APPENDIX 1: WELL RECORDS AND MAINTENANCE SUMMARIES

Unique No. 00208024
County Name Hennepin

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING RECORD
Minnesota Statutes Chapter 1031

Update Date 2015/06/04
Entry Date 1991/08/24

Township Name	Township	Range	Dir	Section	Subsection
	117	23	W	15	CBCBBD

Well Depth 406 ft. **Depth Completed** 403 ft. **Date Well Completed** 1958/09/03

Well Name MINNETONKA BEACH 1

Drilling Method Cable Tool

Well Owner's Name MINNETONKA BEACH 1

MINNETONKA BEACH MN 55391

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No
From ft. to ft.

Contact's Name CITY OF MINNETONKA BEACH

MINNETONKA BEACH MN 55391

Use community supply(municipal)

Casing **Drive Shoe?** ☐ Yes ☐ N

Hole Diameter

Casing Diameter **Weight(lbs/ft)**
10 in. t 383 ft

GEOLOGICAL MATERIAL	COLOR	HARDNESS	FROM	TO
CLAY			0	5
SANDY CLAY			5	40
SAND & GRAVEL MIX			40	45
BLUE CLAY			45	170
SAND & MUD			170	225
MED. HARD SANDY BLUE C			225	236
HARDPAN			236	268
CLAY, SAND & GRAVEL			268	275
WHITE SHALE & SANDROC			275	288
YELLOW SHALE, SANDSTO			288	310
SANDROCK & SHALE			310	338
SOFT SANDROCK			338	360
MEDIUM SANDROCK WITH			360	368
SOFT SANDROCK			368	383
HARD SHALY SANDROCK			383	390
SANDROCK			390	393
SOFT SANDROCK			393	406

Screen N **Open Hole** From 383 ft. to 403 ft.

Make Type

Static Water Level 62 ft. from Land surface Date 1988/06/27

PUMPING LEVEL (below land surface)
82 ft. after hrs. pumping 420 g.p.m.

Well Head Completion
Pitless adapter mfr Model
Casing Protection ☑ 12 in. above grade
☐ At-grade(Environmental Wells and Borings ONLY)

Grouting Information Well grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination
ft. direction type
Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed Y
Mfr nam JOHNSON
Model HP Volts
Drop Pipe Length ft. Capacity 250 g.p.m
Type T

Any not in use and not sealed well(s) on property? ☐ Yes ☐ No

Was a variance granted from the MDH for this Well? ☐ Yes ☐ No

REMARKS, ELEVATION, SOURCE OF DATA, etc.

MTKA BEACH MUNI WELL MP=2.44 DUFFY 471=8878 RUSTY WELL HARD TO

USGS Quad Excelsior Elevation 954
Aquifer: CJDN Alt Id: 84-6128

Well CONTRACTOR CERTIFICATION Lic. Or Reg. No. 27058
License Business Name
Name of Driller

Report Copy

HE-01205-06 (Rev. 9/96)

Unique No. 00205624
County Name Hennepin

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING RECORD

Minnesota Statutes Chapter 1031

Update Date 2015/06/04
Entry Date 1991/08/24

Township Name	Township	Range	Dir	Section	Subsection
	117	23	W	15	CBBCCD

Well Depth		Depth Completed		Date Well Completed
393	ft.	393	ft.	1958/06/13

Well Name MINNETONKA BEACH 2

Drilling Method Cable Tool

Well Owner's Name MINNETONKA BEACH 2

MINNETONKA BEACH MN 55391

Drilling Fluid

Well Hydrofractured? ☐ Yes ☐ No

From ft. to ft.

Contact's Name CITY OF MINNETONKA BEACH

MINNETONKA BEACH MN 55391

Use community supply(municipal)

Casing **Drive Shoe?** ☐ Yes ☐ N

Hole Diameter

in. t 393 ft

Casing Diameter **Weight(lbs/ft)**

10 in. t 358 ft

GEOLOGICAL MATERIAL	COLOR	HARDNESS	FROM	TO
CLAY & GRAVEL MIX			0	30
BLUE CLAY & SAND MIX			30	65
BLUE CLAY			65	135
MUDDY FINE SAND			135	165
BLUE CLAY & SAND MIX			165	205
FINE MUDDY SAND			205	215
SOFT CLAY & SAND			215	247
DIRTY SAND & GRAVEL			247	252
MUDDY SAND & CLAY			252	265
LIMEROCK SLABS & CLAY			265	300
SHALE, SANDSTONE & SO			300	325
SOFT SANDROCK			325	355
HARD SANDROCK, SHALE		HARD	355	367
SANDROCK			367	375
SOFT & HARD STREAKS OF			375	393

Screen N

Open Hole From 358 ft. to 393 ft.

Make Type

Static Water Level 78 ft. from Land surface Date 1988/06/27

PUMPING LEVEL (below land surface)

76 ft. after hrs. pumping 400 g.p.m.

Well Head Completion

Pitless adapter mfr Model

Casing Protection ☑ 12 in. above grade

☐ At-grade(Environmental Wells and Borings ONLY)

Grouting Information Well grouted? ☐ Yes ☐ No

Nearest Known Source of Contamination

ft. direction type

Well disinfected upon completion? ☐ Yes ☐ No

Pump ☐ Not Installed Date Installed Y

Mfr nam JOHNSTON

Model HP Volts

Drop Pipe Length ft. Capacity 250 g.p.m

Type S

Any not in use and not sealed well(s) on property? ☐ Yes ☐ No

Was a variance granted from the MDH for this Well? ☐ Yes ☐ No

REMARKS, ELEVATION, SOURCE OF DATA, etc.

G.W.Q. NO.0276.

MTKA BEACH MUNI WELL MP=2.74 DUFFY 471-8878 RUSTY WELL!!!

LOCATED 120' NE. OF TREATMENT PLANT.

USGS Quad Excelsior Elevation 950

Aquifer: CJDN Alt Id: 84-6128

Well CONTRACTOR CERTIFICATION Lic. Or Reg. No. 27058

License Business Name

Name of Driller

Report Copy

Location ID: cust-19473 Minnetonka Beach, City of (SITE: C19473)

ADDRESS: P.O. Box 146
MinnetonkaBeach, MN 55361
(952) 471-8878

NOTE: >> Generated 07/17/12, 13:32:03

QUANTITY ORDERED	DESCRIPTION	INVOICE	INVOICE DATE
	JOBSITE:2510 WOODBRIDGE RD, MINNETONKA BEACH	00051884000	07/17/12
	PULLED EXISTING 15HP WELL PUMP & REPLACED WITH NEW 15HP GRUNDFOS PUMP END, 3" DISCHARGE 180GPM 240-TDH W/15HP 230V 3PHASE 6" MOTOR	00051884000	07/17/12
	4" DUCTILE IRON CHECK VALVE	00051884000	07/17/12
	5HRS LABOR, 2MEN W/ROTARY DRILL RIG & SUPPORT TRUCK	00051884000	07/17/12
1.00	JOB COST	00051884000	07/17/12
1.00	ADD'L 4" DUCTILE IRON CHECK VALVE	00051884000	07/17/12
1.00	12" WHITEWATER PITLESS O-RING	00051884000	07/17/12
7.00	HRS ADD'L LBAOR, 2MEN W/ROTARY DRILL RIG & SUPPORT TRUCK	00051884000	07/17/12
		00051884000	07/17/12

APPENDIX 2: WATER LEVEL MONITORING PLAN

City of the Village of Minnetonka Beach

2945 Westwood Road - Mailing Address: P.O. Box 146
Minnetonka Beach, MN 55361
952-471-8878 fax 952-471-7416
www.ci.minnetonka-beach.mn.us

October 12, 2017

City public works staff will implement monthly well level monitoring effective Nov. 2017. Staff will complete the attached groundwater level monitoring spreadsheet and maintain a file of historic water level records.

Minnetonka Beach Well 1 – Unique ID 208024
Minnetonka Beach Well 2 – Unique ID 205624.

Sincerely,

Heidi Honey
City Clerk

APPENDIX 3: WATER LEVEL GRAPHS FOR EACH WATER SUPPLY WELL

Minnetonka Beach does not have historic water level data for the municipal wells.

APPENDIX 4: CAPITAL IMPROVEMENT PLAN

2016–2020 Capital Improvement Program
Planning Commission Recommended: May 26, 2015 Council Adopted: August 17, 2015
Amended September 14, 2015

Proposed Capital Improvement or acquisition	***Consistent with Comprehensive Plan***	***Estimated Cost***	***Year when construction will start or acquisitions will occur***	***Means of paying for the capital improvement or acquisition***	***Comments or Recommended By***
2016					
Stormwater Project from 2013 Study – Feasibility Study	YES	$20,000 ($10,000 study/$10,000 design)	2016	Bond/Tax Levy/Assessment	Utilities Commission prioritized top three projects-rec. engineer submit costs that incorporate phosphorus reduction.
Shoreline Drive Comprehensive Transportation Plan Study	YES	TBD	2016	TAX LEVY, GRANTS, OTHER SOURCES	**Council Referred to Planning** Commission for Study on 8/7/15
City Hall Rear Entry Brick Wall	NA	$20,000 (estimate)	2016	Tax Levy	Recommended by City Staff (Young/Griffin) **Young to get more precise estimated costs**
City Hall – Re-dash stucco and paint trim	NA	$10,000	2016	Tax Levy	Recommended by City Staff (Young/Griffin) **Young to get more precise estimated costs**

City Hall Maintenance	YES	$5,000	2016	Tax Levy	Plan to be determined
EAB Project	YES	$10,000	2016	Tax Levy	Park Commission recommendation for reforestation (EAB or diseased trees)
Park Enhancements	YES	$5,000	2016	Tax Levy	Park Commission $5,000 additional from HC Grant
2017					
Paint Water Tower OUTSIDE	NA	$18,000	2017	Tax Levy	Public Works (last done in 2005 – cost estimate based on previous quotes) – Ben feels this can wait until 2017
Paint Water Tower INSIDE	NA	$30,000	2017	Tax Levy	Public Works (inside last done in 1994) - Ben feels this can wait until 2017
Leaf Loader	NA	$30,000	2017	Tax Levy	Ben Young – moved from 2015 to 2016 **-** Ben feels this can wait until 2017

