	10		0	23.5	2	SEP		101.10	104 75	129.5	SEP			129.5	2	5	ŀ	2.7	17.5	13	0	4	23.5	2017	SEB	
121.75	59.5	0	30	60	4.25	0	000		33	5	72.5	000			72.5	0	w	7	J (23	24.5	0	2	18	2	3	
0							VON		The second second		o ;	NON			0						ĺ				NOV		
0			1000			No. of Concession, Name of Street, or other Persons, or other Pers	DEC) ا	DEC		ĺ	0						ĺ			Section 1	DEC		
1927.5	795.75	93	594	249./5	340 3E	105	Y D		979	0.000	066 5	¥			866.5	216	123	13	2.69.5	150.25	73.75	4 75	39	228	YTD	Name and Address of the Owner, where	

RESERVE UNIT HOURS

within the state of the state o					RESERV	RESERVE HOURS BY TYPI	BY TYPE	respectable and have an a					
2014	JAN	FEB	MAR	APR	MAY	SON	JUL	AUG	SEP	OCT	VOV	DEC	YTD
Training	0	0	0	5	3	0	0	0	0	3			11
Patrol	23.5	20.5	16.5	23.75	17	44	0	31	7	∞			191.25
Crime Prevention	0	0	0	0	0	0	0	0	0	0		The second of the	0
Special Events	0	21	0	0	0	14	30	0	14	0			79
Administrative	0	0	0	0	0	0	0	0	0	2.5			2.5
TOTAL	23.5	41.5	16.5	28.75	20	58	30	31	21	13.5 0	0	0	0 283.75

JAMES E. COX NORTHFIELD TOWNSHIP WATER POLLUTION CONTROL FACILITY 11500 LEMEN ROAD WHITMORE LAKE MICHIGAN PHONE 734-449-4159 FAX 734-449-4302

	To:	Northfield Township Board of Trustees
	From:	Tim Hardesty Wastewater Treatment Plant Superintendent
	Date:	November 5th, 2014
	Subject:	October 2014 Monthly Report
10/1/14:	Continuing wit	h cleaning and televising of collection system.
10/3/14:	Replaced small	ferric chloride chemical feed pump on the south aeration tank.
10/3/14:	Ran generator on Saturday af	at Northshore #2 pump station because of power failure. Power returned ternoon.
10/8/14:	De-watered pr	mary tank #4 to re-align collector gears and chains.
10/9/14:	Sent the motor	for the intermediate tank scum pump to be re-wound.
10/14/14:	Sent John Whit	e to an electrical safety class in Dexter.
10/16/14:	The level contr station.	ol digital display board had to be replaced at the Eight Mile Rd pump
10/21/14:	Plugged sewer	call at 9107 Walnut Dr. The problem was in the homeowners' line.
10/23/14:	Pulled pump #2	2 at the Elmcrest pump station. There were rags in the pump.
10/23/14:	Replaced a blo	wn capacitor for pump #1 at the Nine Mile Rd. pump station.
10/29/14:	Call back for po	wer failure at Eagle Gardens pump station.

October 2014 Daily Average Flow	.619MGD
October 2013 Daily Average Flow	.586MGD
Maximum October Daily Flow 2014	.750MGD
Maximum October Daily Flow 2013	.695MGD
Minimum October Daily Flow 2014	.477MGD
Minimum October Daily Flow 2013	.484MGD
6 - Month Average Flow	.770MGD
12 – Month Average Flow	.742MGD
Total Gallons Treated October 2014	19.198 MG
Total Gallons Treated October 2013	18.174 MG
Rainfall (inches) October 2014	2.02"
Rainfall (inches) October 2013	2.30"
Connections / Tap-ins' to system	0
Miss Dig Staking's	8

Northfield Township Community Center Monthly Report October 2014 Tami Averill, Director

I. October Overview

October was a busy month, as we worked to add some new programs and a Halloween event.

Howard and I continued to work on the Parks and Recreation master plan.

Progress continues towards the Community Center becoming a site for Meals on Wheels and congregate lunches.

Planning for future programming and trips is ongoing. I am working to schedule more adult art classes and more family, children and teen programs.

A big thank you to our volunteers – Mary Cook, Damon Dotson, Dave Gonzales, Cindy Hogston, Betty Jones, Alyssa Jones, Fritz Nelson, Ann Thompson - for the assistance they gave to the Community Center in October. They have helped in the office, made recycled greeting cards, clipped coupons for the Troops, helped with building repairs, and much more!

II. Program Evaluation

a. **On Going Services**— Massage Therapy continues every Monday. Lynn has been maintaining a full schedule of four to six people per week.

We are currently looking for a Foot Care Specialist to replace Ava Passino. Ava retired in October. We miss her and wish her well!

The Medical Loan Closet continues to be available to the community. Three loans were made in October. We received donations of several walkers, crutches, a shower seat and a wheelchair. We are running low on wheelchairs and shower chairs, and are looking for donations.

The Regency is sending a Registered Nurse on the 2nd Tuesday of each month, between 12:45p.m. and 2:00p.m. to do blood pressure screenings for the community. Six people took advantage of the service in October.

b. Classes

Chair Yoga (7 participants/week) and Michigan Rehabilitation Senior Exercise (8-10 participants/week) continued.

Yoga for Beginners had 8 to 10 people attending each week.

Yoga for Kids class and Yoga for Parent & Child Yoga class did not have enough participants to run them in October. We will take a break in November and December, as we continue to recruit participants. They will be back on the schedule again in January.

Tai Chi is on hold until after the first of the year, due to a low sign up for the fall.

MAH fitness is back on Thursday afternoons with 3 participants. This session will end on Nov. 20, and will begin again in January.

Senior Exercise continues on Tuesday afternoons and Thursday mornings with 8-10 participants each week.

c. On-Going Activities

Pinochle continues every Tuesday and Thursday afternoon. Attendance has been consistent at 8 to 12 players per day each week.

Friday afternoon Euchre continues. Six people are currently participating.

The Knit, Crochet, Craft group continues to meet every Friday afternoon. 6 people attended during October. Basic knitting instruction is being given for anyone who would like to learn.

The Whitmore Lake Portrait Group remains steady with their participation. Eight to ten artists attend each week. The art gallery that showcases their art continues to be popular with our guests.

d. Special Events

"Karaoke Night at the Community Center," continues. Attendance was lower in October (10), but colder, wet weather may have contributed to that. The next sessions are November 7 and 14. Everyone is welcome to come join in the fun!

Six people attended Lunch and a Movie in October. Those who attended enjoyed a lunch of pizza, salads and dessert, and watched "Saving Mr. Banks."

The University of Michigan Flu Program nurses held a Flu Shot Clinic at the Center on October 17. Thirty people took advantage of the opportunity to get their flu and/or pneumonia shots.

Representative Gretchen Driskell held a Coffee Hour at the Center on October 24. Two people in addition to me attended.

We held an Old-fashioned Halloween Party on October 25. The event included Halloween crafts and activities from the past, a "Fortune Teller," a storyteller, dinner and Halloween movies. The event was on the online calendar, in the newsletter, on WLPS Peachjar page, in several local

newspapers and the MLive calendar. Flyers were distributed through town, in neighborhoods and during the Boo Bash at the High School. We had a number of people pre-registered, but only one person actually attended. We are evaluating and will be trying it again next year!

Kudos to those who worked so hard to put this event together!

Amber Barsegian, Annie & Bryan Bryske, Mary Cook, Mary & Tom Devlin, Damon Dotson, Dave Gonzales, Ruth Hague, Cindy Hogston, Alyssa Jones, Betty Jones, Marikay Molnar, Fritz Nelson, Jacqueline & Jerry Otto, Donn Sleek, Miranda Smith, and Ann Thompson. They were a huge help and their efforts were truly appreciated! We enjoyed an evening of storytelling, good food, great conversation and some classic Halloween movies on our own!

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014

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0/0
Fiscal
Year
Completed:
33.70

Dept 666-COMMUNITY 101-666-590 101-666-643 101-666-649 101-666-676	Total Dept 412-PI	Dept 412-PLANNING 101-412-477 101-412-607 101-412-608 101-412-629 101-412-637	Total Dept 336-Co	Dept 336-CONTRIBUTIONS 101-336-624 DD 101-336-625 SEV	Total Dept 253-T	Dept 253-TREASURER 101-253-402 101-253-404 101-253-445 101-253-627 101-253-680	Total Dept 191-E	Dept 191-ELECTIONS 101-191-671	Total Dept 000	Fund 101 - GENERAL Revenues Dept 000 101-000-426 101-000-452 101-000-453 101-000-574 101-000-590 101-000-626 101-000-626 101-000-671 101-000-675 101-000-675 101-000-675	JMBER
TY CENTER GRANT INCOME SCC TRIPS/PROGRAMS SCC MEMBERSHIP CONTRIBUTIONS - SCC	412-PLANNING/ZONING DEPT	412-PLANNING/ZONING DEPT 112-477 ZONING COMPLIANCE PERMITS 112-607 ZONING ADMINISTRATIVE FEES 112-608 VARIANCES/APPEALS 112-629 ZONING COPIES 112-637 SPLIT APPLICATIONS	336-CONTRIBUTIONS	JTIONS DDA SEWER ADMINISTRATION	253-TREASURER	CURRENT PROPERTY TAX MOBILE HOME LICENSE FEES PENALTY & INTEREST ON TAXES SUMMER TAX PREPARATION TAX ADMINISTRATION FEES	191-ELECTIONS	NS REIMBURSEMENT/OTHER INCOME		PRIOR YEAR TAX INTEREST PEDDLER'S LICENSES CABLEVISION FRANCHISE FEES FIBER FOOTAGE FEES STATE SHARED REVENUE GRANT INCOME COPY & FOIA INCOME INTEREST INCOME REIMBURSEMENT/OTHER INCOME CONTRIBUTION-PRIVATE SOURCES RENTAL INCOME - BARKER RD UNREALIZED GAIN/LOSS	1
2,550.00 15,440.75 1,363.07 580.00	15,133.11	10,400.00 500.00 2,118.11 15.00 2,100.00	61,790.00	22,790.00 39,000.00	402,575.31	252,329.33 3,138.50 150.97 13,480.00 133,476.51	2,312.01	2,312.01	927,376.77	343.84 85.00 92,534.67 8,586.20 618,499.00 232,325.95 269.01 1,918.69 1,019.06 9,960.00 (38,173.65)	END BALANCE 06/30/2014
0.00 25,000.00 0.00 500.00	5,550.00	3,000.00 0.00 2,000.00 50.00	63,969.00	20,000.00 43,969.00	407,540.00	256,700.00 2,850.00 500.00 13,490.00 134,000.00	0.00	0.00	1,008,410.00	0.00 85,000.00 9,250.00 650,000.00 250,000.00 1,500.00 650.00 1,760.00 11,760.00	LANCE AMENDED AMENDED /2014
0.00 2,543.25 0.00 595.25	2,225.00	1,900.00 0.00 325.00 0.00	0.00	0.00	43,124.86	0.00 241.00 0.00 0.00 42,883.86	0.00	0.00	4,086.00	0.00 50.00 74.17 0.00 0.00 0.00 55.00 (113.75) 400.58 0.00 3,620.00	YTD BALANCE 10/31/2014
0.00 887.00 0.00 430.25	100.00	100. 0.00 0.00 0.00	0.00	0.00	4,853.24	0.00 0.00 0.00 0.00 0.00 4,853.24	0.00	0.00	1,389.75	0.00 50.00 74.17 0.00 0.00 0.00 0.00 0.00 285.58 0.00 980.00	ACTIVITY FOR MONTH 10/31/2014
0.00 22,456.75 0.00 (95.25)	3,325.00	1,100.00 0.00 1,675.00 500.00	63,969.00	20,000.00 43,969.00	364,415.14	256,700.00 2,609.00 500.00 13,490.00 91,116.14	0.00	0.00	1,004,324.00	0.00 (50.00) 84,925.83 9,250.00 650,000.00 195.00 1,613.75 249.42 0.00 8,140.00	AVAILABLE BALANCE
0.00 10.17 0.00 119.05	40.09	63.33 0.00 16.25 0.00	0.00	0.00	10.58	0.00 0.46 0.00 0.00	0.00	0.00	0.41	0.00 100.00 0.09 0.00 0.00 0.00 0.00 (7.58) 61.63 0.00	% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70 2014-15

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Dept 257-ASSESSING 101-257-709 101-257-713 101-257-715 101-257-716 101-257-717 101-257-718 101-257-727 101-257-727 101-257-807 101-257-818 101-257-818 101-257-851 101-257-860 101-257-860 101-257-957	Total Dept 253-TR	101-253-804 101-253-807 101-253-857 101-253-851 101-253-860 101-253-927 101-253-956 101-253-956	Dept 253-TREASURER 101-253-701 101-253-703 101-253-716 101-253-716 101-253-717 101-253-718	Total Dept 247-BOARD	Dept 247-BOARD OF 101-247-706 101-247-715 101-247-900 101-247-959	Total Dept 215-CLERK	Fund 101 - GENERAL Expenditures 101-215-701 101-215-703 101-215-715 101-215-722 101-215-723 101-215-807 101-215-807 101-215-860 101-215-922 101-215-957	GL NUMBER
G ASST ASSESSOR ASSESSOR SOCIAL SECURITY HOSPITALIZATION LIFE/DISB. INSURANCE PENSION BANKED PTO SUPPLIES MEMBERSHIP DUES CONTRACTUAL SERVICES POSTAGE FUEL & MILEAGE TRAINING & DEVELOPMENT	253-TREASURER	LEGAL TAX STATEMENT PREPARATION MEMBERSHIP DUES POSTAGE FUEL & MILEAGE ALLOCATE TO DEPARTMENTS MISCELLANEOUS TRAINING & DEVELOPMENT		ARD OF REVIEW	REVIEW BOARD OF REVIEW FEE SOCIAL SECURITY PRINTING & PUBLICATIONS TRIBUNALS AND DRAINS	ERK	SALARIES SALARIES DEPUTY SALARIES SOCIAL SECURITY CONTROLLER RECORD SEC MEMBERSHIP DUES FUEL & MILEAGE LATE FEES AND PENALTIES TRAINING & DEVELOPMENT	DESCRIPTION
4,563.75 62,884.44 5,159.69 7,912.52 905.04 6,138.26 (1,654.79) 1,002.69 290.00 235.00 1,513.40 818.24 510.00	89,655.87	6,000.00 1,248.09 1,00.00 3,243.42 127.11 (14,794.00) 376.75 0.00	12,499.76 45,292.80 19,254.97 5,894.25 5,784.07 541.25	3,931.80	1,356.00 103.74 506.00 1,966.06	53,963.09	16,484.71 28,517.58 3,442.67 0.00 4,767.50 0.00 101.79 360.94 287.90	END BALANCE 06/30/2014
25,710.00 63,283.00 6,810.00 14,875.00 810.00 6,328.00 1,000.00 450.00 1,000.00 1,000.00 1,000.00	86,319.00	6,000.00 2,000.00 130.00 3,400.00 200.00 (19,544.00) 500.00 2,000.00	12,500.00 42,230.00 19,425.00 5,675.00 7,050.00 4,223.00	22,953.00	2,000.00 153.00 800.00 20,000.00	57,065.00	12,500.00 32,130.00 3,415.00 0,00 7,720.00 100.00 200.00 1,000.00	2014-15 AMENDED BUDGET
6,892.78 25,597.70 955.51 2,372.61 336.00 236.30 0.00 77.00 0.00 119.84 119.84	39,940.06	2,000.00 2,195.17 0.00 1,749.42 36.06 0.00 1,180.22 0.00	4,326.84 15,158.84 7,692.29 2,079.09 1,877.83 192.00 1,452.30	96.89	90.00 6.89 0.00	20,034.96	3,365.32 13,024.00 1,158.87 94.91 2,287.50 00 11.20 93.16	YTD BALANCE 10/31/2014
2,730.79 8,234.63 456.35 0.00 134.40 0.00 52.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00	12,233.54	500.00 0.00 100.00 36.06 0.00 615.00	1,442.28 4,895.53 2,845.64 720.29 514.68 76.80 487.26	0.00	0.000	8,636.37	1,442.28 4,368.88 4444.55 2,287.50 0.00 93.16	ACTIVITY FOR MONTH 10/31/2014
18,817.22 37,685.30 5,854.49 12,502.39 474.00 6,091.70 0.00 923.00 450.00 (545.00) 2,380.00 500.00	46,378.94	4,000.00 (195.17) 130.00 1,650.58 163.94 (19,544.00) (680.22) 2,000.00	J (4) H (B J O H	22,856.11	1,910.00 146.11 800.00 20,000.00	37,030.04	9,134.68 19,106.00 2,256.13 (94.91) 5,432.50 188.80 (93.16) 1,000.00	AVAILABLE BALANCE
26.81 40.45 14.03 15.95 41.48 3.73 0.00 7.70 0.00 1.00 0.00 1.00 0.00 0.00	46.27	33.33 109.76 51.45 18.03 0.00	34. 35.90 35.60 36.60 34.60 34.23	0.42	4.50 4.50 0.00	35.11	26.92 40.54 33.93 100.00 29.63 0.00 5.60 100.00	% BDGT

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70 2014-15

Total Dept 191-ELECTIONS	Dept 191-ELECTIONS 101-191-704 CLERICAL/DEP /SUPER/ELECTION 101-191-727 SUPPLIES 101-191-818 CONTRACTUAL SERVICES 101-191-851 POSTAGE 101-191-900 PRINTING & PUBLICATIONS	Total Dept 172-TOWNSHIP MANAGER	Dept 172-TOWNSHIP MANAGER 101-172-701 SALARIES 101-172-704 CLERICAL/DEP /SUPER/ELECTION 101-172-715 SOCIAL SECURITY 101-172-716 HOSPITALIZATION 101-172-717 LIFE/DISB. INSURANCE 101-172-718 PENSION 101-172-818 CONTROLLER 101-172-850 COMMUNICATION 101-172-850 FUEL & MILEAGE 101-172-870 ALLOCATE TO DEPARTMENTS 101-172-927 TRAINING & DEVELOPMENT	Total Dept 171-SUPERVISOR	Dept 171-SUPERVISOR 101-171-701	Total Dept 101-TOWNSHIP BOARD	Expenditures Dept 101-TOWNSHIP BOARD 101-101-701 SALARIES 101-101-715 SOCIAL SECURITY 101-101-807 MEMBERSHIP DUES 101-101-900 PRINTING & PUBLICATIONS 101-101-957 TRAINING & DEVELOPMENT	TOTAL Revenues	Total Dept 666-COMMUNITY CENTER	Fund 101 - GENERAL FUND Revenues	GL NUMBER DESCRIPTION
3,276.92	1,400.36 1,442.36 0.00 200.00 234.20	155,202.44	77,062.94 11,228.00 10,825.04 13,081.82 1,022.10 7,699.62 53,212.80 9,958.26 847.62 275.77 (30,863.00) 851.47	12,549.86	12,499.76 50.10 0.00 0.00 0.00 0.00	25,458.96	8,958.19 685.32 8,230.51 7,346.94 238.00	1,429,121.02	19,933.82		END BALANCE 06/30/2014
19,150.00	6,500.00 2,650.00 7,000.00 1,000.00 2,000.00	170,666.00	77,000.00 26,625.00 12,125.00 14,505.00 975.00 7,700.00 54,850.00 10,000.00 1,000.00 1,000.00 1,000.00 2,000.00	14,877.00	12,500.00 957.00 120.00 200.00 100.00 1,000.00	29,765.00	10,000.00 765.00 10,500.00 6,500.00 2,000.00	1,510,969.00	25,500.00		2014-15 AMENDED BUDGET
6,678.98	3,066.00 1,572.89 910.00 0.00 1,130.09	70,670.85	26,653.86 8,829.50 4,024.51 6,197.37 406.45 2,665.26 17,124.64 4,617.01 152.25 0.00 0.00 0.00	4,047.56	4,326.84 (279.28) 0.00 0.00 0.00 0.00	11,225.15	1,874.97 143.44 8,101.68 1,105.06	52,574.36	3,138.50		YTD BALANCE 10/31/2014
787.47	0.00 438.38 0.00 0.00 349.09	24,616.10	8,884.62 2,932.00 1,360.89 1,162.58 162.58 888.42 5,972.82 3,547.01 50.32 0.00 0.00	1,331.55	1,442.28 (110.73) 0.00 0.00 0.00 0.00	2,319.84	1,874.97 143.44 0.00 301.43 0.00	7,660.24	1,317.25		ACTIVITY FOR MONTH 10/31/2014
12,471.02	3,434.00 1,077.11 6,090.00 1,000.00 869.91	99,995.15	50,346.14 17,795.50 8,100.49 8,307.63 568.55 5,034.74 37,725.36 5,382.99 847.75 1,000.00 (37,114.00) 2,000.00	10,829.44	8,173.16 1,236.28 120.00 200.00 1,000.00	18,539.85	8,125.03 621.56 2,398.32 5,394.94 2,000.00	1,458,394.64	22,361.50		AVAILABLE BALANCE
34.88	47.17 59.35 13.00 0.00 56.50	41.41	33.16 33.16 42.73 41.69 31.22 15.17 15.17	27.21	34.61 (29.18) 0.00 0.00 0.00 0.00	37.71	18.75 18.75 77.16 17.00	3.48	12.31		% BDGT USED

Dept 215-CLERK

11/06/2014 01:42 PM

DB: Northfield User: RICK

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

Fiscal Year Completed: 33.70 PERIOD ENDING 10/31/2014

1771		10/31/2014	10/31/2014	BUDGET	U6/3U/2U14	000000000000000000000000000000000000000	ţ	
% BD0	AVAILABLE	10/31/201/ MONTH	10/31/2014	BUDGET	06/30/2014	DESCRIPTION	DE	GL NUMBER
		ACTIVITY FOR		ZUL4-15	FUD BATANCE			

101-412-803 101-412-809 101-412-851 101-412-707 101-412-715 101-412-723 101-412-723 101-412-727 101-412-727 101-270-803 101-270-806 101-270-927 101-265-851 101-265-910 101-265-920 101-265-930 101-265-938 101-265-938 101-265-710 101-265-715 101-265-716 101-265-721 101-265-727 101-412-900 101-412-860 101-336-933 E 7 0 101-412-801 Dept 412-PLANNING/ZONING DEPT Total Dept 336-CONTRIBUTIONS Dept 336-CONTRIBUTIONS Dept 270-LEGAL/PROFESSIONAL 101-336-964 Total Dept 270-LEGAL/PROFESSIONAI 101-270-802 101-270-800 Total Dept 265-HALL AND GROUNDS 101-265-731 101-265-850 101-265-821 101-265-816 Total Dept 257-ASSESSING 101-265-956 Dept 265-HALL AND GROUNDS PRINTING & PUBLICATIONS FUEL & MILEAGE POSTAGE CODE ENFORCEMENT LEGAL PLANNER FEES OTHER PROFESSIONAL SUPPLIES RECORD SEC SOCIAL SECURITY CONTRIBUTION-FIRE & MED RES CONTRIBUTION - INDEPENDENCE DAY CELEBRA ALLOCATE TO DEPARTMENTS OTHER PROFESSIONAL FEES ALLOCATE TO DEPARTMENTS PLANN COMM ZBA SALARIES ENGINEER LEGAL AUDIT FEES MISCELLANEOUS RENTAL EQUIPMENT CHARGEBACKS - PRIOR TAX YEARS COMMUNICATION GROUNDS/CLEANG/JANITORL SERVIC REPAIRS & MAINTENANCE UTILITIES PSB MAINT & OPS ALLOCATION WORKERS COMP INSURANCE UNEMPLOYMENT BENEFITS HOSPITALIZATION SOCIAL SECURITY INSURANCE & BONDS POSTAGE JANITORIAL SALARIES FEES 91,441.61 3,466.25 (45,600.00) 2,000.00 32,866.00 10,285.27 4,708.08 26,016.37 432.04 160,074.05 4,574.40 52,442.00 96.00 3,712.62 7,397.00 34,101.06 56.03 11,467.51 10,068.10 11,100.00 948.60 5,107.50 54,307.86 34,866.00 23,890.71 15,640.20 4,720.00 5,280.00 403.92 196.75 90,278.24 1,300.00 4,500.00 3,533.59 961.00 500.00 186.18 76.49 0.00 0.00 4,500.00 96,000.00 10,000.00 (45,600.00) 30,000.00 5,000.00 15,000.00 141,679.00 2,500.00 25,000.00 49,934.00 8,280.00 5,500.00 30,700.00 1,500.00 17,800.00 2,000.00 4,300.00 123,766.00 11,000.00 3,000.00 1,071.00 6,720.00 27,500.00 1,500.00 6,948.00 65,400.00 5,000.00 9,000.00 1,155.00 4,800.00 1,800.00 6,000.00 460.00 500.00 200.00 500.00 250.00 0.00 0.00 0.00 4,500.00 27,568.51 1,224.00 (15,200.00) 10,761.86 2,539.35 1,199.33 3,539.50 8,768.79 0.00 5,469.16 1,000.00 18,092.51 23,387.68 37,632.74 1,892.50 1,900.00 2,299.49 1,385.00 2,413.40 1,840.00 121.60 763.37 119.90 678.59 140.76 10.00 6.49 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,627.00 5,203.79 0.00 4,500.00 8,139.52 11,681.30 (3,800.00 1,370.00 1,892.50 8,839.52 4,689.30 1,024.33 400.00 114.00 690.53 461.49 675.99 326.36 30.60 875.00 480.00 0.00 0.00 0.00 0.00 6.49 0.00 4.88 0.00 36.72 0.00 0.00 0.00 0.00 0.00 21,231.21 5,000.00 9,530.84 68,431.49 8,776.00 6,586.60 1,155.00 3,415.00 49,934.00 5,980.51 4,821.41 30,700.00 1,380.10 7,038.14 2,500.00 25,000.00 1,678.40 (30,400.00)118,291.32 27,500.00 47,307.49 4,827.50 9,100.00 86,133.26 1,460.50 3,100.67 240.00 6,948.00 2,000.00 4,160.00 (539.35) 493.51 849,15 500.00 200.00 319.24 0.00 0.00 126.97 27.89 0.00 70.79 29.23 0.00 36.46 1.30 6.76 50.89 33.33 20.71 28.16 17.27 27.66 100.00 28.72 12.24 33.33 30.67 30.60 0.00 0.00 26.82 0.00 28.85 27.77 12.34 7.99 16.51 60.46 0.00 30.41 4.00 JSED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP
PERIOD ENDING 10/31/2014
% Fiscal Year Completed: 33.70
END BALANCE AMENDED YTD BALAN
TO THE POWNSHIP TO TOWNSHIP TO TOWNSHIP TO TOWNSHIP TOWNSHIP TO TOWNSHIP TOWNS

ACTIVITY FOR MONTH

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Total Dept 900	Dept 900-CAPITAL 101-900-972 101-900-978	Total Dept 850	Dept 850-TOWNSHIP 101-850-905	Total Dept 666	101-666-900 101-666-910 101-666-920 101-666-929 101-666-930 101-666-970	101-666-807 101-666-812 101-666-816 101-666-850 101-666-851	101-666-718 101-666-727 101-666-731	Dept 666-COMMUNITY 101-666-701 101-666-715 101-666-716	Total Dept 449-ROAD	Dept 449-ROAD W 101-449-813 101-449-814 101-449-929	Total Dept 448-	Dept 448-STREET 101-448-920	Total Dept 412-	Fund 101 - GENERAL Expenditures 101-412-957	GL NUMBER
900-CAPITAL OUTLAY	AL OUTLAY COMPUTER LAND ACQUISITION	850-TOWNSHIP CONTINGENCY	HIP CONTINGENCY FUNDS	666-COMMUNITY CENTER	PRINTING & PUBLICATIONS INSURANCE & BONDS UTILITIES GRANT EXPENSE REPAIRS & MAINTENANCE EQUIPMENT	SCC TRIPS/PROGRAMS GROUNDS/CLEANG/JANITORL SERVIC COMMUNICATION POSTAGE	PENSION SUPPLIES WORKERS COMP INSURANCE	ITY CENTER SALARIES SOCIAL SECURITY HOSPITALIZATION LIFE/DISB. INSURANCE	ROAD WORK	WORK ROADWORK ROAD IMPROVEMENTS GRANT EXPENSE	-STREET LIGHTS	LIGHTS UTILITIES	12-PLANNING/ZONING DEPT	TRAINING & DEVELOPMENT	DESCRIPTION
17,864.38	16,259.38 1,605.00	500.00	500.00	76,734.37	1,070.00 1,070.00 2,538.34 1,789.98 2,207.22 105.47	18,131.28 7,434.20 2,256.47 660.48	3,140.22 1,481.10 250.00 295.00	26,894.79 2,057.42 6,021.28 401.12	295,518.42	18,435.73 44,756.74 232,325.95	35,700.37	35,700.37	79,197.15	569.78	END BALANCE 06/30/2014
16,000.00	11,500.00 4,500.00	10,000.00	10,000.00	100,005.00	1,900.00 4,500.00 0.00 4,300.00 4,300.00	22,500.00 8,225.00 2,300.00 1,050.00	3,750.00 1,800.00 270.00 220.00	37,500.00 2,870.00 6,895.00 525.00	380,500.00	30,000.00 100,500.00 250,000.00	37,020.00	37,020.00	91,739.00	4,000.00	2014-15 AMENDED BUDGET
97,082.58	0.00 97,082.58	0.00	0.00	27,536.83	0.00 566.64 0.00 1,813.12 0.00	5,265.61 1,190.00 984.42 175.00	1,282.58 395.86 0.00	12,903.78 987.17 1,754.25	77,604.43	4,072.63 73,531.80 0.00	8,748.63	8,748.63	24,308.26	625.00	YTD BALANCE 10/31/2014
2,500.00	2,500.00	0.00	0.00	10,168.79	157.98 0.00 1,542.71 0.00	2,054.07 200.00 310.65 175.00	209.84 0.00 0.00	4,326.90 331.02 340.60 87.36	0.00	0.00	2,916.21	2,916.21	11,530.38	0,00	ACTIVITY FOR MONTH 10/31/2014
(81,082.58)	11,500.00 (92,582.58)	10,000.00	10,000.00	72,468.17	1,900.00 3,933.36 0.00 2,486.88 400.00	1,234.39 7,035.00 1,315.58 875.00 1,000.00	1,404.14 270.00 220.00	24,596.22 1,882.83 5,140.75 306.60	302,895.57	25,927.37 26,968.20 250,000.00	28,271.37	28,271.37	67,430.74	3,375.00	AVAILABLE BALANCE
606.77	0.00	0.00	0.00	27.54	0.00 12.59 0.00 42.17 0.00	14.47 42.80 16.67	21.99	34.41 34.40 25.44 41.60	20.40	13.58 73.17 0.00	23.63	23.63	26.50	15.63	% BDGT USED

Dept 905-DEBT SERVICE

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REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP
PERIOD ENDING 10/31/2014

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GL NUMBER DESC	DESCRIPTION AL FUND	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014		AVAILABLE BALANCE
Expenditures 101-905-985	PSB SHARE OF BOND PMT	87,417.29	85,225.00	0.00		0.00	0.00 85,225.00
Total Dept 905-DEBT SERVICE	EBT SERVICE	87,417.29	85,225.00	0.00		0.00	0.00 85,225.00
TOTAL Expenditures	Φ.	1,276,497.07	1,479,629.00	467,088.11		102,250.37	102,250.37 1,012,540.89
Fund 101 - GENERAL FUND: TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDIT	Fund 101 - GENERAL FUND: TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES - 2013-14	1,429,121.02 1,276,497.07	1,510,969.00 1,479,629.00	52,574.36 467,088.11 152,623.95		7,660.24 102,250.37	7,660.24 1,458,394.64 102,250.37 1,012,540.89
NET OF REVENUES & EXPENDITURES BEG. FUND BALANCE END FUND BALANCE	& EXPENDITURES E	152,623.95 1,396,753.84 1,549,377.79	31,340.00 1,396,753.84 1,428,093.84	(414,513.75) 1,396,753.84 1,134,864.04		(94,590.13)	

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 Fiscal Year Completed: 33.70

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Total Dept 265-HALL	Dept 265-HALL AND 207-265-821	Total Dept 226-PERSONNEL	Expenditures Dept 226-PERSONNEL 207-226-701 207-226-704 207-226-710 207-226-711 207-226-714 207-226-715 207-226-715 207-226-717 207-226-718 207-226-719 207-226-719 207-226-731 207-226-731 207-226-731 207-226-741 207-226-741 207-226-741 207-226-741 207-226-741 207-226-957	TOTAL Revenues	Total Dept 336-CO	Dept 336-CONTRIBUTIONS 207-336-588 CON 207-336-683 CON	Total Dept 000	Fund 207 - LAW ENI Revenues Dept 000 207-000-445 207-000-590 207-000-656 207-000-658 207-000-658 207-000-671 207-000-673 207-000-681	GL NUMBER
L AND GROUNDS	GROUNDS PSB MAINT & OPS ALLOCATION	RSONNEL	SALARIES SALARIES CLERICAL/DEP /SUPER/ELECTION SALARIES-PART TIME JANITORIAL SALARIES SALARIES-OVERTIME HOLLDAY SOCIAL SECURITY HOSPITALIZATION LIFE/DISB. INSURANCE PENSION EMPLOYEE FRINGE-LONGEVITY BANKED PTO MEDICAL TESTING WORKERS COMP INSURANCE UNIFORMS/GEAR & ALLOWANCE ALLOCATE TO DEPARTMENTS TRAINING & DEVELOPMENT	ı	336-CONTRIBUTIONS	CONTRIBUTION OTHER FUND(S) CONTRIBUTION - INDEPENDENCE DAY CELEBRA		ENFORCEMENT FUND CURRENT PROPERTY TAX PENALTY & INTEREST ON TAXES LIQUOR LICENSE & PERMITS GRANT INCOME COPY & FOIA INCOME FINES & COURT FEES IMPOUND FEES FEES PAID FOR OFFICER WAGES REIMBURSEMENT/OTHER INCOME SALE OF FIXED ASSET CONTRIBUTION-PRIVATE SOURCES OT REIMBURSEMENT	DESCRIPTION
52,441.00	52,441.00	940,295.07	187,203.98 364,740.09 60,904.85 22,915.85 4,240.00 58,941.16 31.837.50 57,592.99 129,914.66 8,404.74 57,505.86 4,800.00 (119,213.11) 712.50 7,536.00 54,568.00	1,457,357.53	36,000.00	35,000.00 1,000.00	1,421,357.53	1,357,583.69 726.06 2,605.35 0.00 2,030.50 28,074.67 2,120.00 3,671.00 3,714.25 3,986.00 16,846.01	END BALANCE 06/30/2014
49,933.00	49,933.00	1,112,294.00	193,211.00 376,420.00 67,717.00 36,500.00 36,500.00 38,500.00 38,700.00 156,015.00 60,884.00 5,400.00 5,400.00 10,130.00 56,771.00 56,771.00	1,482,146.00	37,500.00	36,000.00 1,500.00	1,444,646.00	1,380,946.00 0.00 3,000.00 1,500.00 2,000.00 6,000.00 3,000.00 17,000.00	2014-15 AMENDED BUDGET
0.00	0.00	351,747.14	71,619.58 142,005.32 22,221.47 13,675.76 2,720.00 14,721.24 0.00 20,422.69 39,586.73 3,261.85 21,512.50 0.00 0.00 0.00 0.00 0.00 0.00	19,485.06	0.00	0.00	19,485.06	0.00 0.00 2,565.75 0.00 658.50 6,265.05 780.00 6,298.12 944.00 460.00 1,513.64	YTD BALANCE 10/31/2014
0.00	0.00	108,809.71	25,607.93 44,432.18 7,468.60 3,799.34 640.00 3,737.75 0.00 6,554.96 8,182.23 1,304.74 7,081.98 0.00 0.00 0.00 0.00 0.00	5,369.20	0.00	0.00	5,369.20	0.00 0.00 0.00 0.00 0.00 93.00 2,628.16 0.00 2,205.04 443.00 0.00	ACTIVITY FOR MONTH
49,933.00	49,933.00	760,546.86	121,591.42 234,414.68 45,495.53 22,824.24 2,280.00 21,778.76 33,920.00 37,762.31 116,428.27 5,479.15 39,371.50 5,400.00 00 5,400.00 00 5,900.00 5,900.00 56,771.00 56,771.00	1,462,660.94	37,500.00	36,000.00 1,500.00	1,425,160.94	1,380,946.00 0.00 434.25 1,000.00 841.50 23,734.95 1,220.00 (298.12) 2,056.00 (460.00) 200.00 15,486.36	AVAILABLE BALANCE
0.00	0.00	31.62	37.07 37.73 37.47 54.40 40.33 0.00 35.37 37.32 37.32 0.00 0.00 0.00 0.00	1.31	0.00	0.00	1.35	0.00 0.00 85.53 0.00 43.90 20.88 39.00 104.97 100.00	% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70

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GL NUMBER DESCRIPTION	END BALANCE 06/30/2014	AMENDED BUDGET	YTD BALANCE 10/31/2014	MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 207 - LAW ENFORCEMENT FUND Expenditures						
Dept 270-LEGAL/PROFESSIONAL 207-270-722 CONTROLLER 207-270-802 AUDIT FEES 207-270-803 LEGAL	7,982.00 3,060.00 39,700.00	8,227.00 3,060.00 40,000.00	0.00 3,060.00 13,200.00	0.00 3,060.00 3,300.00	8,227.00 0.00 26,800.00	0.00
Total Dept 270-LEGAL/PROFESSIONAL	50,742.00	51,287.00	16,260.00	6,360.00	35,027.00	31.70
Dept 301-OPERATING COSTS 207-301-727 SUPPLIES 207-301-741 UNIFORMS/GEAR & ALLOWANCE 207-301-807 MEMBERSHIP DUES 207-301-818 CONTRACTUAL SERVICES 207-301-820 DISPATCH SERVICES 207-301-850 COMMINICATION	4,397.38 2,672.67 1,746.10 17,547.00 63,346.92 16,931.74	4,000.00 1,000.00 2,000.00 19,000.00 68,000.00 22,000.00	1,520.26 58.29 400.00 3,638.00 21,115.64 4,101.20	371.34 0.00 0.00 3,638.00 5,278.91 2,274.87	2,479.74 941.71 1,600.00 15,362.00 46,884.36 17,898.80	38.01 5.83 20.00 19.15
	136.90 263.18 20,675.00 0.00 3,849.66	200.00 500.00 17,513.00 1,000.00 4,000.00	100.00 31.93 0.00 0.00 142.11 0.00	100.00 0.00 0.00 0.00	100.00 468.07 17,513.00 1,000.00 3,857.89 1,100.00	0.000
207-301-938 CHARGEBACKS - PRIOR TAX YEARS 207-301-940 RENTAL EQUIPMENT 207-301-972 COMPUTER	74,884.75 1,319.34 2,608.35	0.00 2,300.00 2,300.00	7,575.14 547.14 800.00	1,660.67 114.91 200.00	(/,5/5.14) 1,752.86 1,500.00	23.79
Total Dept 301-OPERATING COSTS	211,478.99	144,913.00	40,029.71	13,638.70	104,883.29	27.62
Dept 333-TRANSPORTATION 207-333-860 FUEL & MILEAGE 207-333-930 REPAIRS & MAINTENANCE	29,483.23 10,834.20	25,000.00 11,000.00	6,663.92 5,928.38	2,468.13 162.06	18,336.08 5,071.62	26.66 53.89
Total Dept 333-TRANSPORTATION	40,317.43	36,000.00	12,592.30	2,630.19	23,407.70	34.98
Dept 336-CONTRIBUTIONS 207-336-964 CONTRIBUTION-FIRE & MED RES	7,867.00	0.00	0.00	0.00	0.00	0.00
Total Dept 336-CONTRIBUTIONS	7,867.00	0.00	0.00	0.00	0.00	0.00
Dept 900-CAPITAL OUTLAY 207-900-970 EQUIPMENT 207-900-972 COMPUTER	0.00 371.30	1,500.00	0.00	0.00	1,500.00 500.00	0.00
Total Dept 900-CAPITAL OUTLAY	371.30	2,000.00	0.00	0.00	2,000.00	0.00
Dept 905-DEBT SERVICE 207-905-985 PSB SHARE OF BOND PMT	87,417.27	85,222.00	0.00	0.00	85,222.00	0.00
Total Dept 905-DEBT SERVICE	87,417.27	85,222.00	0.00	0.00	85,222.00	0.00
TOTAL Expenditures	1,390,930.06	1,481,649.00	420,629.15	131,438.60	1,061,019.85	28.39

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REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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		2014-15	Į	ACTIVITY FOR		
GL NUMBER DESCRIPTION	ION END BALANCE 06/30/2014		YTD BALANCE 10/31/2014	MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 207 - LAW ENFORCEMENT FUND	PUND					
Fund 207 - LAW ENFORCEMENT FUND:	1 457 357 53	1 482 146 00	19,485.06	5,369.20	1,462,660.94	1.31
TOTAL EXPENDITURES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES - 2013-14	1,390,930.06		420,629.15 66,427.47		1,061,019.85	28.39
NET OF REVENUES & EXPENDITURES BEG. FUND BALANCE END FUND BALANCE	66,427.47 403,950.61 470,378.08	497.00 (4) 403,950.61 4) 404,447.61	(401,144.09) 403,950.61 69,233.99	(126,069.40)	401,641.09	80,713.1 (80,713. (80,713.

