

13. PUBLIC FACILITIES, SERVICES, AND INFRASTRUCTURE

Goal: Provide efficient and high-quality public facilities, services, and infrastructure.

To achieve this *public facilities, services, and infrastructure goal*, the following policies are proposed:

- Provide reliable and high-quality water facilities, sanitary sewer, and stormwater systems.
- Prepare long-term plans to identify, prioritize, and determine the costs to maintain and/or replace City water and sewer facilities.
- Maintain and keep the emergency preparedness plan updated.
- Work to provide efficient, low-cost services through ongoing evaluation and intergovernmental coordination.
- Utilize the Capital Improvement Plan (CIP) and annual budgeting process for prioritizing major public expenditures.
- Work to reduce inflow and infiltration into the City's sanitary sewer system.
- Coordinate with the public and private school system on programs and activities where feasible.
- Continuously evaluate all contracted services to assure that efficient and high-quality services are being provided.

The Arden Hills City government provides a variety of public facilities and services. While some services are used or seen on a daily basis, such as streets, sanitary sewer, and water, other services are less noticed, but are absolutely necessary for the efficient functioning of the City. Utility services are vital to the health, safety and welfare of the citizens of Arden Hills. The physical infrastructure of the Arden Hills is aging; the City recognizes the need to track and evaluate the condition of the existing infrastructure. The Capital Improvement Plan and annual budgeting process are two tools used to plan for improvements to the infrastructure.

13.1 WATER RESOURCE MANAGEMENT

In the developed portion of Arden Hills, the City is not anticipating any significant land use changes that would result in increased demand on the City's water supply, stormwater management, or sanitary sewer system. Redevelopment of the TCAAP property is expected to be completed in ten to twenty years. Infrastructure for water, sanitary sewer, stormwater, and other utilities are anticipated to be implemented during the construction of the main boulevard through TCAAP construction in calendar year 2019.

13.1.1 Water Supply (Appendix D)

The Water Supply Plan provides the City of Arden Hills and its residents with assurance that an adequate supply of safe water is available for use, guidance and procedures for water system emergencies are in place, and measures are being implemented to conserve the City’s water supply. The Water Supply Plan is divided into four parts (Appendix D):

- Part I: Water Supply System Description and Evaluation
- Part II: Emergency Preparedness Procedures
- Part III: Water Conservation Plan
- Part IV: Items for Metropolitan Area Communities

The City of Arden Hills purchases potable water from the City of Roseville, who purchases water from the Saint Paul Regional Water Services. Saint Paul Regional Water Services provides the required treatment processes before the water is introduced into the water distribution system in Arden Hills; no further treatment is required by the City of Arden Hills. Once in the City, the system is under the jurisdiction of the City’s water utility.

The City has three connection points with the City of Roseville:

1. Cleveland Avenue and County Road D,
2. Fairview Avenue and County Road D, and
3. Glenhill Road and Hamline Avenue.

Historically, the water utility has managed to be self-supporting, with future replacement needs financed from revenues generated from the fees paid by users. The City periodically reviews the arrangement with the City of Roseville and the Saint Paul Regional Water Services to ensure that the City is obtaining the most cost-effective services.

The City operates and maintains approximately 55 miles of mainline, two water towers, one booster station (water pumping facility) and three emergency cross connections with adjacent communities (Table 13.1). These interconnections are normally closed, but can be opened to meet emergency needs.

Table 13.1 - Intercommunity Water Connections

City	Size	Location
Shoreview	8"	North of Grey Fox Road on Lexington Avenue
Shoreview	8"	North of Cummings Park Drive on Lexington Avenue
New Brighton	8"	East of Cleveland Avenue on Stowe Avenue

13.1.2 Sanitary Sewer (Appendix E)

The entire City of Arden Hills is within the Metropolitan Urban Service Area (MUSA), therefore sanitary sewer interceptor and treatment is provided to the City via the Metropolitan Council Environmental Services (MCES) system. Within the City, the system is under the jurisdiction of the City's sanitary sewer utility. Historically, the sanitary sewer utility has managed to be self-supporting; with future infrastructure replacement needs financed from revenues generated from the fees paid by users.