Park Enhancements	YES	$5,000	2017	Tax Levy	Park Commission $5,000 additional from HC Grants
EAB Project	YES	$5,000	2017	Tax Levy	Park Commission recommendation for reforestation (EAB or diseased elm)
Phosphorus Reduction	YES	$20,000	2017	Stormwater Utility Fund/Tax Levy or Bond	Lb-2d Shoreline Drive & Old County Road and Bio-retention (Lb1b) Shoreline & Old County Rd
2018					
Arcola Portion of Watermain Project	YES	$650,000 (increased due to updated estimates)	2018	Bond or Tax Levy	Utilities Commission Recommended
Watermain Improvements – West End Looping	YES	Cottage Lane $175K Westwood Brooks $325K Old Co. Rd $175K	2018	Bond or Tax Levy	Not recommended by Utilities Commission (see minutes from 7/16/15). Planning Commission recommended 2018
Park Enhancements	YES	$5,000	2018	Tax Levy	Park Commission $5,000 additional from HC Grants

EAB Project	YES	$10,000	2018	Tax Levy	Park Commission recommendation for reforestation (EAB or diseased elm)
Phosphorus Reduction	YES	10,000	2018	Stormwater Utility Fund/Tax Levy or Bond	Swirl Separator Lb2A – partially funded by Henn Co. $12,500 total cost. 3012 Shoreline Dr. –
Phosphorus Reduction	YES	3,000	2018 - TBD	Stormwater Utility Fund/Tax Levy or Bond	Filtration swale (Lb3c) Shoreline Drive Revised Plan shows this as alternatives
Phosphorus Reduction	YES	3,000	2018 - TBD	Stormwater Utility Fund/Tax Levy or Bond	Bio-retention (Lb4h) Shoreline & Woodbridge Revised Plan shows this as alternatives
2019					
Park Enhancements	YES	$5,000	2019	Tax Levy	Park Commission $5,000 additional from HC Grants
EAB Project	YES	$5,000	2019	Tax Levy	Park Commission

2020					
Park Enhancements	YES	$5,000	2020	Tax Levy	Park Commission $5,000 additional from HC Grants
EAB Project	YES	$10,000	2020	Tax Levy	Park Commission

Regular Budget Items: Repair Limestone Wall on Northview Road, Retaining Wall by driveway to Public Works facility.

UC – Utilities Commission

APPENDIX 5: EMERGENCY TELEPHONE LIST

Appendix 5
Minnetonka Beach
Emergency Telephone List

Emergency Response Team	Name	Work Telephone	Alternate Telephone
Emergency Response Lead			
Alternate Emergency Response Lead			
Water Operator	Brian Berent	952-471-8878	612-618-3407
Alternate Water Operator	City of Orono		
Public Communications	Mayor Mike Taylor	952-290-3200	

State and Local Emergency Response Contacts	Name	Work Telephone	Alternate Telephone
State Incident Duty Officer	Minnesota Duty Officer	800/422-0798 Out State	651-649-5451 Metro
County Emergency Director			
National Guard	Minnesota Duty Officer	800/422-0798 Out State	651-649-5451 Metro
Mayor/Board Chair	Mike Taylor	952-290-3200	
Fire Chief	Greg Pederson - Mound	952-472-3555	952-472-3533
Sheriff			
Police Chief	Orono- Corey Farniok	952-249-4700	
Ambulance			
Hospital			
Doctor or Medical Facility			

State and Local Agencies	Name	Work Telephone	Alternate Telephone
MDH District Engineer			
MDH	Drinking Water Protection	651-201-4700	
State Testing Laboratory	Minnesota Duty Officer	800/422-0798 Out State	651-649-5451 Metro
MPCA		651-297-1630	
DNR Area Hydrologist	Joe Richter	651-259-5877	
County Water Planner			

Utilities	Name	Work Telephone	Alternate Telephone
Electric Company	Xcel energy	1-800-641-4400	Outage- 800-771-7300
Gas Company	CenterPoint	1-800-541-8441	
Telephone Company			
Gopher State One Call	Utility Locations	811	811
Highway Department			

Mutual Aid Agreements	Name	Work Telephone	Alternate Telephone
Neighboring Water System	City of Orono	952-249-4600	952-215-8154
Emergency Water Connection	Orono	952-249-4600	952-215-8154
Materials			

Technical/Contracted Services/Supplies	Name	Work Telephone	Alternate Telephone
MRWA Technical Services	MN Rural Water Association	800-367-6792	
Well Driller/Repair	T. L. Stevens	763-479-2272	612-868-2122
Pump Repair	T. L. Stevens	763-479-2272	612-848-2122
Electrician	Bob Connelly	1-866-222-0763	612-859-8578
Plumber	Jeff Krahl		612-730-9985
Backhoe	Tony Vanderlinde	952-955-5062	612-581-1686
Chemical Feed	DPC Industries, Inc.	651-437-1820	
Meter Repair	Mid America Meter	763-478-8041	
Generator	Zigler Power	952-233-4650	
Valves	Core & Main	612-202-7786	
Pipe & Fittings	MN Pipe	507-420-9292	
Water Storage			
Laboratory			
Engineering firm	Stantec	651-604-4894	

Communications	Name	Work Telephone	Alternate Telephone
News Paper	Pioneer		
Radio Station			
School Superintendent	Karen Orcutt	952-443-8900	
Property & Casualty Insurance			

Critical Water Users	Name	Work Telephone	Alternate Telephone
Hospital Critical Use:	NA		
Nursing Home Critical Use:	NA		
Public Shelter Critical Use:	NA		

APPENDIX 6: COOPERATIVE AGREEMENTS FOR EMERGENCY SERVICES

Minnetonka Beach does not have written cooperative agreements for potential emergency water services at this time.

Minnetonka Beach has a verbal agreement with Orono for emergency water supply assistance through normally closed gate valves. Orono currently provides water service to 15 Minnetonka Beach residences.

APPENDIX 7: MUNICIPAL CRITICAL WATER DEFICIENCY ORDINANCE

(B) **Private Wells for Domestic Use.**
As of the enactment of this ordinance, new private wells for domestic use may not be installed or operated on any property to which City Water Utility service is available. This prohibition extends to all types of wells for domestic use, including but not limited to sand point, drive point, and other shallow wells.

(9) **Restricted Hours**. Whenever the City Council determines that a shortage of water supply threatens the City, it may, by resolution. limit the times and hours during which City water may be used for sprinkling, irrigation, car washing, air conditioning, or other specified uses. After publication of the resolution, or two days after the mailing of the resolution to each customer, no person shall use or permit water to be used in violation of the resolution and any customer who does so shall be charged such fine as the City Council may set from time to time for each day of violation and the charge added to his or her next water bill. If the emergency requires immediate compliance with the terms of the resolution, the City Council may provide for the delivery of a copy of the resolution to the premises of each customer, and any customer who has received such notice and thereafter uses or permits water to be used in violation of the resolution shall be subject to the fine as provided above. Continued violation shall be cause for discontinuance of water service.

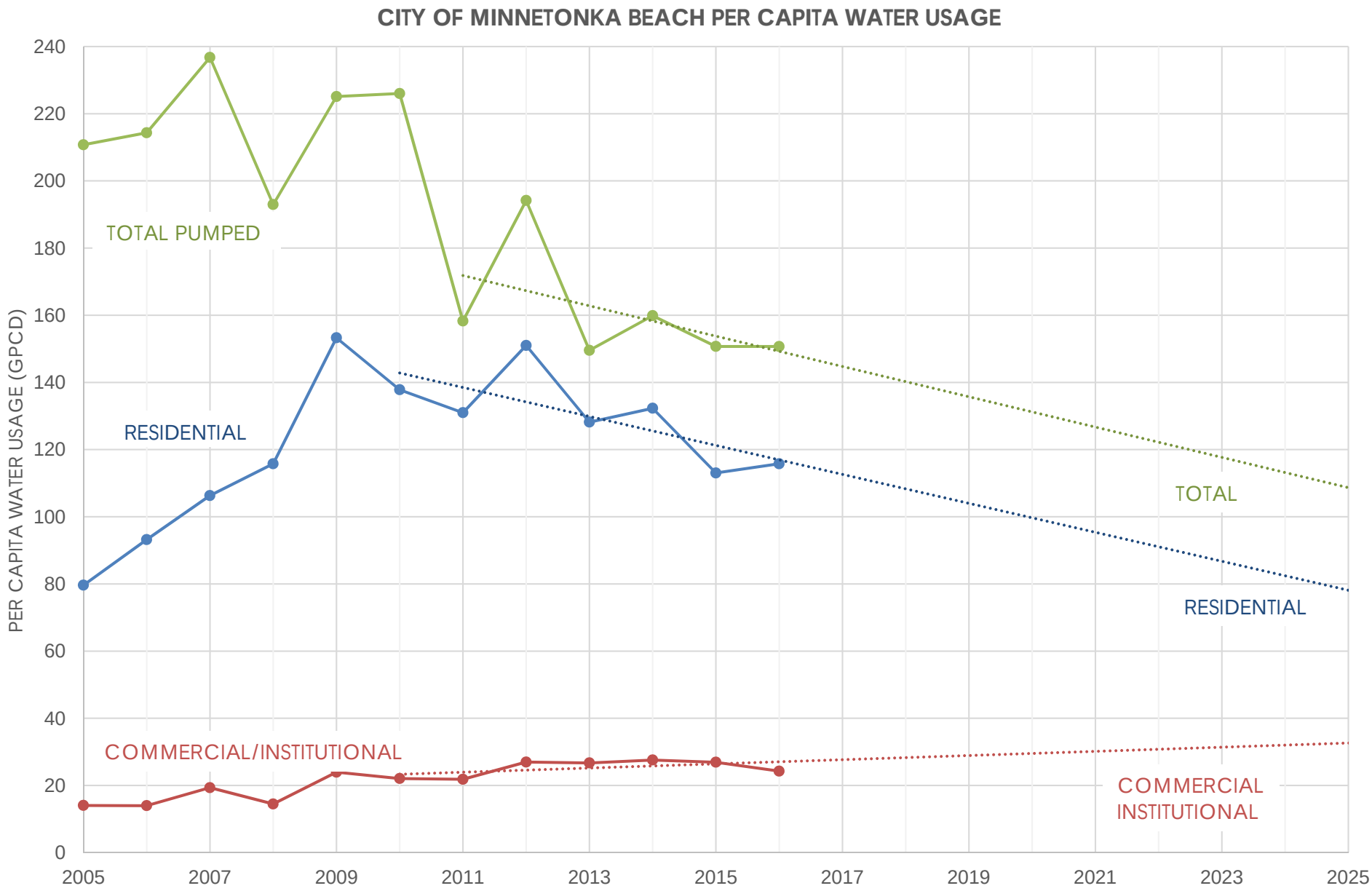
(10) **Permitting Use By Others**. No person shall permit City water to be used for any purpose except his or her own premises except in an emergency and then only if written permission is first obtained from the City Council. Anyone wishing to obtain water from a hydrant for construction purposes shall make application to the City Council for such services.