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70

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Dept 270-LEGAL/PROFESSIONAL 216-270-722 CONTROLI 216-270-802 AUDIT FF	Total Dept 265-HALL	Dept 265-HALL AND 216-265-816 216-265-821	Total Dept 226-PE	Expenditures Dept 226-PERSONNEL 216-226-701 216-226-705 216-226-708 216-226-715 216-226-716 216-226-717 216-226-718 216-226-718 216-226-730 216-226-730 216-226-730 216-226-731 216-226-957 216-226-957	TOTAL Revenues	Total Dept 336-CO	Dept 336-CONTRIBUTIONS 216-336-588 CON 216-336-683 CON	Total Dept 000	Revenues Dept 000 216-000-402 216-000-445 216-000-482 216-000-590 216-000-626 216-000-635 216-000-639 216-000-639 216-000-671 216-000-673 216-000-675	UMBER OT 6
OFESSIONAL CONTROLLER AUDIT FEES	LL AND GROUNDS	GROUNDS GROUNDS/CLEANG/JANITORL SERVIC PSB MAINT & OPS ALLOCATION	226-PERSONNEL -	SALARIES SALARIES SALARIES ADMINISTRATIVE ASSISTANT SALARIES - PART TIME SALARIES - OFFICERS SOCIAL SECURITY HOSPITALIZATION LIFE/DISB. INSURANCE PENSION BANKED PTO MEDICAL TESTING WORKERS COMP INSURANCE ALLOCATE TO DEPARTMENTS TRAINING & DEVELOPMENT TRAINING WAGES	ı	336-CONTRIBUTIONS	TIONS CONTRIBUTION OTHER FUND(S) CONTRIBUTION - INDEPENDENCE DAY CELEBRA	1	CURRENT PROPERTY TAX PENALTY & INTEREST ON TAXES HOUSE NUMBERS CONTRIBUTION OTHER FUND(S) GRANT INCOME COPY & FOIA INCOME RESPONSE FEES DRIVEWAY INSPECTIONS REIMBURSEMENT/OTHER INCOME SALE OF FIXED ASSET CONTRIBUTION-PRIVATE SOURCES	DESCRI
7,982.00 3,060.00	54,735.40	2,294.40 52,441.00	267,911.19	77,051.53 124.669.00 5,317.93 48,031.62 11.245.00 21,170.33 17,521.05 966.96 7,699.64 (13,882.21) 421.50 7,429.00 (54,568.00) 4,416.34 10,421.50	678,815.59	16,733.00	15,733.00 1,000.00	662,082.59	607,117.18 337.94 400.00 25,000.00 22.10 23.00 20,755.12 550.00 4,719.25 3,058.00 100.00	% Fiscal Year Co END BALANCE 06/30/2014
8,227.00 3,060.00	51,933.00	2,000.00 49,933.00	311,175.00	79,310.00 129,000.00 6,000.00 53,000.00 14,000.00 22,595.00 19,110.00 900.00 7,931.00 9,000.00 9,000.00 14,000.00 14,000.00	657,152.00	1,000.00	1,000.00	656,152.00	617,577.00 0.00 250.00 25,000.00 0.00 8,000.00 5,000.00 0.00 0.00	Completed: 33.70 2014-15 AMENDED BUDGET
0.00	0.00	0.00	121,465.08	27,364.58 42,997.50 2,043.62 20,062.01 2,750.00 7,641.41 8,727.42 20,062.05 2,727.42 0.00 321.50 0.00 4,669.96	3,563.88	0.00	0.00	3,563.88	0.00 0.00 200.00 0.00 0.00 1,218.88 300.00 980.00	YTD BALANCE 10/31/2014
3,060.00	0.00	0.00	38,633.36	9,151.14 14,280.00 688.90 5,210.86 2,451.20 1,035.42 1140.82 915.06 0.00 0.00 0.00 2,049.00 2,710.96	1,121.50	0.00	0.00	1,121.50	0.00 0.00 40.00 0.00 0.00 0.00 981.50 100.00 0.00	ACTIVITY FOR MONTH 10/31/2014
8,227.00 0.00	51,933.00	2,000.00 49,933.00	189,709.92	51,945.42 86,002.50 3,956.38 32,937.99 11,250.00 14,953.59 10,908.97 5,203.58 0.00 3,678.50 9,100.00 (56,771.00) 6,666.00	653,588.12	1,000.00	1,000.00	652,588.12	617,577.00 0.00 50.00 25,000.00 0.00 6,781.12 0.00 4,140.00 (980.00)	AVAILABLE BALANCE
0.00	0.00	0.00	39.03	34.50 33.33 34.06 37.85 19.64 42.91 39.12 34.39 0.00 8.04 0.00 25.93	0.54	0.00	0.00	0.54	0.00 0.00 80.00 0.00 0.00 15.24 100.00 17.20	% BDGT

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70

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Fund 216 - MEDICAL RESCUE FUND: TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES - 2013-14 NET OF REVENUES & EXPENDITURES REG. FUND BALANCE	TOTAL Expenditures	Total Dept 905-DEBT SERVICE	Dept 905-DEBT SERVICE 216-905-985	Total Dept 900-CAPITAL OUTLAY	Dept 900-CAPITAL OUTLAY 216-900-970 EQUIPMENT 216-900-972 COMPUTER	Total Dept 333-TRANSPORTATION	Dept 333-TRANSPORTATION 216-333-860 FUEL & MILEAGE 216-333-930 REPAIRS & MAINTENANCE	Total Dept 301-OPERATING COSTS	Dept 301-OPERATING COSTS 216-301-727 SUPPLIES 216-301-741 UNIFORMS/GEAR & ALLOWANCE 216-301-807 MEMBERSHIP DUES 216-301-818 CONTRACTUAL SERVICES 216-301-820 DISPATCH SERVICES 216-301-850 COMMUNICATION 216-301-851 POSTAGE 216-301-900 INSURANCE & BONDS 216-301-920 INSURANCE & BONDS 216-301-930 REPAIRS & MAINTENANCE 216-301-930 RADIO REPAIR 216-301-938 CHARGEBACKS - PRIOR TAX YEARS	Total Dept 270-LEGAL/PROFESSIONAL	Fund 216 - MEDICAL RESCUE FUND Expenditures 216-270-803 LEGAL	DB: Northfield GI NUMBER DESCRIPTION
678,815.59 685,504.34 (6,688.75) 419,120.53	685,504.34	135,541.92	87,417.27 41,750.56 6,374.09	28,711.44	28,007.88 703.56	29,298.83	13,600.98 15,697.85	158,263.56	8,167.39 3,410.42 1,700.68 8,286.38 10,584.84 6,399.32 38.22 0.00 65,114.00 15,890.74 2,357.13 2,830.00 33,484.44	11,042.00	0.00	% Fiscal Year Con END BALANCE 06/30/2014
657,152.00 656,643.00 509.00 419,120.53	656,643.00	133,348.00	85,222.00 43,776.00 4,350.00	6,000.00	6,000.00 0.00	32,000.00	12,000.00 20,000.00	107,400.00	8,000.00 7,000.00 1,500.00 2,000.00 10,500.00 7,000.00 55,000.00 150.00 4,000.00 2,200.00	14,787.00	3,500.00	Completed: 33.70 2014-15 AMENDED BUDGET
3,563.88 196,241.00 (6,688.75) (192,677.12) 419,120.53	196,241.00	48,124.65	0.00 43,775.46 4,349.19	1,583.62	1,349.10 234.52	7,445.04	2,642.30 4,802.74	14,562.61	2,241.63 1,457.74 500.00 295.23 3,424.68 1,670.70 50.00 203.85 0.00 641.33 689.75 0.00 3,387.70	3,060.00	0.00	YTD BALANCE 10/31/2014
1,121.50 52,680.76 (51,559.26)	52,680.76	0.00	0.00	1,407.73	1,349.10 58.63	4,932.91	1,155.36 3,777.55	4,646.76	670.02 1,457.74 0.00 0.00 856.17 593.21 50.00 0.00 0.00 198.97 77.98 0.00 742.67	3,060.00	0.00	ACTIVITY FOR MONTH 10/31/2014
653,588.12 460,402.00 (6,688.75) 193,186.12	460,402.00	85,223.35	85,222.00 0.54 0.81	4,416.38	4,650.90 (234.52)	24,554.96	9,357.70 15,197.26	92,837.39	5,758.37 5,542.26 1,000.00 1,704.77 7,075.32 5,329.30 0.00 (53.85) 55,000.00 9,358.67 3,310.25 2,200.00 (3,387.70)	11,727.00	3,500.00	AVAILABLE BALANCE
0.54 29.89 (37,854. 37,854.0 (37,854.0	29.89	36.09	0.00 100.00 99.98	26.39	22.49	23.27	22.02 24.01	13.56	28.02 20.82 33.33 14.76 32.62 23.87 100.00 0.00 6.41 17.24 0.00	20.69	0.00	% BDGT USED

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REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014
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END FUND BALANCE	GL NUMBER DESCRIPTION
412,431.78	END BALANCE 06/30/2014
419,629.53	2014-15 AMENDED BUDGET
219,754.66	YTD BALANCE 10/31/2014
	ACTIVITY FOR MONTH 10/31/2014
(37,	AVAILABLE % BDGT BALANCE USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014

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DB: Northfield GI NUMBER Fund 230 - DONATION FUND Revenues Dept 000 230-000-690 230-000-691 230-000-692 230-000-698 Total Dept 000 TOTAL Revenues Expenditures Dept 301-0PERATING COSTS 230-301-904 DONAT	DESCRIPTION DONATION FUND DONATION - DOG PARK DONATION - FIREWORKS DONATION - EVENTS/COMMUNITY PROJECTS DONATIONS - ALL OTHER SCC ues ERATING COSTS DONATIONS - EVENTS/COMMUNITY PROJECTS	% Fiscal Year Completed: 33 END BALANCE AMENI 06/30/2014 3,350.00 350.00 1,350.00 0.0 5,070.00 5,070.00 1,505.66 0.0	1eted: 33.70 2014-15 AMENDED BUDGET 0.00 0.00 0.00 0.00 0.00 0.00 0.00	YTD BALANCE 10/31/2014 0.00 (1,025.00) (1,025.00) (1,025.00) (2,050.00) (2,050.00)	ACTIVITY FOR MONTH 10/31/2014 0.00 0.00 0.00 0.00 0.00 0.00 0.00	AVAILABLE BALANCE 0.00 1,025.00 1,025.00 0.00 2,050.00 2,050.00	% BDG USE USE 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
Revenues Dept 000 230-000-690	TION -	3,350.00 350.00	0.00	(1,025.00)	000	1,025.	00
230-000-691	1 1	1,350.00	000	(1,025.00) (1,025.00) 0.00	0.00	1,025.0	000
Total Dept 000		5,070.00	0.00	(2,050.00)	0.00	2,050.00	91
TOTAL Revenues		5,070.00	0.00	(2,050.00)	0.00	2,050.00	- 1
Expenditures Dept 301-OPERATIN 230-301-904	G COSTS DONATIONS - EVENTS/COMMUNITY PROJECTS	1,505.66	0.00	197.79	56.00	(197.79	_
Total Dept 301-OPERATING COSTS	ERATING COSTS	1,505.66	0.00	197.79	56.00	(197.79)	_ '
TOTAL Expenditures	ω	1,505.66	0.00	197.79	56.00	(197.79)	
Fund 230 - DONATION FUND: TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES -	ON FUND: S XPENDITURES - 2013-14	5,070.00 1,505.66	0.00	(2,050.00) 197.79 3,564.34	0.00 56.00	2,050.00 (197.79) 3,564.34	
NET OF REVENUES & BEG. FUND BALANCE END FUND BALANCE	EXPENDITURES	3,564.34 500.00 4,064.34	0.00 500.00 500.00	(2,247.79) 500.00 1,816.55	(56.00)	2,247.79	

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

PERIOD ENDING 10/31/2014

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PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70

NET OF REVENUES & EXPENDITURES BEG. FUND BALANCE END FUND BALANCE	TOW RES	TOTAL Expenditures		900-cz 00-925	Total Dept 449-ROAD WORK	149-81	Total Dept 301-OPERATING COSTS Dept 449-Roan Work		TOTAL Revenues Expenditures	Total Dept 000	Revenues Dept 000 248-000-671 REIMBURSEMENT/OTHER INCOME 248-000-675 CONTRIBUTION-PRIVATE SOURCES	Fund 248 - DOWNTOWN DEVELOPMENT AUTH	GL NUMBER DESCRIPTION
277.28 91,222.05 91,499.33	25,367.28 25,090.00	25,090.00	0.00	0.00	22,790.00	22,790.00	2,300.00	1,100.00 1,200.00	25,367.28	25,367.28	20.00 25,347.28	The second secon	% Fiscal Year Completed: 20 END BALANCE AM 06/30/2014 B
(42,700.00) 91,222.05 48,522.05	0.00	42,700.00	1,500.00	1,500.00	20,000.00	20,000.00	21,200.00	20,000.00	0.00	0.00	0.00		mpleted: 33.70 2014-15 AMENDED BUDGET
0.00 91,222.05 91,499.33	0.00 0.00 277.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		YTD BALANCE 10/31/2014
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		ACTIVITY FOR MONTH
(42,700.00)	42,700.00	42,700.00	1,500.00	1,500.00	20,000.00	20,000.00	21,200.00	20,000.00 1,200.00	0.00	0.00	0.00		AVAILABLE BALANCE
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0000	% BDGT

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33.70 2014-15

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GL NUMBER DESCRIPTION Fund 265 - NARCOTICS FUND Revenues Dept 000 265-000-661 FORFEITURES Total Dept 000 TOTAL Revenues	END BALANCE 06/30/2014 29,373.25 29,373.25	73.25 50,000.00 73.25 50,000.00	YTD BALANCE 10/31/2014 0.00 0.00	ACTIVITY FOR MONTH 10/31/2014 0.00 0.00	AVAILABLE BALANCE 50,000.00	% BDGT USED 0.00
	29, 373.25	50,000.00	0.00	0.00	50,000.00	1
Expenditures Dept 226-personnel 265-226-957 TRAINING & DEVELOPMENT	275.00	0.00	0.00	0.00	0.00	
Total Dept 226-PERSONNEL	275.00	0.00	0.00	0.00	0.00	1
Dept 301-OPERATING COSTS 265-301-727 SUPPLIES 265-301-899 FORFEITURE SHARING 265-301-956 MISCELLANEOUS	0.00 14,085.94 2,645.20	1,000.00 20,000.00 300.00	0.00 1,859.75 9.00	0.00 1,859.75 0.00	1,000.00 18,140.25 291.00	
Total Dept 301-OPERATING COSTS	16,731.14	21,300.00	1,868.75	1,859.75	19,431.25	i
Dept 336-CONTRIBUTIONS 265-336-967 CONTRIBUTION-LAW ENFORCEMENT	0.00	1,000.00	0.00	0.00	1,000.00	
Total Dept 336-CONTRIBUTIONS	0.00	1,000.00	0.00	0.00	1,000.00	
Dept 900-CAPITAL OUTLAY 265-900-970 EQUIPMENT	300.00	4,000.00	3,549.92	0.00	450.08	
Total Dept 900-CAPITAL OUTLAY	300.00	4,000.00	3,549.92	0.00	450.08	
TOTAL Expenditures	17,306.14	26,300.00	5,418.67	1,859.75	20,881.33	
Fund 265 - NARCOTICS FUND: TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/FXPENDITURES - 2013-14	29,373.25 17,306.14	50,000.00 26,300.00	. 0.00 5,418.67 12,067.11	0.00 1,859.75	50,000.00 20,881.33 12,067.11	
OF REVENUES & EXPENDITURES FUND BALANCE	12,067.11 34,179.38 46,246.49	23,700.00 34,179.38 57,879.38	(5,418.67) 34,179.38 40,827.82	(1,859.75)	29,118.67	

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 8 Fiscal Year Completed: 33.70

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NET OF REVENUES & EXPENDITURES BEG. FUND BALANCE END FUND BALANCE	Fund 266 - FEDERAL NARCOTICS FUND: TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES - 2013-14	TOTAL Expenditures	Total Dept 900-CAPITAL OUTLAY	Dept 900-CAPITAL OUTLAY 266-900-970 EQUIPMENT 266-900-974 VEHICLE	Total Dept 336-CONTRIBUTIONS	Dept 336-CONTRIBUTIONS 266-336-967 CONTRIBUTION-LAW ENFORCEMENT	Total Dept 301-OPERATING COSTS	Expenditures Dept 301-OPERATING COSTS 266-301-727 SUPPLIES 266-301-956 MISCELLANEOUS	TOTAL Revenues	Total Dept 000	Dept 000 266-000-661 FORFEITURES	Fund 266 - FEDERAL NARCOTICS FUND	GL NUMBER DESCRIPTION
311,627.55 204,081.57 515,709.12	453,900.04 142,272.49	142,272.49	106,058.21	16,870.71 89,187.50	35,000.00	35,000.00	1,214.28	1,214.28 0.00	453,900.04	453,900.04	453,900.04		end Balance ame 06/30/2014 BU
(185,000.00) 204,081.57 19,081.57	100,000.00 285,000.00	285,000.00	235,000.00	160,000.00 75,000.00	35,000.00	35,000.00	15,000.00	10,000.00	100,000.00	100,000.00	100,000.00		Supreced: 33.70 2014-15 AMENDED BUDGET
(96,966.32) 204,081.57 418,742.80	666.20 97,632.52 311,627.55	97,632.52	91,626.34	91,626.34 0.00	0.00	0.00	6,006.18	3,395.50 2,610.68	666.20	666.20	666.20		YTD BALANCE 10/31/2014
(1,988.23)	0.00 1,988.23	1,988.23	1,888.23	1,888.23 0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00		ACTIVITY FOR MONTH 10/31/2014
(88,033.68)	99,333.80 187,367.48 311,627.55	187,367.48	143,373.66	68,373.66 75,000.00	35,000.00	35,000.00	8,993.82	6,604.50 2,389.32	99,333.80	99,333.80	99,333.80	ARTERIA MARIA MARIA MARIA PARA PARA PARA PARA PARA PARA PARA	AVAILABLE BALANCE
52.41 52.41 52.41	0.67 34.26	34.26	38.99	57.27	0.00	0.00	40.04	33.96 52.21	0.67	0.67	0.67		% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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PERIOD ENDING 10/31/2014 Fiscal Year Completed: 33.70

NET OF REVENUES/E NET OF REVENUES & BEG. FUND BALANCE END FUND BALANCE	4 28 2 H	TOTAL Expenditure	Total Dept 301-OP	Dept 301-OPERATING 287-301-725 287-301-727 287-301-850 287-301-910 287-301-927 287-301-930	Total Dept 270-LE	Dept 270-LEGAL/PROFESSIONAL 287-270-722 CONTROLL 287-270-802 AUDIT FE	Total Dept 261-G0	Dept 261-GOVERNMENT 287-261-725	Total Dept 226-PE	Expenditures Dept 226-PERSONNEL 287-226-720 287-226-927	TOTAL Revenues	Total Dept 000	Fund 287 - BUILDING Revenues Dept 000 287-000-481 287-000-484 287-000-485 287-000-486 287-000-488	DB: Northfield GL NUMBER
REVENUES/EXPENDITURES - 2013-14 REVENUES & EXPENDITURES IND BALANCE ID BALANCE	G DEPARTMENT FUND:	ω	301-OPERATING COSTS	G COSTS INSPECTOR EXPENSES SUPPLIES COMMUNICATION INSURANCE & BONDS ALLOCATE TO DEPARTMENTS REPAIRS & MAINTENANCE	270-LEGAL/PROFESSIONAL	OFESSIONAL CONTROLLER AUDIT FEES	61-GOVERNMENT SHARED SERVICES	NT SHARED SERVICES INSPECTOR EXPENSES	-PERSONNEL	BANKED PTO ALLOCATE TO DEPARTMENTS			IG DEPARTMENT FUND SIGN PERMITS BUILDING PLAN REVIEW FEES BUILDING PERMIT FEES CONTRACTOR'S REGISTRATION TRADE PERMIT FEES	DESCRIPTION
25,992.50 39,421.50 65,414.00	61,040.00 35,047.50	35,047.50	11,917.01	10,793.05 0.00 523.96 600.00 0.00	2,496.00	1,596.00 900.00	24,123.16	24,123.16	(3, 488.67)	(10,885.67) 7,397.00	61,040.00	61,040.00	1,055.00 3,372.00 34,683.00 630.00 21,300.00	% Fiscal Year Co. END BALANCE 06/30/2014
283.00 39,421.50 39,704.50	52,515.00 52,232.00	52,232.00	15,125.00	12,500.00 100.00 300.00 600.00 1,000.00 625.00	2,546.00	1,646.00 900.00	15,000.00	15,000.00	19,561.00	0.00	52,515.00	52,515.00	2,650.00 2,650.00 29,240.00 675.00 19,950.00	Completed: 33.70 2014-15 AMENDED BUDGET
21,838.27 21,838.27 39,421.50 87,252.27	31,045.00 9,206.73	9,206.73	1,808.73	1,353.95 392.00 62.78 0.00 0.00	900.00	900.00	6,498.00	6,498.00	0.00	0.00	31,045.00	31,045.00	0.00 1,366.00 15,665.00 900.00 13,114.00	YTD BALANCE 10/31/2014
719.01	4,611.00 3,891.99	3,891.99	703.99	672.60 0.00 31.39 0.00 0.00	900.00	900.00	2,288.00	2,288.00	0.00	0.00	4,611.00	4,611.00	0.00 75.00 1,041.00 195.00 3,300.00	ACTIVITY FOR MONTH 10/31/2014
	21,470.00 43,025.27 25,992.50	43,025.27	13,316.27	11,146.05 (292.00) 237.22 600.00 1,000.00	1,646.00	1,646.00 0.00	8,502.00	8,502.00	19,561.00	0.00	21,470.00	21,470.00	0.00 1,284.00 13,575.00 (225.00) 6,836.00	AVAILABLE BALANCE
	59.12 17.63	17.63	11.96	10.83 392.00 20.93 0.00	35.35	0.00	43.32	43.32	0.00	0.00	59.12	59.12	0.00 51.55 53.57 133.33 65.73	% BDGT

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DB: Northfield

GL NUMBER

DESCRIPTION

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

PERIOD ENDING 10/31/2014

* Fiscal Year Completed: 33.70

2014-15

END BALANCE

06/30/2014

BUDGET YTD BALANCE 10/31/2014 ACTIVITY FOR MONTH

AVAILABLE BALANCE

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% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014

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iscal
Year
Completed:
33.70

NET OF REVENUES & EXPENDITURES BEG. FUND BALANCE END FUND BALANCE	Fund 369 - BLDG AUTH DEBT FUND: TOTAL REVENUES TOTAL EXPENDITURES	TOTAL Expenditures	Total Dept 905-DEBT SERVICE	Expenditures Dept 905-DEBT SERVICE 369-905-942 3 M BOND BLDG AUTH 369-905-943 500K CAPITAL IMP 369-905-987 INTEREST 3 M BOND 369-905-992 INTEREST 500K BOND	TOTAL Revenues	Total Dept 000	Fund 369 - BLDG AUTH DEBT FUND Revenues Dept 000 369-000-685 FUNDS XFER FOR 3.5 BOND PMT	GL NUMBER DESCRIPTION
0.00	262,251.83 262,251.83	262,251.83	262,251.83	179,470.20 29,071.90 46,222.31 7,487.42	262,251.83	262,251.83	262,251.83	END BALANCE 06/30/2014
0.00	255,666.00 255,666.00	255,666.00	255,666.00	206,856.00 0.00 48,810.00 0.00	255,666.00	255,666.00	255,666.00	2014-15 AMENDED BUDGET
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	YTD BALANCE 10/31/2014
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	ACTIVITY FOR MONTH
0.00	255,666.00 255,666.00	255,666.00	255,666.00	206,856.00 0.00 48,810.00 0.00	255,666.00	255,666.00	255,666.00	AVAILABLE BALANCE
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	% BDGT USED

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REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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NET OF REVENUES & BEG. FUND BALANCE END FUND BALANCE	TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EX	1	TOTAL Expenditures	Total Dept 905-DEBT	Dept 905-DEBT SER 370-905-945 370-905-987 370-905-994	Total Dept 301-OF	Expenditures Dept 301-OPERATING 370-301-803 370-301-816 370-301-818 370-301-850 370-301-910 370-301-920 370-301-930 370-301-938	TOTAL Revenues	Total Dept 000	Revenues Dept 000 370-000-402 370-000-588 370-000-571	UMBER	DB: Northfield
EXPENDITURES	REVENUES/EXPENDITURES - 2013-14		Ó	BT SERVICE	SERVICE 3.8 M PSB BOND INTEREST 3 M BOND INTEREST 3.8 BOND PSB	301-OPERATING COSTS	IG COSTS SUPPLIES LEGAL GROUNDS/CLEANG/JANITORL SERVIC COMMUNICATION INSURANCE & BONDS UTILITIES REPAIRS & MAINTENANCE CHARGEBACKS - PRIOR TAX YEARS			CURRENT PROPERTY TAX PENALTY & INTEREST ON TAXES CONTRIBUTION OTHER FUND(S) REIMBURSEMENT/OTHER INCOME	DESCRIPTION	
(2,535.87) 56,750.37 54,214.50	441,799.49 444,335.36		444,335.36	286,700.00	235,000.00 0.00 51,700.00	157,635.36	1,075.42 0.00 9,323.00 9,302.82 3,511.67 7,156.00 82,271.95 29,540.47 15,454.03	441,799.49	441,799.49	284,298.49 150.54 157,324.00 26.46	END BALANCE 06/30/2014	PERIOD ENDING 10/31/2014 % Fiscal Year Completed: 33
0.00 56,750.37 56,750.37	430,978.00 430,978.00		430,978.00	281,178.00	235,000.00 0.00 46,178.00	149,800.00	1,200.00 200.00 10,500.00 11,500.00 4,200.00 7,200.00 85,000.00 30,000.00	430,978.00	430,978.00	281,178.00 0.00 149,800.00 0.00	2014-15 AMENDED BUDGET	ING 10/31/2014 Completed: 33.70
(81,323.59) 56,750.37 (27,109.09)	0.00 81,323.59 (2,535.87)		81,323.59	47,493.25	0.00 24,404.50 23,088.75	33,830.34	0.00 1,550.00 1,550.00 522.00 816.37 0.00 16,401.78 12,933.97 1,606.22	0.00	0.00	0.000	YTD BALANCE 10/31/2014	
(62,189.00)	0.00		62,189.00	47,493.25	0.00 24,404.50 23,088.75	14,695.75	0.00 0.00 250.00 261.00 236.89 0.00 4,017.52 9,582.56 347.78	0.00	0.00	0.00	ACTIVITY FOR MONTH	
81,323.59	430,978.00 349,654.41 (2,535.87)		349,654.41	233,684.75	235,000.00 (24,404.50) 23,089.25	115,969.66	1,200.00 200.00 8,950.00 10,978.00 3,383.63 7,200.00 68,598.22 17,066.03 (1,606.22)	430,978.00	430,978.00	281,178.00 0.00 149,800.00 0.00	AVAILABLE BALANCE	
100.00	0.00 18.87 100.00		18.87	16.89	0.00 100.00 50.00	22.58	0.00 0.00 14.76 4.54 19.44 0.00 19.30 43.11	0.00	0.00	0000	% BDGT USED	

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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Dept 301-OPERATING 571-301-727 571-301-740 571-301-807 571-301-817 571-301-819 571-301-850 571-301-850 571-301-900 571-301-900 571-301-900 571-301-900 571-301-900 571-301-910 571-301-940	Total Dept 270-L	Dept 270-LEGAL/PROFESSIONAL 571-270-722 CONTROLI 571-270-802 AUDIT FE 571-270-803 LEGAL 571-270-806 ENGINEER	Total Dept 226-P	Expenditures Dept 226-PERSONNEL 571-226-701 571-226-715 571-226-715 571-226-716 571-226-717 571-226-718 571-226-718 571-226-718 571-226-731 571-226-731 571-226-731	TOTAL Revenues	Total Dept 000	Fund 571 - WASTEWATER Revenues Dept 000 571-000-445 571-000-651 571-000-665 571-000-667 571-000-672 571-000-673 571-000-673 571-000-673 571-000-670 US	DB: Northfield
SUPPLIES SUPPLIES OPERATING SUPPLIES OPERATING SUPPLIES UNIFORMS/GEAR & ALLOWANCE MEMBERSHIP DUES LAB & TESTING COLLECTION SYS ANNUAL MAINT SEWER ADMINISTRATION FEES COMMUNICATION POSTAGE PRINTING & PUBLICATIONS INSURANCE & BONDS UTILITIES REPAIRS & MAINTENANCE REPAIRS & MAINTENANCE	Dept 270-LEGAL/PROFESSIONAL	ROFESSIONAL CONTROLLER AUDIT FEES LEGAL ENGINEER	226-PERSONNEL	SALARIES SALARIES SALARIES SALARIES-OVERTIME SOCIAL SECURITY HOSPITALIZATION LIFE/DISB. INSURANCE PENSION BANKED PTO WORKERS COMP INSURANCE TRAINING & DEVELOPMENT			PENALTY & INTEREST ON TAXES TAP-IN FEES USAGE FEES INTEREST INCOME REIMBURSEMENT/OTHER INCOME SALE OF FIXED ASSET UNREALIZED GAIN/LOSS	DESCRIPTION
1,811.92 36,856.71 774.90 765.00 1,318.75 37,569.28 35,000.00 7,119.51 2,702.84 40.69 20,166.00 111,143.35 63,593.40 832.00	33,607.40	13,303.00 6,480.00 0.00 13,824.40	371,097.99	60,469.00 185,551.40 5892.35 19,271.32 73,669.11 3,444.00 22,886.86 (3,828.05) 2,347.00 1,395.00	1,131,215.88	1,131,215.88	6.30 3,550.00 1,160,288.27 2,720.20 2,165.63 82.00 5,000.00 (42,596.52)	% Fiscal Year Co END BALANCE 06/30/2014
1,200.00 50,000.00 2,500.00 1,000.00 5,000.00 6,000.00 5,000.00 5,000.00 100,000.00 110,000.00	50,693.00	13,713.00 6,480.00 500.00 30,000.00	399,835.00	65,500.00 184,403.00 10,000.00 19,885.00 86,100.00 3,487.00 24,045.00 0.00 2,915.00 3,500.00	1,362,073.00	1,362,073.00	0.00 0.00 1,359,000.00 1,000.00 2,000.00 73.00 0.00	Completed: 33.70 2014-15 AMENDED BUDGET
550.61 10,245.95 370.49 590.00 1,500.00 42,502.56 0.00 1,854.71 870.00 0.00 0.00 0.00 25,939.44 12,522.59 276.00	10,320.00	0.00 6,480.00 0.00 3,840.00	139,851.28	22,482.60 63,428.99 6,848.96 34,022.11 1,258.85 8,192.42 0.00 0.00	129,264.29	129,264.29	0.00 3,550.00 123,935.71 0.00 1,778.58 0.00 0.00	YTD BALANCE 10/31/2014
337.78 1,254.81 254.99 0.00 10.00 27,740.54 0.00 557.27 870.00 0.00 0.00 8,265.21 2,267.43	9,360.00	6,480.00 0.00 2,880.00	38,710.78	7,557.69 21,272.91 21,272.91 2,205.54 4,414.16 503.54 2,756.94 0.00	150.57	150.57	0.00 0.00 0.00 0.00 150.57 0.00 0.00	ACTIVITY FOR MONTH 10/31/2014
39,754.05 2,129.51 410.00 3,500.00 12,497.44 35,000.00 4,145.29 4,145.29 4,130.00 200.00 20,300.00 97,477.41 224.00	40,373.00	13,713.00 0.00 500.00 26,160.00	259, 983.72	43,017.40 120,785.65 6,571.01 13,036.04 52,077.89 2,228.15 15,852.58 0.00 2,915.00 3,500.00	1,232,808.71	1,232,808.71	0.00 (3,550.00) 1,235,064.29 1,000.00 221.42 73.00 0.00	AVAILABLE BALANCE
45.88 20.49 114.82 59.00 30.00 77.28 0.00 17.40 0.00 0.00 0.00 25.94	20.36	0.00 100.00 0.00	34.98	34.32 34.50 34.29 34.44 39.51 36.10 0.00 0.00	9.49	9,49	0.00 100.00 9.12 9.12 0.00 88.93 0.00	% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014

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NET OF REVENUES & BEG. FUND BALANCE END FUND BALANCE	AL F AL F OF	TOTAL Expenditures	Total Dept 900-CAPITAL	Dept 900-CAPITAL 571-900-970 571-900-972	Total Dept 528-0	Dept 528-0 & M - 571-528-954 571-528-989 571-528-995	Total Dept 333-TR	Dept 333-TRANSPORTATION 571-333-860 FUE 571-333-930 REP	Total Dept 301-Op	Fund 571 - WASTEWATER Expenditures 571-301-941 571-301-950 571-301-968 DE	GL NUMBER
EXPENDITORES	1 - WASTEWATER TREATMENT FUND: EVENUES EXPENDITURES REVENUES/EXPENDITURES - 2013-14	co	PITAL OUTLAY	OUTLAY EQUIPMENT COMPUTER	& M - BOND & INTEREST	BOND & INTEREST AGENT FEES INTEREST 1992 BOND DEBT SERVICE - INTEREST	333-TRANSPORTATION	TATION FUEL & MILEAGE REPAIRS & MAINTENANCE	301-OPERATING COSTS	VATER TREATMENT FUND UNIFORMS - RENTALS LAND LEASING DEPRECIATION EXPENSE	DESCRIPTION
86,990.22 5,914,772.59 6,001,762.81	1,131,215.88 1,044,225.66	1,044,225.66	6,274.47	6,274.47 0.00	70,024.09	657.57 16,738.76 52,627.76	6,097.92	4,218.89 1,879.03	557,123.79	2,888.69 257.75 234,283.00	END BALANCE 06/30/2014
142,339.00 5,914,772.59 6,057,111.59	1,362,073.00 1,219,734.00	1,219,734.00	72,000.00	55,000.00 17,000.00	54,670.00	700.00 15,340.00 38,630.00	6,000.00	4,000.00 2,000.00	636,536.00	0.00 258.00 244,578.00	2014-15 AMENDED BUDGET
(178,241.11) 5,914,772.59 5,823,521.70	129,264.29 307,505.40 86,990.22	307,505.40	28,997.00	28,997.00	27,082.64	99.13 7,669.38 19,314.13	3,774.38	3,745.44 28.94	97,480.10	0.00 257.75 0.00	YTD BALANCE 10/31/2014
(126,600.37)	150.57 126,750.94	126,750.94	28,997.00	28,997.00 0.00	7,669.38	0.00 7,669.38 0.00	129.00	129.00	41,884.78	0.00 257.75 0.00	ACTIVITY FOR MONTH 10/31/2014
320,580.11	1,232,808.71 912,228.60 86,990.22	912,228.60	43,003.00	26,003.00 17,000.00	27,587.36	600.87 7,670.62 19,315.87	2,225.62	254.56 1,971.06	539,055.90	0.00 0.25 244,578.00	AVAILABLE BALANCE
125.22 (125.22) (125.22)	9.49 25.21 (125.22)	25.21	40.27	52.72	49.54	14.16 50.00 50.00	62.91	93.64 1.45	15.31	0.00 0.00	% BDGT

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

Page: 23/25

PERIOD ENDING 10/31/2014 8 Fiscal Year Completed: 33.70

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			2014-15		ACTIVITY FOR		
		END BALANCE	AMENDED	YTD BALANCE	MONTH	AVAILABLE	% B
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815 - DIST	815 - DIST # 5 SEVEN MILE SEWER			٠			