(11) **Meters**.

(A) **Meters Required**. Except for the extinguishment of fires, no person other than an authorized City employee shall use water from the City water supply system or permit water to be drawn there from unless the water passes through a meter supplied or approved by the City. No person not authorized by the City Council shall connect, disconnect, take apart, or in any manner change or interfere with any such meter or its use.

(B) **Maintenance**. The City shall maintain and repair at its expense any meter that has become unserviceable through ordinary wear and tear and shall replace it if necessary. Where repair or replacement is made necessary by act or neglect of the owner or occupancy of the premises it serves, any City expense caused

APPENDIX 8: GRAPH SHOWING ANNUAL PER CAPITA WATER DEMAND FOR EACH CUSTOMER CATEGORY DURING THE LAST TEN-YEARS


CITY OF MINNETONKA BEACH PER CAPITA WATER USAGE
PER CAPITA WATER USAGE (GPCD)
240
220
200
180
160
140
120
100
80
60
40
20
0
2005
2007
2009
2011
2013
2015
2017
2019
2021
2023
2025
TOTAL PUMPED
RESIDENTIAL
COMMERCIAL/INSTITUTIONAL
TOTAL
RESIDENTIAL
COMMERCIAL
INSTITUTIONAL

APPENDIX 9: WATER RATE STRUCTURE

Mechanical & Plumbing	The greater of 1.25% of contract price or $35.00 plus state surcharge and $1.00 mailing fee	

Planning and Zoning		
Performance Agreement	$300.00	plus costs
Conditional Use Permit	$250.00	plus costs
Variance Request	$250.00	plus costs
Variance Renewal	$250.00	plus costs
Re-zoning Request	$250.00	plus costs
Appeals	$250.00	plus costs
Building Permit/Planning and Zoning	$119.00	per hour
(for P & Z costs related to variances and land use incurred after permits are issued)		
Other Land Use	$250.00	plus costs
Planning and Zoning Consultation	$119.00	per hour
"After-the-Fact" Application	$500.00	plus costs
Tree removal in the 0-37.5 feet and Resident landscaping in the right-of-way		Costs incurred
Park Dedication Fee		Per City Ordinance 231(2)

Public Utilities		
Garbage	$ 65.00	per quarter
Leaf Pick UP	$ 7.60	per quarter
Recycling	$ 9.45	per quarter
Sewer (Residential)	$ 82.00	per quarter, per line (flat fee)
Sewer (Lafayette Club)	$ 2.45	per 1000 gallon of water
Stormwater Utility	$ 15.00	per quarter (flat fee)
Local Water Availability Charge (12/12)	$ 2,700	
Local Sewer connection Fee (10/97)	$ 2,400	
Service Availability Charge (SAC)	$ 2,485	* Set by Met Council

Water Fees		
Quarterly Flat Fee (Water base fee)	$ 23.40	per quarter
Usage Fee	$ 3.25	per 1000 gallons Residential
Usage Fee (Orono)	$ 3.46	per 1000 gallons Orono Water Users
(This may be changed at the discretion of City of Orono.)		
Minimum charge when water is shut off	$ 5.00	
Usage Fee (Lafayette Club)	$ 3.30	per 1000 gallons Lafayette Club
Late Fee	10% of bill is charged for late payments	
Water Shut Off/On	$25.00	(request by resident to shut off)
Water Meter Install/Remove	$25.00	city staff installation
Water Meter	As per prices set by distributor	
Disconnect/Reconnect Sewer and Water	$25.00	(charged on demolition permit)

APPENDIX 10: ADOPTED OR PROPOSED REGULATIONS TO REDUCE DEMAND OR IMPROVE WATER EFFICIENCY

302 General Water Regulations.

(1) Discontinuance of Service for Violations. Water service may be shut off by the City at any stop box connection whenever:

(A) The owner or occupancy of the premises served, or any person working on any pipes or equipment thereon which are connected with the municipal water system has intentionally violated any of he requirements of this Code relating to the water supply system on connections with it.

(B) Any charge for water, service, meter, or any other financial obligations imposed on the present or former owner or occupant of the premises served is unpaid.

(C) Fraud or misrepresentation by the owner or occupant in connection with an application for service.

(2) Procedure for Shut Off of Service. An order to terminate water service, except in the case of an emergency, shall be preceded by not less than ten days written notice to the owner or occupant to whom the water bill is given in the ordinary course of business, and given in the manner prescribed by the Water Department. The notice shall state the reason for the proposed termination, the date on which it shall take effect, and that the owner or occupant may appeal to the City Council for a determination that the decision to terminate the service was properly made on the basis of a violation specified in Section 302 (1), in which case the supply will not be cut off until after the appeal is heard. The City Council shall, on appeal, resolve the dispute, and it may dismiss the order to terminate the service, modify it in any way as deemed necessary, or order the service terminated in the manner stated in the notice. The decision of the City Council shall be final.

(3) Deficiency of Water and Shutting Off Water. The City is not liable for any deficiency or failure in the supply of water to consumers, whether occasioned by shutting off the water for the purpose of making repairs or connections, or from any other cause whatever. In case of fire, or alarm of fire, water may be shut off to insure a supply for fire fighting; or in making repairs or construction of new works, water may be shut off at any time and kept shut off so long as necessary.

(4) Supply From One Service. No more than one house or building shall be supplied from one service connection except by special permission of the Council. Whenever two or more parties are supplied from one pipe connecting with a service main, each building or part of the building

separately supplied shall have a separate stop box and a separate meter.

(5) **Turning On Water, Tapping Mains**. No person except an authorized City employee shall turn on any water supply at the stop box or tap any distributing main or pipe of the water supply system or insert a stop cock or other appurtenance therein without a City permit.

(6) **Repair of Leaks**. The consumer or owner shall be responsible for maintaining the service pipe from the main into the building served. Upon failure of the consumer or owner to repair any leak in such service pipe within 24 hours after notice by the City, the City may turn off the water. The water shall not then be turned on again until the consumer or owner has repaired the leak or the City has done the work and the owner or consumer has paid to the City the sum of the cost of the repairs. When the waste of water is great or damage is likely to result from the leak, the City shall turn the water off immediately upon the giving of notice if repair is not begun immediately.

(7) **Use of Fire Hydrants**. No person other than an authorized City employee shall operate a fire hydrant or interfere in any way with the City water system without first obtaining authority to do so from the City Council.

(8) **Private Water Supply**. No water pipe of the City water supply system shall be connected with any pump, well or tank that is connected with any other source of supply unless expressly authorized by the City Council. When any such unauthorized connection is found, the City Clerk shall notify the owner to sever the connection and if this is not done immediately, the City shall turn off the water supply forthwith. Before any new connection to the City system is permitted, the City shall ascertain that no cross connection will exist when the new connection is made.

(A) **Definitions**.

Domestic use of water means water used for any purpose on both residential and non-residential properties, including but not limited to use for drinking, bathing, washing, cleaning, filling pools and spas, and the irrigation or watering of lawns, gardens or plants.

Private Well means any well not owned by the City Water Utility, but does not include wells drilled for purposes other than domestic uses, such as dewatering, groundwater monitoring, heating or cooling, elevator borings or environmental bore holes.

(B) **Private Wells for Domestic Use.**
As of the enactment of this ordinance, new private wells for domestic use may not be installed or operated on any property to which City Water Utility service is available. This prohibition extends to all types of wells for domestic use, including but not limited to sand point, drive point, and other shallow wells.

(9) **Restricted Hours**. Whenever the City Council determines that a shortage of water supply threatens the City, it may, by resolution. limit the times and hours during which City water may be used for sprinkling, irrigation, car washing, air conditioning, or other specified uses. After publication of the resolution, or two days after the mailing of the resolution to each customer, no person shall use or permit water to be used in violation of the resolution and any customer who does so shall be charged such fine as the City Council may set from time to time for each day of violation and the charge added to his or her next water bill. If the emergency requires immediate compliance with the terms of the resolution, the City Council may provide for the delivery of a copy of the resolution to the premises of each customer, and any customer who has received such notice and thereafter uses or permits water to be used in violation of the resolution shall be subject to the fine as provided above. Continued violation shall be cause for discontinuance of water service.

(10) **Permitting Use By Others**. No person shall permit City water to be used for any purpose except his or her own premises except in an emergency and then only if written permission is first obtained from the City Council. Anyone wishing to obtain water from a hydrant for construction purposes shall make application to the City Council for such services.

(11) **Meters**.

(A) **Meters Required**. Except for the extinguishment of fires, no person other than an authorized City employee shall use water from the City water supply system or permit water to be drawn there from unless the water passes through a meter supplied or approved by the City. No person not authorized by the City Council shall connect, disconnect, take apart, or in any manner change or interfere with any such meter or its use.

(B) **Maintenance**. The City shall maintain and repair at its expense any meter that has become unserviceable through ordinary wear and tear and shall replace it if necessary. Where repair or replacement is made necessary by act or neglect of the owner or occupancy of the premises it serves, any City expense caused

thereby shall be a charge against and collected from the water consumer, and water service may be discontinued until the cause is corrected and the amount charged is paid.

(C) **Complaints; Meter Testing**. When a consumer complains that the bill for any past service period is excessive, the City shall have the meter reread on request If the consumer remains dissatisfied, he or she may, upon written request and the deposit of such fee as the City Council may set from time to time, have the meter tested. If the test shows an error in the City's favor exceeding five percent of the water consumed, the deposit shall be refunded, an accurate meter shall be installed and the bill shall be adjusted accordingly. Such adjustment shall not extend back more than one service period from the date of the written request.

(D) **Supplying Information**. The owner, occupant or person in charge of any premises shall supply the City with such information as the City may reasonably require related to the use of water, use of sewer, and/or water or sewer rates, including but not limited to water meter readings. Such information shall be provided to the City on or before the last day of the calendar month in which the request is made.

(E) **Late Fee**. Failure of the owner, occupant or person in charge of any premises to provide the requested information to the City in a timely manner, or complete failure to provide the requested information, shall result in the occupant, owner or person in control of such premises being assessed a late fee to be established by resolution of the City Council from time to time.

(F) **Estimated Bills**. If the owner, occupant, or person in charge of any premises shall fail or refuse to provide information as required in Section 302 (11) (D) above, or shall not do so in a timely manner, the proper charge for such premises shall be estimated by the City and the owner, occupant or person in charge of the premises shall be billed in accordance with such estimate, together with the appropriate late fee.

(G) **Interest**. If the water and/or sewer bill is not paid in full and remains unpaid for thirty (30) days following the due date, such account shall be deemed delinquent and there shall be added to such account interest from the due date to the payment date at such rate of interest as may be established by resolution of the City Council from time to time.

(H) **Payment**. Payment of the water and/or sewer bill, or the estimated water and/or sewer bill, together with late fee and/or interest, if any, shall be due in the City offices on or before the first business day of the month following receipt of the bill by the owner, occupant or person in charge of any premises. Water and/or sewer bills shall be deemed to have been "received" by the owner/addressee no later than three (3) days after mailing of the same by U.S. Mail, first class..

(12) Plumbing Regulations.

(A) **Service Pipes**. Every service pipe shall be laid with sufficient bend to allow not less than one foot of extra length and in such manner as to prevent rupture by settlement. The service pipe shall be placed not less than seven (7) feet below the surface and be so arranged as to prevent rupture by freezing. A shut-off or other stop cock with waste valve of the size and strength required shall be placed close to the inside wall of the building and be well protected from freezing. Copper tubing shall be used for all services of two inches or less. Joints on copper tubing shall be as few as possible and not more than one joint shall be used for a service up to seventy (70) feet in length. Each joint shall be left uncovered until inspected by the City. If copper tubing is connected to cast iron pipe there must be an insulated connection. Every service over two inches shall be cast iron. Connections with the mains for domestic supply shall be at least 3/4 of an inch.

(B) **Water Meter Setting**. Every water meter shall be installed in accordance with the following provisions:

(1) The service pipe from the water main to the meter shall be brought through the floor in a vertical position where the pipe enters the building. The stop and waste valve shall be twelve (12) inches above the floor.

(2) The bottom of the meter shall be between six (6) and twelve (12) inches above the finished floor line. The meter shall be set not more than twelve (12) inches horizontally from the inside line of the basement wall unless a different position is approved by the Water Department. A suitable bracket shall be provided to support the meter in a proper vertical position and prevent noise from vibration.

(3) Each meter installation shall have a stop and waste valve on

the street side of the meter. In no case shall more than twelve (12) inches of pipe be exposed between the point of entrance through the basement floor and the stop and waste valve. A stop and waste valve shall also be installed on the house side of the meter.

(4) The water pipe connecting with the main shall not exceed two feet under the basement floor from the inside of the basement wall to the water meter connection.

(5) Meter setting devices for 5/8-inch, 3/4-inch, and one-inch meters shall be of copper pipe or tubing from the terminus of the service pipe up to and including the stop and waste valve on the building side.

(C) **Location of Stop Boxes**. Curb stop boxes shall be installed generally where desired by the owners of occupied properties, but they shall be placed as near as possible to the curb if on a street or within one foot of the alley line if the main is located in the alley. They shall be installed at an approximate depth of seven (7) feet below the established grade and shall be left in an accurate vertical position when back-filling is completed.

(D) **Water Availability Charge.** When any premise, including any Lot of Record, and that has not been previously provided City water service, are connected to the City water system, such premise shall pay a City water connection service charge that shall be established by resolution of the City Council from time to time.

103G.291 PUBLIC WATER SUPPLY PLANS; APPROPRIATION DURING DEFICIENCY.

Subdivision 1. **Declaration and conservation.** (a) If the governor determines and declares by executive order that there is a critical water deficiency, public water supply authorities appropriating water must adopt and enforce water conservation restrictions within their jurisdiction that are consistent with rules adopted by the commissioner.

(b) The restrictions must limit lawn sprinkling, vehicle washing, golf course and park irrigation, and other nonessential uses, and have appropriate penalties for failure to comply with the restrictions.

Subd. 2. **Modification of appropriation for noncompliance.** Disregard of critical water deficiency orders, even though total appropriation remains less than that permitted, is adequate grounds for immediate modification of a public water supply authority's water-use permit.

Subd. 3. **Water supply plans; demand reduction.** (a) Every public water supplier serving more than 1,000 people must submit a water supply plan to the commissioner for approval by January 1, 1996. In accordance with guidelines developed by the commissioner, the plan must address projected demands, adequacy of the water supply system and planned improvements, existing and future water sources, natural resource impacts or limitations, emergency preparedness, water conservation, supply and demand reduction measures, and allocation priorities that are consistent with section 103G.261. Public water suppliers must update their plan and, upon notification, submit it to the commissioner for approval every ten years.

(b) The water supply plan in paragraph (a) is required for all communities in the metropolitan area, as defined in section 473.121, with a municipal water supply system and is a required element of the local comprehensive plan required under section 473.859.

(c) Public water suppliers serving more than 1,000 people must encourage water conservation by employing water use demand reduction measures, as defined in subdivision 4, paragraph (a), before requesting approval from the commissioner of health under section 144.383, paragraph (a), to construct a public water supply well or requesting an increase in the authorized volume of appropriation. The commissioner of natural resources and the water supplier shall use a collaborative process to achieve demand reduction measures as a part of a water supply plan review process.

(d) Public water suppliers serving more than 1,000 people must submit records that indicate the number of connections and amount of use by customer category and volume of water unaccounted for with the annual report of water use required under section 103G.281, subdivision 3.

(e) For the purposes of this section, "public water supplier" means an entity that owns, manages, or operates a public water supply, as defined in section 144.382, subdivision 4.

Subd. 4. **Demand reduction measures.** (a) For the purposes of this section, "demand reduction measures" means measures that reduce water demand, water losses, peak water demands, and nonessential water uses. Demand reduction measures must include a conservation rate structure, or a uniform rate structure with a conservation program that achieves demand reduction. A "conservation rate structure" means a rate structure that encourages conservation and may include increasing block rates, seasonal rates, time of use rates, individualized goal rates, or excess use rates. If a conservation rate is applied to multifamily dwellings, the rate structure must consider each residential unit as an individual user.

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(b) To encourage conservation, a public water supplier serving more than 1,000 people must implement demand reduction measures by January 1, 2015.

History: *1990 c 391 art 7 s 31; 1993 c 186 s 6; 2007 c 131 art 1 s 57; 2008 c 363 art 5 s 20,21; 2012 c 150 art 1 s 2,3; 1Sp2015 c 4 art 4 s 97*

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APPENDIX 11: IMPLEMENTATION CHECKLIST

Appendix 11. Implementation Checklist

Water Supply Plan Section	Page	Water Supply Plan Action	Implementation Status/Date
Part 1E Appendix 2	10	Implement well monitoring plan to record water level in wells monthly.	Nov. 2017
Part 3B, Obj. 1	28	Conduct regular water audits to monitor water pumpage and sales to identify potential water loss. Identify and repair leaks immediately.	Ongoing
Part 3B, Obj. 2	29	Make water system infrastructure improvements. Continue preventative maintenance. Identify and repair leaks immediately.	Ongoing
Part 3B, Obj. 2	30	City will expand available conservation educational materials	2018
Part 3B, Obj. 3	30	Mayor will contact Lafayette Club to recommend they conduct an audit of for both indoor and outdoor use, including system components.	2017
Part 3B, Obj. 3	30	City has enhanced meters capable of automated readings to detect spikes in consumption	Ongoing
Part 3B, Obj. 3	30	Repair leaking system components: Continue preventative maintenance and proactively replace aging infrastructure.	Ongoing
Part 3B, Obj. 4	31	Existing per capita water demand trends are trending downward. Continue to monitor per capita demand.	Ongoing
Part 3B, Obj. 5	31	Monitor the maximum day demand to average day demand ratio.	Ongoing
Part 3B, Obj. 7	34	City Water Code allows City Council to impose water restrictions and no new private wells allowed on properties connected to City water.	Ongoing
Part 3B, Obj. 7	34	City has a Storm Water Management Program and Surface Water Plan.	Ongoing
Part 3B, Obj. 8	34	City will track per capita water demands on a regular basis to confirm the conservation trend	2018
Part 3C	35	Water efficient plumbing fixtures and irrigation rainfall sensors required by existing Federal Law and State Statue, respectively.	Ongoing
Part 3C	35	Critical/Emergency Water Deficiency ordinance in place (Code 302.9).	Ongoing
Part 3D	36	City supports and publicizes rebate programs from partner organizations.	Ongoing
Part 3E	37	City will add conservation information as billing inserts.	2018
Part 3E	37	Consumer confidence report includes water quality information and in the future water conservation topics for customer education.	2018
Part 3E	37	Water conservation educational information distributed through community newsletters.	Ongoing
Part 3E	37	Water conservation brochures and information is available at City Hall, additional conservation information will be added.	Ongoing
Part 3E	38	City will add a conservation page to the City website.	2018

APPENDIX 12: NATURAL RESOURCES DOCUMENTATION

2015 SYSTEM STATEMENT

City of Minnetonka Beach

System Statement Issue Date: September 17, 2015

METROPOLITAN COUNCIL

2015 SYSTEM STATEMENT FOR CITY OF MINNETONKA BEACH

System Statement Issue Date: September 17, 2015

Regional Development Plan Adoption

In May 2014, the Metropolitan Council adopted *Thrive MSP 2040*. Following adoption of *Thrive*, the Council adopted the *2040 Transportation Policy Plan,* the *2040 Regional Parks Policy Plan*, the *2040 Water Resources Policy Plan*, and the *2040 Housing Policy Plan*. The Metropolitan Council is now issuing system statements pursuant to State statute.

Receipt of this system statement and the metropolitan system plans triggers a community's obligation to review and, as necessary, amend its comprehensive plan within the next three years, by the end of 2018. The complete text of *Thrive MSP 2040* as well as complete copies of the recently adopted metropolitan system and policy plans are available for viewing and downloading at *http://www.metrocouncil.org/Communities/Planning.aspx*. Paper copies are available by calling the Council's Data Center at 651-602-1140.