NET OF REVENUES & EXPEND BEG. FUND BALANCE END FUND BALANCE	Fund 815 - DIST # 5 SEVEN MI TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES	TOTAL Expenditures	Total Dept 905-DEBT SERVICE	Dept 905-DEBT SERVICE 815-905-995 DEBT	Total Dept 301-OPERATING COSTS	Expenditures Dept 301-OPERATING COSTS 815-301-968 DEPRE	TOTAL Revenues	Total Dept 000	Fund 815 - DIST # 5 SEVEN Revenues Dept 000 815-000-665 INTER 815-000-671 REIMB 815-000-672 SAD I 815-000-690 UNREA	GL NUMBER DESCR
ES	SEVEN MILE SEWER: NDITURES - 2013-14		ICE	SERVICE - INTEREST	COSTS	DEPRECIATION EXPENSE			SEVEN MILE SEWER INTEREST INCOME REIMBURSEMENT/OTHER INCOME SAD INTEREST UNREALIZED GAIN/LOSS	DESCRIPTION
(19,391.95) 632,829.96 613,438.01	8,031.83 27,423.78	27,423.78	9,904.78	9,904.78	17,519.00	17,519.00	8,031.83	8,031.83	369.90 2.05 13,072.69 (5,412.81)	END BALANCE 06/30/2014
(16,151.00) 632,829.96 616,678.96	10,370.00 26,521.00	26,521.00	9,002.00	9,002.00	17,519.00	17,519.00	10,370.00	10,370.00	150.00 0.00 10,220.00	AMENDED BUDGET
(4,500.51) 632,829.96 608,937.50	0.00 4,500.51 (19,391.95)	4,500.51	4,500.51	4,500.51	0.00	0.00	0.00	0.00	0.00	YTD BALANCE 10/31/2014
(4,500.51)	0.00 4,500.51	4,500.51	4,500.51	4,500.51	0.00	0.00	0.00	0.00	0.00	10/31/2014
(11,650.49)	10,370.00 22,020.49 (19,391.95)	22,020.49	4,501.49	4,501.49	17,519.00	17,519.00	10,370.00	10,370.00	150.00 0.00 10,220.00 0.00	AVAILABLE BALANCE
27.87 27.87 27.87	0.00 16.97 27.87	16.97	49.99	49.99	0.00	0.00	0.00	0.00	0000	% BDGT USED

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014 Fiscal Year Completed: 33.70

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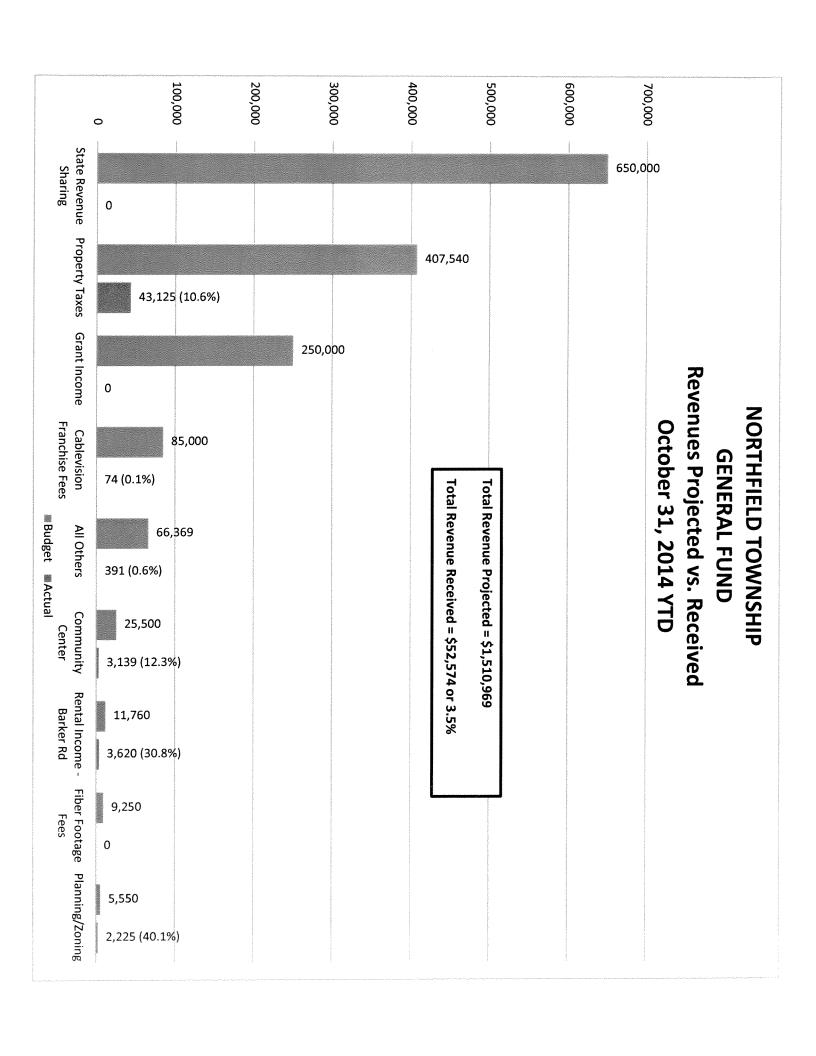
NET OF REVENUES & BEG. FUND BALANCE END FUND BALANCE	Fund 883 - DISTRICT #3 HORSE TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES/EXPENDITURES	TOTAL Expenditures	Total Dept 301-OPERATING COSTS	Expenditures Dept 301-OPERATING 883-301-920 883-301-930 883-301-968	TOTAL Revenues	Total Dept 000	Revenues Dept 000 883-000-665 883-000-690	Fund 883 - DISTRICT	GL NUMBER
E EXPENDITORES	X M A	(D)	PERATING COSTS	NG COSTS UTILITIES REPAIRS & MAINTENANCE DEPRECIATION EXPENSE			INTEREST INCOME UNREALIZED GAIN/LOSS	ICT #3 HORSESHOE LAKE	DESCRIPTION
		1	i		,				
(50,893.71) 744,996.05 694,102.34	(40,316.96) 10,576.75	10,576.75	10,576.75	719.46 5,393.29 4,464.00	(40,316.96)	(40,316.96)	2,750.24 (43,067.20)		END BALANCE 06/30/2014
(89,000.00) 744,996.05 655,996.05	1,000.00	90,000.00	90,000.00	0.00 90,000.00 0.00	1,000.00	1,000.00	1,000.00		Elistat real completed: 33.70 2014-15 END BALANCE AMENDED 06/30/2014 BUDGET
0.00 744,996.05 694,102.34	0.00 0.00 0.00 (50,893.71)	0.00	0.00	0.00	0.00	0.00	0. 0. 00		YTD BALANCE 10/31/2014
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		ACTIVITY FOR MONTH 10/31/2014
(89,000.00)	1,000.00 90,000.00 (50,893.71)	90,000.00	90,000.00	0.00 00.000.00 0.00	1,000.00	1,000.00	1,000.00 0.00		AVAILABLE BALANCE
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		% BDGT USED

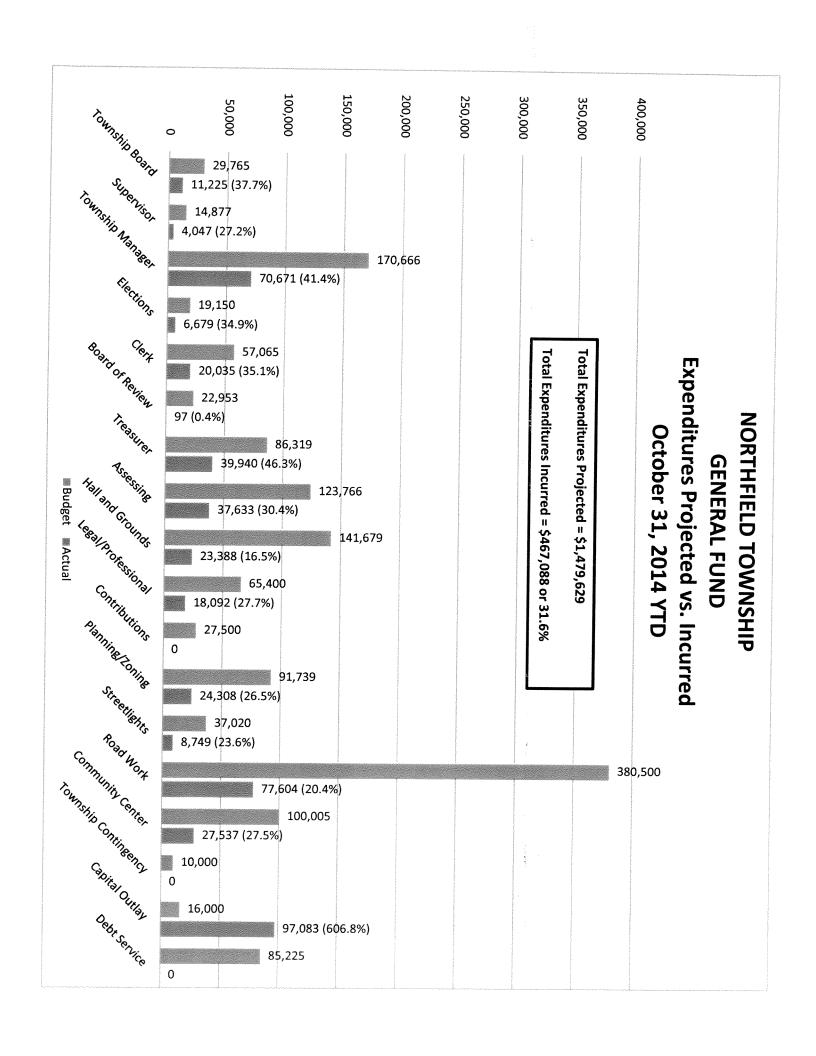
REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP PERIOD ENDING 10/31/2014

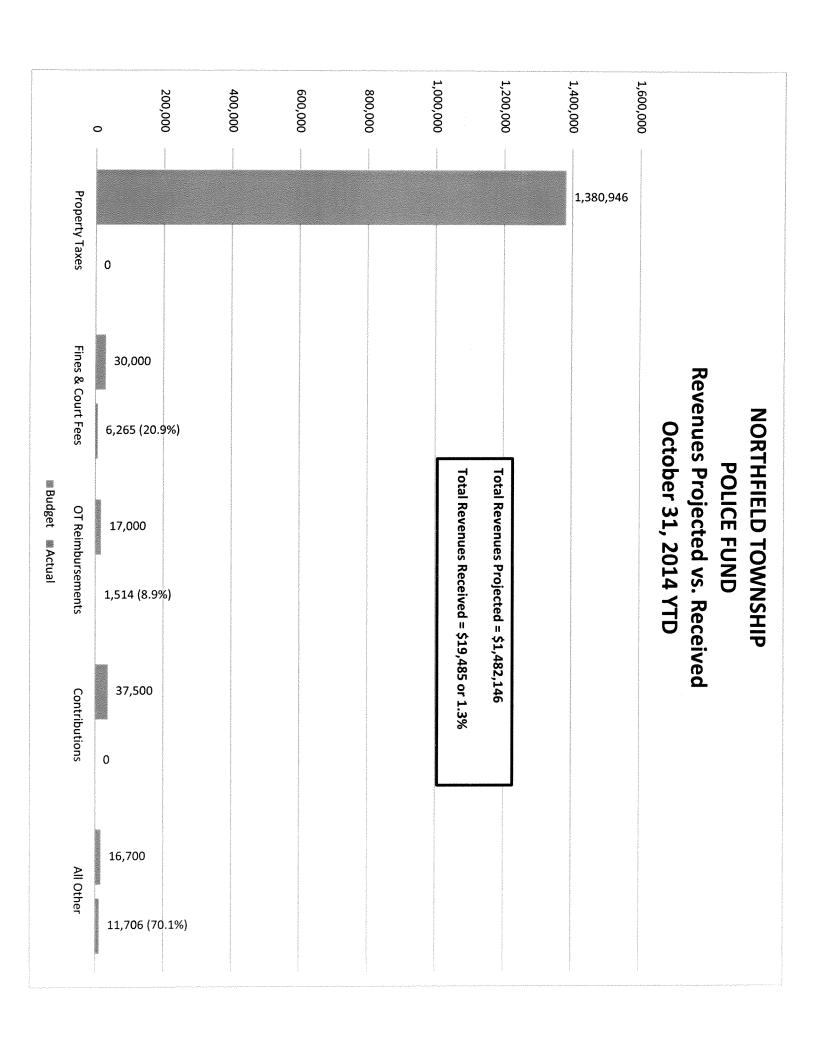
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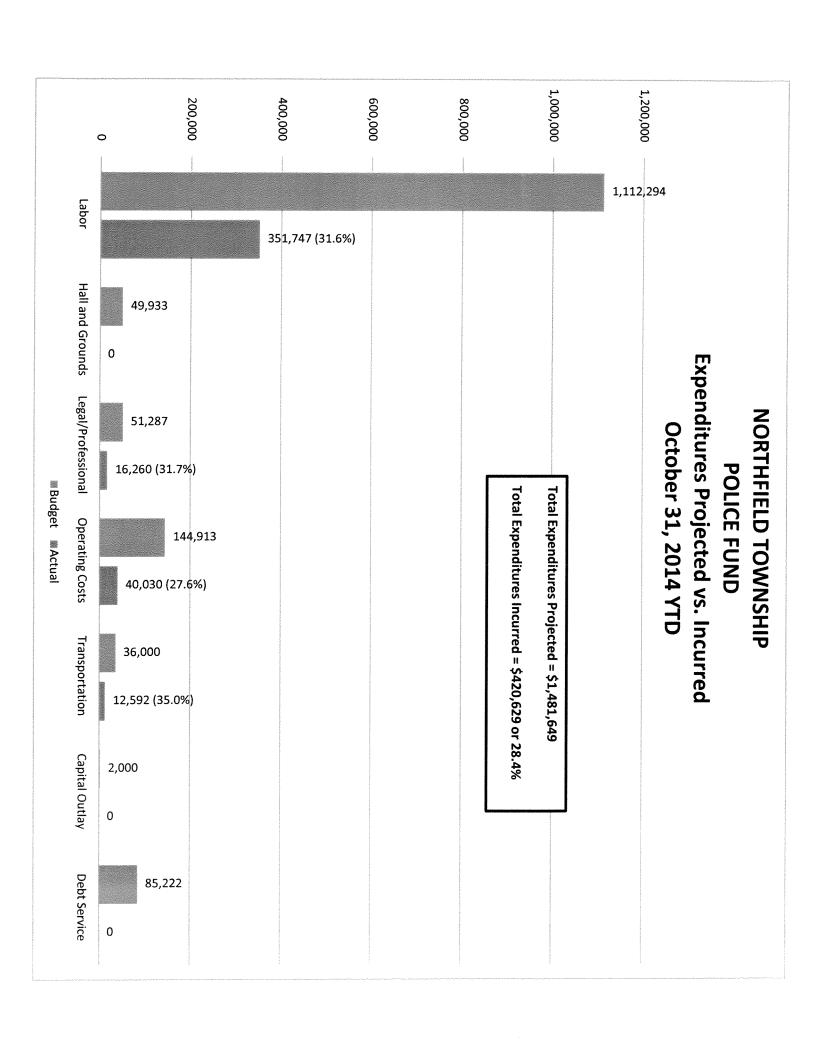
Page: 25/25

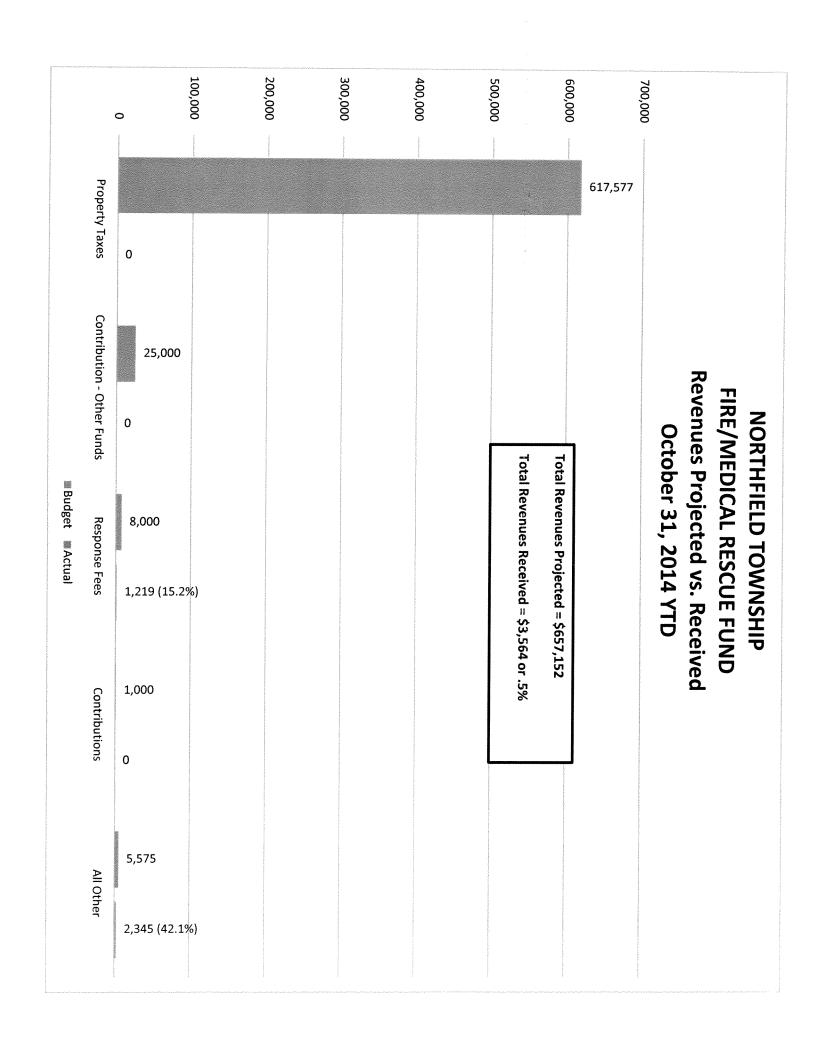
TOTAL REVENUES - AI TOTAL EXPENDITURES NET OF REVENUES & I BEG. FUND BALANCE -	Fund 890 - N.T. SEWER DISTRI TOTAL REVENUES TOTAL EXPENDITURES NET OF REVENUES & EXPENDITURES NET OF REVENUES & EXPENDITUR BEG. FUND BALANCE END FUND BALANCE	TOTAL Expenditures	Total Dept 905-DEBT	890-905-954 890-905-998	Total Dept 301-OPERATING Dept 905-DEBT SERVICE	Dept 301-0PERATING 890-301-803 890-301-968	Expanditures		000 00-44 00-66 00-67 00-69	Fund 890 - N.T. S Revenues	GL NUMBER
- ALL FUNDS URES - ALL FUNDS & EXPENDITURES NCE - ALL FUNDS DE - ALL FUNDS	SEWER DISTRICT: ES EXPENDITURES - 2013-14 & EXPENDITURES		ST SERVICE	AGENT FEES INTEREST NT BOND	FRATING COSTS	G COSTS LEGAL DEPRECIATION EXPENSE			PENALTY & INTEREST ON TAXES INTEREST INCOME SAD INTEREST UNREALIZED GAIN/LOSS	SEWER DISTRICT	DESCRIPTION
5,979,686.39 5,473,176.67 506,509.72 13,039,602.49 13,546,112.21	36,659.61 110,210.03 (73,550.42) 3,101,024.04 3,027,473.62	110,210.03	34,067.67	420.43 33,647.24	76,142.36	0.00 76,142.36	36,659.61	36,659.61	2,514.68 1,698.26 59,040.08 (26,593.41)		% Fiscal Year END BALANCE 06/30/2014
5,962,819.00 6,146,589.00 (183,770.00) 13,039,602.49 12,855,832.49	49,950.00 99,537.00 (49,587.00) 3,101,024.04 3,051,437.04	99,537.00	25,150.00	450.00 24,700.00	74,387.00	200.00 74,187.00	49,950.00	49,950.00	0.00 750.00 49,200.00 0.00		Completed: 33.70 2014-15 AMENDED BUDGET
234,548.79 1,602,155.21 (1,367,606.42) 13,039,602.49 12,178,505.79	0.00 12,411.74 (73,550.42) (12,411.74) 3,101,024.04 3,015,061.88	12,411.74	12,411.74	63.37 12,348.37	0.00	0.00	0.00	0.00	0.00 0.00 0.00 0.00		0 YTD BALANCE 10/31/2014
18,912.51 487,606.15 (468,693.64)	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	0.00	0.00		ACTIVITY FOR MONTH
5,728,270.21 4,544,433.79 1,183,836.42	49,950.00 87,125.26 (73,550.42) (37,175.26)	87, 125.26	12,738.26	386.63 12,351.63	74,387.00	200.00 74,187.00	49,950.00	49,950.00	0.00 750.00 49,200.00 0.00	DALANCE	AVAILABLE
3.93 26.07 744.19 25.03 25.03	12.47 25.03 25.03 25.03	12.47	49.35	14.08 49.99	0.00	0.00	0.00	0.00	0.000	OBED	% BDGT

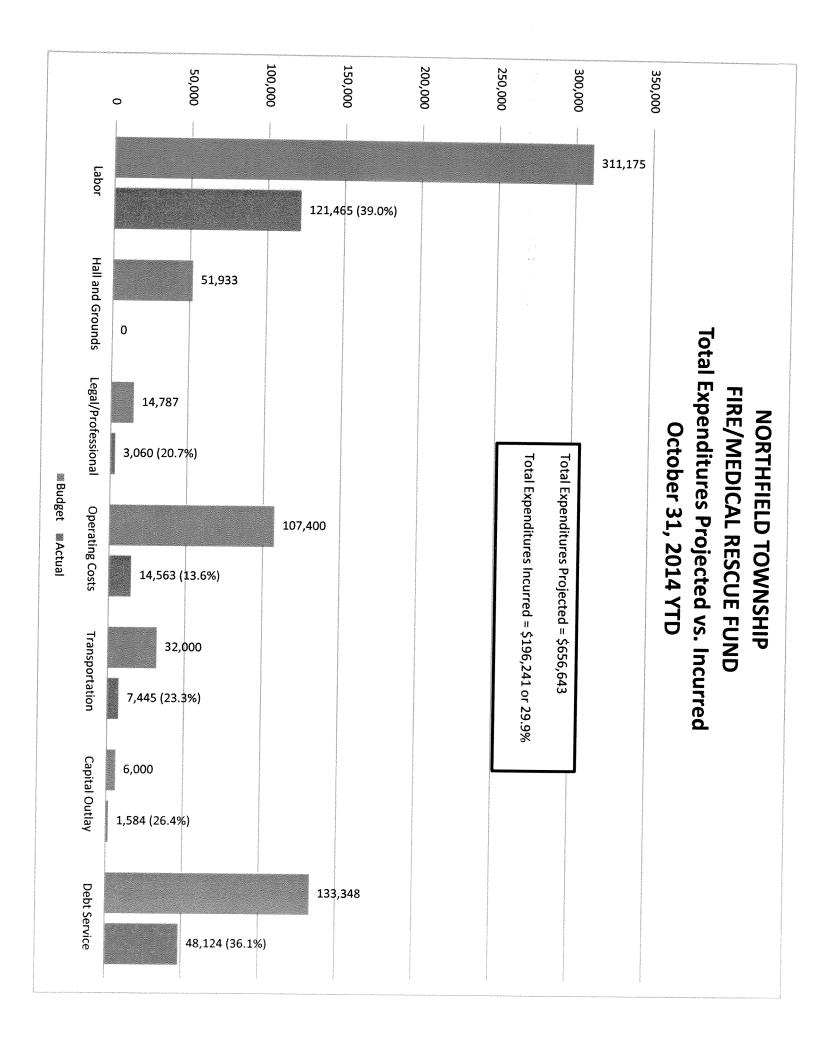


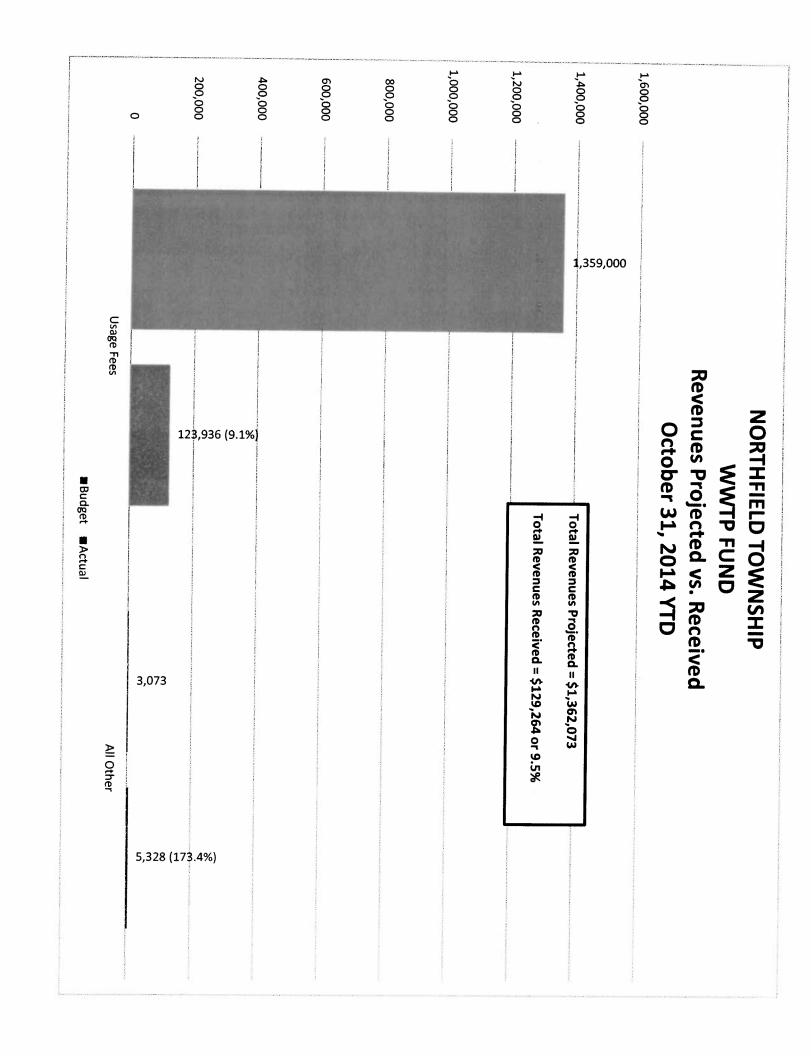












NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board

From: Howard Fink

Date: 11/6/2014

Re: Health Insurance Renewal

Dear Township Board,

I am still trying to come up with a solution that will be fair to all employees regarding the cost of health insurance. While I don't have all the numbers calculated just yet, the recommendation will most likely be to remove the hard caps and provide additional funds.

Warm Regards,

Howard Fink, Township Manager

Northfield Township

Effective Date: 12/1/2014



Current Plan Suffix	Current Plan Suffix	Alternative #1
0001	0002	
Blue Cross/Blue Shield	Blue Cross/Blue Shield	Blue Cross/Blue Shield
Simply Blue PPO	Simply Blue PPO HSA	Simply Blue PPO
\$1000	\$3,000/20% with Rx	Gold \$1000

In Network Benefits

Employer Contribution			
Maximum Out-of-Pocket	\$3,500/\$7,000	\$4,000/\$8,000	\$3,500/\$7,000
Coinsurance	80% After Deductible	80% After Deductible	80% After Deductible
Deductible	\$1,000/\$2,000	\$3,000/\$6,000	\$1,000/\$2,000
Urgent Care Copay	\$30	80% After Deductible	\$60
Emergency Room Copay	\$150	80% After Deductible	\$150
Chiropractic Copay	\$30	80% After Deductible	\$30
Office Visit Copays - Primary/Specialty	\$30/\$30	80% After Deductible	\$20/\$40

Out of Network Benefits

Deductible	\$2,000/\$4,000	\$6,000/\$12,000	\$2,000/\$4,000
Coinsurance	60% After Deductible	60% After Deductible	60% After Deductible
Maximum Out of Pocket	\$7,000/\$14,000	\$8,000/\$16,000	\$7,000/\$14,000

Prescription Drug Coverage

Prescription Drug Coverage	\$5/\$25/\$50	\$10/\$40/\$80 After	\$15/\$50/50%/20%/25%	t
		【 · · · · · · · · · · · · · · · · · · ·	\$19/\$30/30/0/20/0/23/0	
		Deductible		

Dental

Dental	Traditional Plus Dental	Traditional Plus Dental	Blue Dental PPO Plus
	Coverage - Plan 3	Coverage - Plan 3	SG 100/80/50/50
	100/75/50/50 (\$1,000	100/75/50/50 (\$1,000	(\$1,000 Annual Max)
	Annual Max)	Annual Max)	AND THE RESIDENCE OF THE PARTY
Vicion		 In the control of the c	

Vision

Vision	Blue Vision 12-12-12 Blue Vision 12-12-12	Blue Vision SG 12-12-12
	\$5/\$10 \$5/\$10	\$5/\$10

Northfield Township

Alternative #2	Alternative #3	Alternative #4
Blue Cross/Blue Shield Simply Blue PPO HSA Gold \$2000 w/Contribution	Blue Cross/Blue Shield Simply Blue PPO HSA Silver \$2000	Blue Cross/Blue Shield Simply Blue PPO HSA Bronze \$4000

Effective Date: 12/1/2014

80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible
\$2,000/\$4,000	\$4,000/\$8,000
80% After Deductible	80% After Deductible
\$4,500/\$9,000	\$6,350/\$12,700
	80% After Deductible 80% After Deductible 80% After Deductible \$2,000/\$4,000 80% After Deductible

\$4,000/\$8,000 \$4,000/\$8,000		\$8,000/\$16,000
60% After Deductible	60% After Deductible	60% After Deductible
\$9,000/\$18,000	\$9,000/\$18,000	\$12,700/\$25,400

\$15/\$50/50%/20%/	\$15/\$50/50%/20%/25%	\$20/\$60/50%/20%/25%
25% After Deductible	After Deductible	After Deductible
		i

Blue Dental PPO Plus	Blue Dental PPO Plus	Blue Dental PPO Plus
SG 100/80/50/50	SG 100/80/50/50	SG 100/80/50/50
(\$1,000 Annual Max)	(\$1,000 Annual Max)	(\$1,000 Annual Max)
		(, -, -, -, -, -, -, -, -, -, -, -, -, -,

Blue Vision SG 12-12-12	Blue Vision SG 12-12-12	Blue Vision SG 12-12-12
\$5/\$10	\$5/\$10	\$5/\$10



LAW OFFICE OF PAUL E. BURNS

Attorneys at Law
133 West Grand River
Brighton, Michigan 48116
(810) 227-5000 FAX (810) 220-5895

Paul E. Burns Bradford L. Maynes

ATTORNEY-CLIENT PRIVILEGED CONFIDENTIAL COMMUNICATION

November 6, 2014

VIA ELECTRONIC MAIL

Northfield Township Board of Trustees Township of Northfield 8350 Main Street Whitmore Lake, Michigan 48189

Re: Pending Michigan Tax Tribunal Matter

Dear Trustees.

Please find below a discussion of a pending Michigan Tax Tribunal matter for which the Township Assessor has been able to negotiate a settlement that our office and the Assessor can recommend to the Board. Below, please find a synopsis of this proposed settlement.

Mary L. Wolowiec Living Trust v Township of Northfield. MTT No. 14-005631

This matter involves a residential home located at 900 Jennings Road for the tax year 2014. For that tax year, the total values requested by Petitioner and the values assessed by the Township as Respondent are set forth below:

	Petitioner			Respondent		
Year	TCV	AV	ΤV	TCV	AV	TV
2014	\$280,000	\$140,000	\$140,000	\$313,080	\$156,540	\$156,540

Based on information received from Petitioner, the Assessor was able to perform a market analysis. This analysis indicated that the value of the property was below where the property was assessed. The Assessor was able to negotiate a value above that initially sought by Petitioner. The final resolution proposed by Petitioner sets assessed and taxable values to \$145,000 for 2014. The approximate reduction in Township revenue for 2014 would be \$91.

Northfield Township Board of Trustees November 6, 2014 Page 2

As set forth above, the negotiated values in the above Tribunal matter represent an increase in the values requested by the Petitioner. In addition, the valuation calculations performed by the Assessor indicate that the values on which we are settling are the actual values for the parcel in question, and therefore represent the most favorable outcome likely after a trial. As a result, it is the recommendation of both our office and the Assessor that the Township accept the negotiated settlement proposed by the Petitioner, above, as reflective of the actual values of the properties in question.

Please contact our office if you have any questions in this regard.

Very truly yours,

Bradford L. Maynes

BLM/li

cc: Mr. Howard Fink, Township Manager

Mr. Thomas D. Monchak, MAAO, MCPPE



INTEROFFICE MEMORANDUM

TO: Howard Fink, Northfield Township Manager

FROM: Brian Rubel

DATE: October 27, 2014

SUBJECT: Wastewater Capacity Summary

BACKGROUND

Northfield Township provides wastewater treatment services for portions of Northfield and Green Oak Township. This memo is prepared to summarize some key items related to wastewater treatment, in general, and sewer capacity in the southern part of the sewer system. The information within this memo comes from both past studies and more recent calculations of system capacity.

WASTEWATER TREATMENT CAPACITY

The Township owns and operates a tertiary (3-stage) wastewater treatment plant (abbreviated WWTP). The Township possesses a permit from the Michigan Department of Environmental Quality (MDEQ) to discharge wastewater to the Horseshoe Lake Drain. That permit allows the present plant to discharge 1.3 million gallons of wastewater per day (abbreviated mgd). The permit also provides provisions for Northfield to expand the WWTP up to 3.0 mgd should an expansion be desired.

Present flows average between 0.6 to 0.7 mgd. However, flows during the morning and evening arrive at a higher rate and during nighttime at a lower rate. During wet weather, the flows into the plant increase due to the infiltration of groundwater and the inflow of stormwater (abbreviated as I/I).

The difference between 0.7 mgd and the plant capacity of 1.3 mgd indicates the WWTP has capacity remaining during dry weather to serve new connections. Tetra Tech believes Northfield Township could add up to 1,900 residential equivalent user (abbreviated REUs with one REU being equivalent to one single family home) connections before the MDEQ would request the WWTP to be expanded. However, it is a legal and policy matter to determine how many of these 1,900 REUs may have been previously allocated to either Green Oak Township or the North Territorial SAD.

During large storms, WWTP Superintendent Hardesty reports that the incoming flows can exceed 3 mgd. Above a peak rate of 2 mgd, the WWTP staff must bypass some treatment processes due to capacity limitations. Bypass of treatment processes are not desired and create a risk that the permit limits may not be met. Thus, any significant new development will increase the flows during wet weather and make effective treatment more challenging.

It is subjective as to what a significant development may be. Wastewater from a few new homes would be immeasurable at the WWTP. It is my opinion that after about 100 new homes, an increase in flow would be noticeable and measurable at the WWTP and create additional operational challenges.

Northfield Township has long considered constructing a storage basin at the WWTP. The purpose of the storage basin would be to capture wet weather flows and return the water to the WWTP after the storm. Tetra Tech has records that show as early as 1988 a storage basin was discussed. However, a storage basin has never been constructed.

During development interest in 2005, the Township requested Tetra Tech to prepare a cost opinion for a plant expansion (to a capacity of 2.25 mgd) and construction of a storage basin. The opinion of cost for that improvement was \$12.7 million. Given the age of this opinion and changes to state law regarding the sizing of storage basins, the cost would be significantly larger today.

Due to the observed wet weather restrictions at the WWTP, Tetra Tech suggests that the Township again consider construction of a storage basin concurrent with significant development. A plant expansion would not be immediately needed to serve new development unless the research shows the available dry weather capacity has been reserved for Green Oak and special assessment districts.

NORTH TERRITORIAL SPECIAL ASSESSMENT DISTRICT

The existing North Territorial Special Assessment District (SAD) was constructed in year 2000 and consists of a collection sewer, pump station, and 12-inch diameter force main to Eight Mile Road. These facilities were sized to accommodate the approximately 1,500 REUs that were projected to be constructed within the SAD limits. Current connections are far below this number as little development within the SAD has occurred.

The pump station and force main were not sized for additional connections beyond the limits of the SAD. It was assumed that future growth would construct pump station improvements including parallel force main(s). An opinion of cost was prepared in 2003 that places a value of \$2.28 million on the next improvement. The cost will be larger in today's dollars.

Given the sparse density of development within the existing SAD, the existing North Territorial Pump Station and existing force main can accommodate growth until the number of REUs reaches 1,500. However, Tetra Tech suggests that significant new developments contribute funds toward constructing the pump station and force main improvements that will eventually be needed as well as the cost of the storage basin at the WWTP.

SUMMARY OF KEY THRESHOLDS

Total REUs	Need
100 or more additional (anywhere in Township)	Raise funds for WWTP storage
100 or more additional (North Territorial area)	Raise funds for new pump station and force main
1,500 or more total (North Territorial area)	Construct pump station and force main improvements
1,900 additional (anywhere in Township)*	Construct WWTP expansion

^{*}assuming capacity has not been reserved for Green Oak Township or other users

There are negligible current connections to North Territorial Pump Station (fewer than 100) thus an additional number of REUs is approximately the same number as the total number of REUs. To illustrate the use of the table with just one example, if 1,500 REUs of development demand materializes tributary to the North Territorial

Pump Station and 400 REUs materialize elsewhere in the system, Northfield Township would need to initiate all of the items listed in the above table.				tiate all
				٠

NORTHFIELD TOWNSHIP SEWER SYSTEM CAPACITY SUMMARY NORTH TERRITORIAL SERVICE AREA

CAPACITY/DEMAND

NEED

REFERENCE

Any significant new development

Equalization Basin

Operator Observation

(say 100 REUs)

Above 1,522 REUs and Below 3,044 REUs

New NT Pump and Force Main

2003 Sewer Study

Additional 1,923 REUs

WWTP Expansion

85% of ex. 1.3 mgd capacity

Above 3,044 REUs

New NT Pump Station

2003 Sewer Study

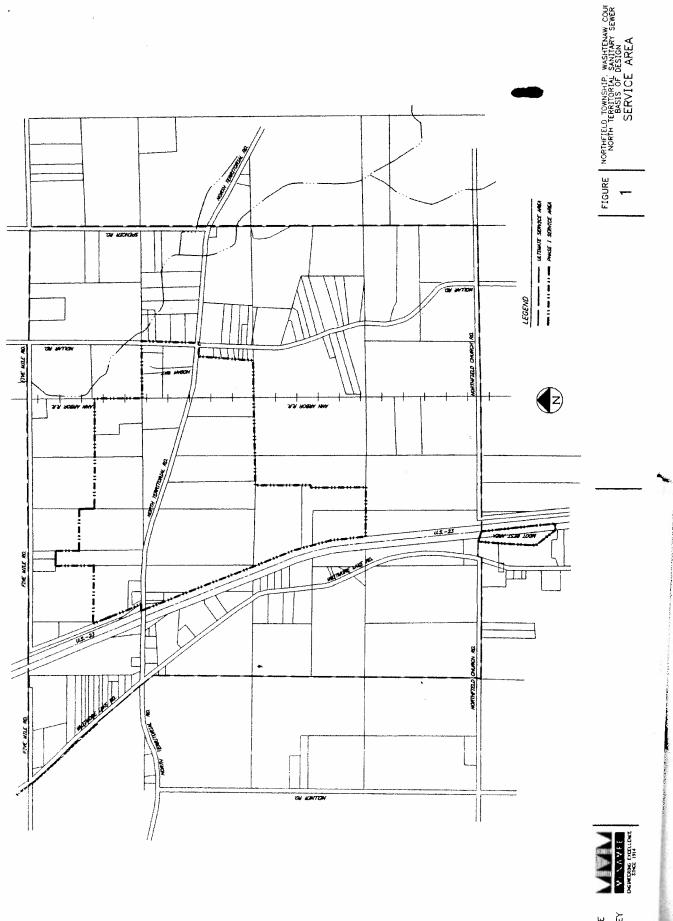
NOTES

Given that the North Territorial SAD Is not built-out, new connections could occur as long as provisions are in place to collect connection fees needed to repay the costs of future infrastructure.