System Statement Definition

Metropolitan system plans are long-range comprehensive plans for the regional systems – transit, highways, and airports; wastewater services; and parks and open space – along with the capital budgets for metropolitan wastewater services, transportation, and regional recreation open space. System statements explain the implications of metropolitan system plans for each individual community in the metropolitan area. They are intended to help communities prepare or update their comprehensive plan, as required by the Metropolitan Land Planning Act:

> *Within nine months after receiving a system statement for an amendment to a metropolitan system plan, and within three years after receiving a system statement issued in conjunction with the decennial review required under section 473.864, subdivision 2, each affected local governmental unit shall review its comprehensive plan to determine if an amendment is necessary to ensure continued conformity with metropolitan system plans. If an amendment is necessary, the governmental unit shall prepare the amendment and submit it to the council for review.*

Local comprehensive plans, and amendments thereto, will be reviewed by the Council for conformance to metropolitan system plans, consistency with Council policies, and compatibility with adjacent and affected governmental units. Updated local comprehensive plans are due to the Council for review by December 31, 2018.

What is in this System Statement

The system statement includes information specific to your community, including:

- your community designation or designation(s);
- forecasted population, households, and employment through the year 2040;
- guidance on appropriate densities to ensure that regional services and costly regional infrastructure can be provided as efficiently as possible.
- affordable housing need allocation;

In the following sections, this system statement contains an overview of each of the system plan updates and specific system changes that affect your community. The sections are:

- Transportation, including metropolitan highways, aviation, and transit
- Water Resources, including wastewater, surface water, and water supply planning
- Regional parks and trails

Dispute Process

If your community disagrees with elements of this system statement, or has any questions about this system statement, please contact your Sector Representative, Freya Thamman, at 651-602-1750, to review and discuss potential issues or concerns.

The Council and local government units and districts have usually resolved issues relating to the system statement through discussion.

Request for Hearing

If a local governmental unit and the Council are unable to resolve disagreements over the content of a system statement, the unit or district may, by resolution, request that a hearing be conducted by the Council's Land Use Advisory Committee or by the State Office of Administrative Hearings for the purpose of considering amendments to the system statement. According to Minnesota Statutes section 473.857, the request shall be made by the local governmental unit or school district within 60 days after receipt of the system statement. If no request for a hearing is received by the Council within 60 days, the statement becomes final.

Regional Development Guide

The Council adopted *Thrive MSP 2040* as the new regional development guide on May 28, 2014. *Thrive* identifies five outcomes that set the policy direction for the region's system and policy plans. Building on our region's history of effective **stewardship** of our resources, *Thrive* envisions a **prosperous**, **equitable**, and **livable** region that is **sustainable** for today and generations to come. The Council is directing its operations, plans, policies, programs, and resources toward achieving this shared long-term vision.

Three principles define the Council's approach to implementing regional policy: **integration**, **collaboration**, and **accountability**. These principles reflect the Council's roles in integrating policy areas, supporting local governments and regional partners, and promoting and implementing the regional vision. The principles define the Council's approach to policy implementation and set expectations for how the Council interacts with local governments.

Thrive also outlines seven land use policies and community designations important for local comprehensive planning updates. The land use policies establish a series of commitments from the Council for local governments and uses community designations to shape development policies for communities. Community designations group jurisdictions with similar characteristics based on Urban or Rural character for the application of regional policies. Together, the land use policies and community designations help to implement the region's vision by setting expectations for development density and the character of development throughout the region.

Community Designation

Community designations group jurisdictions with similar characteristics for the application of regional policies. The Council uses community designations to guide regional growth and development; establish land use expectations including overall development densities and patterns; and outline the respective roles of the Council and individual communities, along with strategies for planning for forecasted growth. If there are discrepancies between the *Thrive MSP 2040* Community Designations Map and the Community Designation map contained herein because of adjustments and refinements that occurred subsequent to the adoption of *Thrive*, communities should follow the specific guidance contained in this System Statement.

Thrive identifies Minnetonka Beach with the community designation of Suburban. Suburban communities experienced continued growth and expansion during the 1980s and early 1990s, and typically have automobile-oriented development patterns at significantly lower densities than in previous eras. Suburban communities are expected to plan for forecasted population and household growth at average densities of at least 5 units per acre for new development and redevelopment. In addition, Suburban communities are expected to target opportunities for more intensive development near regional transit investments at densities and in a manner articulated in the *2040 Transportation Policy Plan*.

Specific strategies for Suburban communities can be found on Minnetonka Beach's *Community Page* in the *Local Planning Handbook.*

Forecasts

The Council uses the forecasts developed as part of *Thrive* to plan for regional systems. Communities should base their planning work on these forecasts. Given the nature of long-range forecasts and the planning timeline undertaken by most communities, the Council will maintain on-going dialogue with

communities to consider any changes in growth trends or community expectations about growth that may have an impact on regional systems.

The *Thrive* forecasts for population, households, and employment for your community are:

	2010 (actual)	2014 (est.)	2020	2030	2040
Population	539	539	540	530	530
Households	201	200	210	220	220
Employment	174	NA	180	180	180

Housing Policy

The Council adopted the *Housing Policy Plan* on December 10, 2014, and amended the plan on July 8, 2015. The purpose of the plan is to provide leadership and guidance on regional housing needs and challenges and to support *Thrive MSP 2040*. The *Housing Policy Plan* provides an integrated policy framework to address housing challenges greater than any one city or county can tackle alone.

Consistent with state statute (Minn. Stat. 473.859, subd. 2(c) and subd. 4), communities must include a housing element and implementation program in their local comprehensive plans that address existing and projected housing needs.

The Council has also determined the regional need for low and moderate income housing for the decade of 2021-2030 (see Part III and Appendix B in the Housing Policy Plan).

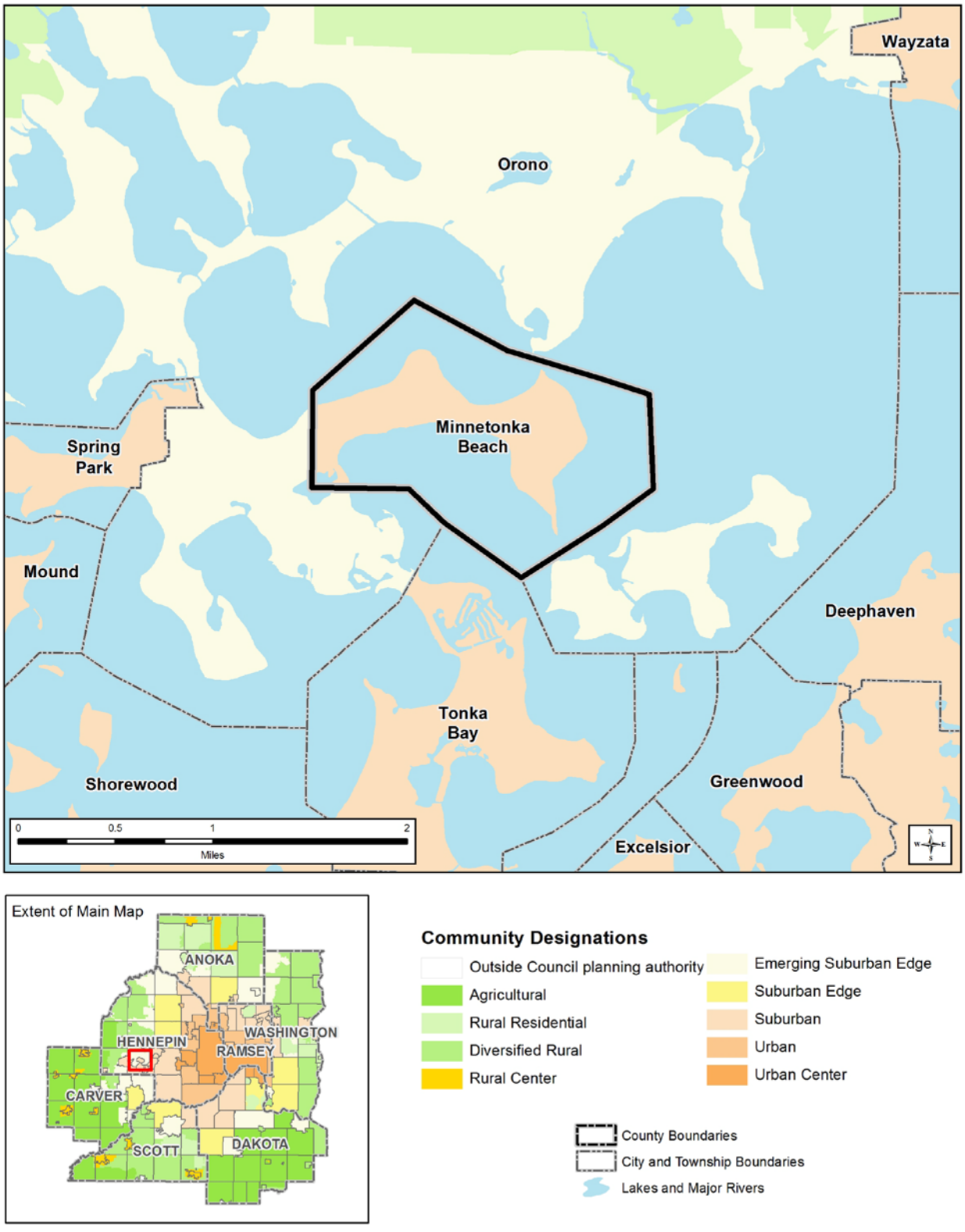
Minnetonka Beach's share of the region's need for low and moderate income housing is 4 new units affordable to households earning 80% of area median income (AMI) or below. Of these new units, the need is for 0 affordable to households earning at or below 30% of AMI, 2 affordable to households earning 31% to 50% of AMI, and 2 affordable to households earning 51% to 80% of AMI.

Affordable Housing Need Allocation for Minnetonka Beach

At or below 30% AMI	0
31 to 50% AMI	2
51 to 80% AMI	2
Total Units	**4**

Specific requirements for the housing element and housing implementation programs of local comprehensive plans can be found in the *Local Planning Handbook*.

Figure 1. Minnetonka Beach Community Designation



WATER RESOURCE REQUIREMENTS/ WASTEWATER SYSTEM STATEMENT

City of Minnetonka Beach

The *2040 Water Resources Policy Plan* includes policies and strategies to achieve the following goal:

> *To protect, conserve, and utilize the region's groundwater and surface water in ways that protect public health, support economical growth and development, maintain habitat and ecosystem health, and provide for recreational opportunities, which are essential to our region's quality of life.*

The Policy Plan takes an integrated approach to water supply, water quality, and wastewater issues. This approach moves beyond managing wastewater and stormwater only to meet regulatory requirements by viewing wastewater and stormwater as resources, with the goal of protecting the quantity and quality of water our region needs now and for future generations.