Existing North Territorial SAD design basis was 1,522 REUs

Sizing of needed WWTP facilities requires extensive analysis and new cost opinions since 2002

EQ basin sizing and WWTP expansion are interrelated. Doing both simultaneously will lower project costs.



MCNAMEE PORTER & SEELEY INC.

NORTHFIELD TOWNSHIP WWTP CAPACITY TIMELINE

DATE	EVENT
1961	WWTP Constructed
1975	WWTP Expanded
1983	WWTP Expanded
1988	WWTP Expanded. Equalization storage proposed but not built.
1993	WWTP Expanded
1998	WWTP Expanded
1998	North Territorial SAD conceived to serve Phase I development only
2000	North Territorial SAD Phase I constructed
2001	Very brief wet weather study. Recommendations not implemented
2002	Brief sewer capacity report funded by developer. Reiterates need for major capital improvements to support growth near North Territorial
2005	WWTP expansion and equalization storage discussed for growth. Neither project proceeds.

WWTP CAPACITY SUMMARY

Average flow 0.6 to 0.7 million gallons/day (mgd)

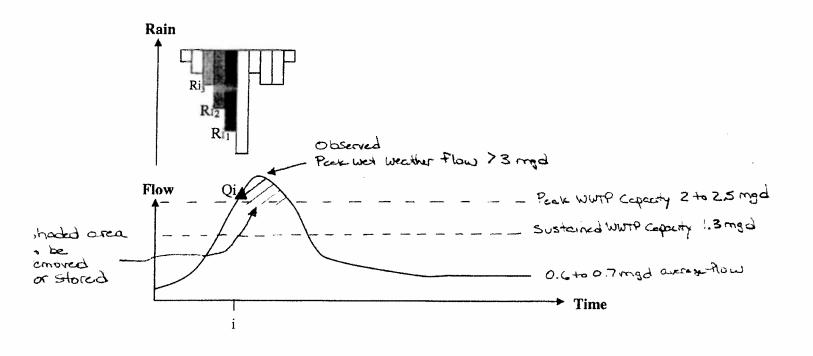
Rated capacity (sustained) in permit 1.3 mgd

Peak flow observed >3 mgd

Peak flow capacity 2.0 to 2.5 mgd

MDEQ requires accommodating 3.9-inch storm without bypassing treatment

NORTHFIELD TOWNSHIP WWTP SAMPLE HYDROGRAPH



NORTHFIELD TOWNSHIP

North Territorial Sanitary Sewer Improvements

CONTRACTS 0196.064-S-1, S-2, AND S-3

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- 1 Service Area
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INTRODUCTION

GENERAL

2 4

The North Territorial Sanitary Sewer Improvements are located in Northfield Township, Washtenaw County, Michigan. Phase I of the project is designed to provide sanitary sewer service to existing and future developments along North Territorial Road from US-23 to Nollar Road. The development of this area has been hindered due to poor soil conditions and a high groundwater table. The project will include approximately 11,500 linear feet of gravity sewer, 21,000 linear feet of transmission main along US-23, a new pump station at North Territorial Road, and the reconstruction of the Eight Mile Road Station. Northfield Township will own, operate, and maintain the proposed system.

SERVICE AREA

Enclosed is a map (Figure 1) which delineates the proposed Phase 1 and Ultimate service areas. The Phase 1 service area consists of primarily vacant land along North Territorial Road from US-23 to Nollar Road. The majority of the land is zoned RTM (research), which supports development such as offices and light industrial facilities. The "Ultimate" service area was determined by the Township as a tool to facilitate the sizing of the interceptor sewers and pump stations being installed.

PROPOSED FACILITIES

The system will be a combination of gravity sewers, pump stations, and force mains. The area along North Territorial Road will be served by a gravity sewer on the south side of the road. The sewer will drain west from Nollar Road to a submersible pump station near Five Mile Road. A gravity sewer will also be extended west of US-23 to provide service for the MDOT rest area and the portion of the "Ultimate" service area which is west of US-23. The pump station will discharge through a 12-inch pressure main across US-23 and north along US-23 to Eight Mile Road. The force main will discharge to the Eight Mile Road pump station, which will be reconstructed to handle this additional flow. The new Eight Mile Road Pump Station will continue to discharge to the Northfield Township Wastewater Treatment Plant on Leman Road in Green Oak Township, Livingston County, Michigan. Table 1 shows proposed sizes and footage of the gravity sewers and force mains.

Table 1
Sizes of Gravity Sewers and Force Mains

Item	Size	Lineal Feet	TOTAL
Gravity Sewer	8"	2,050	
	12"	3,700	
	18"	5,750	11,500
Force Main	12"	21,000	21,000

EXISTING SEWER SYSTEM

The existing sanitary sewer system in Northfield Township is composed of gravity sewers and force mains discharging to the main pump station on Eight Mile Road and ultimately to the Northfield Wastewater Treatment Plant. The existing wastewater treatment plant uses primary settling tanks, a trickling filter, aeration tanks, final settling tank, and sand filters to treat wastewater. The Township is currently expanding the facility by adding an additional aeration tank, final settling tank, and sand filters. Future expansions plans include constructing an equalization basin, primary settling tank, final tank, sand filter, and a sludge storage tank. The pump station at Eight Mile Road will be reconstructed to accommodate the additional flow due to planned future developments in the service area.

BASIS OF DESIGN

The design capacities of the gravity sanitary sewer, force main, and pumping stations are based on the projected development of the service districts. The design assumptions for the development rate are listed below.

GRAVITY SEWER

The flows from gravity sewer are based on the predicted average flow, with a peaking factor to account for the diurnal fluctuations associated with sanitary flow.

Population (average household)

2.6

Per Capita Flow Rate

100 gal/day

Peaking Factor

Based on Ten States Standards

The commercial and industrial users were equated to residential users by Residential Equivalent Units (REUs). Each REU equates to 260 gallons per day based on the residential user flow. Table 2 shows the existing facilities and the number of REUs that they have been assigned for design purposes

Table 2
Existing Facilities

No.	Description	REUs
1-4	Single Family Homes	4
5	Duplex Home	2
6	Sunoco	2
7	Moehrle, Inc.	5
8	Carter Lumber	1
9	Ann Arbor Dog Training	1
10	Bloom Roofing System	1
11	Rhetec	31
12	MDOT Rest Area	22
	TOTAL	69

The projected wastewater flows are based on zoning and future anticipated land use. Table 3 lists zoning classifications, areas, and the existing and estimated flow associated with each zoning.

Table 3
Estimated Flows

Zoning	Avg.Flow/ Acre	Phase 1 Acres	Ultimate Acres	REUs /Acre	Phase 1 Flow	Ultimate Flow
R	520	0	1500	2	0	780,000
0	650	0	150	2.5	0	97,500
RTM	650	400	550	2.5	260,000	357,500
GI	650	70	70	2.5	45,500	45,500
GC	780	69	220	3	53,820	171,600
PSC	910	40	100	3.5	36,400	91,000
TOTAL		579	2,550		395,720	1,543,100

The zoning terms are defined as follows:

R residential

O office

RTM research

GI general industrial

GC general commercial

PSC planned shopping center

Figure 2 shows a map of the zoning within Phase 1 and the Ultimate service areas. Figure 3 shows the flow patterns and estimated size of the main in the Phase 1 service area.

Table 4 shows the subareas of the Ultimate service area and the projected flows contributing to the main; this table does not include the flow from the two new developments shown on Figure 3. The total ultimate peak flow to the North Territorial pump station is expected to be 4.73 MGD.

Table 4
Subareas and Expected Flows

Subarea	Zoning	Avg. Flow (gpd)	Projected Flow (MGD)
A	PSC/R	168,350	0.66
В	R	187,200	0.56
С	R/GI	334,100	1.01
D	RTM/R	187,200	0.61
Е	GC/O/R	315,221	0.99
F	GC/R	75,267	0.32

Table 5 indicates the pipe sizes and expected flows for the sewer system on North Territorial Road. The pipe numbers correspond to the numbers on the map in Figure 3. The sewers are sized to carry the future ultimate flow as the service area is developed.

Table 5

North Territorial Pipe Sizing

Pipe Number	Pipe Size (inches)	Pipe Cap. (MGD)	Projected Peak Flow (MGD)
1	8	0.72	0.25
2	12	1.56	0.60
3 - 5	18	3.54	1.90
6	8	0.72	0.01
7	18	3.54	2.76
8	18	3.54	1.97
9	12	1.56	1.31
TOTAL			4.73

3300 apra

SUBMERSIBLE PUMPING STATIONS

Eight Mile Road

The submersible station on Eight Mile Road will be designed to provide continuous flow to the WWTP by using variable speed pumps that will be controlled with sonic level transmitters. The pumps will be non-clog sewage pumps that will pass three-inch solids. The pumps will discharge flow from the wet

well through a plug valve (shutoff) and a check valve (to prevent backflow) to a common header pipe in the valve vault located in the electrical building.

The pumps will be explosion-proof, UL or FM approved. The pumping station will be provided with stainless steel lifting chains, slides, and guide rail systems for pump removal and maintenance. The pump station will have a divided wet well with sluice gates to allow isolation of either side of the station for maintenance.

The Eight Mile Road pump station will be provided with a permanent generator for use in case of a power outage. The generator will be equipped with an automatic transfer switch that will automatically transfer power from the control panel to the generator in the event of power failure. The Eight Mile Road pump station will also have a bypass line that will enable the operators to run the pump station with a portable pump in the event that either the pumps in the station are down or the control panel is not functioning. Table 6 shows existing and future REUs considered in the design of the Eight Mile pump station.

Table 6

Existing and Future Service at Eight Mile Station

Service Area	REUs
Existing Flow	2,730
Shadowood	44
Eagle Gardens	162
Wildwood	70
Winterhaven Condominiums	30
Westbrook Apartments	132
Future	400
TOTAL	3568

Table 7 provides a summary of design parameters for the Eight Mile Road pumping station.

Table 7
Eight Mile Road Pumping Station Design Data

Design REUs	4168	
Design Hour(gpd/REU)	260	
Peaking Factor	4*	
Design Peak Hour Flow (gpm)	3300	
Design Firm Pumping Capacity (gpm)	3300	
Number of Pumps	4	
Pump Control Method	Sonic Level Transmitter	
Total Dynamic Head (feet)	100	
Force Main Length (feet) and Size (inches)	6,000 12 & 8	
Wet Well Dimensions (feet)	16.5 x 17	
Wet Well Working Volume (gallons)	3345	
Wet Well Storage Volume (gallons)	9186	
Type of Telemetry	radio	

^{*} Value obtained from flow study.

North Territorial Road Pump Station

The submersible station at North Territorial Road will be designed as a triplex station to accommodate flow from future planned developments. Two pumps will be installed initially, with the third pump added once future flows are introduced to the sewer system.

The pump station at North Territorial Road will have submersible pumps. The pumps will be non-clog sewage pumps that will pass three-inch solids. The pumps will discharge flow from the wet well through a plug valve (shutoff) and a check valve (to prevent backflow) to a common header pipe in an underground valve vault. The submersible station at North Territorial Road will be equipped with a portable generator for use in the event of a power outage. The pumps will be explosion-proof, UL or FM approved. The pumping station will be provided with stainless steel lifting chains, slides, and guide rails systems for pump removal and maintenance.

Table 8 provides a summary of design parameters for the North Territorial Road Pumping Station.

Table 8

North Territorial Road Pumping Station Design Data

Design REUs	600
Design Hour (gpd/REU)	260
Peaking Factor	3
Design Peak Hour Flow (gpm)	700
Design Firm Pumping Capacity (gpm)	3300
Number of Pumps	3
Pump Control Method	Sonic Level Transmitter
Total Dynamic Head (feet)	80
Force Main Length (feet) and Size (inches)	23,000 ft., 12-inch
Wet Well Dimensions (feet)	10 x 12
Wet Well Working Volume (gallons)	4040
Wet Well Storage Volume (gallons)	7181
Type of Telemetry	radio

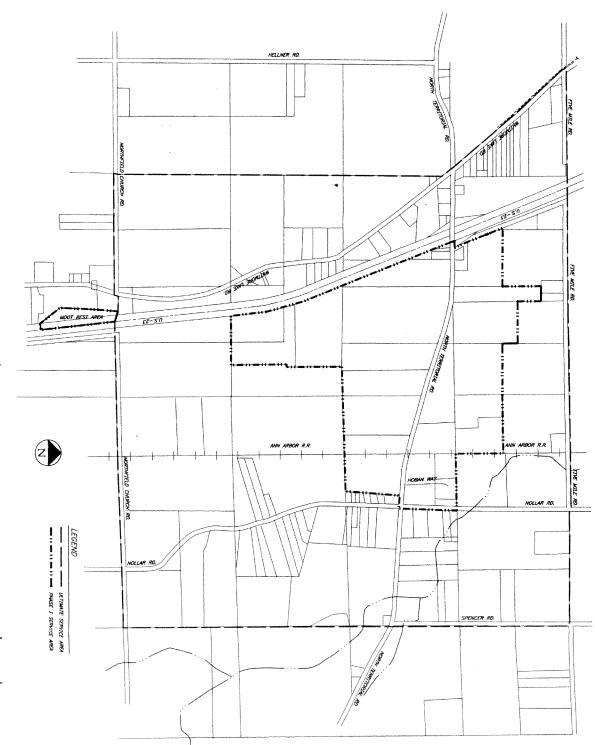
Telemetry

The Eight Mile Road pump station will be provided with a sonic level transmitter that will read the level of volume in the station. The transmitter will read levels and send the information via radio transmitter to monitoring equipment at the plant. The monitoring equipment at the plant will notify the operators to respond to the alarm. This communication equipment helps increase response time and prevent extended down-time of the pumping station.

The pump station at North Territorial Road will be equipped with a sonic level transmitter in the wet well. The sonic level transmitter will read levels and send the information via radio transmitter to monitoring equipment at the plant. The monitoring equipment at the plant will notify operators to respond to the alarm.







NORTHFIELD TOWNSHIP, WASHTENAW COUNTY NORTH TERRITORIAL SANITARY SEWER BASIS OF DESIGN SERVICE AREA

McNAMEE
PORTER
& SEELEY
INC.



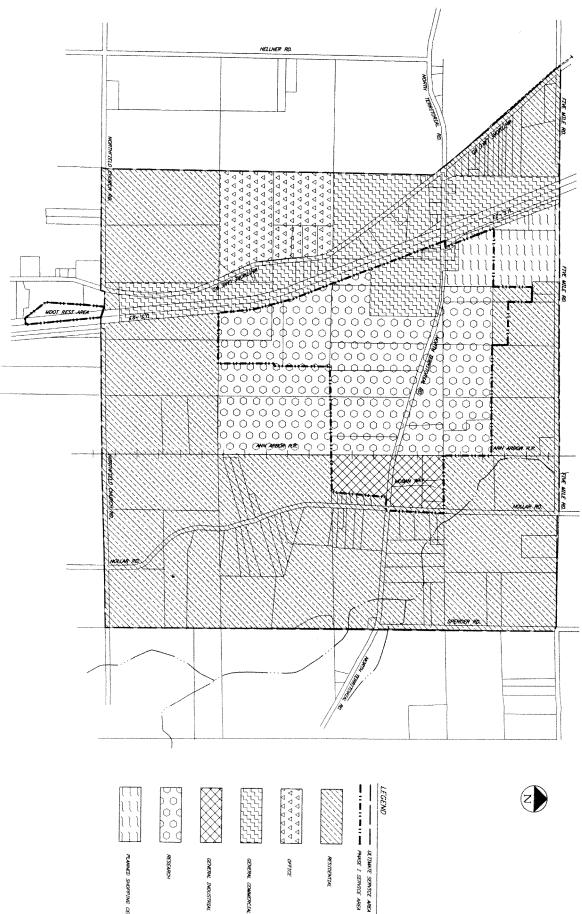


FIGURE 2

 \mathcal{B}

3 RSTIMATED FLOWS



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PUMP STATION

Northfield Township, Michigan

NORTHFIELD TOWNSHIP SANITARY SEWER STUDY

Prepared by



Tetra Tech MPS

November 2003

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Whitmore Lake Vicinity Conceptual Opinions of Probable Cost

Service District 1

Service District 2

Service District 3 - Option A

Service District 3 - Option B

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Service District 4

Eight Mile Pump Station Upgrade

APPENDIX B

North Territorial Vicinity Conceptual Opinions of Probable Cost

Service District 5

Service District 6

Service District 7

North Territorial Pump Station Parallel Force Main Installation

North Territorial Pump Station Force Main Extension to WWTP

APPENDIX C

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EXECUTIVE SUMMARY

This report has been prepared on behalf of Northfield Township to identify and develop sanitary sewer infrastructure alternatives to serve future developments in the Whitmore Lake, North Territorial Road, and Northfield Church Road vicinities.

The study area consists of approximately 2,760-acres of land that have the potential to be developed for commercial, industrial, and residential uses. The land within the proposed study area is primarily vacant in the North Territorial and Northfield Church Road vicinities, with existing commercial and residential developments located predominantly in the Whitmore Lake vicinity. The estimated average day sewage flow from the Whitmore Lake and North Territorial vicinities is approximately 680,000 gallons per day, while the sewage flow from the Northfield Church Road vicinity is approximately 1,160,000 gallons per day. For projected growth rates in Northfield Township, sewage flow from the Northfield Church Road vicinity is not anticipated in the next twenty years.

Service districts have been identified to provide transport of sanitary sewage from the Whitmore Lake and North Territorial vicinities. The specific service districts and conceptual opinions of probable project cost are presented below.

Service District Opinions of Probable Project Cost			
Service District	Conceptual Opinion of Probable Project Cost		
1	\$860,000		
2	\$780,000		
3 – Option C	\$2,320,000		
4	\$350,000		
5	\$1,180,000		
6	\$530,000		
7	\$840,000		
8 Mile PS Upgrade	\$600,000		
N. Territorial PS Upgrade	\$2,950,000		
Totals	\$10,410,000		

Detailed opinions of probable project cost for the Whitmore Lake vicinity Service
Districts 1 through 4 and Eight Mile Pump Station Upgrade are located in Appendix A.
Detailed opinions of probable project cost for the North Territorial vicinity Service
Districts Zones 5 through 7 and North Territorial Pump Station Upgrade are located in Appendix B.

It is recommended that Northfield Township pursue improvements to the sanitary sewer system that encompass both expansion of new infrastructure and increasing capacity of existing infrastructure as new development is identified in the Whitmore Lake and North Territorial vicinities. Due to the uncertainty regarding location and timing of new development in the Whitmore Lake and North Territorial vicinities, it is also recommended infrastructure improvements be over-sized to minimize the potential of future sewage flow exceeding the capacity of these infrastructure improvements.

The sanitary sewage from the study area will be directed to the existing Northfield Township Wastewater Treatment Plant (WWTP). Inclusion of the study area into the existing sanitary sewer system will require expansion of the existing WWTP.

INTRODUCTION

This sanitary sewer study has been prepared on behalf of Northfield Township to evaluate alternatives to provide sanitary sewer service to areas in the vicinity of Whitmore Lake and North Territorial Road. The land within the proposed expanded service areas is primarily zoned Agriculture, but there is indication that development of these areas for residential, commercial, and limited industrial development is likely. This sanitary sewer study evaluates alternatives for providing sanitary sewer service for the anticipated development, including improvements to existing sanitary infrastructure for transport to the Northfield Wastewater Treatment Plant (WWTP).

EXISTING SERVICE AREAS

Whitmore Lake Vicinity

The existing sanitary sewer infrastructure in this vicinity extends around the entire perimeter of Whitmore Lake, accepting sanitary flow from predominantly residential neighborhoods in both Northfield and Green Oak Townships. Sanitary flow is collected and transported by gravity sewer and periodically by pump stations, with the primary transmission sewers located along Main Street and East Shore Drive. Additionally, sanitary sewer extends south along Whitmore Lake Road from East Shore Drive to Six Mile Road, servicing a mixture of commercial and residential properties. Flows from around Whitmore Lake and Whitmore Lake Road are combined and transported west underneath US-23. These combined flows, as well as additional residential sanitary sewer flow from Barker Road, are directed to the 8 Mile Pump Station. Sewage flow from the Eight Mile Pump Station is transported via a force main and discharges at the Northfield WWTP. A map of the Whitmore Lake Vicinity sanitary sewer system is shown in Figure 1.

The original transmission sewer mains along East Shore Drive, Main Street, and Whitmore Lake Road to the Eight Mile Pump Station were constructed in the late 1960's

and consist of 12, 15, and 18-inch pipe installed at minimum grades. With the resulting development in the past several decades since their installation, the peak flows in sections of these sewer pipes have been measured and have been found to be near the maximum pipe capacities during large rain events due to inflow and infiltration. It is expected that the gravity sewer capacity between the East Shore Drive and Main Street intersection and the Eight Mile Pump Station will be exceeded during the 25-year or greater rain event with the onset of additional development. Anticipated peak sewage flows during the 25-year rain event and corresponding pipe capacities are shown in Figure 2.

The East Shore Pump Station 1, located on East Shore Drive between Main Street and Seven Mile Road, accepts flow from the north and eastern extents of Whitmore Lake. This pump station is designed with a firm pumping capacity of 450-gpm and is nearing the limits of its design capacity. The Washtenaw County Road Commission (WCRC) has indicated that they will require the relocation of this pump station away from its current location should the pump station be upgraded or otherwise modified. There is the potential that the WCRC may require the pump station to be moved even if no improvements are performed if they undertake roadway improvements.

The Eight Mile Pump Station was reconditioned and upgraded in 2000 to a firm pumping capacity of 3,300-gpm. Currently, this pump station accepts flow from the Whitmore Lake vicinity as well as flow from the North Territorial vicinity via the North Territorial Pump Station. During peak flow conditions, the Eight Mile Pump Station is at approximately two-thirds its firm pumping capacity. Flow from the Eight Mile Pump Station enters a 12-inch force main and travels approximately 3,000 linear feet to the Northfield WWTP. There is also a parallel existing 8-inch force main from the pump station to the WWTP that was taken out of service approximately twelve years ago. There is the potential that this 8-inch force main has deteriorated from disuse to a point where it is no longer suitable for sanitary sewer service in the future.

North Territorial Vicinity

The existing sewage flow in this vicinity extends along North Territorial Road from Whitmore Lake Road to the Ann Arbor Rail Road, just west of Nollar Road. This infrastructure was installed in 2000 and consists of 8, 12, 15, and 21-inch gravity sewer as well as the North Territorial Pump Station. Flow from the North Territorial Pump Station is directed along approximately 21,000 linear feet of 12-inch force main to the Eight Mile Pump Station. A map of the North Territorial Vicinity sanitary sewer system and the current service districts is shown in *Figure 3*.

The gravity sewer along North Territorial Road and the pump station were designed to accommodate the anticipated commercial and light industrial development within the special assessment district. Currently, this system experiences little demand, as major development in this area has not commenced as anticipated.

The North Territorial Pump Station was originally designed with an ultimate firm pumping capacity of 1,400-gpm through a pair of parallel 12-inch force mains. Currently, the firm pumping capacity of the station is set at 700-gpm through a single force main. When further capacity is required, the pump station is ready to be installed with an additional pump, which will upgrade the firm pumping capacity to the ultimate 1,400-gpm. As originally planned, the increase in firm pumping capacity to 1,400-gpm will require the installation of a second 12-inch force main to the Eight Mile Pump Station. Attempting to transport 1,400-gpm through the single 12-inch force main will generate total dynamic head in excess of the pumps' ability to generate flow.

Northfield Wastewater Treatment Plant

The existing sanitary sewer flow from the Eight Mile Pump Station discharges directly to the Northfield WWTP via a 12-inch force main. The Northfield WWTP currently processes an average daily flow of approximately 800,000 gallons per day, with the capacity to process an average daily flow of 1,300,000 gallons per day. The Phase I special assessment district (SAD) for the North Territorial sanitary sewer improvements

constructed in 2000 encompasses land expected to generate an average daily flow of approximately 390,000 gallons (1500 REU) per day. Combining the existing WWTP flow with the expected flow from the North Territorial Phase I (SAD), as well as an average daily flow of approximately 39,000 gallons (120 REU) per day currently allocated to Green Oak for Whitmore Lake vicinity development, there is approximately 71,000 gallons (270 REU) of average day flow capacity remaining. The construction of the Whitmore Lake High School, expected to require 120 REU, will further reduce the available capacity at the WWTP to approximately 150 REU. Any development beyond this limited capacity will require expansion of the WWTP.

PROJECTED DEVELOPMENT AREAS

The study area includes approximately 2,760-acres of land that have the potential to require public sanitary sewer service. These areas are currently zoned *Agriculture*, and in the future they are likely to experience residential, commercial, and light industrial development growth.

Whitmore Lake Vicinity

Four new development areas have been identified by Northfield Township that would connect to the existing sanitary sewer infrastructure around Whitmore Lake. The areas and Northfield Township's expectations for future zoning are shown in *Figure 4* and are described as follows.

- Wildwood Lake Area Approximately 258-acres of land between Kearney and Jennings Roads, south of Wildwood Lake. This area has the potential to be rezoned Single Family Residential 1, with a maximum density of 4 residences per acre.
- Seven Mile Area Approximately 234-acres of land along 7 Mile Road between
 East Shore Drive and Donna Lane. This area has the potential to be rezoned
 Single Family Residential 1, with a maximum density of 4 residences per acre.
- Kelly Area Approximately 282-acres of land south of the Eagle Gardens
 development, east of Whitmore Lake Road. This area has the potential to be
 rezoned Single Family Residential 1, with a maximum density of 4 residences per
 acre. This land is not expected to develop within the next twenty years.
- Whitmore Lake High School Area Approximately 82-acres of land on
 Whitmore Lake Road, between Five Mile and Six Mile Roads. This area is being
 developed for the proposed Whitmore Lake High School, which is expected to
 accommodate 1,200 students.

North Territorial Vicinity

Seven new development areas have been identified by Northfield Township that will connect to the existing sanitary sewer infrastructure along North Territorial Road. The areas and Northfield Township's expectations for future zoning are shown in *Figure 5* and are described as follows.

- Six Mile Commercial Area Approximately 13-acres of land on Six Mile Road, east of Whitmore Lake Road on either side of US-23. This area has the potential to be rezoned Highway Commercial.
- US-23 Service Road Commercial Area Approximately 26-acres of land north
 of an existing service road east of US-23, between North Territorial and Five Mile
 Roads. This area has the potential to be rezoned General Commercial.
- US-23 Service Road Residential Area Approximately 17-acres of land north
 of an existing service road east of US-23, between North Territorial and Five Mile
 Roads. This area has the potential to be rezoned Multiple Family Residential,
 with a maximum density of five residences per acre.
- Grand Sakwa Phase I Area Approximately 212-acres of land west of
 Whitmore Lake Road between Five Mile and North Territorial Roads. This area
 has the potential to be rezoned Single Family Residential 1, with approximately
 470 residences expected within the development.
- Whitmore Lake Road Commercial Area Approximately 225-acres of land east of Whitmore Lake Road, between Five Mile and North Territorial Roads.
 This area is currently zoned General Commercial.

- Nollar Road Commercial Area Approximately 58-acres of land west of the Nollar and North Territorial Road intersection. This area is currently zoned General Industrial.
- Nollar Road Residential Area Approximately 9-acres of land on Nollar Road, south of the intersection with North Territorial Road. This area is currently zoned and expected to remain Low Density Residential, with a maximum density of one residence per acre.

Northfield Church Road Vicinity

Five new development areas have been identified by Northfield Township that will connect to the existing sanitary sewer infrastructure along North Territorial Road. Assuming an average growth rate of two percent (2%) for the Township, it is not likely that these areas will experience development levels in the next twenty years sufficient to support the construction costs of extending sanitary sewer service. The areas and Northfield Township's expectations for future zoning are shown in *Figure 5* and are described as follows.

- Whitmore Lake Road Industrial Area Approximately 26-acres of land on the
 east side of Whitmore Lake Road, between North Territorial and Joy Roads. This
 area has the potential to be rezoned Limited Industrial.
- Whitmore Lake Road Residential Area Approximately 3,530-acres of land west of Whitmore Lake Road between North Territorial and Northfield Church Roads. This area has the potential to be rezoned a mixture of Single Family Residential 1, Single Family Residential 2, and Multiple Family Residential.
- Northfield Church RTM-A Area Approximately 360-acres of land east of US-23, between North Territorial and Northfield Church Roads. This area has the potential to be rezoned Research, Manufacturing and Technology.

- Northfield Church RTM-B Area Approximately 145-acres of land west of Nollar Road and north of Northfield Church Road. This area has the potential to be rezoned Research, Manufacturing and Technology.
- Northfield Church RTM-C Area Approximately 616-acres of land east of US-23 and south of Northfield Church Road. This area has the potential to be rezoned Research, Manufacturing and Technology.

PROJECTED WASTEWATER FLOWS

Resident Equivalent Units (REUs) were used to equate sanitary flow from commercial and industrial users to residential users. An REU represents a typical single family residential home. The average sewage flow for each REU is 260 gallons per day average. The 260 gallons per day is based on 100 gallons per day per person and 2.6 persons per household. The maximum day flow is typically estimated to be twice the average day flow, and the peak hour demand is determined per the *Ten States Standards*, which for this study has been calculated at three and one-half times the average day flow. The design flows used in this study are as follows.

Average Day Demand = 100 gpd per person x 2.6 people per household = 260 gpd / REU

Maximum Day Demand = Average Demand x 2 = 520 gpd / REU

Peak Hour Demand = Average Day Demand x 3.5 = 910 gpd / REU

Additionally, Northfield Township has several zoning classifications within the Existing and Projected Development Areas. Each zoning district has a maximum allowable development density that corresponds to an average number of REUs per acre. The assumed development densities used in this study are presented in Table 1.

Table 1 - Development Densities			
Zoning Classification	Abbreviation	REU / Acre	
Single Family Residential 1	SFR1	4.0	
Single Family Residential 2	SFR2	5.8	
Low Density Residential	LR	1.0	
Multiple Family Residential	MR	5.0	
General Commercial District	GC	2.5	
Highway Commercial District	GI	2.5	
Limited Industrial District	НС	2.5	
Planned Shopping Center	LI	2.5	
Research / Technology / Manufacturing	RTM	2.5	

The development density of 2.5 REU per acre for commercial, industrial, and RTM zoning is based on current development trends in neighboring townships.

In determining REUs for large single-family zoned residential projects, it is assumed that twenty-five percent (25%) of the total acreage available will be utilized for roads, easements, and storm water runoff areas, leaving seventy-five percent (75%). However, or the purposes of this study, an additional factor of seventy percent (70%) has been applied as the maximum allowable development density for the remaining acreage in the residential zoned projects. This percentage has been applied to account for portions of the land in the study area that cannot be built upon due to poor soil conditions, wetlands, or other land constraints. Computation of REUs on a typical 20-acre single-family residential zoned parcel is shown below.

Example

Maximum Development Density = 20-acres x 2 REU / acre x 75% x 70% = 21 REU

For commercial, industrial, and multiple-family zoned parcels, only the seventy percent (70%) factor has been applied as the maximum allowable development density for the total acreage of the parcel. As with the single-family parcels, this percentage has been applied to account for portions of land in the study area that cannot be built upon. Computation of REUs on a typical 20-acre commercial zoned parcel is shown below.

Example

Maximum Development Density = 20-acres x 2.5 REU / acre x 70% = 35 REU

Using the development densities in Table 1 and the seventy percent development assumption, the number of REUs and designed wastewater flows in the projected development areas are presented in Table 2.

		Table	2					
REU Projection & Design Wastewater Flows								
Development Area	Total Acres	REU Projection	Average Day Demand (gallons)	Max Day Demand (gallons)	Peak Hour Demand (gallons)			
Wildwood Lake	258	540	140,000	280,000	491,000			
Seven Mile	234	490	127,000	254,000	446,000			
Kelly	282	600	156,000	312,000	546,000			
High School	82	120	31,000	62,000	109,000			
Six Mile Commercial	13	30	8,000	16,000	27,000			
US-23 Service Rd Commercial	26	50	13,000	26,000	46,000			
US-23 Service Rd Residential	17	50	13,000	26,000	46,000			
Grand Sakwa Ph I	212	470	122,000	244,000	428,000			
Whitmore Lake Rd Commercial	71	130	34,000	68,000	118,000			
Nollar Road Commercial	58	110	29,000	58,000	100,000			
Nollar Road Residential	9	10	3,000	6,000	9,000			
Whitmore Lake Rd Industrial	610	2450	637,000	1,274,000	2,230,000			
Whitmore Lake Rd Residential	26	50	13,000	26,000	46,000			
Northfield Church RTM-A	360	630	164,000	328,000	573,000			
Northfield Church RTM-B	145	260	68,000	136,000	237,000			
Northfield Church RTM-C	616	1080	281,000	562,000	983,000			
Totals	2,761	7,070	1,839,000	3,678,000	6,435,000			

The values in Table 2 have been used to determine the size of new sanitary sewer improvements as well as upgrades of existing infrastructure. The infrastructure improvement requirements are discussed in the *Analysis of Alternatives*.

ANALYSIS OF ALTERNATIVES

The areas of potential sanitary sewer service within Northfield Township for the purpose of this study have been divided service districts within the Whitmore Lake and North Territorial vicinities. Within the Whitmore Lake vicinity, there are four service districts identified, which are the locations of the infrastructure improvements necessary to provide sanitary sewer service to the Wildwood, Seven Mile, and Whitmore Lake High School Development Areas. While sanitary sewer service is not shown extended to the Kelly Development Area, as the land is not expected to be developed in the next twenty years, sanitary sewer infrastructure improvements for the purpose of this study have been sized to accommodate sewage from this area should it become developable. The conceptual locations of new sanitary sewer transmission mains for the Whitmore Lake Vicinity are shown in *Figure 6*.

Within the North Territorial vicinity, there are also three service districts identified, which are the locations of the infrastructure improvements necessary to provide sanitary sewer service to the 6 Mile, US-23 Service Road Commercial and Residential, Grand Sakwa Phase I, Whitmore Lake Commercial, and Nollar Road Commercial and Residential Development Areas. The conceptual locations of new sanitary sewer transmission mains for the North Territorial vicinity are shown in *Figure 7*.

The Whitmore Lake Road Industrial, Whitmore Lake Residential, and Northfield Church Road RTM A, B, and C Development Areas that have been identified by the Township are in the Northfield Church Road vicinity and would discharge to existing sanitary sewer in the North Territorial SAD, but conceptual locations of new sanitary sewer transmission mains have not been provided as part of this study. At projected growth rates, these areas are not anticipated to experience development levels in the next twenty years sufficient to support the construction costs of extending sanitary sewer service.

Whitmore Lake Vicinity

The Wildwood Lake, Seven Mile, Kelly, and Whitmore Lake High School Development Areas are located within the Whitmore Lake vicinity and will require four service districts to accommodate development. The four districts represent approximately 885-acres of land and have the potential to generate 2,430 ultimate REUs if developed to maximum density. Though it is not anticipated that the Kelly Development Area will be developed in the next twenty years, gravity sewer infrastructure improvements have sized to accommodate future flows from this area. Detailed opinions of probable project cost for each service district are shown in Appendix C.

- Service District 1 (Figure 8) this area includes the replacing the existing 18-inch gravity sewer between Barker Road and the Eight Mile Pump Station with 24-inch pipe. The upgrade of this pipe is necessary to accommodate additional flow from the Wildwood Lake, Seven Mile, and Kelly Development Areas. The conceptual opinion of probable project cost for Service District 1 is \$860,000.
- Service District 2 (Figure 9) this area includes constructing new 8-inch sanitary sewer lines along Jennings Roads to service the Wildwood Lake Development Area. The new pipe will connect to existing 8-inch and 10-inch sewer lines. Additionally, approximately 350-linear feet of existing 10-inch line on Barker Road will be replaced with 12-inch sewer. Routing a portion of the flow through the North Pointe Community's existing 8-inch sewer line reduces the overall project cost of providing sanitary sewer service and still accommodates the anticipated 540 REUs from the Wildwood Lake Development Area. The conceptual opinion of probable project cost for Service District 2 is \$780,000.

sewer lines along 7 Mile Road to service the Seven Mile Development Area. Flow from the Kelly Development Area beyond twenty years will be routed through the existing Eagle Gardens development sanitary sewer, which will require upgrading the Eagle Gardens Pump Station at that time. Additional sewer capacity along East Shore Drive and Barker Road between US-23 and Seven Mile Road will also be required to accommodate the ultimate 1,210 REUs from the Seven Mile Development Area, the Kelly Development Area, and Green Oak Township. There are several options available to Northfield Township to upgrade the existing sanitary sewer routes along East Shore Drive and Barker Road.

Option A (Figure 10) – replace existing 12-inch sewer along East Shore Drive with 15 and 18-inch pipe, and replace existing 18-inch sewer between the railroad and US-23 with 21-inch pipe. East Shore Pump Station #1 will be upgraded to an 850-gpm firm pumping capacity. The conceptual opinion of probable construction cost for this option is \$4,290,000.

Option B (Figure 11) – replace existing 12-inch sewer along East Shore Drive between Seven Mile Road and the East Shore Pump Station #1 with 15-inch pipe. East Shore Pump Station #1 will be upgraded to an 850-gpm firm pumping capacity. The pump station will discharge sewage through a new 8-inch force main that will be directionally drilled along East Shore Drive to Whitmore Lake Road. The force main will discharge to replacement 18 and 21-inch sewer. The existing 12-inch sewer along East Shore Drive between the East Shore Pump Station and Whitmore Lake Road will remain in place to provide continued service to existing customers. The conceptual opinion of probable construction cost for this option is \$3,030,000.

Option C (Figure 12) – construct a new pump station with an 850-gpm firm pumping capacity to collect flow from the Seven Mile Development Area and Green Oak Township near the intersection of Seven Mile Road and East Shore Drive. A new 8-inch force main will be installed along East Shore Drive from Seven Mile Road to Whitmore Lake Road. The force main will discharge to replacement 18 and 21-inch sewer. The existing 12-inch sewer and East Shore Pump Station # 1 along East Shore Drive to Whitmore Lake Road will remain in place to provide continued service to existing customers. The conceptual opinion of probable construction cost for this option is \$2,300,000.

• Service District 4 (Figure 13) — this area includes constructing new 8inch gravity sewer from the existing sewer line at the intersection of Coyle
and 6 Mile Roads approximately 1,600 linear feet to the property of the
proposed Whitmore Lake High School. The proposed high school is
expected to have approximately 1,200 students and generate 120 REU.
The Whitmore Lake Pump Station has sufficient capacity to accommodate
the additional flow from the proposed school. The conceptual opinion of
probable project cost for Service District 4 is \$350,000.

Eight Mile Pump Station Upgrade Requirements

The Eight Mile Pump Station will be modified to accept flow only from the Whitmore Lake vicinity, including the Wildwood Lake, Seven Mile, Kelly, and Whitmore Lake High School Development Areas. Assuming the additional REU demand from the new areas, the peak hour flow to the pump station from the Whitmore Lake vicinity will be approximately 2,830-gpm, while the existing firm pumping capacity of the station is 3,300-gpm. This additional flow, combined with the anticipated flow from the North Territorial Vicinity that currently discharges to the Eight Mile Pump Station, will exceed the Eight Mile Pump Station firm pumping capacity. Modifications to the pump station to increase capacity will include transporting sewage flow directly from the North Territorial Pump Station to the WWTP by extending its existing force main. The Whitmore Lake vicinity sewage flow will eventually exceed the capacity of the single 12inch force main between the Eight Mile Pump Station and the WWTP. When the total dynamic head within the 12-inch force main exceeds the Eight Mile Pump Station's ability to transport the sewage flow, an additional 3,200 linear feet of 16-inch force main will need to be installed parallel to the existing 12-inch. There is an existing 8-inch force main installed parallel to the existing 12-inch, but due to its age and as it has been out of service for approximately 12 years, it is likely that it will be unsuitable for further use. The conceptual opinion of probable project cost for the Eight Mile Pump Station Upgrade is \$600,000.

North Territorial Vicinity

The seven development areas located within the North Territorial vicinity and will require three construction projects to accommodate development. The seven areas represent approximately 550-acres of land and have the potential to generate 850 REUs if developed to the seventy percent of maximum density allowed per zoning. Detailed conceptual opinions of probable project cost for each construction project are shown in Appendix C.

- Service District 5 (Figure 14) this area includes constructing new 12-inch sewer along 5 Mile and Whitmore Lake Roads. The new 12-inch sewer will connect to existing 15-inch gravity line and flow to the North Territorial Pump Station. The construction of this pipe is necessary to accommodate additional flow of 600 REU from the Grand Sakwa Phase I and Whitmore Lake Road Commercial Development Area. The conceptual opinion of probable project cost for Service District 5 is \$1,180,000.
- Service District 6 (Figure 15) this area includes constructing a low-pressure sewer from the US-23 Service Road Commercial and Residential Development Area, as well as a portion of the 6 Mile Commercial District. The new low-pressure system will discharge additional 115 REU flow to an existing 8-inch gravity sewer and flow to the North Territorial Pump Station. The conceptual opinion of probable construction cost for Service District 6 is \$530,000.
- Service District 7 (Figure 16) this area includes constructing 21-inch gravity sewer along North Territorial Road to and south along Nollar Road, with an 8-inch branch line to accommodate additional flow of 120 REU from the Nollar Road Commercial and Residential Development Area. The conceptual opinion of probable construction cost for Service District 7 is \$840,000.

North Territorial Pump Station Upgrade Requirements

This pump station has been designed to accommodate flow from the North Territorial Phase I SAD only. As only one 12-inch force main was installed at the time of construction, any flow over 700-gpm, the current firm pumping capacity of the station, will generate head conditions that exceed the pump's operating range. Installation of a second parallel 12-inch force main will raise the capacity of the pump station to 1,400-gpm.

The North Territorial SAD is expected to generate 390,000 gallons (1,500 REU) of average day sewage flow, or a peak hour flow of 950-gpm. As the existing single 12-inch force main can only accommodate 700-gpm of flow, when the firm pumping capacity of the North Territorial Pump Station is reached, an upgrade of an additional 700-gpm pump and 21,000 linear feet of 12-inch force main will be required. The conceptual opinion of probable cost for this upgrade is \$2,280,000.

The additions of Six Mile, US-23 Service Road Commercial and Residential, Grand Sakwa Phase I, Whitmore Lake Commercial, and Nollar Road Commercial and Residential Development Areas are expected to generate another 221,000 gallons (850 REU) of average day sewage flow, or a peak hour flow of 540-gpm. The total sewage flow from the North Territorial SAD and the new development areas is 1,490-gpm, which is 90-gpm (140 REU) over the ultimate firm pumping capacity of the North Territorial Pump Station. Any development beyond the 1,500 REU allocated to the North Territorial SAD and 710 REUs from the new development areas will require a new pump station.

When sewage flow from the North Territorial Pump Station exceeds the firm pumping capacity of the Eight Mile Pump Station, the sewage flow from the North Territorial Pump Station will be diverted directly to the WWTP. This will be accomplished by combining the flows from the parallel 12-inch force main with a single 16-inch force main, approximately 3,200 linear feet long. To provide additional pumping capacity to accommodate the an equalization basin that will be part of the expansion of the

Northfield WWTP, modifications to the pump impellers at the North Territorial Pump Station made be required as well. The conceptual opinion of probable cost for this upgrade is \$670,000. The combined conceptual opinion of probable cost for all the North Territorial Pump Station upgrades is \$2,950,000.

RECOMMENDATION

It is recommended that Northfield Township pursue improvements to the sanitary sewer system that encompass both expansion of new infrastructure and increasing capacity of existing infrastructure. Due to the uncertainty regarding location and timing of new development in the Whitmore Lake and North Territorial vicinities, it is also recommended infrastructure improvements be examined during the design phase not only for the sewage flows from the immediate development areas, but that they also be examined and designed to accommodate the likelihood of additional significant flow from potential adjacent development areas. While over-sizing infrastructure for potential development in the future will represent a higher initial capital cost for the various projects identified, that cost would be less than replacing the new infrastructure or installing additional sewer lines later when future development arrives.

Whitmore Lake Vicinity

It is recommended that several sections of existing sanitary sewer infrastructure in the Whitmore Lake vicinity be upgraded before additional developments are permitted to connect to the sanitary sewer system. Due to the level of existing sewage flow as well as the inflow and infiltration susceptibility of the existing sanitary sewer infrastructure, the sewers have the potential to experience backups due to exceeded capacity in the 25-year or greater rain event. Upgrades of existing sanitary sewer infrastructure as detailed in Service Districts 1, 2, and 4, as well as Option C of Service District 3, should be considered as new development in the Whitmore Lake vicinity arrives. Additionally, the sewage flow rate at the Eight Mile Pump Station should be monitored as additional developments are included to the sanitary sewer system. When the firm pumping capacity of the pump station is reached, sewage flow from the North Territorial vicinity will need to be diverted from the pump station directly to the Northfield WWTP. An increase in sanitary sewage flow from the Whitmore Lake vicinity will require an expansion of the Northfield WWTP.

North Territorial Vicinity

It is recommended that the existing sanitary sewer infrastructure be extended in the North Territorial vicinity as additional developments are permitted to connect to the sanitary sewer system. Extensions of the existing sanitary sewer infrastructure as detailed in Service Districts 5, 6, and 7 should be considered as new development in the North Territorial vicinity arrives. When the existing firm pumping capacity of the North Territorial Pump Station is reached, the pump station will require the upgrade of an additional pump and an additional parallel force main to the Northfield WWTP.

Northfield Wastewater Treatment Plant

The existing Northfield WWTP processes an average flow of 800,000 gallons per day and has a treatment capacity of 1,300,000 gallons per day. An additional 390,000 gallons per day of sewage flow is expected from the North Territorial SAD as development increases. Sewage flows from the additional service areas in the Whitmore Lake and North Territorial vicinities have the potential to generate an additional average flow of 680,000 gallons per day, which totals 1,870,000 gallons per day of existing and potential sewage flow to the WWTP. As the inclusion of the majority of the new service areas identified in the Whitmore Lake and North Territorial vicinities to the sanitary sewer system will require exceed capacity at the Northfield WWTP, we recommend its expansion. We further recommend that Northfield Township monitor development in the development areas identified in the Northfield Church Road vicinity. While sanitary sewage service is not anticipated in these areas in the next twenty years at anticipated growth rates, they have the potential to generate an additional average sewage flow 1,160,000 gallons per day. Inclusion of the Northfield Church Road development areas will likely require a future expansion of the Northfield WWTP beyond what is necessary to accommodate the Whitmore Lake and North Territorial vicinities.

APPENDIX A

Whitmore Lake Vicinity Conceptual Opinions of Probable Project Cost

Service District 1

Service District 2

Service District 3 - Option A

Service District 3 - Option B

Service District 3 - Option C

Service District 4

Eight Mile Pump Station Upgrade

APPENDIX B

North Territorial Vicinity Conceptual Opinions of Probable Project Cost

Service District 5

Service District 6

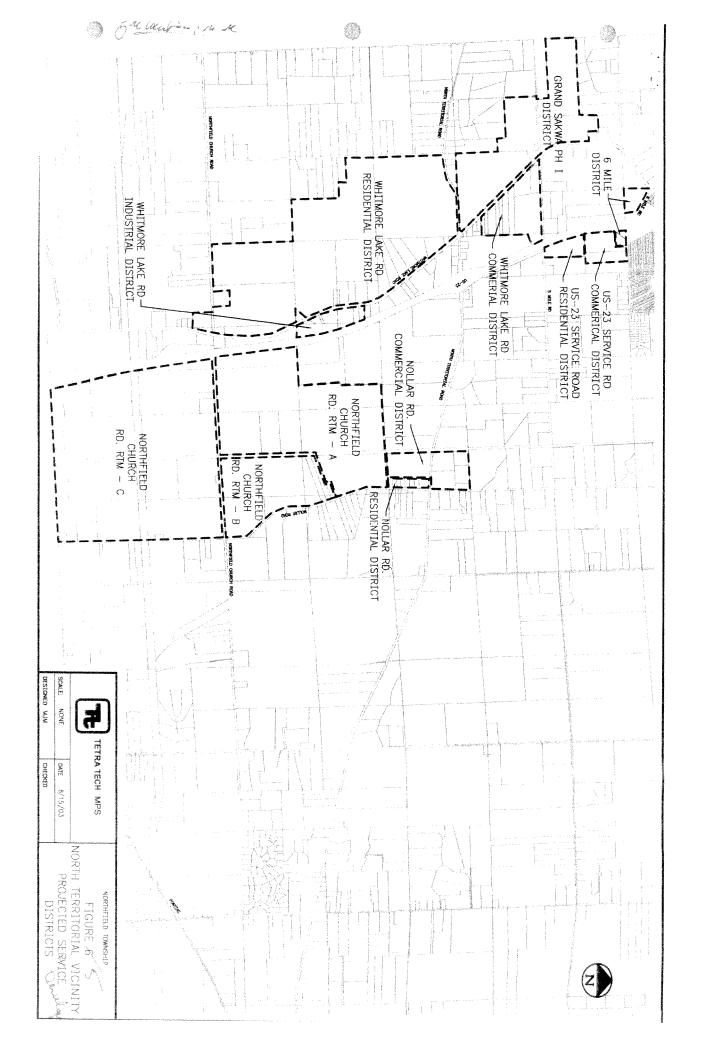
Service District 7

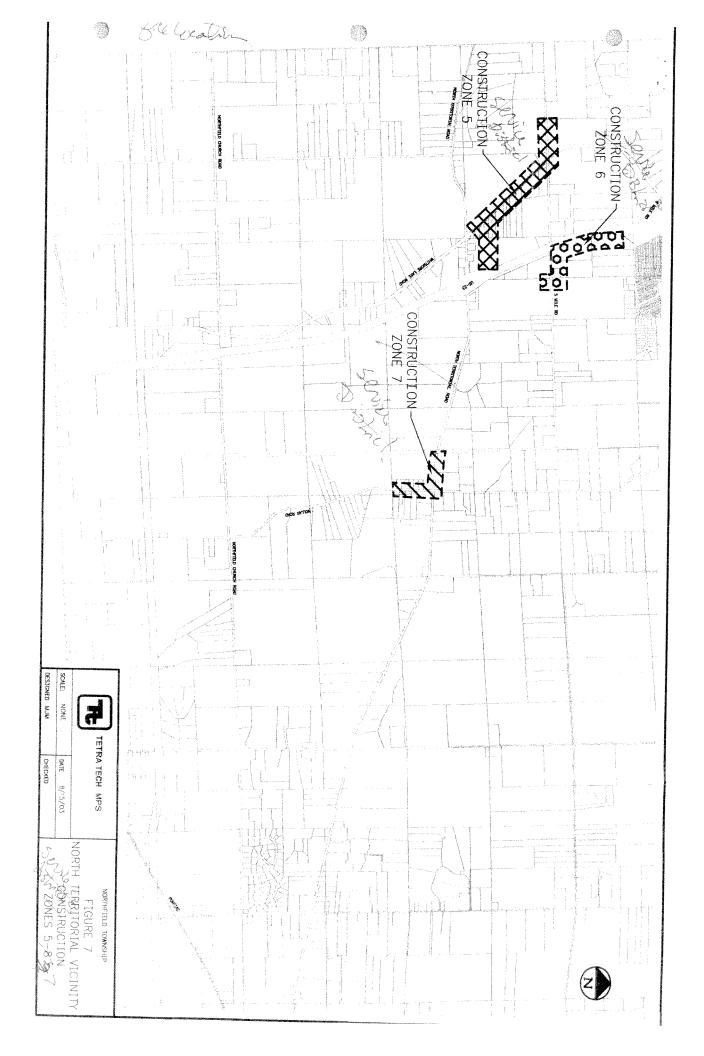
North Territorial Pump Station Parallel Force Main Installation North Territorial Pump Station Force Main Extension to WWTP

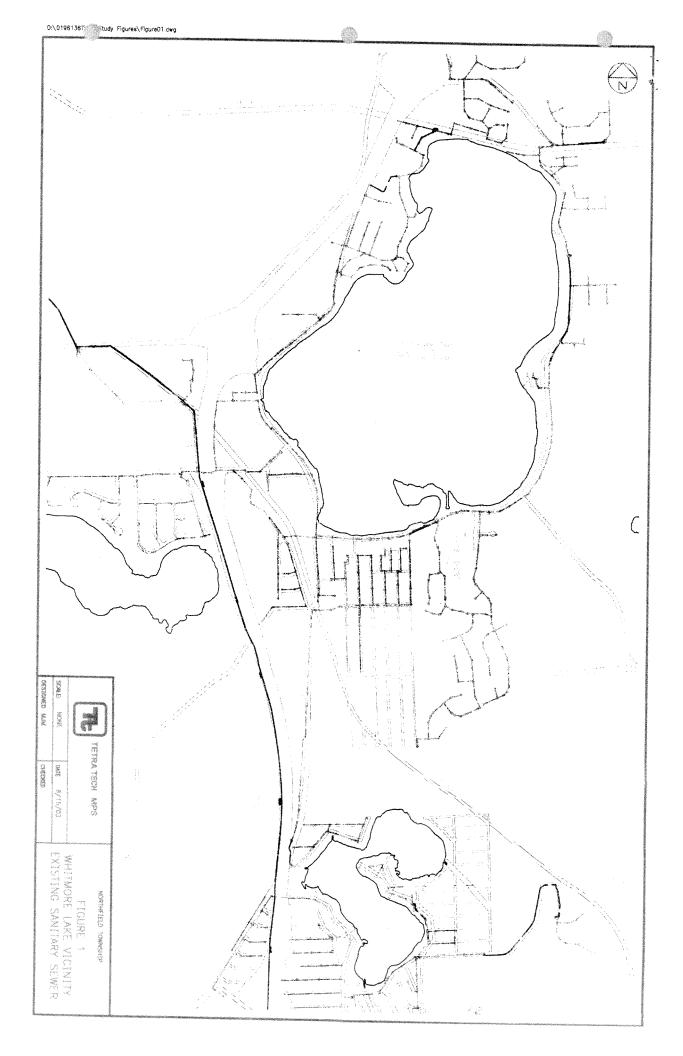
APPENDIX C

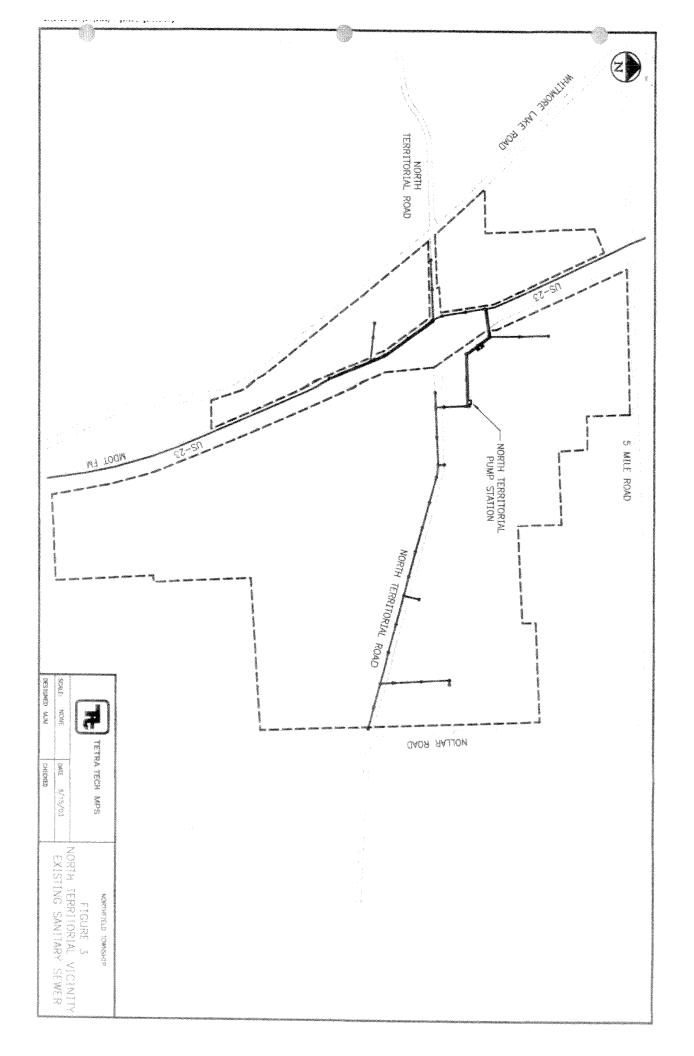
Study Figures

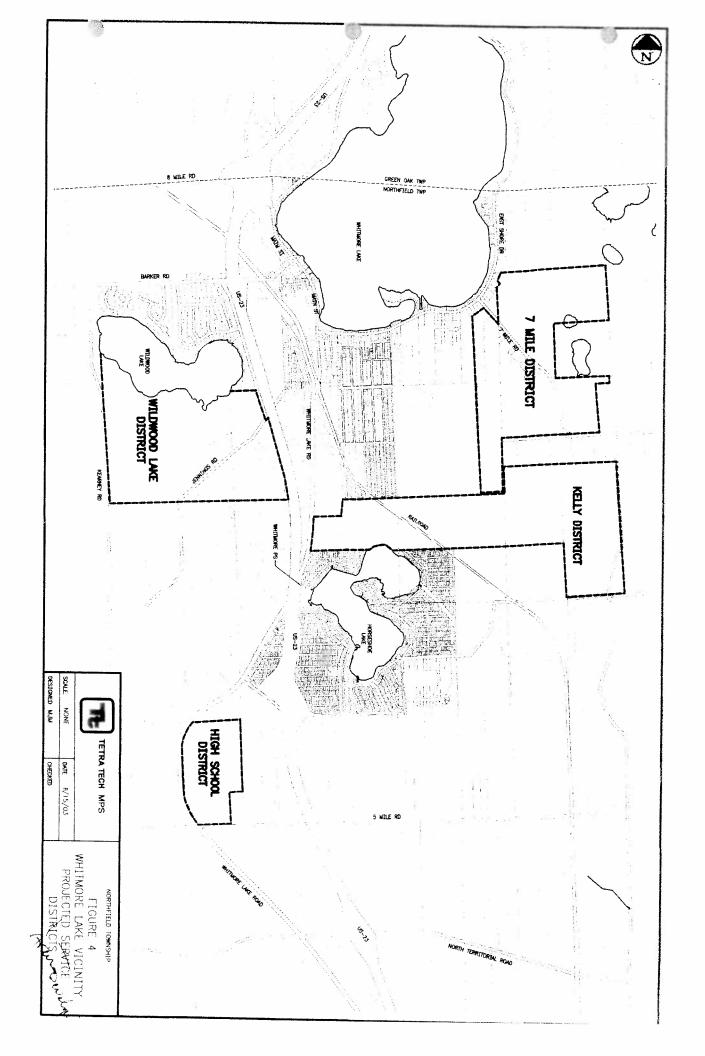
Figure 1 - Whitmore Lake Vicinity Existing Sanitary Sewer Figure 2 - Whitmore Lake Vicinity Existing Peak Flows & Max Pipe Capacities Figure 3 - North Territorial Vicinity Existing Sanitary Sewer Figure 4 - Whitmore Lake Vicinity Projected Development Areas Figure 5 - North Territorial Vicinity Projected Development Areas Figure 6 – Whitmore Lake Vicinity Service Districts 1 – 4 Figure 7 – North Territorial Vicinity Service Districts 5 – 7 Figure 8 - Whitmore Lake Vicinity Service District 1 Figure 9 - Whitmore Lake Vicinity Service District 2 Figure 10 - Whitmore Lake Vicinity Service District 3 - Option A Figure 11 - Whitmore Lake Vicinity Service District 3 - Option B Figure 12 - Whitmore Lake Vicinity Service District 3 - Option C Figure 13 - Whitmore Lake Vicinity Service District 4 Figure 14 - North Territorial Vicinity Service District 5 Figure 15 - North Territorial Vicinity Service District 6 Figure 16 - North Territorial Vicinity Service District 7