The Policy Plan includes policies and strategies to:

- Maximize regional benefits from regional investments in the areas of wastewater, water supply and surface water.
- Pursue reuse of wastewater and stormwater to offset demands on groundwater supplies.
- Promote greater collaboration, financial support, and technical support in working with partners to address wastewater, water quality, water quantity and water supply issues.
- Implement environmental stewardship in operating the regional wastewater system by reusing wastewater, reducing energy use and air pollutant emissions, and reducing, reusing, and recycling solid waste.

Key Concepts in the *2040 Water Resources Policy Plan*

Adopted by the Metropolitan Council in May 2015, the *2040 Water Resources Policy Plan* is the metropolitan system plan for metropolitan wastewater services with which local comprehensive plans must conform. The Policy Plan incorporates the following changes*:*

- Centers on and around an integrated approach to water supply, wastewater, and surface water planning.
- Promotes the investigation of the issues and challenges in furthering our work in water conservation, wastewater and stormwater reuse, and low impact development practices in order to promote a more sustainable region.
- Promotes the concept of sustainable water resources where, through collaboration and cooperation, the region will take steps to manage its water resources in a sustainable way aimed at:
  - Providing an adequate water supply for the region
  - Promoting and implementing best management practices that protect the quality and quantity of our resources
  - Providing efficient and cost effective wastewater services to the region
  - Efficiently addressing nonpoint and point sources pollution issues and solutions, and,
  - Assessing and monitoring lakes, rivers, and streams so that we can adequately manage, protect, and restore our valued resources.
- Continues the Council's position that communities that permit the construction and operation of subsurface sewage treatment systems and other private wastewater treatment systems are

responsible for ensuring that these systems are installed, maintained, managed and regulated consistent with Minnesota Rules Chapter 7080-7083.
- Includes requirements in Appendix C for comprehensive sewer plans, local water plans, and local water supply plans.
- Establishes inflow and infiltration goals for all communities served by the regional wastewater system and requires all communities to include their inflow and infiltration mitigation programs in their comprehensive sewer plan.
- Works with the State to attempt to (1) make funds available for inflow and infiltration mitigation, and (2) promote statutes, rules, and regulations to encourage I/I mitigation.

Minnetonka Beach should consult the complete Policy Plan in preparing its local comprehensive plan. In addition, Minnetonka Beach should consult *Thrive MSP 2040* and the *Local Planning Handbook* for specific information needed in its comprehensive plan.

System Plan Considerations Affecting Your Community

Metropolitan Sewer Service

Under state law (Minn. Stat. 473.513) local governments are required to submit both a wastewater plan element to their comprehensive plan as well as a comprehensive sewer plan describing service needs from the Council. Specific requirements for the sewer element of your comprehensive plan can be found in the Water Resources section of the *Local Planning Handbook*.

Forecasts

The forecasts of population, households, employment, and wastewater flows for Minnetonka Beach as contained in the adopted *2040 Water Resources Policy Plan* can be found at: *http://www.metrocouncil.org/Wastewater-Water/Planning/2040-Water-Resources-Policy-Plan.aspx* and on your Community Page in the *Local Planning Handbook*. These forecasts are for sewered development. The sewered housing forecasts were estimated using SAC data, annual city reports, current trends, existing and future local wastewater service areas and other information relating to your community. The wastewater flows are based on historical wastewater flow data, future projected wastewater generation rates, and the projected sewered population and employment data.

The Council will use these growth and wastewater flow forecasts to plan future interceptor and treatment works improvements needed to serve your community. The Council will not design future interceptor improvements or treatment facilities to handle peak hourly flows in excess of the allowable rate for your community. Minnetonka Beach, through its comprehensive planning process, must decide the location and staging of development, and then plan and design its local wastewater collection system to serve this development. The Council will use its judgment as to where to assign growth within your community to determine regional system capacity adequacy. If Minnetonka Beach wishes to identify specific areas within the community to concentrate its growth, it should do so within its Comprehensive Sewer Plan.

You should also note that urban development at overall densities that are substantially lower than those identified for your community in the Community Designation Section of this Systems Statement will also be analyzed by the Council for their potential adverse effects on the cost of providing metropolitan sewer service.

Description of the Metropolitan Disposal System Serving Your Community

Figure 1 shows the location of the Metropolitan Disposal System (MDS) serving your community. Wastewater flow from Minnetonka Beach is treated at the Blue Lake WWTP.

Description of the Regional Inflow/Infiltration (I/I) Program

The *2040 Water Resources Policy Plan* states that the Council will establish I/I goals for all communities discharging wastewater to the MDS. Communities that have excessive I/I in their sanitary sewer systems will be required to eliminate excessive I/I. The Council will continue the implementation of its on-going I/I reduction program. Communities identified through the program as needing to eliminate excessive I/I will be required to submit a work plan that details work activities to identify and eliminate sources of I/I. The Council can limit increases in service within those communities having excess I/I that do not demonstrate progress in reducing their excess I/I. The Council will meet with the community and discuss this alternative before it is implemented.

It is required that those communities that have been identified as contributors of excessive I/I, and that have not already addressed private property sources, do so as part of their I/I program. Significant work has been accomplished on the public infrastructure portion of the wastewater system. The Council will pursue making funds available through the State for I/I mitigation, and promote statutes, rules and regulations to encourage I/I mitigation.

Management of Subsurface Sewage Treatment Systems (SSTS) and Private Systems

The Metropolitan Land Planning Act requires the sewer element of the local comprehensive plan to describe the standards and conditions under which the installation of subsurface sewage treatment systems and other private wastewater treatment systems will be permitted and to the extent practicable, the areas not suitable for public or private systems.

The appropriate density for development with subsurface sewage treatment systems depends on the suitability of the soils to treat wastewater and whether space is available for a primary and back up drainfield. It is the Council's position that all municipalities and counties allowing subsurface sewage treatment systems should incorporate current MPCA regulations (Minn. Rules Chapter 7080-7083) as part of a program for managing subsurface sewage treatment systems in the sewer element of their local comprehensive plan and implement the standards in issuing permits.

Minnetonka Beach should adopt a management program consistent with state rules. An overview of Minnetonka Beach's management program must be included in the community's local comprehensive plan update. If adequate information on the management program is not included; the comprehensive plan will be found incomplete for review until the required information is provided to the Council. Specific requirements for the local comprehensive plan can be found in the *Local Planning Handbook.*

Small private treatment plants are located throughout the Metropolitan Area serving such developments as individual industries, mobile home parks, and other urban type uses. The Council's position is that such private wastewater treatment plants should be permitted only if they are in areas not programmed for metropolitan sewer service in the future and they are provided for in a community's comprehensive plan that the Council has approved. Furthermore, the community is responsible for permitting all community or cluster wastewater treatment systems consistent with Minnesota Rules Chapter 7080-7083 and MPCA standards. The Council will not provide financial support to assist communities if these systems fail.

Minnetonka Beach should include in the sewer element of its local comprehensive plan the conditions under which private treatment plants or municipal treatments would be allowed, and include appropriate management techniques sufficiently detailed to ensure that the facilities conform to permit conditions. Minnetonka Beach is responsible for ensuring that permit conditions for private treatment plants are met and financial resources to manage these facilities are available.

Surface Water Management

In 1995, Minnesota Statutes Section 473.859, subd. 2 was amended to make the local water plan (often referred to as local surface water management plans) required by section 103B. 235 a part of the land use plan of the local comprehensive plan. Minnesota Rules Chapter 8410, updated in July of 2015, includes the requirements for local water management plans. The main change that you need to be aware of is that all communities in the metropolitan area must update their local water plan between January 1, 2017 and December 31, 2018. This means that Minnetonka Beach must update its local water plan as part of the comprehensive plan update. The community's updated local water plan should be submitted to the Council for its review concurrent with the review by the Watershed Management Organization(s) within whose watershed(s) the community is located. **Failure to have an updated local water plan will result in the comprehensive plan being found incomplete for review until the required plan is provided to the Council.**

Local water plans must meet the requirements for local water plans in Minnesota Statutes, section 103B.235 and Minnesota Rules Chapter 8410. In general, local surface water plans need to include a summary of the priorities and problems in the community; structural, nonstructural and programmatic actions to take to address the priorities and problems; and clearly identified funding mechanisms to fix the problems.

More detailed guidance for the local water plans can be found in Appendix C of the Council's *2040 Water Resources Policy Plan* and in the Council's current *Local Planning Handbook.*

In addition, the Council has also updated its priority lake list that was first developed in the 1980s as part of the *Water Resources Policy Plan* update. Figure 2 shows the priority lakes for Minnetonka Beach. The Council uses the priority lake list to focus its limited resources. The list is also used in the environmental review process. Where a proposed development may impact a priority lake, the project proposer must complete a nutrient budget analysis for the lake as part of the environmental review process.

Also included on Figure 2 is the watershed organization(s) that Minnetonka Beach is part of and a list of impaired waters in the community for use in development of your local water plans.

Other Plan Considerations

Water Supply

Local comprehensive plans also address water supply (Minn. Stat., Sec. 473.859). For communities in the metropolitan area with municipal water supply systems, this local comprehensive plan requirement is met by completing the local water supply plan template, which was jointly developed by the Metropolitan Council and the Minnesota Department of Natural Resource (DNR).

FOR COMMUNITIES WHO OWN/OPERATE A PUBLIC WATER SUPPLY SYSTEM:

Because your community owns/operates a municipal community public water supply system (PWS), the local water supply plan must be updated as part of the local comprehensive plan (Minn. Stat., Sec. 103G.291).

The updated local water supply plan should include information about your community along with information about any neighboring communities served by your system.

You should update your local water supply plan upon notification by DNR. Local water supply plan due dates will be staggered between January 1, 2017 and December 31, 2018. Your updated local water

supply plan should be submitted to the DNR. DNR will share the plan with the Council, and it will be reviewed concurrently by both agencies. This schedule allows the local water supply plans to be completed and included in the local comprehensive plan.

Failure to have an updated local water plan will result in the comprehensive plan being found incomplete for review until the required plan is provided to the Council.

The water supply plan template fulfills multiple statutory obligations including:

- Minn. Stat., Sec. 103G.291 to complete a water supply plan including demand reduction
- Minn. Stat., Sec. 473.859 to address water supply in local comprehensive plans
- Minn. Administrative Rules 4720.5280 to address contingency planning for water supply interruption

The plan must be officially adopted by your community, and if applicable the utility board, as part of the local comprehensive plan.