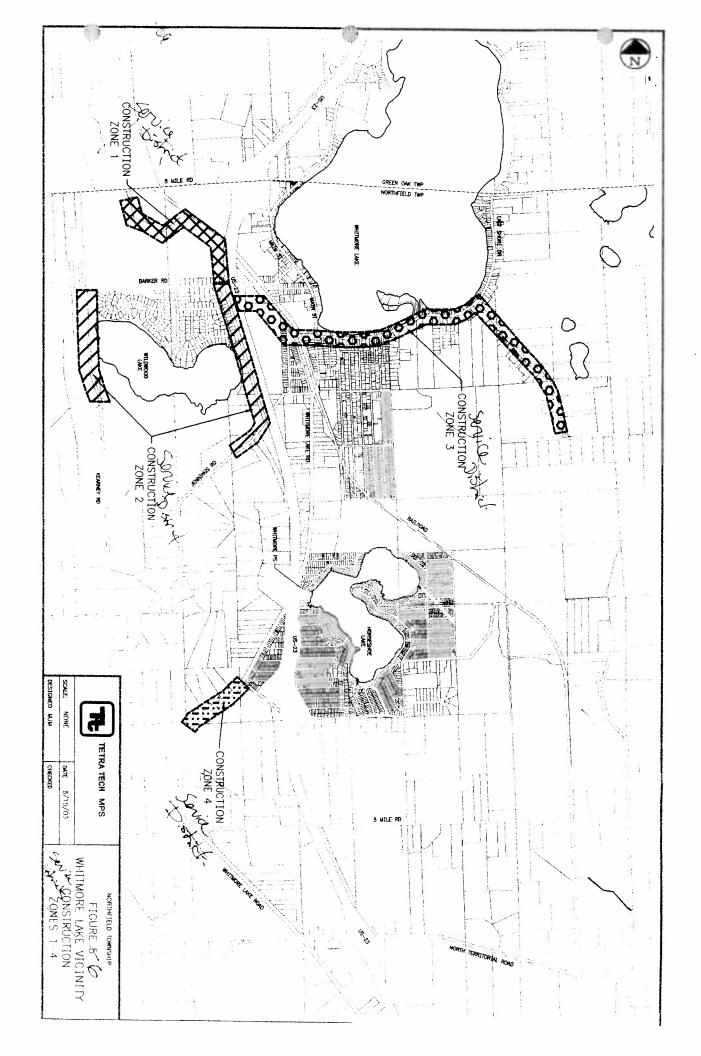


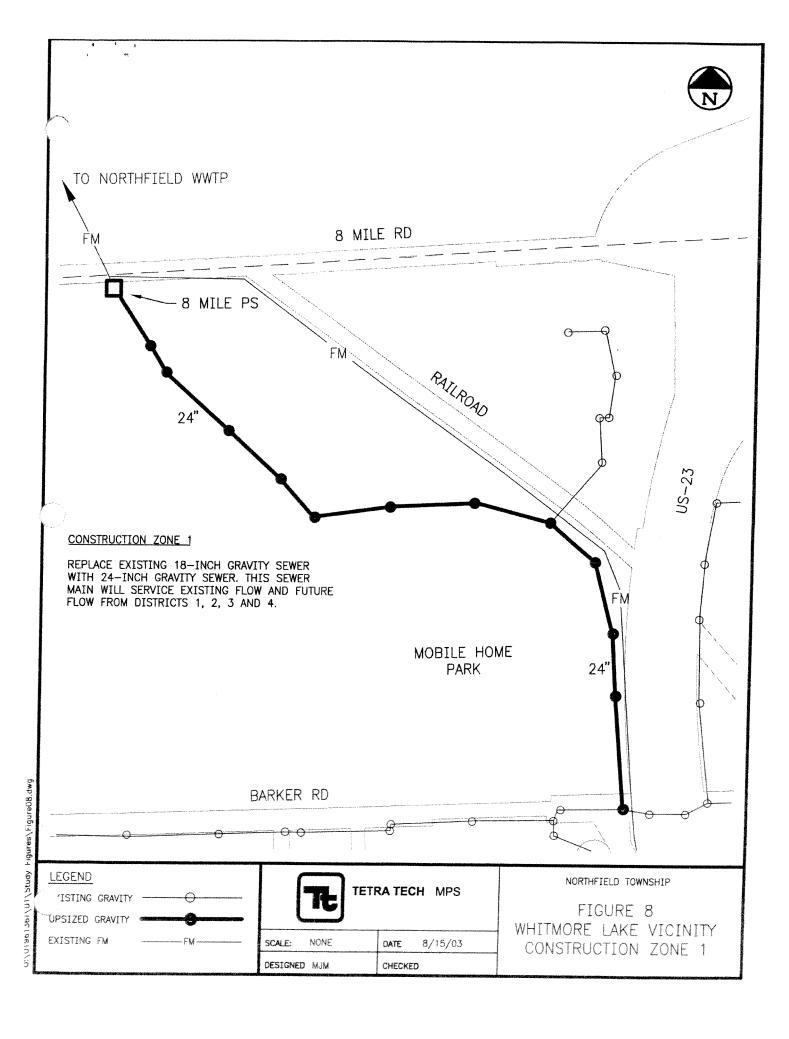


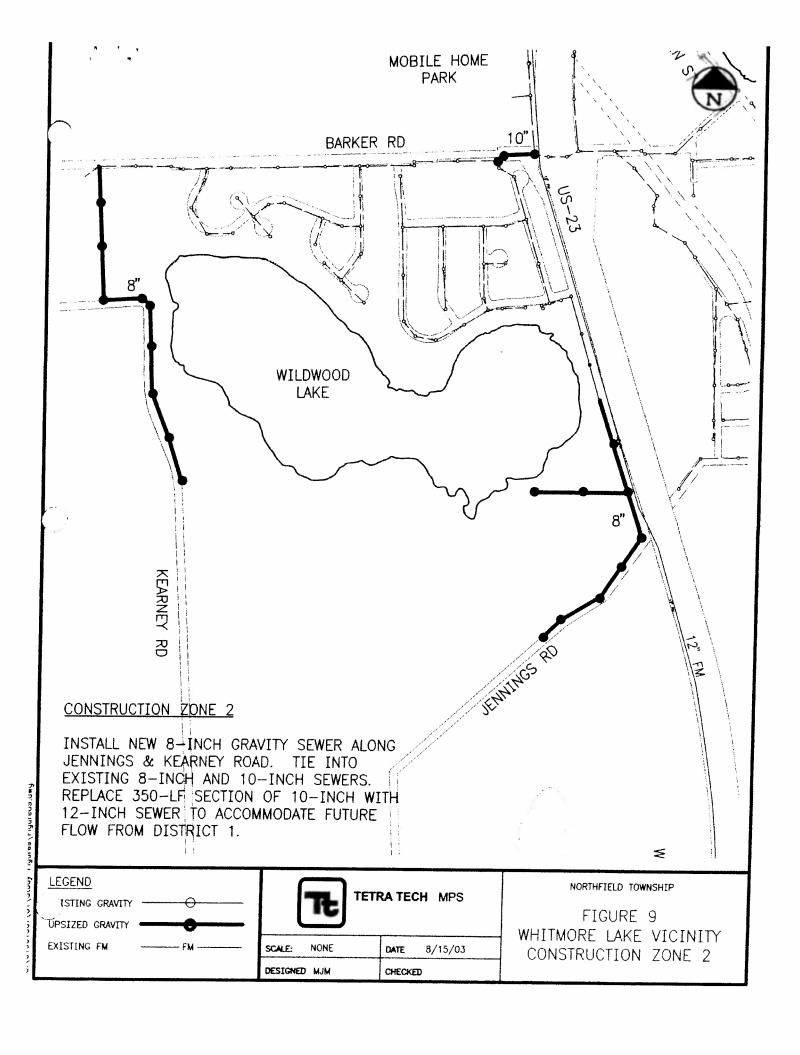


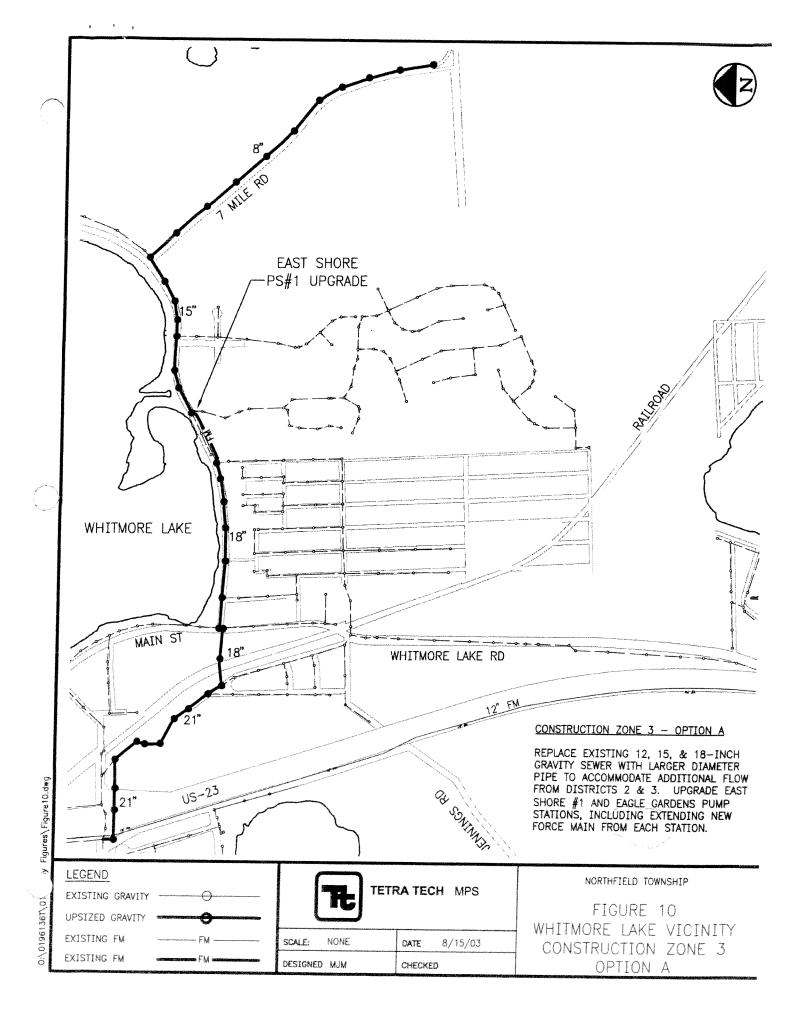


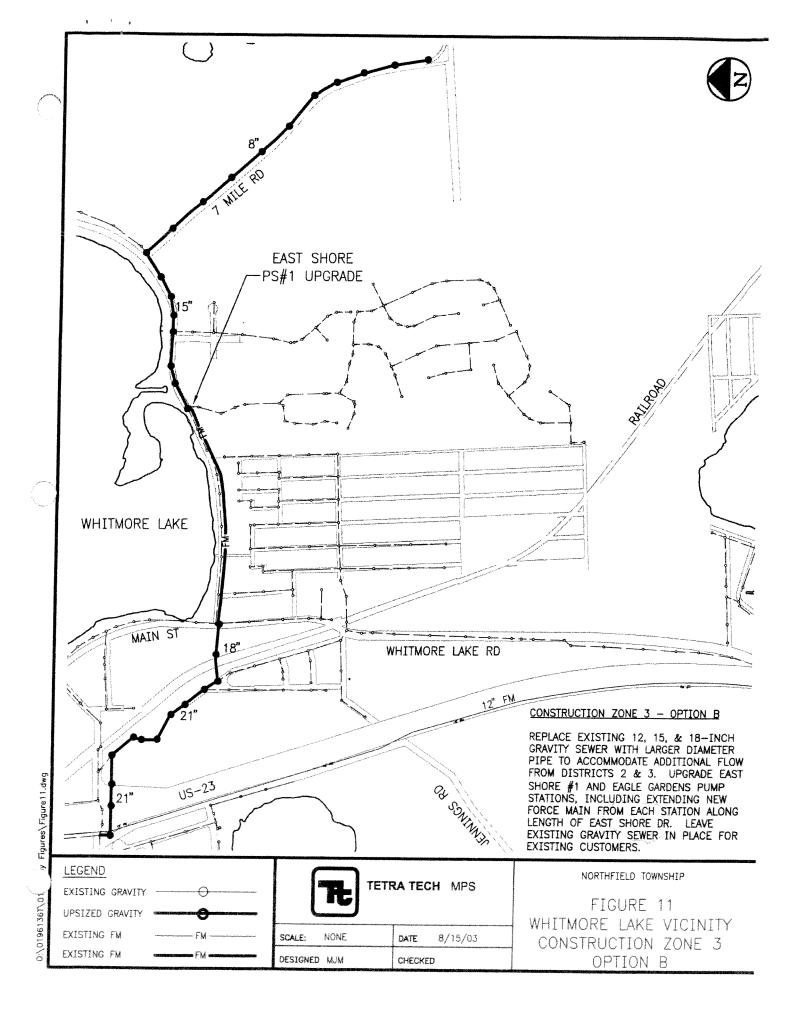


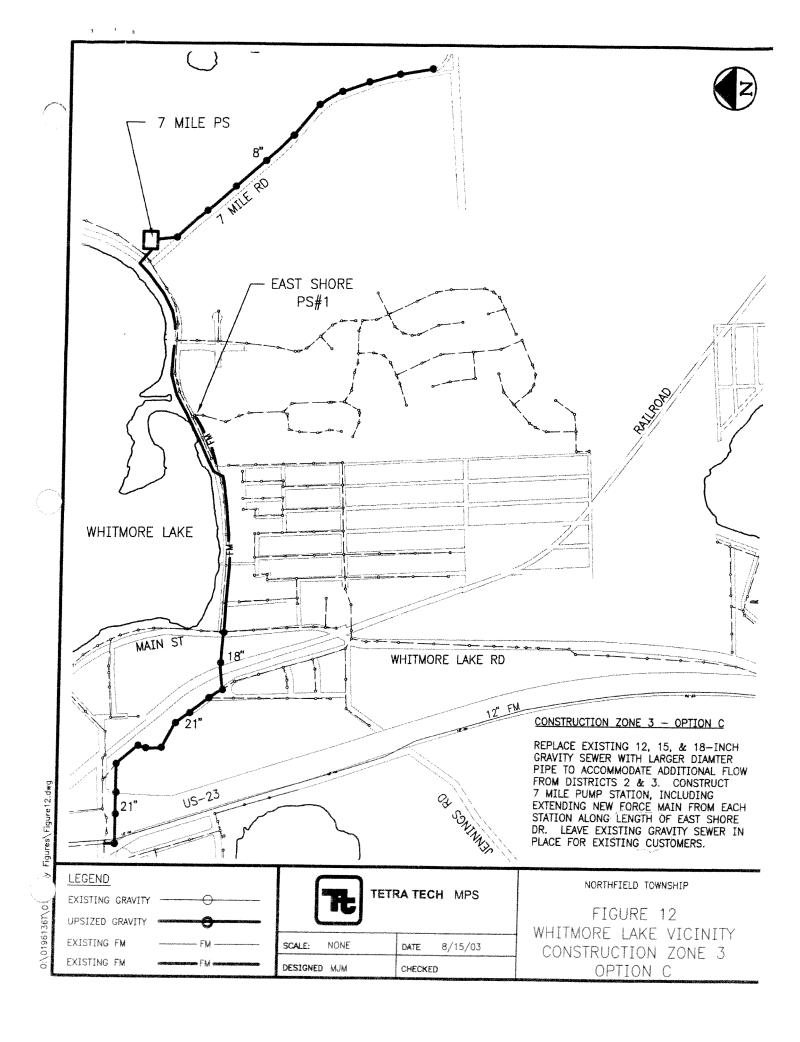


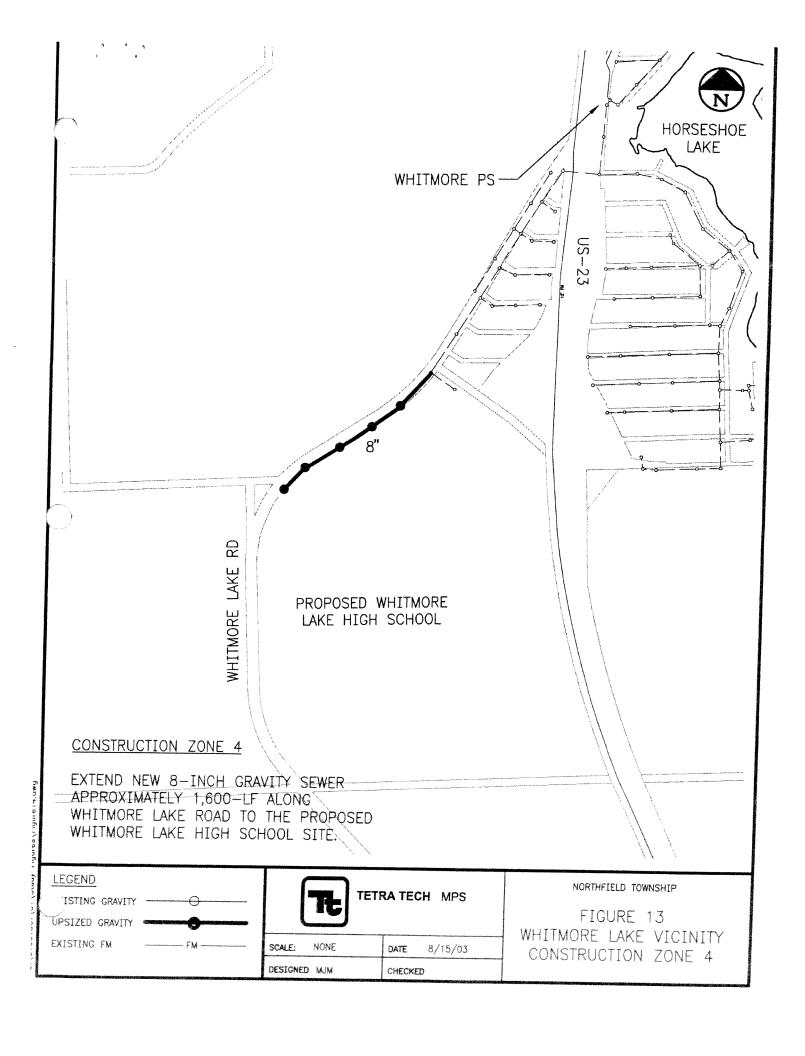


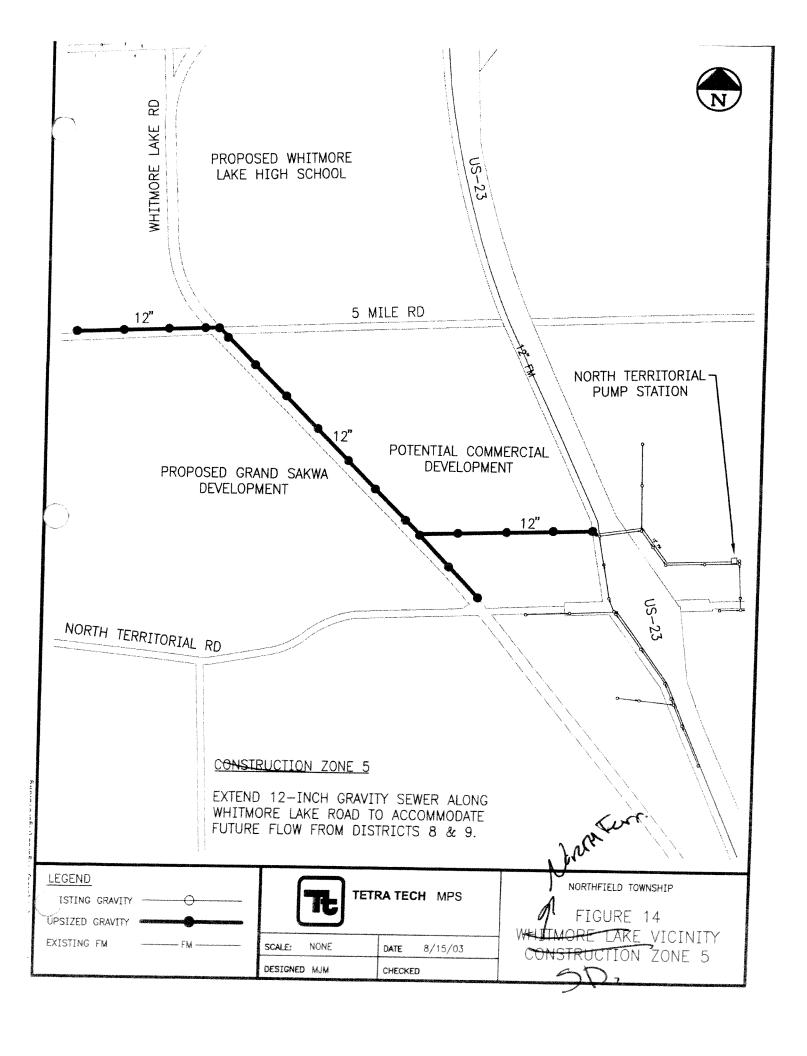


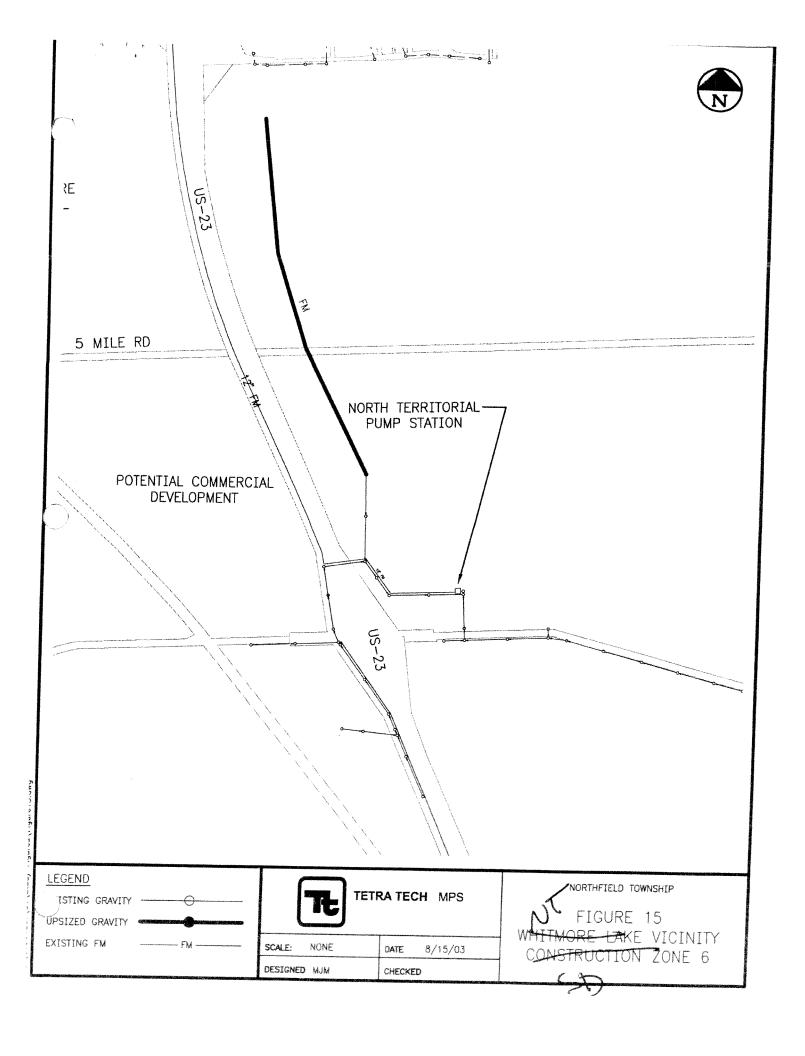


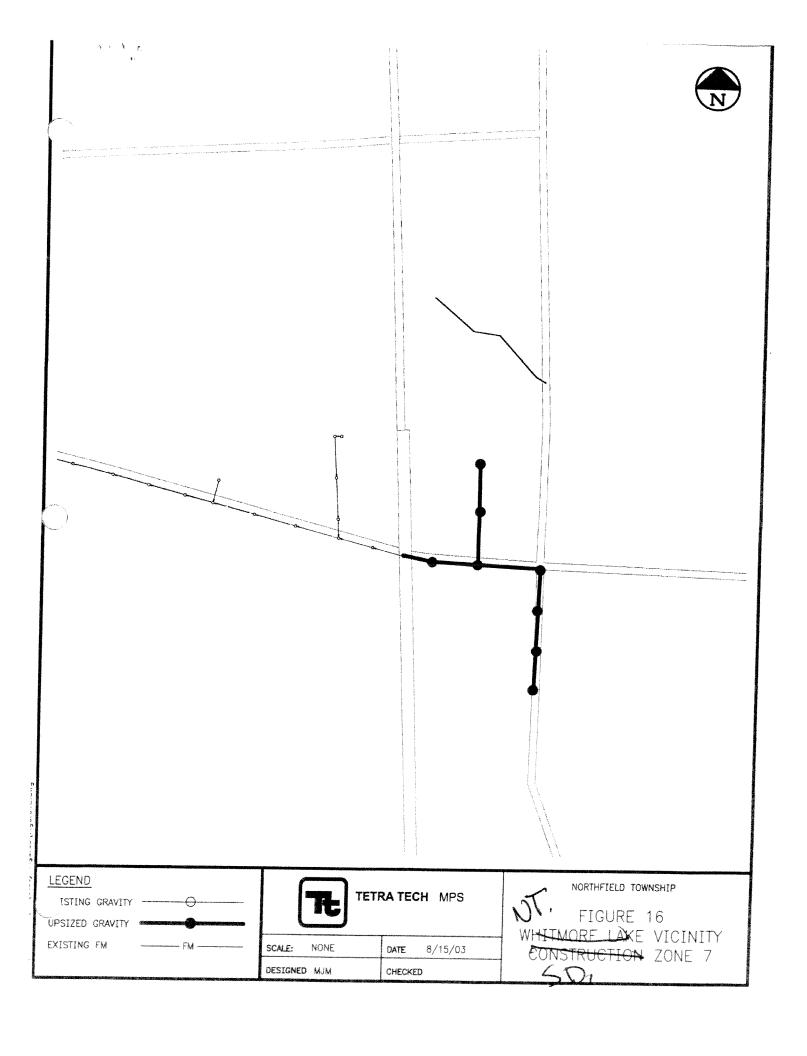














123 Brighton Lake Road, Suite 203, Brighton, MI 48116 Telephone: 810.220.2112 Fax: 810.220.0094

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FAX	L	Number of pa	ges (including this page):	5
		(If y	ou do not receive all pages, call (810)	220-2112)
To:	Mr. Michael Cicchella, Su	pervisor & Northfield Tov	vnship Board	
Company:	Northfield Township			
Fax Number:	734.449.0123	•		
From:	Donald E. Lund, P.E., Pres	sident		
Phone Number:	(810) 220-2112	Fax i	Number: <u>(810) 220-0094</u>	
Subject:	Northfield Township, MI,	WWTP Improvements, Op	inion of Probable Project Cost	
Project Number:				
REMARKS:	Stranger to the			
Urgent	For your review	Reply ASAP	Please comment	

Please find attached the above referenced information. Hard copies will follow in the mail. Thank you.



November 15, 2005

Mr. Michael Cicchella, Supervisor & Northfield Township Board Northfield Township 75 Barker Road P.O. Box 576 Whitmore Lake, MI 48189-0576

Re: Northfield Township, MI WWTP Improvements

Opinion of Probable Project Cost

Dear Board Members:

Please find attached our opinion of probable project cost for the proposed WWTP improvements that will expand the current 1.3 mgd capacity to 2.25 mgd. These proposed improvements will provide the 780,000 gpd of additional capacity requested by Green Oak Township as well as provide for the continued growth within the currently established sewer districts in Northfield Township.

Our cost opinion for the plant expansion is \$12,617,000 which includes \$866,750 for miscellaneous work identified during our site visit and discussions with WWTP staff. A separate description and cost breakdown of those improvements are provided for your information

Our cost opinion is based upon an ENR index of 7875 which corresponds to a project construction mid-point of January 2007 which would require design to be initiated in the next 2-3 months which may not be realistic. We understand this schedule is dependent upon both Northfield and Green Oak Township reaching agreement on capacity and cost allocations which will take time.

These costs are being used in preparing the wastewater cost of service study which will be presented with you for review soon. This information should permit your discussions to proceed with Green Oak Township to reach agreement on capital costs for sanitary sewer service. We are available to review this information with you and to assist in your discussions with Green Oak Township about cost and schedule issues.

Mr. Michael Cicchella, Supervisor & Northfield Township Board Northfield Township, MI November 15, 2005 Page 2

Please advise when you are available to discuss this information.

Very truly yours,

Donald E. Lund P.E.
President

:be

Attachment

CC:

Cindy Wilson Michelle Manning

Jim Cox

K:\Letters\Northfield Twp WWTP Cost Opinion.doc

OPINION OF PROBABLE CONSTRUCTION COST TETRA TECH MPS

710 Avis Drive, Ann Arbor, Mi 48108	Telephone: (734) 665-6000	FAX: (734) 665-2570
PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS	DATE:	11/2/2005
LOCATION: NORTHFIELD TOWNSHIP, MICHIGAN	PROJECT NO.	0196136T.01
BASIS FOR ESTIMATE: [X] CONCEPTUAL [] PRELIMINARY [] FINAL	ESTIMATOR:	WJN
WORK:	CHECKED BY:	TLE
Entire Plant Expansion	CURRENT ENR:	7700

NO.	DESCRIPTION	QUANT.	UNIT	UNIT AMOUNT	TOTAL AMOUNT
1	Equalization Basin with Grit and Screen Bldg.	1	LS	\$1,848,000.00	\$1,848,000.0
2	Primary Clariflers	2	EA	\$175,000.00	\$350,000.0
3	Aeration Basin and Equipment	1	LS	\$630,000.00	\$630,000.0
4	Final Clarifler	1	EA	\$400,000.00	\$400,000.0
5	Filter Building	2,925	SF	\$122.00	\$356,850.0
6	Sand Filters	360	SF	\$350.00	\$126,000.0
7	Studge Storage	380,000	GAL	\$1.22	\$463,600.0
8	Digester	225,000	GAL	\$1.95	\$438,750.0
9	Flow Spiltting	2	EA	\$30,000.00	\$60,000.0
10	Repair Existing Digester Piping	1	LS	\$50,000.00	\$50,000.0
11	Ultraviolet Disinfection	1	LS	\$250,000.00	\$250,000.0
12	Roadway Repairs	1	LS	\$60,000.00	\$60,000.0
13	Natural Gas Generator	1	LS	\$220,000.00	\$220,000.0
14	Programming and Controls	1	LS	\$200,000.00	\$200,000.0
15	Yard Piping	1	LS	\$185,000.00	\$185,000.0
16	Mechanical	1	LS	\$1,127,640.00	\$1,127,640.0
17	Electrical	1	LS	\$845,730.00	\$845,730.0
18	Miscellaneous Work	1	LS	\$886,750.00	\$886,750.0
19					
20	General Requirements				\$849,800.0
21					
22	10% cont.				\$934,800.0
23					
24	Subtotal				\$10,282,920.0
25					
26	15% Engineering				\$1,542,400.00
27	5% Legal				\$514,100.00
28					1314,100.01
29	Total at ENR 7700 (Projected July 06)				\$12,339,400.00
30					\$12,335,400.00
31	Update to ENR 7875 (Projected Jan 07) - ADD				\$277,600.00
	TOTAL CONSTRUCTION COST		(2) (2) (2)		\$12,617,000.00

OPINION OF PROBABLE CONSTRUCTION COST TETRA TECH MPS

710 Avis Drive, Ann Arbor, Mi 48108	Telephone: (734) 665-6000	FAX: (734) 665-2570
PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS	DATE:	10/11/2005
LOCATION: NORTHFIELD TOWNSHIP, MICHIGAN	PROJECT NO.	0196155T.01
BASIS FOR ESTIMATE: [X] CONCEPTUAL [] PRELIMINARY [] FINAL	ESTIMATOR:	NLW
WORK:	CHECKED BY:	
Miscellaneous Work at Existing Facilities	CURRENT ENR:	7563

NO.	DESCRIPTION	QUANT.	UNIT	UNIT	TOTAL
11			T	İ	
2	Remove and Replace Handrails at Various Tanks	600	LF	\$45.00	\$27,000
3	Remove and Replace Sidewalks	600	SF	\$8.00	\$4,800
4	Remove and Replace Roofs on Existing Buildings	11,500	SF	\$7.00	\$80,500
5	Remove and Replace Primary Settling Tank Equipt.	1	LS	\$50,000.00	\$50,000
6	Remove and Replace Guardrail	2,500	LF	\$15.00	\$37,500
7	Dome Cover on Trickling Filter	1	LS	\$200,000.00	\$200,000
8	Laboratory Expansion	450	SF	\$233.00	\$104,850
9	Concrete Repair	1	LS	\$20,000.00	\$20,000
10	Sludge Heating Piping Repair / Rework	1	LS	\$20,000.00	\$20,000
11	Sludge Bed Removal	1	LS	\$50,000.00	\$50,000
12	Digester Insulation (3" => R21)	1,200	SF	\$8.00	\$9,600
13	Security Enhancements				72,000
14	Security System w/Fob entrance and door contacts	1	LS	\$35,000.00	\$35,000.
15	Video Monitoring System (includes 4 cameras)	1	LS	\$30,000.00	\$30,000.
16	10" Chain link (1") fence w/ 3 strand barb wire	1,700	LF	\$75.00	\$127,500.
17	Motorized Gate	1	LS	\$10,000.00	\$10,000.
18	Trailer Mounted Vactor	1	LS	\$40,000.00	\$40,000.
19	Equipment Storage	1	LS	\$40,000.00	\$40,000.
20			-	*10,000.00	\$40,000.
21					
22					
23					
24			_		
25					
26			-		
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28			-		
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30			-		
31		1			
-					
	TOTAL CONSTRUCTION COST			ATTING SECTION	\$886,750.00

NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board

From: Howard Fink

Date: 11/6/2014

Re: Sewer Capacity Legal Information

Dear Township Board,

Attached you will find legal documents on the sewer capacity regarding Green Oak Township. Paul Burns will be on hand at the meeting for any question in that regard.

Warm Regards,

Howard Fink, Township Manager

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION, a Michigan unincorporated voluntary association, and TOWNSHIP OF HAMBURG, a Michigan body corporate, jointly and severally,

Civil Action No. 70-1453-CE HON. DANIEL A. BURRESS

Plaintiffs.

AND

PORTAGE, BASE, AND WHITEWOOD OWNERS ASSOCIATION, INC., a Michigan non-profit corporation, formerly known as PORTAGE AND BASE LAKE ASSOCIATION, INC., a Michigan non-profit corporation.

Intervening Plaintiff,

TOWNSHIP OF NORTHFIELD, a Michigan body corporate.

Defendant.

AND

TOWNSHIP OF GREEN OAK, a Michigan body corporate,

Intervening Defendant.

Lakeland Property Owners Assoc. A Michigan Unincorporated Voluntary Association In Pro Per

Portage, Base and Whitewood Owners Association, Inc. In Pro Per

PAUL E. BURNS (P31596) Attorney for Defendant Township of Northfield

133 W. Grand River Brighton, MI 48116-1600

(810) 229-6761

HOOPER, HATHAWAY, PRICE,

BEUCHE & WALLACE Attorneys for Plaintiff Township of Hamburg

BY: BRUCE T. WALLACE (P24148) BY: WILLIAM J. STAPLETON (P38339)

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BY: BRUCE R. SEGLUND (P32446) Attorneys for Intervening Defendant

Green Oak Township 2410 S. Commerce Road Walled Lake, Michigan 48390

(248) 624-4505

AMENDED CONSENT JUDGMENT

THIS CONSENT JUDGMENT made this _____ day of April 2002, by and between TOWNSHIP OF HAMBURG, a general law township, whose address is 10405 Merrill Road, Post Office Box 157, Hamburg, Michigan, 48139 ("HAMBURG"), TOWNSHIP OF NORTHFIELD, a general law township, whose address is 75 Barker Road, Post Office Box 576, Whitmore Lake, Michigan 48189 ("NORTHFIELD"), and TOWNSHIP OF GREEN OAK, a general law township, whose address is 10001 Silver Lake Road, Brighton, Michigan 48116 ("GREEN OAK").

WITNESSETH:

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG own and operate wastewater treatment works (hereinafter "plants"), the NORTHFIELD and GREEN OAK plants being located in Green Oak Township in the County of Livingston, and the HAMBURG plant being located in Hamburg Township, County of Livingston, State of Michigan; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of settling pending litigation between them in the case of "Lakeland Property Owners, et. al. and Hamburg Township vs. Northfield Township and Green Oak Township," Case No. 70-1453-CE in the Livingston County Circuit Court, and creating a mechanism to ensure monitoring of the plants, cooperation among the respective Townships and speedy resolution of disputes which arise as a result of the operation of the plants, their effects upon the respective townships, and overall environmental protection; and

WHEREAS, Act Number 200 of Public Acts of 1957, as amended, (MCLA 123.631 to 123.637) provides for the creation by 2 or more municipalities of an intermunicipal committee for the purpose of studying area problems; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of creating such a intermunicipal committee to avoid further litigation regarding wastewater disposal services in each township, and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG agree that the resolution of wastewater disposal service and environmental issues in a swift, effective, and conclusive manner is of paramount concern in each township; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of entering into an agreement whereby future disputes regarding sewage disposal services and watershed protection in each township that may arise would be transmitted to and reviewed by the intermunicipal committee for orderly resolution of the matter; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG agree that because of the proximity of the respective plants to each township and the environmentally sensitive nature of the service area, it is in the best interests of NORTHFIELD, GREEN OAK and HAMBURG to create such an intermunicipal committee to review issues and make recommendations regarding sewage disposal services and related environmental issues in each township; and

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. GRANT OF EXPANSION OF NORTHFIELD'S WASTEWATER TREATMENT PLANT

In further consideration of the mutual promises herein, HAMBURG and GREEN OAK agree that the existing NORTHFIELD wastewater treatment plant can be immediately expanded and operated, in accordance with MDEQ Permit No. M10023710, issued November 14, 1997, at 2.25 million gallons per day (mgd) by duplicating the current technology utilized at NORTHFIELD's wastewater treatment plant which would also include the construction of an equalization basin, as more particularly defined in Exhibit A. The design and construction as set forth in Exhibit A are approved by the parties and are not subject to the review provisions of the Consent Judgment.

2.3 CREATION OF INTERMUNICIPAL SEWER COMMITTEE (ISC)

- A. The governing bodies of NORTHFIELD, GREEN OAK and HAMBURG shall, by resolution in each respective body, establish and organize an intermunicipal committee, to be known as the Intermunicipal Sewer Committee ("ISC").
- B. The ISC shall consist of six (6) members, two (2) from each township NORTHFIELD, GREEN OAK and HAMBURG. Each township board shall appoint two (2) committee members ("appointee") within 60 days of the execution of this Consent Judgment and thereafter every two (2) years at each township's first regularly scheduled township board meeting of the year. No appointee shall be a member of any member township's board of trustees. It is mutually understood that given the technical nature of issues that will be facing the ISC in the future, it is prudent that the ISC be made up of individuals familiar with environmental issues. In the event an ISC committee member resigns, his or her appointing township board shall appoint a new representative within 45 days of said resignation. The new appointee shall fill the vacancy for the unexpired term. The board of each member township may remove any or all of its appointed representatives at any time if it is deemed by a majority of members of the township board that such removal is in the best interest of the township. Resignations and/or removal of appointments shall not inhibit the actions of the ISC and the ISC shall be empowered to perform as if the appointee were never appointed and the ISC were fully staffed. Each appointee shall qualify by taking the constitutional oath of office and filing it with the appropriate clerk of the municipality. The volunteer ISC members shall serve without compensation from ISC funds. The respective member townships, at their option, may compensate

- their representatives consistent with compensation policies for other citizen boards of the respective municipality.
- C. The ISC shall meet at least quarterly and at such other times and places as shall be determined by the ISC or as compelled by member township requests for review of disagreements. The ISC shall maintain minutes of its meetings and hold them open for review.
- D. The ISC may establish By-Laws and Procedures not inconsistent with this Consent Judgment and subject to the approval of the member townships' legislative bodies.

3. PURPOSE OF INTERMUNICIPAL SEWER COMMITTEE (ISC)

The ISC shall study currently existing, publicly owned treatment plants located within HAMBURG, NORTHFIELD and GREEN OAK and shall study wastewater effluent to formulate written recommendations for the best available technology that is practical, economically feasible and effective for each community's treatment plant.

4. <u>DUTIES AND POWERS OF INTERMUNICIPAL SEWER COMMITTEE (ISC)</u>

- A. The ISC shall have general authority to monitor the member townships' existing sewage plants and make recommendations thereto. The existing sewage treatment plants shall mean (i) the Northfield Township Waste Water Treatment Plant on Leman Road in Green Oak Township, (ii) the Hidden Lake Waste Water Treatment Plant located on Silver Lake Road in Green Oak Township, and (iii) the Hamburg Township Waste Water Treatment Plant located on M-36 in Hamburg Township.
- B. The ISC shall monitor the member townships' existing sewage plants for compliance with effluent levels to be established by the Michigan Department of Environmental Quality and for best efforts to achieve effluent goals recommended

- by the experts described in paragraph 4(F) below. In addition, the ISC shall monitor the member townships for sewage plant spills. The ISC shall compile and report these statistics to the member townships quarterly.
- C. The ISC shall review any proposed wastewater treatment plant expansions or modifications except as set forth herein.
- D. The ISC shall in the first year of this Consent Judgment commission a Wastewater Treatment Plant Technology Study and commence a Watershed Study in accordance with the criteria described in Exhibits B and C.
- E. The ISC shall review any studies performed at the direction of this ISC.
- F. Each member of the ISC shall appoint an expert to conduct the studies set forth in paragraph 4(D) and serve the ISC. The ISC may employ any other personnel deemed necessary to coordinate and conduct all types of surveys and studies relating to the watershed issues and make individual or joint written recommendations as to the best available and economically feasible technological solution to such issues. However, in the event a dispute proceeds to Arbitration pursuant to Paragraph 6 of this Agreement, the disputing parties shall each select one expert. The two selected experts shall select a third expert. Time deadlines for the selection of experts for the purposes of Arbitration shall be determined by the Arbitration panel.
- G. The ISC shall adopt, by resolution of a majority of its full membership, any expert recommendation for submission to each member township's governing body.
- H. The ISC may publicize its purposes, objectives and findings, and may distribute reports thereon.
- I. The ISC shall make an annual report of its activities to each member township's governing body.

J. Unless otherwise specified in this agreement, the ISC shall act upon a majority vote of all of its members at any regular or special meeting.

5. FUNDING OF INTERMUNICIPAL SEWER COMMITTEE (ISC)

For the purpose of providing funds to meet the expenses of the ISC, the member townships' governing bodies shall, by resolution, authorize the allocation of municipal funds for such purpose. Each member township shall make a minimum contribution of fifteen thousand dollars (\$15,000.00) per annum commencing with entry of this Consent Judgment and thereafter on the anniversary thereof, ending five (5) years hence. Additional funding shall be based on the recommendation of the ISC and approved by a majority vote of each member township's board of trustees, with each member township bearing 33.34% proportion of the total additional funds approved. Funding of the ISC shall not be subject to Arbitration. Each Township shall establish a fund within their respective budgets to be monitored by the Treasurer for each Township. The ISC shall submit proportionate costs to each Township quarterly for payment.

- A. The ISC may accept gifts and grants from the federal government, state government and local governments, also from private individuals, foundations or agencies, if the grants are made for furtherance of the objectives for which the committee is established. Any funds received by the ISC shall be divided by 33.34% and deposited into each Township's ISC fund.
- B. The ISC shall maintain records relative to its operation and hold them open for review.

6. **PROCEDURE OF BINDING ARBITRATION**

In the event that a recommendation of the ISC is not unanimous, the dissenting township's governing body may demand that the dispute be submitted to binding arbitration by a three-person arbitration panel. Such dispute and any other claims or disputes regarding

wastewater treatment or watershed protection shall be subject to binding arbitration in accordance with the following procedures:

- A. The aggrieved township may give notice of its intent to arbitrate any environmental dispute within thirty (30) days of any recommendation or action giving rise to the claim or dispute.
- B. The disputing parties shall each have fifteen (15) days from the date of the notice described in paragraph 6(A) to select and name one arbitrator to the arbitration panel. The two selected arbitrators shall have fifteen (15) days to name the third arbitrator.
- C. Arbitrators cannot be appointed from the legislative bodies of the member townships' governing bodies. The arbitration panel shall determine the procedure for arbitration other than the timeline set forth herein.
- D. The arbitration panel shall report its findings on the claim or dispute to each member legislative body within sixty (60) days of being constituted or such other reasonable time period as the arbitrators deem appropriate and issue a binding decision regarding the grievance.
- E. HAMBURG, NORTHFIELD and GREEN OAK each agrees to consider itself bound and to be bound by any decision made by the arbitrators pursuant to this agreement. The parties further agree that the binding decision is in lieu of any and all statutory or common law remedies and there shall be no review or appeal, e.g. judicial, administrative, or otherwise.
- F. The Arbitrators shall have discretion to award costs and fees upon a finding that any parties' objections were improvidently made.
- G. The parties agree that a judgment of the Livingston County Circuit Court may be rendered upon the arbitration award made pursuant to this Consent Judgment.

7. **TERM**

The term of this Consent Judgment shall commence on the date hereto and terminate five (5) years hence. HAMBURG, NORTHFIELD, and GREEN OAK agree that this Consent Judgment may be extended if mutually agreeable terms are agreed upon by HAMBURG, NORTHFIELD, and GREEN OAK at the time of the expiration of this Consent Judgment.

8. <u>TERMINATION</u>

Termination of this Consent Judgment shall be by Petition for Termination to the Livingston County Circuit Court for good cause shown.

9. **BOUND BY THIS CONSENT JUDGMENT**

Each party agrees to adopt ordinances effectuating this Consent Judgment and binding them to all rules, processes and conditions of this Consent Judgment to the same extent that the other parties to this Consent Judgment are so bound.

10. **DEFAULT**

The parties pledge their full faith and credit for all duties set forth in this Consent Judgment.

11. FAILURE OF PERFORMANCE

No failure or delay in the performance of the executed Consent Judgment by the parties shall be deemed to be a breach thereof when such failure or delay is occasioned by or due to any Act of God, strikes or lockouts, wars, riots, epidemics, or other similar cause, whether of the kind herein enumerated or otherwise not in the control of the party claiming suspension.

12. **NON-ASSIGNABILITY**

It is hereby agreed that this Consent Judgment shall be binding upon all successor governmental units which may assume jurisdiction over all or part of the areas now governed by the parties.

13. <u>SEVERABILITY</u>

Should any provision of this Consent Judgment be found by a court of law to be unconstitutional it shall be severed from the Consent Judgment and the remaining provisions shall remain in full force and effect.

14. <u>CONFLICTS WITH OTHER JUDGMENTS</u>

NORTHFIELD, GREEN OAK and HAMBURG all acknowledge that the Hidden Lake Waste Water Treatment Plant is subject to the terms and conditions of a certain Judgment and Amended Judgment in the case of "Beck Development, et. al. vs. Green Oak Township, et. al.," Case Number 95-14297-CH in the Livingston County Circuit Court. NORTHFIELD, GREEN OAK and HAMBURG agree that, in case of conflict between this Consent Judgment and the terms and conditions of the Judgments in Case No. 95-14297-CH, the terms and conditions of the Judgments in Case No. 95-14297-CH shall control and nothing in this Consent Judgment shall be interpreted or construed to negate or modify in any way the terms and conditions of the Judgments in Case No. 95-14297-CK.

IN WITNESS WHEREOF, the parties have set their hands and seals the day and year first above written.

HON. DANIEL A. BURRESS

DANIEL A. BURRESS CIRCUIT COURT JUDGE 5/23/02

APPROVED AS TO FORM AND CONTENT:

HOOPER, HATHAWAY, PRICE, BEUCHE & WALLACE Attorneys for Plaintiff Township of Hamburg

BRUCE T. WALLACE (P24148)

126 South Main Street

Ann Arbor, Michigan 48104

HAMBURG TOWNSHIP a general law township

By: Howard Dillman

Its: Supervisor

By: Joanna G. Hardesty

Its: Clerk

CONNELLY, CROWLEY, GROTH & SEGLUND

Attorneys for Intervening Defendant

Green Oak Township

BRUCE R. SEGLUND (P32446)

2410 S. Commerce Road

Walled Lake, Michigan 48390

GREEN OAK TOWNSHIP a general law township

By: Mark St. Charles

Its: Supervisor

By: Michael Sedlak

Its: Clerk

LAW OFFICE OF PAUL E. BURNS

Attorneys for Defendant

Northfield Township

PAUL E. BURNS (P31596) 133 West Grand River

Brighton, Michigan 48116

NORTHFIELD TOWNSHIP a general law township

By: Mike McFarland

Its: Supervisor

By: Michele K. Manning

Its: Clerk

EXHIBIT A

EQUALIZATION BASIN

These improvements would include the construction of a concrete basin to dampen the peak flow entering the WWTP. Related appurtenances would include: flow metering, aeration/mixing equipment, revisions to the grit/screening facilities, related electrical/instrumentation work, piping modifications and necessary site improvements.

WWTP EXPANSION TO 2.25 MGD

These improvements would duplicate existing treatment technology at the WWTP including the addition of: flow splitting structures, primary settling tank(s), aeration tank(s)/equipment, final settling tank(s), RAS pumping facilities, aeration blowers/piping, tertiary filter(s), sludge storage, digester improvements, standby power improvements, electrical/instrumentation and necessary site improvements.

REFERENCE TO PLANS AND SPECIFICATIONS

This Exhibit A references and incorporates by such reference the plans, documents, drawings, concepts and specifications ("the current Design and Construction Plans") provided by Northfield Township and reviewed by Hamburg Township and the same are made a part of this Exhibit A as though fully set forth herein:

List to be filed separately

The parties understand and agree that the Current Design and Construction Plans may be henceforth from time to time amended or modified and that any such amendments and modifications, insofar as the technology remains consistent with the concepts and standards contemplated in the Current Design and Construction Plans, shall be deemed approved by Hamburg Township as though fully set forth herein.

EXHIBIT B

Wastewater Treatment Plant Technology Study Criteria:

- 1. Review current available wastewater treatment technology suitable to the member townships' respective treatment plants.
- 2. Review existing plant specifications, engineering, and operations and current plans, specifications and engineering drawings and information relating to any proposed plant expansions except 2.25 MGD. HAMBURG and GREEN OAK agree that the existing NORTHFIELD wastewater treatment plant can be immediately expanded and operated, in accordance with MDEQ Permit No. M10023710, issued November 14, 1997, at 2.25 million gallons per day (mgd) by duplicating the current technology utilized at NORTHFIELD's wastewater treatment plant which would also include the construction of an equalization basin, as more particularly defined in Exhibit A. The design and construction set forth in Exhibit A are approved by the parties and are not subject to the review provisions of the Consent Judgment.
- 3. Propose recommendations for specific technology applicable to any proposed plant expansions.
- 4. Recommend specific effluent goals for each plant including but not limited to recommendations regarding nitrogen and phosphorus.

EXHIBIT C

Watershed Study Criteria

- 1. Define goals, methodologies, and protocols for long term study of watershed area.
- 2. Define sampling plan and specify activities and schedules for implementation of proposed plan.
- 3. Propose implementation of this study within an initial \$22,500 budget in year one and up to approximately \$30,000 in each of years two through five, subject to adjustment based upon additional funding requirements for Wastewater Treatment Plant study during the term of this Consent Judgment.

TOWNSHIP OF NORTHFIELD - TOWNSHIP OF HAMBURG

INTERGOVERNMENTAL AGREEMENT

This Agreement is made this _______ day of March, 1991 between the Township of Northfield, a general law township, with offices at 75 Barker Road, P.O. Box 576, Whitmore Lake, Michigan 48189 (hereinafter "Northfield"), and the Township of Hamburg, a general law township, with offices at 10405 Merrill Road, P.O. Box 157, Hamburg, Michigan 48189 (hereinafter "Hamburg").

RECITALS

WHEREAS, NORTHFIELD is the owner and operator of a wastewater treatment plant (hereinafter "Plant") located in the Township of Green Oak, County of Livingston, State of Michigan; and

WHEREAS, on December 5, 1989, Northfield filed a Verified Petition for Amendment of an Order of the Livingston County Circuit Court entered on May 4, 1972 and a Supplemental Order entered on September 11, 1978 in the case of Lakeland Property Owner's Association, et al. v Northfield Township, et al., Case No. 1453; and

WHEREAS, the Verified Petition filed by NORTHFIELD sought to obtain the Livingston County Circuit Court's permission to increase the Plant's capacity from 750,000 gallons per day to One Million Five Hundred Thousand (1,500,000) gallons per day; and

WHEREAS, Act 129 of Public Acts of 1943, as amended, provides that any two or more political subdivisions may contract relative to the furnishing of sewage disposal services by one political subdivision to another political subdivision; and

WHEREAS, NORTHFIELD and HAMBURG are desirous of entering into an agreement whereby sanitary sewage generated by certain residential and commercial users in HAMBURG Township would be transmitted to and treated in NORTHFIELD'S Plant;

NOW, THEREFORE, in consideration of the promises and covenants of each other, the parties agree as follows:

I. CAPACITY

A. NORTHFIELD shall be permitted to increase the capacity of its wastewater disposal plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual average under the terms and conditions set forth in this Agreement and the Supplemental Order dated March /////, 1991

and entered by the Livingston County Circuit Court in the case of <u>Lakeland Property Owners Association</u>, et al. v Northfield Township, et al., Case No. 1453; and

B. The expansion is expected to occur in phases. Phase 1 is expected to increase the capacity of the Plant to One Million One Hundred Thousand (1,100,000) gallons per day. Phase 2 is expected to increase the capacity of the Plant to One Million Three Hundred Thousand (1,300,000) gallons per day. Phase 3 is expected to increase the capacity of the Plant to One Million Five Hundred Thousand (1,500,000) gallons per day. NORTHFIELD, in its discretion, may combine the phases and determine the timing of phases. NORTHFIELD agrees to exercise due diligence in the construction of its expanded Plant so as to provide service to HAMBURG pursuant to the terms of this Agreement. This provision is not intended to modify paragraph V(B) of this Agreement.

II. SEWAGE DISPOSAL SERVICE BY NORTHFIELD

- A. NORTHFIELD agrees to receive and treat sanitary sewage from HAMBURG provided that the flow does not exceed Two Hundred Fifty Thousand (250,000) gallons per day based upon an annual average, within eighteen (18) months after NORTHFIELD receives payment pursuant to paragraph IV(A) of this Agreement; and
- B. The effluent from HAMBURG shall emanate only from an area of HAMBURG outlined in Attachment "A" attached hereto, dated March _///h, 1991 and signed by the Supervisor and Clerk for each Township. Said effluent shall emanate only from residential homes and commercial establishments. No industrial effluent shall be permitted. The map may be altered with the written agreement of NORTHFIELD which may not be unreasonably withheld. It is the intent of the parties that the properties abutting Strawberry Lake, excluding the properties commonly referred to as the "Bluffs", be provided with sanitary sewage disposal service. HAMBURG agrees to use its best efforts to provide service to said properties.

III. PURCHASE OF SEWAGE DISPOSAL

- A. No free service shall be furnished to any person, firm or corporation, public or private, or to any public agency or instrumentality;
- B. Prior to connection HAMBURG agrees to have its users submit to NORTHFIELD a "Sewer Tap-in Permit Eligibility Application" for each proposed connection to the NORTHFIELD system, a copy of which is attached as Attachment "B", dated March 1991 and signed by the Supervisor and Clerk for each Township;

- C. Additional statistical information shall be supplied to NORTHFIELD by HAMBURG or its users on all nonresidential establishments to calculate sewage capacity and/or appropriate pretreatment facilities in accordance with NORTHFIELD'S ordinance prior to any connection to the NORTHFIELD system. Such statistical information may include, but not be limited to, square footage, seating capacity, number of employees, anticipated water usage, number of rooms, type of facility and proposed uses; and
- D. HAMBURG consents to the use by NORTHFIELD of the public streets, alleys, lands and rights-of-way in HAMBURG for the purpose of operating, maintaining and repairing the sewage disposal service supplied by NORTHFIELD to individual users in HAMBURG. HAMBURG further consents to the furnishing of sewage disposal service to the individual users situated in HAMBURG. In consideration of the furnishing by NORTHFIELD of sewage disposal service to individual users in HAMBURG, HAMBURG agrees that such performance by NORTHFIELD shall be in lieu of all licenses, fees, rentals, taxes or charges which HAMBURG or other assessment district or governmental unit might otherwise levy and impose upon NORTHFIELD for the furnishing of sewage disposal service in HAMBURG.

IV. COMPENSATION

A. CAPACITY RESERVATION CHARGE

- (1) HAMBURG agrees to share all of the design, engineering, inspection, construction, legal and other associated costs of the expansion of the Plant from Seven Hundred Fifty Thousand (750,000) gallons per day to One Million Five Hundred Thousand (1,500,000) gallons per day on a pro-rata basis. The formula to be employed for calculating HAMBURG'S payment shall be as follows:
 - 1/3 the Total Plant Expansion Project Cost
 - + One Thousand Five Hundred (\$1,500.00) Dollars per Residential Equivalent Unit (which represents the current connection permit charge)
 - = Total amount owed by Hamburg
- (2) NORTHFIELD shall supply HAMBURG with the cost of phase 1 after contracts have been let, and an estimate of the design and construction cost of all remaining construction phases;
- (3) Residential equivalent unit(s), to be assigned to properties within the territory set forth in

Exhibit "A", shall be defined and determined in accordance with NORTHFIELD'S ordinances which may be modified from time to time;

- (4) Both parties acknowledge that bids have not been received nor awarded for the Plant expansion. Unforeseen construction problems may cause increases in the estimated total project cost, therefore, HAMBURG agrees to pay, when billed within thirty (30) days, the difference between the projected cost estimate and actual cost incurred in accordance with the formula established above. Conversely, the cost may result in an overpayment by HAMBURG; therefore, HAMBURG shall be entitled to a proportionate reimbursement plus interest at the rate the funds from HAMBURG were previously invested by NORTHFIELD which is to be paid within thirty (30) days of completion of the project;
- (5) The capacity reservation charge shall be paid by HAMBURG to NORTHFIELD prior to NORTHFIELD providing any services under this Agreement, but in no event later than twenty-four (24) months from the date of execution of this Agreement; and
- (6) HAMBURG agrees to exercise due diligence in the establishment of its special assessment districts, construction of sewer lines and connection therewith.

B. CONNECTION PERMIT CHARGE - SEWAGE DISPOSAL SERVICE

(1) HAMBURG agrees to require each person having control of a structure in which sanitary sewage originates, and each owner and each occupant of such a structure to be connected to an available public sanitary sewer. Such connection shall be completed promptly, but in no case later than ninety (90) days from the date of publication of a notice by the HAMBURG Township Clerk of the availability of the public sanitary system in a newspaper of general circulation in the Township of HAMBURG. If a REU(s) was assigned the property and paid by HAMBURG and the property is connected to the system within ninety (90) days, no additional connection charges shall be due unless HAMBURG failed to assign a sufficient number of REU(s) to the property. NORTHFIELD shall provide a procedure for the extension of the ninety (90) day connection requirement set forth above for hardship cases;

- (2) In the event that the property is not connected within the time parameters set forth above, HAMBURG agrees that the sewer connection charge for each residential equivalent unit shall be the current sewer connection permit charge established by NORTHFIELD by ordinance. In the event that a residential equivalent unit(s) was previously assigned to the property pursuant to this Agreement and paid for by HAMBURG, the landowner will receive credit for that payment. The sewer connection permit charge shall be paid prior to permitting the property owner to connect to the system. The sewer connection permit charge may be modified from time to time at NORTHFIELD's option, by ordinance; and
- (3) If a connection permit is purchased and the permitee does not connect within one (1) year of the date of purchase of said permit, NORTHFIELD shall notify HAMBURG, and HAMBURG shall have the option to revoke said permit and notify NORTHFIELD of such revocation, upon which NORTHFIELD shall return payment to HAMBURG. HAMBURG shall revoke any permit(s) not utilized within two (2) years from the date of purchase. NORTHFIELD and HAMBURG agree that no interest shall be paid on any repayment by NORTHFIELD.

C. OPERATION, MAINTENANCE, AND EQUIPMENT REPLACEMENT CHARGE - SEWAGE DISPOSAL SYSTEM

- (1) NORTHFIELD shall provide services to HAMBURG users at the rates, charges, and fees established for similar users of the NORTHFIELD system by ordinances of NORTHFIELD. NORTHFIELD shall give ninety (90) days notice of any change in said rates, charges, and fees to HAMBURG in writing, delivered in person or by mail. NORTHFIELD shall have the right to amend its ordinances, to change the rates, charges, and fees from time to time;
- (2) NORTHFIELD agrees to bill and collect sewer service charges on a quarterly basis to be billed in June, September, December and March for all nonmetered customers. Metered customers may be billed upon a monthly, bi-monthly, or quarterly basis. Billings are paid in arrears;
- (3) Sewer service charges shall begin on the date of connection to the public sewer system for existing or occupied residences or nonresidential establishments or upon the issuance of a temporary/permanent certificate of occupancy for

property under construction. HAMBURG shall notify NORTHFIELD of such information necessary to begin billing; and

(4) Annually, prior to September 1, NORTHFIELD shall certify to the HAMBURG Township Assessing Officer all the rates, charges, and fees, together with interest and penalties, owing by HAMBURG users delinquent as of the end of the March billing period (the end of NORTHFIELD'S sewer department fiscal year), and such Assessing Officer shall enter the same on the appropriate tax roll as a lien against the premises to which the services had been rendered, and HAMBURG shall enforce the lien and shall collect said sums as provided by law. HAMBURG shall promptly remit to NORTHFIELD all sums so collected. If HAMBURG fails or neglects to so enter such delinquent charges on its next tax roll, HAMBURG shall pay to NORTHFIELD such charges not later than December 1, of the year of such certification.

V. TERMINATION OF AGREEMENT

A. HAMBURG shall have:

- (1) Fifteen (15) months from the date of the execution of this Agreement to inform NORTHFIELD, in writing, that its special assessment districts have been confirmed and a copy of the special assessment district(s) roll shall be provided to NORTHFIELD. However, it is the intent that HAMBURG confirm the special assessment district(s) roll within twelve (12) months; and
- (2) Twenty-four (24) months from the date of the execution of this Agreement to pay NORTHFIELD the funds more particularly set forth in paragraph IV(A) of this Agreement.
- B. If HAMBURG does not perform the obligations set forth in paragraphs 1 or 2 above within the time parameters herein described, neither HAMBURG nor NORTHFIELD shall have any rights or obligations under this Agreement, except NORTHFIELD shall be permitted to expand its Plant's capacity to discharge One Million Three Hundred Thousand (1,300,000) gallons per day based on an annual average in accordance with the Supplemental Order entered on March //// , 1991 in the case of Lakeland Property Owners Association, et al. v Township of Northfield, et al. (Civil Action No. 1453); and

- C. This Agreement is specifically conditional upon the entry of a Supplemental Order acceptable to the attorneys for NORTHFIELD and HAMBURG by the Livingston County Circuit Court permitting NORTHFIELD to expand its Plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual average. In the event such a Supplemental Order is not entered by the Court, this Agreement is terminated.
- NORTHFIELD FINANCIAL/CONTRACTUAL OBLIGATIONS NORTHFIELD having ownership of and cause to operate, maintain, replace, modify, or expand the NORTHFIELD Plant for the purposes of serving HAMBURG under the provisions of this Agreement, may finance by borrowing money or otherwise any or all costs of such operation, maintenance, replacement, modification, or expansion. The parties recognize that the possibility of revenues, including revenues received from the users in HAMBURG, may from time to time be insufficient to meet the obligations of NORTHFIELD under any bonds, contracts or other contractual undertakings of NORTHFIELD now outstanding or hereafter issued or entered into for financing such costs of the Plant and related facilities which are necessary to provide service to HAMBURG. It is understood that to the extent NORTHFIELD has pledged its full faith and credit under said bonds, contracts, or other contractual undertakings, NORTHFIELD may adjust its rates so as to provide funds to meet future payments under said bonds, contracts, or other contractual undertakings as they become due.

VII. DEFAULT

- A. NORTHFIELD reserves the right to discontinue service to HAMBURG in the event that HAMBURG is in default of this Agreement, as well as, any other additional remedies provided by law. NORTHFIELD may charge interest for any overdue payments. The interest rate charged shall be the prime rate plus one (1) percent. Payment shall be considered overdue if not paid pursuant to the times prescribed by this Agreement or by NORTHFIELD's Ordinances, whichever may be applicable. Default includes, but is not limited to, either nonpayment or late payment. In the event of default NORTHFIELD shall give written notice of same to HAMBURG and permit HAMBURG thirty (30) days from the date of said notice to cure any default. HAMBURG shall have any remedies available to it under the law for any default by NORTHFIELD; and
- B. "Prime rate" means the variable rate of interest announced from time to time by the Bank as its "prime rate". The prime rate may not be the lowest rate offered by the Bank to any of its customers. Any change in the prime rate shall take effect on the day of the change in the prime rate. "Bank" shall mean from time to time the financial institution in which NORTHFIELD has designated as its depository bank in

which NORTHFIELD maintains on deposit the largest amount of its sewer revenue money.

VIII. CONSTRUCTION OF SEWERS TO SERVE HAMBURG

- A. HAMBURG shall have complete and full responsibility to pay for the cost of designing and constructing sewage lines, pump stations or any other appurtenances thereto for the purposes of HAMBURG connecting to the Plant. Conversely, NORTHFIELD shall not have any responsibility to pay for the cost of designing and constructing sewage lines, pump stations or any other appurtenances thereto for the purposes of HAMBURG connecting to the Plant;
- B. All design of sewage facilities in HAMBURG shall be approved by NORTHFIELD'S Engineer. NORTHFIELD'S Engineer shall conduct a final inspection of said facilities. Design review, report review and final inspection costs incurred by NORTHFIELD of HAMBURG facilities shall be paid by HAMBURG to NORTHFIELD within thirty (30) days of billing. NORTHFIELD'S Engineer may review periodic construction progress reports, reports on compaction testing and pressure testing, and review televising of HAMBURG'S sewer lines, at HAMBURG'S expense, but not to exceed Four Thousand and No/100 (\$4,000.00) Dollars. NORTHFIELD and HAMBURG agree that they will take reasonable steps to limit the duplication of engineering services and to minimize engineering costs;
- C. Detailed records including drawn plans of any construction, alteration, addition or relocation of sewage facilities located in HAMBURG shall be kept on file by HAMBURG and copies shall be delivered and retained by NORTHFIELD for review;
- D. HAMBURG, by ordinance, shall provide that all users shall install and maintain service leads, and bear the cost of connecting said service leads to sewage facilities located within HAMBURG. Users other than single family residences and duplexes shall install and maintain meters and valves, and bear the cost of connecting same; and
- E. HAMBURG shall own said sewer lines, pump stations and any other appurtenances constructed by them and NORTHFIELD agrees to operate and maintain said facilities during the term of this agreement as more particularly set forth in paragraph 9 below.

IX. MAINTENANCE AND REPAIR OF SEWER FACILITIES TO SERVE HAMBURG

All ordinary and necessary maintenance and repair costs associated with the sewage facilities located within HAMBURG shall be borne by NORTHFIELD. NORTHFIELD shall perform such maintenance and repairs as shall be necessary to HAMBURG'S

system to the extent possible from the revenues generated from the sewer use charges. NORTHFIELD shall not be obligated to reconstruct or repair parts of the HAMBURG system damaged or destroyed by natural disaster, war or insurrection or similar unusual happenings beyond NORTHFIELD'S control. NORTHFIELD shall maintain and operate the HAMBURG system in the same manner as it maintains and operates the NORTHFIELD system. All NORTHFIELD books and records pertaining to the sanitary sewage disposal system shall be available to HAMBURG for inspection.

X. MASTER METER

Master metering facilities, which shall measure only flow from HAMBURG, shall be purchased and installed by HAMBURG. The location of the master metering facilities shall be mutually agreed upon by HAMBURG and NORTHFIELD. HAMBURG agrees to convey ownership to NORTHFIELD of the master meter and NORTHFIELD agrees to own and maintain such meter. HAMBURG reserves the right to install a computer data link from the master metering facility to HAMBURG Township at HAMBURG'S expense.

XI. TOXIC OR UNACCEPTABLE WASTES

In cases where the character of sanitary sewage emanating from HAMBURG is such that it imposes an unreasonable or additional burden upon NORTHFIELD's sewage disposal system above that imposed by the average domestic sewage entering NORTHFIELD'S sewage disposal system, as determined by NORTHFIELD, HAMBURG shall cause such entity to treat such sanitary sewage in a manner accepted by the United States Environmental Protection Agency (U.S.E.P.A.) and the State of Michigan Department of Natural Resources or their successors. The average domestic sewage standard shall be defined as effluent which shall not exceed the following parameters:

BOD	250 MG/L		
SUSPENDED SOLIDS	250 MG/L		
NITROGEN	20 MG/L		
PHOSPHOROUS	6 MG/L		
PH	9		

It is understood that the above standards may be modified from time to time.

XII. EXCLUSIVE SERVICE

During the term of this Agreement, NORTHFIELD shall have the exclusive right to treat sanitary sewage originating in the service area as outlined in Attachment "A", providing capacity is available from NORTHFIELD.

XIII. INTERRUPTION OF SERVICE

In the event service is interrupted, either accidentally or intentionally, no claims for damages for such discontinuance shall be made by HAMBURG or its users against NORTHFIELD. NORTHFIELD shall immediately notify HAMBURG by telephone upon learning of any interruptions of service. Whenever service will be intentionally interrupted temporarily by NORTHFIELD to facilitate repair, modification or connection to NORTHFIELD'S sewage disposal system, NORTHFIELD, prior to such interruption, shall give HAMBURG reasonable notice of the time, duration and area affected by the interruption of service, including immediate telephonic notification.

XIV. FAILURE OF PERFORMANCE

No failure or delay in the performance of this Agreement shall be deemed to be a breach thereof when such failure or delay is occasioned by or due to any act of God, strikes or lockouts, wars, riots, epidemics, explosions, sabotage, breakage, or accidents to machinery or lines of pipe, the binding order of any court or governmental authority, or any other cause, whether of the kind herein enumerated or otherwise not in the control of the party claiming suspension.

XV. INSURANCE

During the term of this Agreement, all parties shall maintain insurance in the amount of not less than Two Million and No/100 (\$2,000,000.00) Dollars for a comprehensive general liability policy. Insurances shall be reviewed annually by NORTHFIELD and HAMBURG to insure proper coverage. Evidence of such insurance shall be provided by NORTHFIELD and HAMBURG to each other prior to the treatment of sewage from HAMBURG and annually thereafter. Each party shall cause the other party to be a named insured on its policy.

XVI. TAXES

HAMBURG agrees not to assess any taxes on any sewage disposal facilities situated within HAMBURG and owned by NORTHFIELD.

XVII. BOUND BY NORTHFIELD ORDINANCES

HAMBURG agrees to adopt ordinances which require all sewage disposal facility users situated within the area outlined in Attachment "A", to be bound by all rules, regulations and ordinances of NORTHFIELD to the same extent that users within the corporate limits of NORTHFIELD are so bound. HAMBURG agrees to adopt new ordinances or modify ordinances within ninety (90) days of notification of said ordinances by NORTHFIELD. NORTHFIELD agrees to give HAMBURG ninety (90) days written notice of its intent to adopt new ordinances or to modify ordinances relating to the Plant.

XVIII. JOINT UTILITY BOARD

- A. The purpose of the Joint Utility Board is to serve as a recommending body to the NORTHFIELD Township Board as to the operation of the Plant. The board may investigate future operational changes, ordinance revisions or recommendations, and may review requests for unallocated capacity needs, plans for Plant expansion and financial reports;
- B. The Board shall be made up of two (2) representatives from each Township board and one (1) alternate and shall be appointed by the respective legislative bodies for the term of office. The respective legislative body may remove any or all of its appointed representatives at any time if it is deemed that such a removal is in the best interest of the Township;
- C. The Board shall meet quarterly at the NORTHFIELD Township offices or a place to be mutually agreed upon. Other meetings may be called by reasonable notification to a NORTHFIELD representative with indication of the purpose or agenda of such a meeting;
- D. The Board members shall serve with compensation from Plant funds at the rate of Forty and No/100 (\$40.00) Dollars per meeting; and
- E. Officers to be selected annually in May shall be a Chairman and a Secretary. The Chairman shall conduct the meeting. The Secretary shall take and transcribe minutes of the meeting to be distributed to all members. Recommendations shall be sent to the NORTHFIELD Clerk for Township board action.

XIX. NON-ASSIGNABILITY

This Agreement is not assignable by HAMBURG without prior written consent of NORTHFIELD.

XX. SUCCESSORS

It is hereby agreed that this Agreement shall be binding upon all successor governmental units which may assume jurisdiction over all or part of the areas now governed by the parties.

XXI. TERM OF THE AGREEMENT

The provisions of this agreement shall commence on the date hereof and shall be in effect for the next twenty (20) years and shall be automatically renewed for ten (10) year increments unless notification of termination shall be received in writing by either party within three (3) years prior to its termination.

In witness whereof, the parties hereto have made and executed this Agreement as of the day and year first above written.

TOWNSHIP OF NORTHFIELD

By: William D. Eskridge
Its Supervisor

By: Diane M. Pomorski
Its Clerk

TOWNSHIP OF HAMBURG

By: Marry Bater
Its Supervisor

By: Martha Parrish
Its Clerk

COUNTY OF Avingston

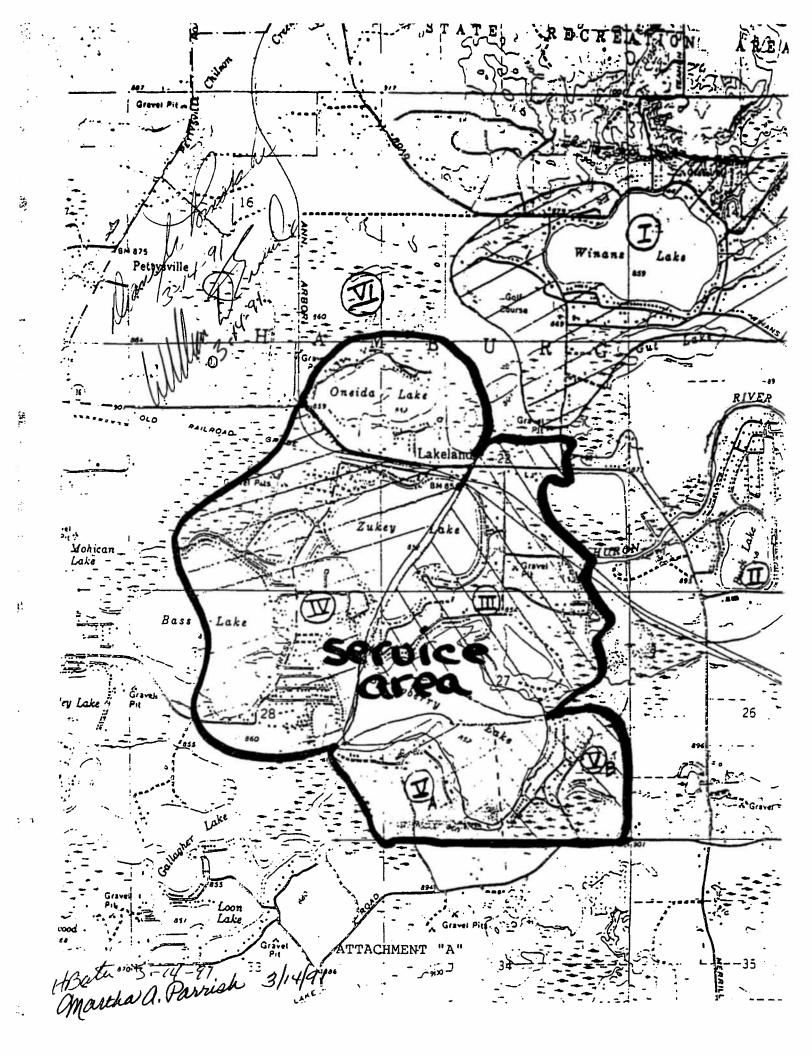
On this day of March, 1991, before me, a Notary Public, in and for said County and State, personally appeared William D. Eskridge, Supervisor of Northfield Township, and Diane M. Pomorski, Clerk of Northfield Township, who acknowledged said instrument to be the free act and deed of Northfield Township.

Theresa M Brennan Notary Public Firingsfor, County, MI My Commission Expires: 6/22/94 COUNTY OF MICHIGAN) SS

On this day of March, 1991, before me, a Notary Public, in and for said County and State, personally appeared Harry Bater, Supervisor of Hamburg Township, and Martha Parrish, Clerk of Hamburg Township, who acknowledged said instrument to be the free act and deed of Hamburg Township.

Heresa M Breaman Notary Public Harrison Theresa in Breaman Notary Public Hyroman for County, MI My Commission Expires: 6/22/94

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SEWER TAP-IN PERMIT ELIGIBILITY APPLICATION APPLICANT: (Please complete the following information.) MAME Hailing _ Address: Telephone: Property Address: Legal Description: Lot _ ___ Subdivision_ or Metes and Bounds, Section _____ Tax Parcel ID Number: Purpose of Tap-In: Residential Home _ Duplex _ .Commercial Establishment ____ (If Commercial: Type of Business Square footage (inside) # of FTE Employees Anticipated Water Usage (# of gallons per day), We may contact you for additional information.) The property is located in the _____ Sewer District and (HAS) (HAS NOT) been assessed for the initial Capacity Reservation Charge of \$1,500. Treasurer The above applicant has applied for a building permit to construct a Single Family Residence Duplex Commercial Building (type; ______). Building Permit # is pending issuance of Sewer Tap-In Permit. A copy of the Certificate of Compliance (Temporary/Permanent) will be supplied upon completion of the structure. Building Official The above application has been reviewed by me and appears to conform to all requirements agreed to by HAMBURG TOWNSHIP and NORTHFIELD TOWNSHIP in accordance to the Intergovernmental Agreement and the provisions of the Circuit Court of Livingston County. I recommend issuance of the Sewer Tap-In Permit by NORTHPIELD TOWNSHIP. Supervisor ACTION BY NORTHFIELD TOWNSHIP: Permit Number _____ issued this Date ___ Martha A. Harrish 3/14/9+ Permit Denied this Date ___ for the following reason: Official Date sewer billing entered ______)-----ATTACHMENT "B"

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION, a Michigan unincorporated voluntary association, and TOWNSHIP OF HAMBURG, a Michigan body corporate, jointly and severally,

Plaintiffs,

AND

Civil Action No. 1453 Hon. Stanley J. Latreille

PORTAGE, BASE, AND WHITEWOOD OWNERS ASSOCIATION, INC., a Michigan non-profit corporation, formerly known as PORTAGE AND BASE LAKE ASSOCIATION, INC., a Michigan non-profit corporation.

Intervening Plaintiff,

V

TOWNSHIP OF NORTHFIELD, a Michigan body corporate,

Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan body corporate,

STANLEY J. LATREILLE 44th Circuit Count

Intervening Defendant.

MICHAEL F. MERRITT (P17642) Attorney for Plaintiff Lakeland Property Owners 3075 E. Grand River Howell, MI 48843 (517) 548-4100

BRENNAN & BURNS
Attorneys for Defendant
Township of Northfield
Paul E. Burns (P31596)
133 W. Grand River
Brighton, MI 48116
(313) 229-6761

BRUCE T. WALLACE (P24148)
ROBERT W. SOUTHARD (P37203)
Attorneys for Intervening
Plaintiff, Hamburg Township
126 South Main Street
Ann Arbor, MI 48104
(313) 662-4426

RAYMOND F. CLEVENGER (P11972) Attorney for Intervening Defendant, Green Oak Township 427 N. Main Street Ann Arbor, MI 48104 (313) 663-1001

SUPPLEMENTAL ORDER

PRESENT: THE HONORABLE STANLEY J. LATREILLE Circuit Judge

This action was originally filed on August 27, 1970.

The Court entered an Order pursuant to its Opinion dated May 4,

1972. The Court entered a Supplemental Order on September 11,

1978. On December 5, 1989, Northfield Township filed a Verified

Petition for Amendment of the above-referenced Order.

Northfield's Petition requested that an Order to Show Cause be entered. On December 10, 1989, the Court entered an Order to Show Cause.

A hearing was originally scheduled for February 26, 1991. The hearing was adjourned to February 28, 1991. On February 28, 1991, the attorneys for all of the parties appeared before this Court. This Court commenced the trial. All parties being represented and having had full opportunity to present evidence and witnesses, and Hamburg Township, Northfield Township and Green Oak Township having agreed to the substance of this Order on March 14, 1991 and Lakeland Property Owners Association expressing opposition, but choosing to present no evidence,

IT IS HEREBY ORDERED AS FOLLOWS:

1. NORTHFIELD shall be permitted to increase the capacity of its Wastewater Treatment Plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual

average. The Wastewater Treatment Plant with said increased capacity is hereinafter referred to as the "EXPANDED PLANT", and is subject to the following provisions of this Supplemental Order.

2. NORTHFIELD may discharge treated municipal wastewaters from the EXPANDED PLANT through outfall 001 to the Horseshoe Lake drain. Such discharges shall be limited and monitored by NORTHFIELD as follows:

(See page 4 of this Supplemental Order.)

Effluent	Discharge Limitations				
Characteristic	Daces In	Dall	y Daily	30-Day	7-Day
	Effect	Minim	Maximum	Average	Average
Flow (in MGD)	All Year	sint sing.	Monit	Monitoring Only	
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	All Year	460 4000	10 mg/l	4 mg/1 50 lb/d	125 1b/d
Total Suspended Solids	All Year	403 4 403 5	tide-augs	10 mg/l 125 lb/d	15 mg/1 188 lb/d
Ammonia Nitrogen (as N)	4/1-4/30	400 4 40	12 mg/1	6.4 mg/l 80 lb/d	 150 lb/d
	5/1-10/31	ente Mage	2 mg/l	0.5 mg/l 6 lb/d	25 lb/d
	11/1-11/30	4466	12 mg/1	6 mg/1 75 lb/d	150 1b/d
	12/1-3/31	Mini essa	THE MAP	7.4 mg/l 93 lb/d	with one
Total Phosphorus (as P)	All Year	2000-sealth	We and	0.4 mg/l	en e
Dissolved Oxygen	5/1-10/31	6 mg/1	5708 570 8	400 (866	470-486
	11/1-4/30	5 mg/1	THE GIGE	in the state of	Novel-scape
Fecal Coliform Bacteria	All Year	**************************************	entir quiti	Allowers	100/100ml
Total Residual	All Year	***	Monitor	ing Only	
Chlorine beg	All Year inning 1/1/9	2	0.036 mg/l	, star-cate	Military)
pH (standard units)	All Year	6.5	9.0	end gas	Colonia

- 3. NORTHFIELD and HAMBURG acknowledge that the NORTHFIELD wastewater treatment plant currently discharges less phosphorus than the limitation for phosphorus set forth on page 4. NORTHFIELD pledges its best efforts to seek comparable performance in the operations of its EXPANDED PLANT. NORTHFIELD acknowledges that the current level of performance approximates 0.3 mg/l and pledges its best efforts to seek comparable performance in the operations of the EXPANDED PLANT but does not warrant that the discharge of phosphorus from the EXPANDED PLANT will be limited to 0.3 mg/l. IT IS SO ORDERED.
- 4. For purposes of monitoring the performance of the EXPANDED PLANT pursuant to Paragraphs 2 and 3 above, NORTHFIELD shall submit to HAMBURG copies of the final effluent reports submitted monthly to the Michigan Department of Natural Resources.
- 5. If HAMBURG TOWNSHIP does not purchase 250,000 gallons per day of the capacity of the EXPANDED PLANT from NORTHFIELD, then, the capacity of the EXPANDED PLANT may only be increased to One Million Three Hundred Thousand (1,300,000) gallons per day on an annual average. In such event, all other provisions of this Supplemental Order shall remain in full force and effect.
- 6. The jurisdiction of this Court in this matter is retained and continued.

STANLEY J. LATREULL

HON. STANLEY LATREILLE Circuit Judge

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STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION, a Michigan unincorporated voluntary association, and TOWNSHIP OF HAMBURG, a Michigan body corporate, jointly and severally,

Plaintiffs,

Civil Action No. 1453

AND

PORTAGE AND BASE LAKE ASSOCIATION, INC., a Michigan non-profit corporation,

Intervening Plaintiffs,

-- Y-

TOWNSHIP OF MORTHFIELD, a Michigan body corporate,

Intervening Defendant,

FEB 29 19

COUNTY CLERK Howell, Mich.

AND

TOWNSHIP OF GREEN OAK, & MICHIGAN body corporate,

Defendant.

OPINION OF THE COURT

This cause of action was initially instituted between lakeland Property Owners Association, a Michigan unincorporated voluntary association, and Township of Hamburg, a Michigan body corporate, jointly and severally as plaintiffs against the Township of Northfield by the filing of the Complaint with this Court on August 27, 1970. In said Complaint plaintiffs complain of activities of defendant, Township of Northfield, in the operation of a certain waste water treatment plant located in Green Oak Township. Northfield Township is located in Washtenaw County, Hamburg and Green Oak Townships are both located in Livingston County.

The allegations, in short, in plaintiffs Complaint are to

the effect that they are suffering damages both directly and by way of pollution of the water course that they are located on due to the operations of defendants waste water treatment plant. And further, plaintiffs complain of and seek a Restraining Order against the expansion of such operations.

Interim Relief was sought by plaintiffs herein in the form of a Preliminary Injunction to restrain defendant, Northfield Township, from beginning construction on a physical expansion of such plant and from restraining defendant from increasing its daily discharge over and above the level for which this plant was constructed. Such Restraining Order was ultimately issued by this Court.

Defendant Northfield Township filed its Answer to plaintiffs
Complaint in this matter and setout therein certain affirmative
defenses. Defendant Northfield Township also filed a Motion for
Change of Venue alleging that Venue was improperly laid. After
arguments on such Wotion said Motion was denied.

The above referred to Interim Preliminary Injunction was issued by this Court on October 7, 1970.

After Lakeland Property Coners Association and Hamburg
Township filed their reply to the defendants Answer this Court
received an application of Portage and Ease Lake Association,
both being Michigan non-profit corporations, for intervention
as party plaintiffs and such application was filed on Movember
25, 1970. On Movember 30, 1976 this Court received a Motion to
Intervens, as a party defendant, from the Township of Green Oak.
On December 4, 1970 this Court signed an order allowing the
intervention, as parties plaintiff, of Portage and Base Lake
Association incorporated. On December 9, 1970 this Court entered
its order granting intervention, as a party defendant, of the
Township of Green Oak based upon a stipulation of the parties
dated December 1, 1970 and filed with this Court on December 10,
1970.

Defendant Green Oak Township, on December 28, 1970, filed its Answer to the original Complaint and the Complaint of the Intervening Plaintiffs.

Green Oak Township filed a Motion for Reference to the Michigan Water Resources Commission (herein after referred to as WRC) and for Modification of the Preliminary Injunction on December 28, 1970 together with a Brief in Support of said Motion for Reference. Such Motion was ultimately denied by this Court.

This matter was ultimately tried by the Court after first having filed with it Morthfield Township's Answer to the Complaint of the intervening plaintiffs, a Supplemental Answer of defendant Morthfield Township, Reply to Affirmative Defenses of defendant Township of Morthfield, Interrogatories to plaintiffs by defendants, a Pretrial Conference, Plaintiffs objections to Interrogatories of the third-party defendant, Answers to certain Interrogatories by plaintiffs, a Second Pretrial Conference, Supplemental Answers to Interrogatories of intervening defendants, plaintiffs Request for Admissions from Defendants and Objections to Request for Admissions from Defendant. And finally, this Court received for filing, defendant Township's Second Supplement to Answer, followed by Answer to Amendment to Complaint.

Plaintiffs allege, in their Complaint, that defendant
Townships herein collect sawage from around their own lake and
township and dump the effluent from such collections several
miles away into the heart of Hamburg Township, where it pollutes
the lakes and water courses upon which plaintiffs herein reside.

Plaintiffs seek a mandatory injunction closing down or rerouting
defendants out fall, or, in the alternative, Injunctive Relief
against defendants expanding said operation together with an
Order compelling defendants to better treat the effluent discharge
from their plant. It should be noted that defendant Northfield

Township owns and operates the said Sewage Disposal Plant which is located in defendant Green Oak Township and such plant serves homes and business operations located around Whitmore Lake.

Whitmore Lake is physically situated in both Livingston and Washtenaw County. The out fall from the sewage disposal plant in question is located in Hamburg Township and is reached by a pipe from said plant which is approximately 7,200 feet in length. The out fall pipe discharges into a small water course which flows into the Huron River just up stream from Strawberry Lake and other lakes located in Plaintiff Hamburg Township upon which other plaintiffs reside.

Defendants current discharge per day is approximately one quarter million gallons. Plaintiffs allege that the contents of such discharge are polluting the lakes and other water courses upon which they reside. It is further alleged, without dispute from defendants herein, that plaintiffs are located approximately four miles distant from Whitmore Lake which is serviced by defendants plant.

The waste water disposal plant now in dispute/originally constructed by the State of Michigan in 1963 and 1964 to serve and service the W.J. Maxey Boys Training School, located in Green Oak Township.

In 1966 the State sold the above mentioned sewage plant to Morthfield Township, for consideration, together with all of its right, title and interest in the above mentioned plant and pipeline. It is further alleged, without dispute, that Northfield Township intends to expand the operations of such plant and increase the discharge of said plant's effluent to 750,000 gallons per day and further intends on using the existing form of disposal of the product of said plant.

Plaintiffs have raised the following legal issues during the litigation of this matter;

- A. Northfield Township is constitutionally prohibited in the operating or maintaining of said plant and its outfall outside of its corporate limits;
- B. Northfield Township failed to obtain the consent of Hamburg Township to the location of such outfall and is required to do so:
 - C. Plaintiffs have a constitutional right to clean water;
 - D. The presence of said sewer pipeline and outfall is a trespass upon Hamburg Township;
- E. Defendants discharges of effluent into the waters located in Hamburg Township constitute a public and private enjoinable nuisance;
- F. The discharges of defendants effluents into plaintiffs waters are discharges by a non-riparian and non-littoral party and is an unreasonable use of those waters which is violative of plaintiffs riparian rights;
- G. Northfield Township is bound by all the obligations of the State of Michigan via promises made by the state to Hamburg Township;
- H. Plaintiffs property is being taken without compensation and without due process of law under both the United States and Michigan Constitutions;
- 1. Plaintiffs are entitled to declaratory and equitable relief under the Environmental Protection Act of 1970, PA 127.
- J. Defendants have no meritorious affirmative defenses to plaintiffs complaints.

To the above defendants herein respond as follows:

1. That the defendant townships have statutory authority for ownership and operation outside of township limits;

- Hamburg's consent to the operation of the said pipeline is not required;
- 3. That the wording of Hamburg Township Nuisance Ordinance No. 10 does not setforth provisions that prescribe a nuisance;
- defendants activities. In addition to the above defendants allege that there is no feasible and prudent alternative to defendants continuing to maintain and operate their treatment facility or the expansion of same, and further, that plaintiffs are extopped from making some or all of its complaints at this time.

 Defendants further allege that plaintiffs herein are not entitled to equitable relief inasmuch as they come to Court with unclean hands in that defendants allege much of the pollution plaintiffs complain of is caused by activities of plaintiffs themselves or the citizenry living within the confines of plaintiff Township of Hamburg.

Testimony was taken in this matter in open Court on July 20, 21, 22, and 23, 197) and this Court was afforded the benefit of the testimony of several witnesses and the offering and receiving of numerous exhibits both in support of plaintiffs case and defendants case and rebuttal thereto. This Court feels it necessary at this time to review, herein, material portions of such testimony.

A past and present Hamburg Township officer testified that
many complaints were received by them from Hamburg residents regarding the condition of the water in the various lakes, odors
emitting from such waters, fish kills and other complaints and
such complaints reached their peak some four to five years ago and
have continued up to the present at that level.

Prancis Shehan, a Hamburg Township Official, testified that during his tenure in office, which covers the past twelve years, be, officially, resisted defendants out fall pipe being located

in Hamburg Township but further testified that his resistance came somewhat late inasmuch as the State of Michigan had already made that decision. During meetings with officials from the Boys Training School and the State of Michigan this witness learned of the intended expansion of defendants waste water treatment facility but had not been contacted in his official capacity regarding such proposed expansion until a few months prior to trial.

Mr. Francis B. McLaughlin, Director of Laboratories, Analytic and Biological Laboratories, Inc., testified as to his professional personal contact with the areas in question. Mr. McLaughlin holds a Bachelor of Science Degree in Microbiology from the Detroit Institute of Technology and has twenty years of experience in such work in addition to having run the above mentioned laboratory since 1956. Wn McLaughlin's credentials include extensive biochemical work for private and public concerns mostly in the area of evaluation of test results to the problem at hand. Mr. McLaughlin was quite familiar with the defendants plant, its outfall, and the total area downstream therefrom. Mr. McLaughlin was the author of a certain study of the Northfield Township offluent, Buron River and Strawberry Lake phosphate levels made in 1970. Mr. McLaughlin was also the author of a study of the effluents from the Northfield Township Waste Water Treatment Plant and their effect on the Euron River Ecology made in 1970. The above two mentioned studios were received as exhibits No. 14 and No. 12 respectively.

It was the testimony of Mr. McLaughlin, via the witness stand and the above mentioned studies, that defendants discharge onto and into the receiving waters contains an excess blochemical oxygen demand (hereinafter referred to BOD). Such excess BOD load was determined to be, in the opinion of Mr. McLaughlin, 40 parts per million. Further testimony from said witness indicated that

the BOD load on the Huron River Chain at Kensington Lake and Park is 2 to 4 parts per million. Exhibit No. 14 above reflects that the BOD load at the time such report and study was made were at 24 parts per million with high concentrations of phosphates. In the opinion of said expert witness a clean lake, or water course, is defined as one with a BOD load below 5 parts per million. In addition to the above said expert testified that the discharge from defendants outfall pipe had a lower level of dissolved oxygen (hereinafter referred to as DO) than the receiving waters. Nitrate loads were determined to be, by said witness's studies and testimony, to be 33 parts per million at the outfall and .6 parts per million upstream of said outfall. Further testimony from said witness indicated that anything over .1 parts per million nitrate cannot be tolerated for any stress or river in the state.