At a minimum, the updated local water supply plan must use the joint DNR and Metropolitan Council template and include water demand projections that are consistent with the community's population forecast provided in the introductory section of this system statement. Potential water supply issues should be acknowledged, monitoring and conservation programs should be developed, and approaches to resolve any issues should be identified.

Guidance and information for water supply planning can be found in the Appendix C of the *2040 Water Resources Policy Plan*, the *Local Planning Handbook,* and the Council's *Master Water Supply Plan.*

The Council's *Master Water Supply Plan* provides communities in the region with planning assistance for water supply in a way that:

- Recognizes local control and responsibility for owning, maintaining and operating water systems
- Is developed in cooperation and consultation with municipal water suppliers, regional stakeholders and state agencies
- Protects critical habitat and water resources over the long term
- Meets regional needs for a reliable, secure water supply
- Highlights the benefits of integrated planning for stormwater, wastewater and water supply
- Emphasizes and supports conservation and inter-jurisdictional cooperation
- Provides clear guidance by identifying key challenges/issues/considerations in the region and available approaches without dictating solutions

Figures 3-5 illustrate some water supply considerations that the community may consider as they develop their local water supply plans, such as: aquifer water levels, groundwater and surface water interactions, areas where aquifer tests or monitoring may be needed to reduce uncertainty, regulatory and management areas, and emergency interconnections.

Figure 1. MCES Sanitary Sewer Meter Service Areas

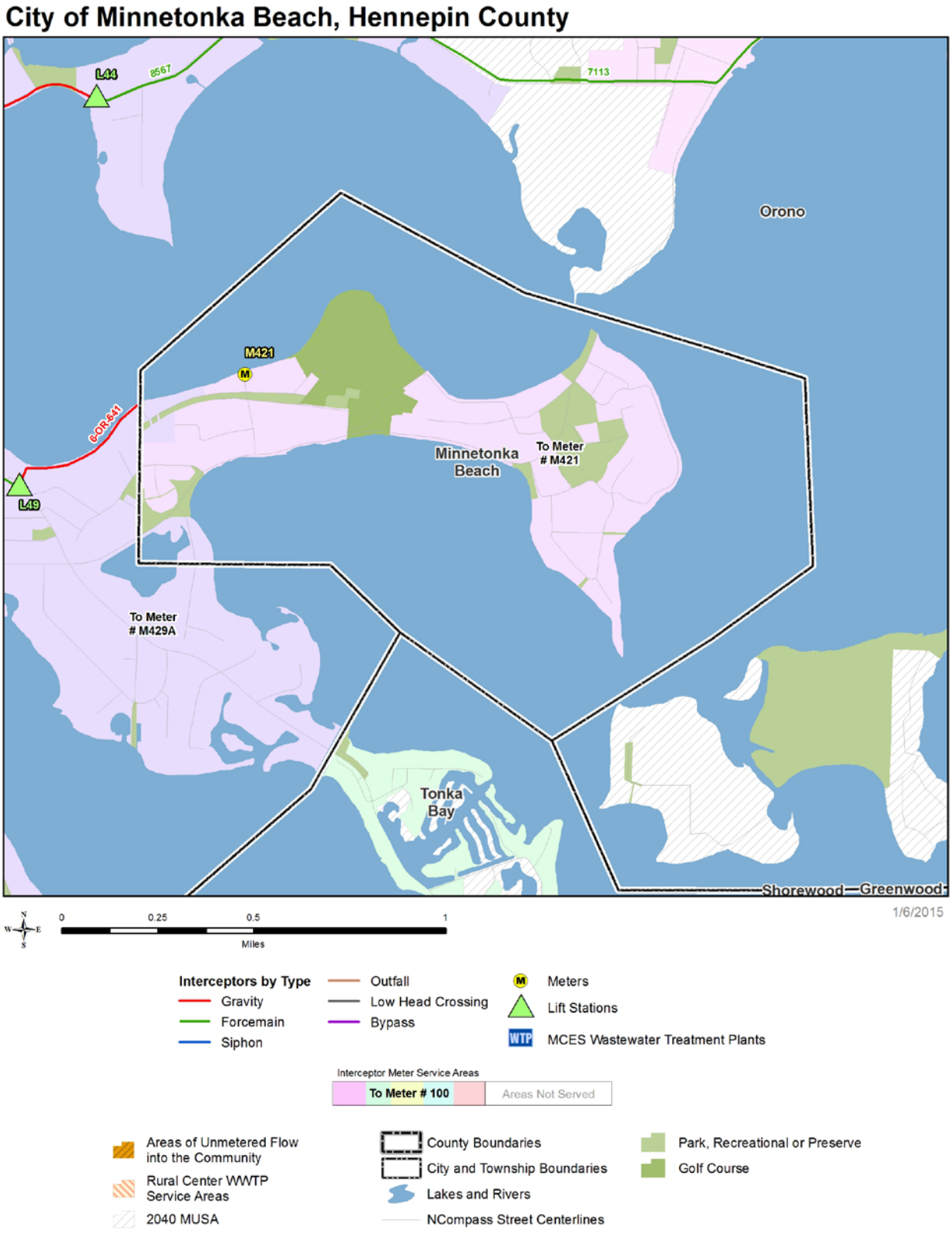


Figure 2. Surface Water Resources

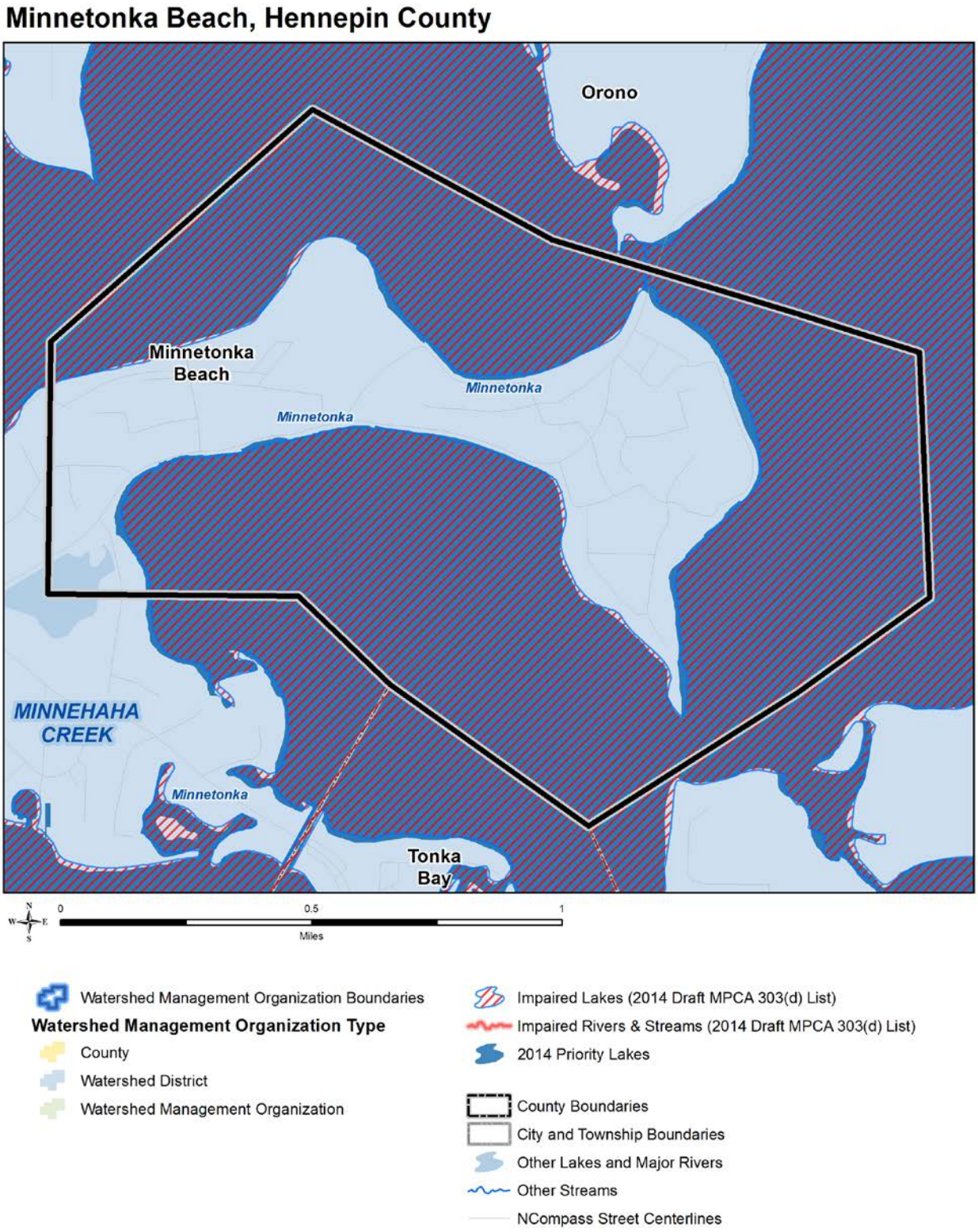


Figure 3. Surface water features and interaction with the regional groundwater system, and state-protected surface water features