It was the expert opinion of said witness that defendants herein contribute considerable pollution to the water chain under consideration. And further, that Strawberry Lake cannot stand today's input by defendants let alone the possibility of tripling said input.

Mr. McLaughlin testified in detail regarding his objections to the Department of Matural Resources assended final order of determination recommendations with regard to defendants waste water plant operation. Mr. Eclaughlia agreed with only one provision of said technical recommendations the same being I.c.

Said DNR recommendations may be found in detail at defendants exhibit No.3. Two strenuous objections were made by Mr. McLaughlin to recommendations contained in the TRC Order of Determination.

The recommendations heretofore referred to strongly objected to by Mr. McLaughlin are found at 1.d and 1.e. 1.d reads as follows:

"Contain not more than One Thousand (1,000) total coliform per One Hundred (100) milliliters."

The witness testified that this item should be a recommendation of no active coliforms. His strenuous objections in his opinion and testimony was to the effect that the recommended level is not adequate to protect the environment in that the receiving waters have a count upstream from the outfall pipe unknown but opines it is far below One Thousand (1,000) coliform per Hundred (100) milliliters.

With regard to item l.e, which reads as follows:

"Contain not more than Twenty percent (20%) of the phosphorus contained in the influent to the waste water treatment facility."

phate but all other factors are unknown. The witness did concede that 80% removal is about as good as present technology allows. It was the further testimony of Mr. McLaughlin that the defendant is currently not removing phosphates, and last year, as per the witness's calculations, defendants discharged 14,000 pounds of phosphates into the water course in question. It was the concluding expert testimony of Mr. McLaughlin that if the WRC determinations were complied with nutrients would be increased in an unknown degree primarily because of the levels set in 1.d therein.

At this point plaintiffs rested their case and relied on their Briefs and other legal arguments contained therein. There-upon defendants soved to dismiss based on the argument that the WRC Order was conclusive and not appealed from. Such Notion was denied by this Court on the basis that plaintiffs herein had made a Prima Facie case and that the burden of over coming such Prima Facie case had shifted to defendants.

Mr. John Beebe, Superintendent of defendants plant, testified that he is a licensed plant operator by the Department of Health, State of Michigan and that such plant is a secondary treatment plant of the trickling filter type. Monthly reports are made on all extractions and performances of the plant and such reports are filed with the State Department of Health which supervises the operations, reviews such reports and makes recommendations.

Items the further testimony of Mr. Beebe that the plant in question operates within the expectations of the Department of Health at a present volume of Two Hundred Twenty Thousand (220,000) gallons per day which has increased steadily since 1964. The current treatment efficiency of the plant in question has remained constant since its inception. Said plant services 1,400 (units) users. It was the further testimony of said witness that at present efficiency levels this plant could handle 240 additional units or users and still be within its planned capacity of Two Hundred Fifty Thousand (250,000) gallons per day.

It was the concluding testimony of this witness that there have been normal mechanical problems, within levels of expectation, and that said plant employs daily membrane filtering for coliform counts and in addition chlorination is used.

Mr. John Holland, the holder of a University of Michigan degree in engineering testified that he has such experience in waste water treatment plants in both their construction and evaluation of operations. This witness's company designed defendants plant and recommended the location of said plant at Mamburg Township as a regional facility. It was this witness's further testimony that a plant, such as defendants, is designed to do a reasonable job based on the financial ability of the community, and further, that this plant does not remove phosphates and was not originally designed to remove phosphates as the WRC did not require such removal at the time of the construction of this plant. It was the further opinion and testimony of this witness that compliance with the amended final order of determination (defendants exhibit No. 3) would cost approximately One Million Five-Hundred Thousand Dollars (\$1,500,000,00) and that the same is a strong order to the extent that compliance would require state and federal aid which defendants herein have applied for but such aid has been withdrawn by the Water Resources

Commission (WRC) who administer such funds.

Waste water treatment plant are located in the horseshoe drainage area and that such users are almost completely domestic. Such witness further testified that if the size of this plant is increased that defendants would continue to discharge into Horseshoe Creek. Alternatives to such discharging were studied and a determination was made that the present method is the most reasonable and feasible, in his opinion. It was such witness's further testimony that the above mentioned 7,000 foot outfall pipe originally cost approximately One-hundred Thousand Dollars (\$100,000.00).

On cross examination Mr. Holland did admit that phosphates do pollute but did not admit that defendants plant herein does in fact pollute the waters in question with the further statement that in his opinion local units and population are doing the polluting. His further testimony was that while building this plant his engineering firm did not take into consideration the level of population along the water course to be used as a disposal nor were water samples taken from any of these lakes or water courses before the plant was built. Said witness did concede that this plant must remove 80% phosphates even if not extended as per the terms of defendants exhibit No. 3 set out above.

Mr. Paul Blakeslee, a Regional Professional Engineer with a specialty in sanitary engineering and a holder of a S3 and MS Degree testified regarding municipal waste water systems and the fact that the WRC reviews plans and designs with the Michigan Department of Public Health issuing construction permits. Further, the Michigan Department of Public Health, as per the testimony of Mr. Blakeslee, training lant operation personnel, receives reports regarding operating data such as flow, volume, weather information, influent and effluent qualities, and attempts to control facility

operations at the highest degree such facility is capable of operating at overall. It was further testified to that the Michigan Department of Public Health inspects such plants every six months and scans their reports. Mr. Blakeslee testified that defendants plant is operated extremely good and is at an efficiency level in the 55% range and is operating within its designed limits and further that such plant was not designed to consider phosphates but more importantly that defendants plant is not capable of meeting the standards set out in the final amended order of the Water Resources Commission and further that in order to comply with such final order the plant in question would necessitate the addition of an additional treatment stage.

Further testimony was to the effect that the load of the defendants plant has increased since its construction and that such plant is still within the expectations of performance when constructed.

Paragraph two of plaintiffs exhibit No. 2, the same being a letter from Donald M. Pierce, Chief Maste Water Section Division of Engineering, Michigan Department of Health, dated January 9, 1964 to Mr. W.J. Maxey, Jr., Assistant Superintendant, Boys Training School, Whitmore Lake, Michigan reads as follows:

"It is impairative that you and others to whom copies of this letter are directed recognize that the point of discharge of the treated effluent would have to be altered if nuisance conditions, public health hazards, damage to fish life or other unlawfull conditions should be created. Surveillance will be maintained of the stream below the point of effluent discharge and we will advize you and others if conditions exist or land uses change requiring an alteration in the point of discharge."

Paragraph three of plaintiffs exhibit No. 9, the same being a letter dated February 27, 1964 from the above referred to Donald M. Pierce to Mr. Francis Shehan, 7209 Stone Street, Masburg Michigan roads as follows:

"We wish to assure you and the others to whom copies of this letter are being sent that irrespective of

who owns or operates the present treatment plant its expansion will not be permitted until a thorough and complete evaluation and study is made and the matter is discussed with your Township Board and the County of Livingston with specific consideration being given to the point of discharge of the treated effluent from the expanded plant."

Paragraph 2.c of plaintiffs exhibit No. 10, the same being a letter from Mr. Donald M. Pierce dated April 6, 1964 to Mr. Donald A. Moon, 326 W. Main, Brighton, Michigan reads as follows:

"We will require that the point of discharge be relocated if it creates a nuisance, becomes a health hazard or damages fish life in Hamburg Creek, Huron River or any of the chain of lakes located in Hamburg Township."

It was the testimony of Mr. Blakeslee, a Regional Project
Engineer of the Michigan Department of Public Health, after
reviewing the above passages cited herein from plaintiffs exhibits
that plant expansion of defendants plant was never discussed with
Ramburg Township.

Mr. John M. Bohunsky, a Water Resources Commission Regional Engineer and holder of a BS and MS Degree with 11 years experience with said commission testified that in 1968 the WBC moved against Il communities to resove phosphates and that two such communities did not comply, defendant Northfield Township herein being one of those two communities. Mr. Bohunsky testified that the water course in question is highly polluted, with nutrients, both above and below the outfall pipe and testified further that he judged the quality of the receiving waters by a visual observation made some months prior to his testimony. This witness's testimony was further that he did not know if stopping all phosphates from defendants plant would make any appreciable difference with regard to Strawberry Lake. Such witness further testified that he is in total agreement with all the standards set out in defendants exhibit No. 3 above and further opines that the receiving waters would be enhanced if the final order is complied

with. Mr. Bohunsky further testified that defendants herein have two options, 1. Remove phosphates, 2. expand plant and remove phosphates. To this witness defendant has, apparently, elected to follow No. 2 and this witness does not know whether or not Hamburg Township was ever consulted with regard to these two options being offered defendant (see excerpts from plaintiffs exhibits 2,9 and 10 set out above).

It was the further testimony of this witness that if the defendants herein comply with the amended final order of determination and damage is still being done to the receiving waters because of nutrients the levels in the order could be ordered "adjusted" or the complaint ignored even though the "standards" are being abused. See exhibit No. 15 "Water Quality Standards For Michigan Waters",

Francis B. Frost, holder of a BS in Civil Engineering.

Sanitary Engineer with the Water Resources Commission for 35
years, Chief Engineer and Chief of Water Research Division and

Enforcement of Water Resources Laws was the next witness of
defendants herein who testified that the latest WRC order makes
the effluent self sustaining if such order is complied with and
further that fish could exist in such affluent and further
testified that said order is extremely restrictive and has some
items, such as 1.c, that he feels engineers might well not be
able to consistently comply with. It was the further testimony
of this witness that the water course in question is so over
loaded with nutrients now that the complete removal of defendants
plant or the increase of its output to 750,000 gallons per day
would make no difference.

It was the further testimony of this witness that there was no feasible alternate outfall site. Mr. Frost further testified that the current order of the WRC calls for a stable effluent which means that the influent does not decompose after leaving

the outfall and further that an increase to 250,000 gallons per day from 225,000 gallons per day of such stable effluent would be a non measurable impact on the receiving waters. It was Mr. Prost's further testimony that he does not recommend stable effluents being discharged into any empounded lake.

Joseph W. Price, Sanitary Public Health Engineer, Washtenaw County, BS, MS. 20 years experience, testified that there are about 2,000 dwellings in the area in question employing the use of spetic tanks and that such septic tank purpose is a settlement process and not a treatment process with the idea that such waste is to be absorbed in a tile field. Mr. Price further testified that many of the cottages in the area in question are from one to three feet above ground water and that many are seasonably within the ground water.

Mr. Price accepts the latest WRC standards as proper for expansion of defendants plant to seet population growth.

Dr. Jack A. Borchardt, Professor of Sanitary and Water Resources Engineering University of Michigan testified that in 1956 he studied the Euron River for the City of Tomilanti by the taking of 30,000 samples at 16 points over 30 miles of the river to study algae. Such studies were not compared to, in the testimony of Mr. Borchardt, present levels in the waters in question. Later grab sampling to show nutrients above and below defendants plant on the Huron River were done within the last year at Horseshoe Creek and up to Ore Lake through Strawberry Lake. High concentrations were detected at Ore Lake and such concentrations rose and fell to Horseshoe Creek. This witness further testified that the entire watershed in question has a super abundance of phosphates and that there is no reason to defendants believe nor leels/contribution of phosphates has a marked effect on the algae already present with the recommendation that these lakes must be sewered inasmuch as soptic tank use is a serious

source of contamination in the area in question.

Water Resource Commission recommendations were the most strict of any one would find in the country and would be productive of a high quality discharge and that such discharge would support fish. Professor Borchardt further testified that the expansion of defendants plant as planned would have little if any impact with regard to flow alone and that the important consideration is the poundage of nutrients and further that the quality of the recommended effluent is far superior to the present effluent from such plant and finally that if such plant were closed down completely it would make no difference in nutrients already in existance in the area.

In support of defendants above referred to testimony regarding the extensive use of septic tanks in the area in question and their contribution to the contamination complained of, defendants introduced into evidence exhibits No. 18 through and including No. 27 which were photographic alides of the area in question. Slide No. 22 purports to be a picture of a cottage at Ore Lake pumping water directly onto the surface of the ground. Slide No. 23 purports to be a picture of another cottage with a drainfield under construction at ground water level. Slide No. 25 depicts the East shore of Strawberry Lake showing a high concentration of cottages, the lake level line, and a retaining wall through which there appears to be a drain pipe running directly into the lake. Slides No. 26 and 27 appear to be cumulative of the cortent of No. 25.

Rebuttal testimony indicated that dye tests have been made at Strawberry Lake resulting in only two traces being apparent, one immediately and the other within a 24 hour surveillance. A 47 year resident on Bob White Beach testified, in rebuttal, that

In his opinion, based on his observations, the water course in question has never been as bad in the past as defendants would indicate but that such water course is currently in poor physical shape and has become so over the past several years. Further rebuttal testimony was received from a party who has lived for the past 27 years on Mill Creek which runs through her property. Such testimony indicated that before 1963 Mill Creek was used for general recreational purposes which included fishing and swimming approximately 1800 feet from the outfall pipe. Said witness further testified that said creek is now useless for swimming and fishing purposes and that she receives a highly offensive odor from said waters.

This Court finds, as a matter of law, that the State of Michigan via its paramount powers, had a right to establish the waste water disposal plant herein in question in Green Oak Township with the discharge pipe located in Hamburg Township and also had the right to, as it did, dispose of such plant as a State facility and sell the same to a lesser municipality but subject to promises and conditions made to or held out to other parties or municipilities affected by the operation of said waste water treatment plant or the location of said plant's discharge pipe.

This Court of equity holds that as a matter of law plaintiffs herein are entitled to rely on those portions of their exhibits No. 2, 9 and 10 herein set out at pages 12 and 13. Such promises, to be enforced, are hereby held to be subject to a showing that the determental conditions set out therein do in fact exist, which this Court so finds as a fact.

This Court finds, as a matter of fact, based on the testimony received from both plaintiff and defense witnesses under
oath in open Court that the State of Michigan has not lived up
to the promises contained in the exhibits above referred to.

This Court further finds, as a matter of fact, based on

the evidence and exhibits presented to it, that defendants herein have in the past and are currently discharging an effluent that pollutes the receiving waters.

This Court further finds that the quality and quantity of defendants effluent can be and will be ordered adjusted. And further, this Court finds, as a matter of fact, based upon the evidence and testimony presented to it, that not only is the existing quality of defendants effluent objectionable but that the proposed standards of quality and quantity set out in defendants exhibit No. 3 above are unreasonable and deficient when taking into account the designated use of the receiving waters.

Before adopting and specifying any particular standards in this case the Court will now address itself to the question of jurisdiction in this case of <u>lakeland</u>, et al v. <u>Township of Northfield</u>, et al.

Defendants herein seriously contest the jurisdiction not only of this Court in this case but of the Circuit Court in general in any particular litigation wherein there has been activity of the Department of Matural Resources and/or the Water Resources Commission and such activity of such agency has been productive of an order wherein a standard has been fixed.

Public Act 127, 1970, also known as the Thomas J. Anderson, Gordon Rockwell Environmental Protection Act of 1970", provides in section 2 thereof that any person, natural or otherwise, "may maintain an action in the Circuit Court having jurisdiction where the alleged violation occurred or is likely to occur for declaratory and equitable relief...for the protection of the air, water and other natural resources and the public trust therein from pollution, impairment or destruction."

MSA 14.528 (202) sec. 2.(2) reads as follows:

⁽²⁾ In granting relief provided by subsection (1) where there is involved a standard for pollution or for an anti-pollution device or procedure, fixed by rule or otherwise, by an

instrumentality or agency of the state or a political subdivision thereof, the Court may: (a) determine the validity, applicability and reasonableness of the standard. (b) When a Court finds the standard to be deficient, direct the adoption of a standard approved and specified by the Court."

This Court finds that the above language is not mandatory.

Also in this regard see section 4(2) of the Act which reads as follows:

"If administrative, licensing or other proceedings are required or available to determine the legality of the defendants conduct, the Court may remit the parties to such proceedings..."

Section 6 of the Act recites:

"This Act shall be supplementary to existing administrative and regulatory procedures provided by law."

This Court finds, as a matter of law, that it does have original jurisdiction in litigation such as is presently before the Court. This Court further finds, as a matter of law, that the litigation now before this Court is original litigation authorized by Public Act 127, 1970 and not judicial review of administrative proceedings or orders as set out in section 4 of said Act. One could legitimately confuse litigation now before this Court as one being in the nature of judicial review of an order of an administrative body in that defendants herein attempt to justify their present and future activities on a heretofore entered amended final order of determination from the water Resources Commission. Plaintiffs herein are not appealing from such order but are merely, in the process of their original litigation, attacking the proposed future conduct of defendants herein based on such WRC Order of Determination.

Defendant, in its Brief, relies heavily on the opinion of Judge Warren, Ingham County Circuit Judge, in the matter of Roberts v. State of Michigan, et al., Ingham County Circuit Court, File No. 12428-C. This Court is of the opinion that it is not controlled by the opinion set out in Roberts by the learned Ingham County Circuit Court Judge and further finds that any

dispute between circuits must be resolved by a higher tribunal.

This Court does not believe Act 127, 1970, is unconstitutional by virtue of it having contained therein a prohibited delegation of powers. Said Act simply states that when a Court finds a standard to be unreasonable or deficient the Court may set an acceptable standard which the Court may enforce directly or order the agency involved to enforce such standard.

This Court is further of the opinion that it can direct the Water Resources Commission to adopt a different pollution standard without a judicial review of Commission proceedings wherein standards were adopted and by virtue of said Act 127 can direct the Commission to adopt different standards via judicial review of the Commission's proceedings. Such power of this Court is not inconsistent with the authority set out in said Act 127 in this regard see also Act 245, 1929 as amended by Public Acts 1970, No. 200, and Public Acts of 1969, No. 306.

In addition to the above, this Court is not unwindful of the law set out in white Lake Association v. Whitehall, 22 kich App 262. This Court is of the opinion that White lake, and the rules set out therein, is so longer controlling in that Act 127 of 1970, specifically section 2 thereof, donies the Vater Resources Countsaion primary jurisdiction in matters such as are now before the Court. The primary jurisdiction doctrine was the controlling factor employed by the Court of Appeals in its disposition of White lake but such doctrine was coupled with considerations of the lack of advance judicial proceedings when such doctrine was asserted and the fairness or unfairness of remitting plaintiff thereis to another proceeding, and further, such doctrine was employed in the absence of the language now found in Act 127 of 1970. It should be understand herein that this Court does not disagree with the rationals for nor the necessity of the primary jurisdiction doctrine but merely points out that the same is not absolutely controlling herein.

mony presented to it, that defendants present effluent discharge as a matter of fact and law is a collutant and that the same does constitute a nuisance which is abstable via equitable and or declaratory relief. And further, this Court finds as a matter of fact and as a matter of law that such discharge by defendants of a polluted effluent is an unreasonable use of these waters and is Violative of plaintiffs riparian rights.

This Court further finds that the offensive quality of defendant's effluent can be corrected by the adjustment of standards, heretofore set out, to improve the quality of such effluent to a state acceptable by this Court.

Section 3(1) of the Act setsforth the standards of evidentiary showings in such matters now before the Court. Without taking issue as to the legislature's power to set rules of evidence in court this court will accept, arguendo, the standards set out in said section 3(1) which reads as follows:

"When the plaintiff in the action has made a prima facie showing that the conduct of the defendant has, or is likely to pollute, impair or destroy the air, water or other natural resources or the public trust therein, the defendant may robut the prima facie showing by the submission of evidence to the contrary. The defendant may also show, by way of an affirmative defense, that there is no feasible and prudent alternative to defendant's conduct and that such conduct is consistent with the promotion of the public health, safety and welfare in light of the state's paramount concern for the protection of its natural resources from pollution, impairment or destruction."

This Court finds as a matter of fact and as a matter of law that the plaintiff herein has established a Prima Facie showing that the conduct of the defendants herein has polluted and is likely to continue to pollute the natural resources in question. It is the further finding of this Court as a matter of fact and as a matter of law that although the defendant has submitted its case and evidence that such Prima Facie case of

plaintiffs herein has not been overcome. It is the further finding of this Court that the affirmative defense raised by the defendants herein of there being no feasible and prudent alternative to their conduct has not been borne out by defendants proofs. Defendants merely recited, through their witnesses, that there was no reasonable and feasible alternatives to their actions and did not support such recitations with facts other than alluding to economic considerations. Defendants also admitted, by way of their proofs, that present and future population below the outfall pipe had not been taken into consideration at the original construction of their waste water treatment plant and apparently is being ignored currently upon their request to continue operation and expand the volume of their discharge.

Plaintiffs herein, in their Complaint, seek relief from this Court which this Court feels presently may be overly harsh in view of the fact that it is the opinion of this Court that the polluting effect of defendants effluent into plaintiffs receiving waters can be negated and that the receipt of a clean non polluting effluent into plaintiffs receiving waters from defendants waste water treatment plant will not injure plaintiffs herein.

Judicially redetermined effluent standards they are at complete liberty to forthwith cease discharging their effluent in such a manner and at such a place as the same finds its way into, either directly or indirectly, the receiving waters of plaintiffs herein. This may well be accomplished by defendants herein either relocating or constructing anew its outfall pipe to a point of discharge not offensive to plaintiffs herein or their receiving waters.

By authority of MSA 14.528 (202) sec. 2 (2) (a) (b) this Court finds the standards setforth in paragraph 1.a to f of an

nded final order of determination to. 1316, dated October

15, 1969 of the State of Michigan Water Resources Commission to
be deficient and directs said Water Resources Commission to
adopt the following standards setforth herein as substitutes
for and in lieu of the standards setforth in said Water Resources
Commission's amended final order of determination No. 1316.

Said judicially directed redetermined standards, and additional standards, shall read as follows:

- "Treat or control the sewage and wastes collected by its system of sewers and drains to the extent that when discharged from its waste water treatment plant to the Horseshoe Drain or any other water course they shall:
- a. Contain not more than four (4.0) milligrams per liter of oxygen consuming substances as measured by the five-day biochemical oxygen domand (BOD) test.
- b. Contain not more than ten (10.0) willigrams per liter of suspended solids.
- c. Contain not more than five tenths (0.5) milligram per liter of ammonia nitrogen as MH3-N.
- d. Contain not more than one thousand (1,000) total coliform per one hundred (100) milliliters and the average of any series of ten consecutive samples shall not exceed 1,000 coliform per one hundred (100) milliliters. The average fecal coliform density for the same ten consecutive samples shall not exceed 100.
- e. Contain not more than twenty percent (20%) of the phosphorus contained in the influent to the waste water treatment facility.

 Township of Northfield, Washtenaw County is ordered to begin complying with this standard forthwith.
- Contain not less than ten (10.0) milligrams per liter of diasolved oxygen (DO).
- g. Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the receiving waters designated use of recreational, total body contact.
- h. The temperature of such effluent discharge shall not exceed ninety degrees fahrenheit.

It is the further order of this Court that said water
Resources Commission shall adjust, where necessary, the time

schedule setforth in item 2 a through 2 d of said amended order No. 1316, dated October 15, 1969.

It is the further order of this Court that in the event that defendants berein elect not to cease discharging their effluent into plaintiffs receiving waters that the berein judicially redetermined water effluent standards shall be put into effect under a time table to be set by the Water Resources Commission with the exception of the phosphate removal requirement (see e above) which shall be complied with forthwith.

It is the further order of this Court that defendant Northfield Township shall forthwith meet with officials of Hamburg Township and officials of Livingston County, Michigan for a complete disclosure to said officials of their intentions which shall include but not be limited to plant expansion plans and a time table of increased discharge volume up to but not to exceed 750,000 gallons per day of effluent in conformity with the herein judicially redetermined effluent standards.

It is the further order of this Court that defendant herein is no longer restrained from physically increasing the size of its waste water disposal plant but that said defendant cannot and is hereby ordered not to increase the volume of its daily discharges beyond 250,000 gallons per day until further order of the Court and the Court being satisfied, at that time, that the above judicially set standards have been met and will be regularly met and will continue to be met as the discharge volume increases and further that the Court is satisfied that plaintiffs receiving waters will not be polluted by such increase in volume of effluent discharge.

It is the further order of this Court that this Court shall retain jurisdiction of this matter pending completion of the redesignated time schedules mentioned above by the Water Resources Commission.

It is the further order of this Court that pending further

action of the Water Resources Commission temporary restraining orders may issue, as needed, to maintain the present status quo.

It is the further order of this Court that defendants herein are restrained from issuing any new tap-in permits or increasing the number of units or users of their waste water
treatment plant if such increase in units or users will provide
a discharge in excess of 250,000 gallons per day, notwithstanding
the language of the perceeding paragraph.

It is the further order of this Court that plaintiffs herein are directed to prepare an order in conformity with this opinion of the Court, circulate the same amongst all parties hereto for consent as to form and content and present the same for entry no later than 20 days from the date of receipt of this opinion. In the event that plaintiff cannot secure such signstures or that defendants refuse to affix their signstures the same may be brought on for entry, after notice, on a regular motion day.

PAUL R. MARINISMS, Circuit Judge

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROFERTY OWNERS ASSOCIATION, a Michigan unincorporated voluntary association, and TOWNSHIP OF HAMBURG, a Michigan body corporate, jointly and severally,

Plaintiffs,

AND

PORTAGE AND BASE LAKE ASSOCIATION, INC., a Michigan non-profit corporation,

Intervening Plaintiff,

Civil Action

No. 1453

vs.

TOWNSHIP OF NORTHFIELD, a Michigan body corporate,

Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan body corporate,

Intervening Defendant.

(FULSTO)

COUNTY

ORDER

At a session of said Court held in the Courthouse in How gan, this day of 1972.

PRESENT: THE HONORABLE PAUL R. MANY INSKE Circuit Judge

This non-jury cause having been tried, argued, briefed and submitted in July of 1971, the Court being fully advised in the premises, and pursuant to the Opinion filed herein on February 29, 1972, containing certain findings of fact and conclusions of law; now, therefore,

IT IS HEREBY ORDERED, ADJUDGED and DECREED as follows:

- 1. Treat or control the sewage and wastes collected by its system of sewers and drains to the extent that when discharged from its waste water treatment plant to the Horseshoe Drain or any other water course they shall:
 - a. Contain not more than four (4.0) milligrams per liter of oxygen consuming substances as measured by the five-day biochemical oxygen demand (BOD) test.
 - b. Contain not more than ten (10.0) milligrams per liter of suspended solids.
 - c. Contain not more than five tenths (0.5) milligram per liter of ammonia nitrogen as NH₃-N.
 - d. Contain not more than one thousand (1,000) total coliform per one hundred (100) milliliters and the average of any series of ten contive samples shall not exceed one thousand (1,000) coliform per one hundred (100) mill.

 The average facal coliform density the same ten consecutive samples shall not contive one hundred (100).
 - e. Contain not more than twenty percent) of the phosphorus contained in the the waste water treatment facili p of Northfield, Washtenaw County to begin complying with this standard ...
 - f. Contain not less than five (5.0) liter of dissolved oxygen (DO), less than seventy-five percent (7 saturated dissolved oxygen at the perature of the effluent dischar.
 - g. Concentrations of substances of origin shall be less than those may become injurious to the recei designated use of recreational, to contact.
 - h. The temperature of such effluent discharge shall not exceed ninety (90) degrees thrembelt.
- II. That, in the event defendants elect to continue discharging effluent into plaintiffs' receiving waters, the time

schedules contained in paragraph 2 of said Amended Final Order of Determination, No. 1478, shall be adjusted where necessary by said Water Resources Commission, except that the new phosphate removal standard contained in subparagraph e of paragraph 1 shall be complied with forthwith.

III. That defendant NORTHFIELD TOWNSHIP shall forthwith meet with officials of HAMBURG TOWNSHIP and officials of Livingston County and shall make a complete disclosure to said officials of the intentions of NORTHFIELD TOWNSHIP respecting its sewage treatment plant, including but not limited to plant expansion plans and a timetable of increased discharge volume up to but not to exceed 750,000 gallons per day of effluent in conformity with the judicially redetermined effluent standards set forth in part I of this Orde.

IV. That NORTHFIELD TOWNSHIP is no longer restrained from increasing the size of its wast; water disposal plant but that said defendant shall not increase the volume of its effluent discharges beyond 250,000 gallons per day until further order of this Court, and the Court being satisfied, at that time, that the above judicially set standards have been met and will be regularily met and will continue to be met as the discharge volume increases and further that the Court is satisfied that plaintiffs receiving waters will not be polluted by such increase in volume of effluent discharge.

- v. That this Court shall retain jurisdiction of this matter pending completion of all matters set forth in the redesignated time schedules referred to in paragraph II above.
- VI. That pending further action of the Water Resources Commission, temporary restraining orders may issue as needed to maintain the present status quo.

VII. That defendants NORTHFIELD TOWNSHIP and GREEN OAK TOWNSHIP are restrained from issuing any new tap-in permits or increasing the number of units or users of their waste water treatment plant if such increase in units or users will result in a discharge in excess of 250,000 gallons per day, notwithstanding any contrary language in this Order.

July Makinske

PREPARED AND PRESENTED BY:

Peter A. Davis

HOOPER, HATHAWAY, FICHERA,

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851-6111

Attorneys for Defendant and for Intervening Defendant.

LEASE OF SEWAGE DISPOSAL SYSTEM AND SEWAGE TREATMENT AGREEMENT

This Agreement made this 30 day of 1969, between the Township of Northfield, Wastenaw County, Michigan (herein called Northfield) and the Township of Green Oak, Livingston County, Michigan, (herein called Green Oak).

WHEREAS, Green Oak is constructing a sanitary sewage collection system, herein called the Green Oak system, which system consists of those sanitary sewers constructed by the Township of Green Oak in accordance with its Whitmore Lake West Side Special Assessment Sewer Improvement and its Whitmore Lake East Side Special Assessment Sewer Improvement.

NOW THEREFORE, the parties agree as follows:

1. In consideration of the sum of One (\$1.00) Dollar in hand paid to it by Northfield, receipt of which is hereby acknowledged, and other good and valuable considerations as set forth in this Agreement, Green Oak hereby leases to Northfield and Northfield hereby leases from Gleen Oak, the sanitary sewers located within the Township of Green Oak and described fully in the plans and specifications filed as a part of the Green Oak Township Special Assessment Improvement known as the Whitmore Lake West Side Special Assessment Sewer Improvement and the Whitmore Lake East Side Special Assessment Sewer Improvement for an initial term commencing on the date hereof and terminating on December 31, 1979. After the initial term of this lease, it shall be extended automatically for successive terms of ten (10) years each. The Agreement may be terminated by either party, after the expiration of the initial term, upon one years written notice served upon the other party by delivering the same to the Clerk of the municipality upon which notice is to be served. The lease may be terminated at any time upon the mutual consent of both parties.

- 2. During the term of this lease or any extension thereof, Northfield shall maintain and operate the Green Oak system,
 so far as lawful and practicable, in the same manner as it
 maintains and operates the Northfield system, including the
 billing directly to, and collection of all rates, charges and
 fees directly from the users of the Green Oak system. All
 Northfield books and records pertaining to the Green Oak system
 shall be available to Green Oak for inspection by its authorized
 agents and representatives.
- 3. Northfield shall provide the services hereunder to the users of the Green Oak system at the rates, charges and fees established for similar users of the Northfield system by ordinances of Northfield. Northfield shall give ninety (90) dyas notice of any change in said rates, charges and fees to Green Oak in writing, delivered in person or by mail to the Green Oak Township Clerk.
- 4. Annually, and prior to September 1, Northfield shall certify to the Green Oak Township Assessing Officer all the said rates, charges and fees, together with interest and penalties, owing by users of the Green Oak system and delinquent for six (6) months or more, and such assessing officer shall enter the same on the Green Oak tax roll as a lien against the premises to which such services have been rendered, and Green Oak shall enforce the lien and shall collect said sums as provided by law. Green Oak shall promptly remit to Northfield all sums so collected. If Green Oak fails or neglects to so enter such delinquent charges on its next tax roll, Green Oak shall pay Northfield such charges not later then December 1, of the year of such certification.
- 5. During the term of this Agreement, Northfield shall perform such maintenance and repairs as shall be necessary to Green Oak's system to the extent possible from the normal revenue; of the combined Northfield-Green Oak system. Northfield shall not be obligated to reconstruct or repair parts of the Green Oak system damaged or destroyed by natural disaster, war or

insurrection or similar unusual happenings beyond Northfield's control.

- 6. The execution of this lease shall be deemed to be the formal consent of the Township of Green Oak to the exercise by Northfield of itspowers under Act 94 of the Public Acts of . 1933, as amended, within the Township of Green Oak and Northfield is hereby granted a franchise to transact local business in Green Oak Township as may be convenient and necessary to provide the service required under this lease.
- 7. Northfield shall furnish Green Oak all ordinances, rules and regulations of Northfield pertaining to the Northfield system and Green Oak shall promptly adopt, enact and establish similar ordinances, rules and regulations to effect, so far as practicable, uniformity thereof throughout the Northfield and Green Oak Systems. Green Oak shall be liable to Northfield for any loss or damage of Northfield by reason of Green Oak's neglect or failure to adopt, enact, establish and enforce its said ordinances, rules and regulations.
- 8. It is understood and agreed by both parties hereto that the Green Oak system has been constructed for the reception and transporation of sanitary sewage only and Green Oak shall take such reasonable steps as are necessary to prevent the introduction thereto of storm or surface drainage.
- 9. Green Oak agrees that Northfield's standards and specifications from time to time in effect shall govern the installation and maintenance of sewers in the Green Oak system and that plans and specifications for any extensions, alterations or replacements within the Green Oak system shall be submitted to Northfield for approval prior to construction.
- 10. In the event proper operation of the Northfield system requires Northfield to discontinue temporarily all or a part of service to be rendered to Green Oak hereunder, no claims for damages for such discontinuance shall be made by Green Oak against Northfield, provided that any action hereunder by Northfield shall not discriminate between customers of the

Northfield system and customers of the Green Oak system.

- 11. To the extent necessary Green Oak hereby grants permission to Northfield to use streets, highways, alleys and/or easements in the Township for the purpose of constructing, ... maintaining and operating such parts of the Northfield system as are necessary to provide service to the Green Oak system.
- 12. The parties recognize the possibility that the revenues of the Northfield system, including revenues received from the Green Oak system, may from time to time be insufficient to meet the obligations of Northfield under a certain contract dated July 12, 1967, between Northfield and the Huron Utilities Association, or under any bonds or other contractual undertakings of Northfield for financing future improvements or extensions of the sewage treatment plant and disposal facility which are necessary to provide continued service to Green Oak. In the event of such deficiencies, and to the extent that Northfield has pledged its faith and credit under said bonds, contracts, or other contractual undertakings to advance funds, to meet deficiencies, Green Oak shall be obligated to pay to Northfield its share of such deficiency in the relative proportion of said sum as the then number of customers capacity of the Green Oak system bears to the total number of customer capacity of the combined Northfield and Green Oak systems. It is understood by both townships that such payments of Northfield and Green Oak would be in the nature of advances to the sewage disposal system and that Northfield will adjust its rates so as to provide funds and to meet future payments under said bonds, contract or other contractual undertakings as they become due and to provide a fund from which Northfield and Green Oak will be reimbursed for said advancements within a reasonable period of time.
- 13. In the event of the termination of this lease, Northfield shall continue to accept, treat, and dispose of

sanitary sewage emanating from the Green Oak system until

December 31, 1999, unless sooner terminated by Green Oak upon

five (5) year's written notice served upon Northfield by delivering the same to the Clerk of the other municipality or may be
terminated at any time upon mutual consent of both parties. Such
continued service shall be upon such reasonable conditions and
rates as shall be agreed upon by the parties hereto.

14. This Agreement shall inure to the benefit of and be binding upon the respective parties hereto, their successors and assigns and shall take effect upon its adoption and execution by the respective parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by respective, duly authorized officers as of the day and year first written.

In the presence of:	· TOWNSHIP OF GREEN OAK
	By: Kenneth Der and
	Supervisor
	By: Mono 72. Weenel
	/ / 55555
	TOWNSHIP OF NORTHFIELD
The state of the state of the state of	By: Peter & Xilley
many Thuis	Supervisor By: Mand () Tank
	Clerk

STATE OF MICHIGAN

IN THE CIRCUM COUNT FOR THE COUNTY OF LIVINGS YOR

LARELAND PROPERTY OWNERS ASSOCIATION, a Michigan unicorposated voluntary association, and TOWNSHIP OF HAMBURG, a Michigan Municipal Corporation, jointly and severally.

Plaistiffs.

most.

PORTAGE AND RAME LAKES ASSOCIATION, INC.,

Interventor Plaint of,

W101

No. 1452

CHARLE MICH

TOWNSHIP OF MURTHWELD, a Michigan Burnicipal Corporation.

Defendant

to mark

TOWNSHIP OF GREEN ORK, a Michigan Memorial Corporation.

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CIPA ETERNIST

ARTHUR M. CARPESTUR Attorney for Plainting

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EP-363(8)

Affecting for Intervening Philosoff

(2) 332503

DALE E. COOPER. Attacher for Intervening Differentials

DOTERLAS K. READISTS Attorney for Defendent

SUPPLEMENTAL CROSS

As a session of said Court beld to the

Continues in Bourle, Michigan this

PRICERTS THE EXINDADELY PAIN, E. MARIESE, Circuit Judge

By arrier made and entered her it, 1971 herein this Court having retained jurisdiction in the above smithed action proving completion of all-

mattern is the redesignated time schedules referred to in paragraph 12 of said order, and

Upon motion of Defendant Township of Northfield and Defendant Township of Green Gak for a supplemental order herein it appearing that the improvement of the Morthfield Township wastewater treatment facility is substitutially completed in conformance to the design thereof, and that the performance of that facility is meeting and excepting all effluent requirements imposed by the May 18, 1872 under herein, and the Court being fully advised in the presides, new, mereloss,

IT IS ORDERED AND ADJUDGED AN HOLDOWS:

- I. That the said motion be and hereby to greated, the Court hereby, determining that the efficient paquirements beretology (massed by said order have been turk, complied with and substitut.
- 2. Then the Defendent Township of storished to and he vely at authorized to increase the volume of ellipsed to be discharged from the said wante water transferred facility to a total volume not exceeding you, she gathers per day.
- and hereby are excelled escaping that the Court shall estate imposibility becomes a court on hereby are excelled escaping that the Court shall estate imposibilities become product on a product of the Court on hereby that it is court on hereby the filled with the clock of sections—the appropriately the public report, until further order of the Court.

serviced on commelled to

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Comment of the Chamber of Survey of