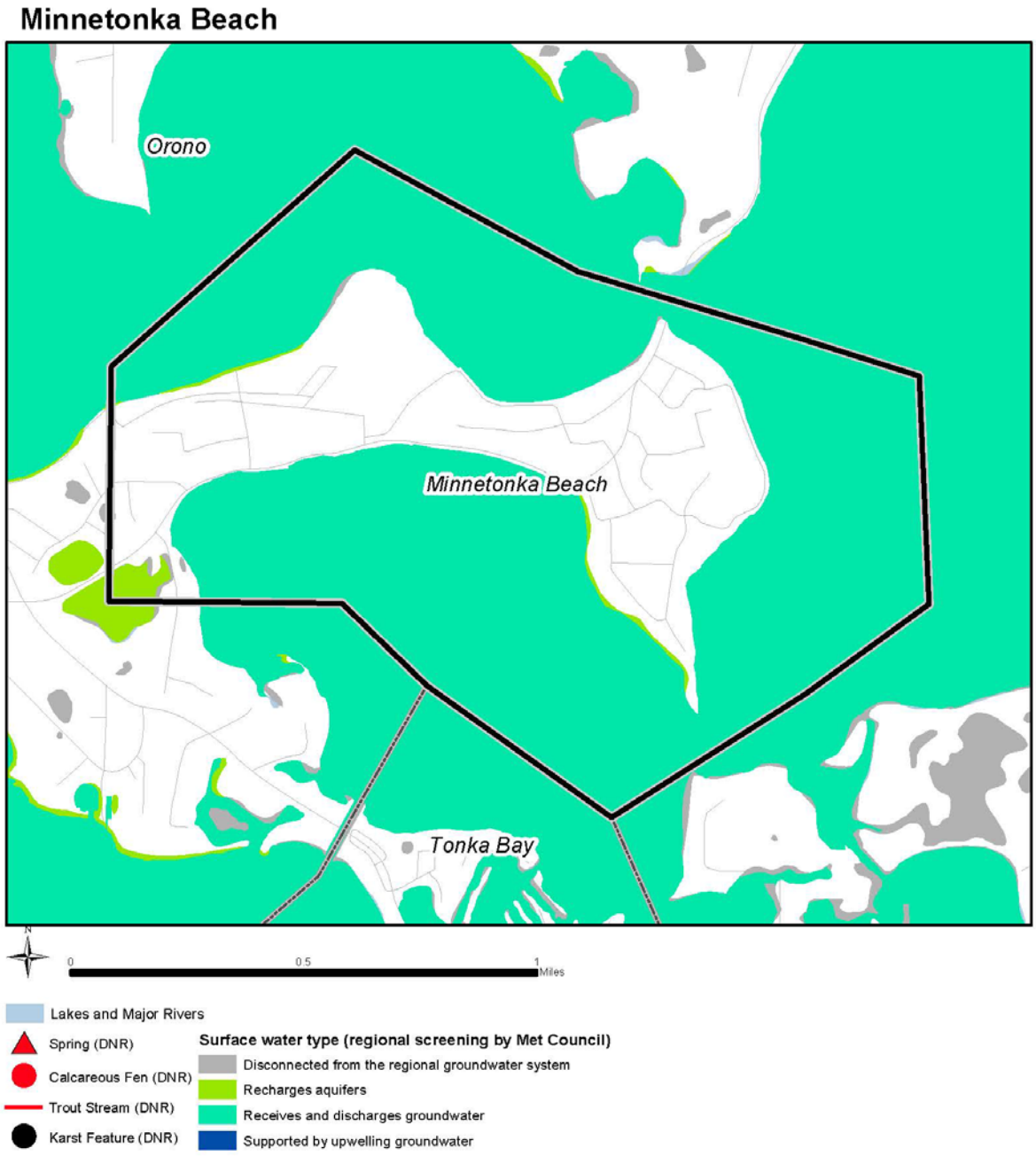


Figure 4. Availability of MN Department of Natural Resources groundwater level and MN Department of Health aquifer test data

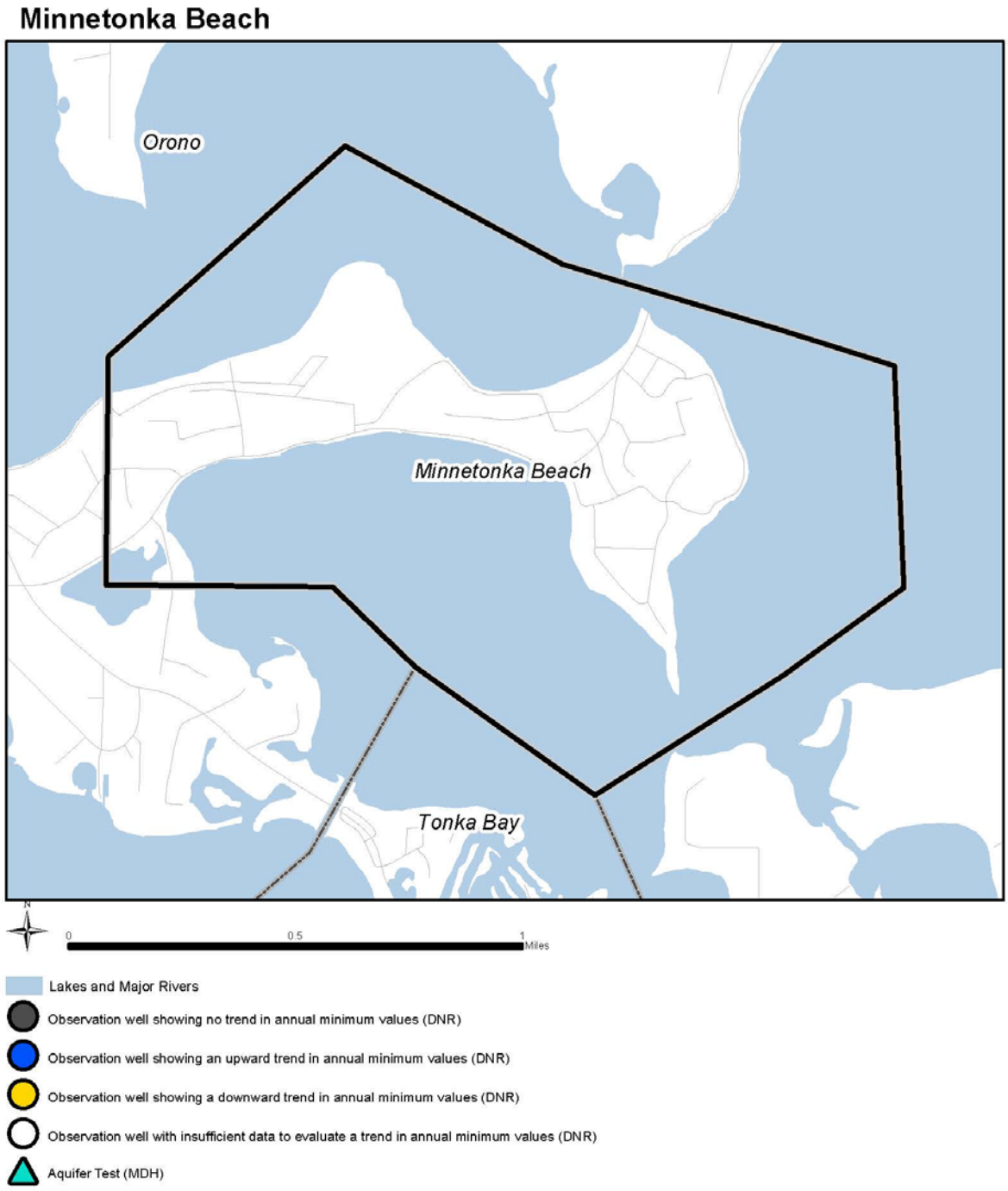
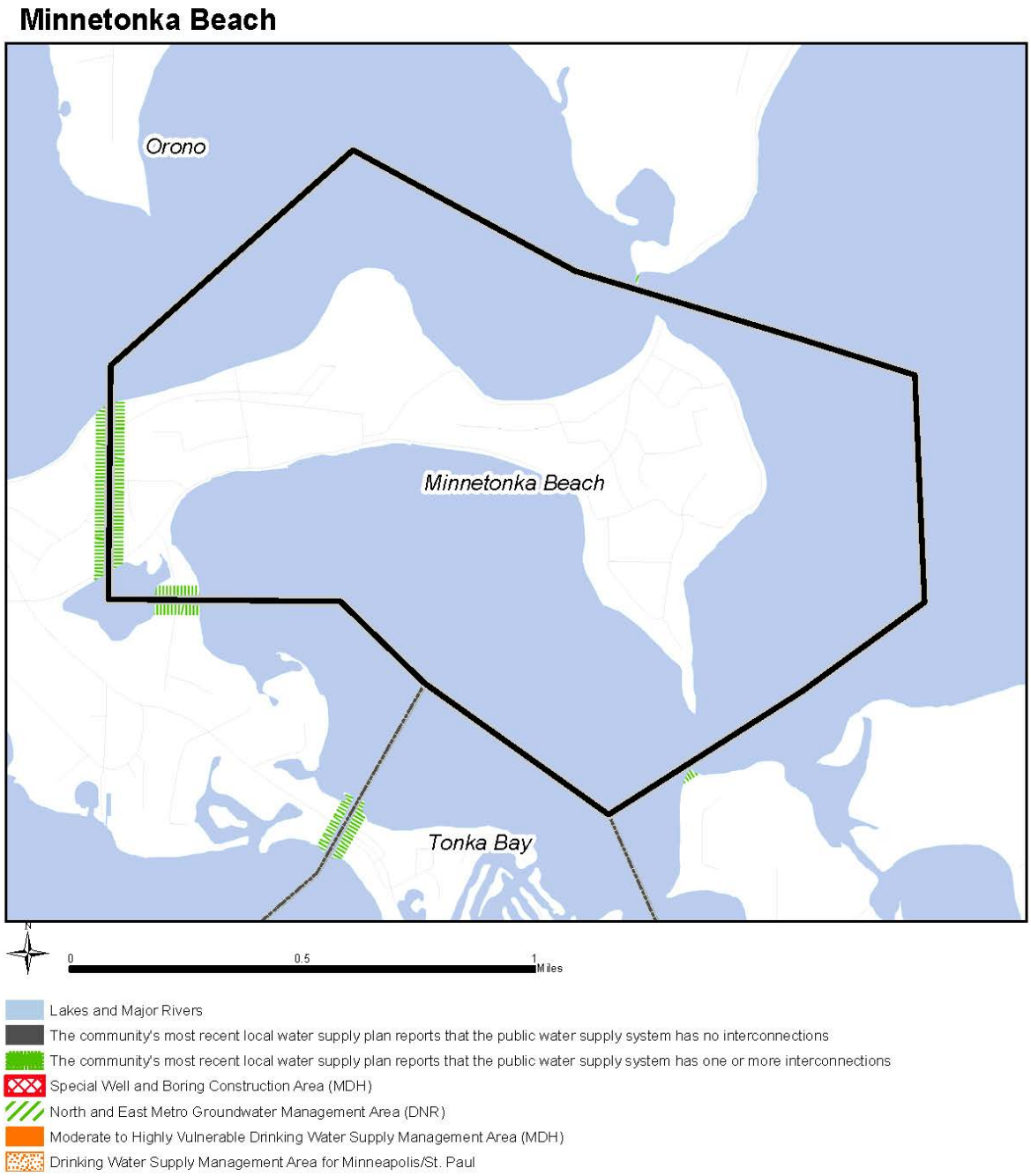



Figure 5. Municipal public water supply system interconnections and regulatory management areas