The Arden Hills sanitary sewer system consists of approximately 49 miles of sanitary sewer, over 1,150 manholes, and fourteen (14) lift stations.

The Metropolitan Council Environmental Services (MCES) Water Resources Policy Plan includes policies for reducing inflow and infiltration into the region's sewage treatment system. The MCES has projected significant growth in the metropolitan area by 2040. This increase, along with current levels of inflow & infiltration (I/I) in the system, would require significant, costly increases to expand the existing MCES treatment facilities to meet the future wastewater flows. As a result, MCES has implemented an I/I Surcharge Program.

Communities with excessive I/I are required to develop plans and reduce their I/I. If I/I is not reduced in the community with excessive I/I, the MCES will impose a surcharge. The City of Arden Hills was identified as a community with excessive I/I and assessed a surcharge in 2007. That year, the City initiated an I/I identification program and has since completed flow monitoring, smoke testing, televising, manhole rehabilitation, sump pump inspections, sewer lining, and sewer replacement. Since 2007, the City has conducted numerous significant investments to reduce the amount of I/I introduced into the City's sanitary sewer system. The City will continue these efforts to monitor and reduce I/I.

Appendix E contains general sanitary sewer information and also outlines the City's objectives, policies, strategies and implementation plan to reduce I&I.

13.1.3 Stormwater/Surface Water Management

With nearly 550 acres of water across seven lakes, numerous wetlands, and Rice Creek, protecting water quality and managing stormwater is of the utmost importance in Arden Hills. As part of the City's water quality goals, the City recognizes the need to establish a plan that is in conformance with the plans and regulations adopted by the Rice Creek Watershed District and the Metropolitan Council's *2040 Water Resources Policy Plan*.

As part of the TCAAP redevelopment process, an AUAR was completed that included an analysis of stormwater mitigation needs. According to the AUAR, stormwater will be managed on-site, maintaining the current drainage patterns and utilizing the current outfalls to Rice Creek and Round Lake. Stormwater will be conveyed to Round Lake and Rice Creek by means of underground storm sewer, ponds, vegetated swales, and wetlands. Conveyance systems will be designed in accordance with acceptable industry standards and in conformance with jurisdictional requirements. The primary method of stormwater treatment will be the use of multiple ponds for the removal of total phosphorous and total suspended solids. Water reuse, bio-filtration, filtration, and stormwater wetlands are also suitable for treatment within the Study Area. No discharge water will be directed to surface waters without prior treatment for water quality and a determination that no contamination exists.

13.1.3.1 Stormwater Management Plan (Appendix F)

Arden Hills falls entirely within the Rice Creek Watershed District (RCWD), which is the regulating authority for stormwater in Arden Hills. The RCWD is responsible for administering the Wetland Conservation Act and related permitting activities.

Regulatory agencies, including the RCWD and Metropolitan Council, share Arden Hills' view on the importance of protecting water quality and storm water management. The City's 2018 LSWMP discusses local methods to further joint goals and policies regarding surface water management while assessing problems and proposing corrective actions. The primary purpose of the 2018 LSWMP is to:

- Assess existing water quantity and quality issues;
- Assess potential problems and opportunities for natural resource enhancement in light of anticipated development within each watershed; and,
- Formulate practical strategies to correct existing problems to prevent potential problems and to take advantage of opportunities to enhance water related natural resources.

In order to advance the above purpose statement, the 2018 LSWMP reviewed the physical environment, performed water quality and hydraulic analyses, established the objectives and policies, and set implementation steps. In summary, the LSWMP objectives are to (Section 3 of the LSWMP):

- Improve water quality

- Prevent flooding and erosion from surface water flow
- Promote groundwater recharge
- Protect and enhance fish and wildlife habitat and water recreation
- Pollution control and good housekeeping for municipal operations
- Public participation, information, and education
- Establish funding sources for management programs

The Rice Creek Watershed District will be issuing an update to their Water Resource Management Plan (WRMP) in 2020. The City will incorporate any necessary changes during the next 10-year planning cycle.

13.1.3.2 Local Ordinances (Appendix F)

In addition to the LSWMP, the City has adopted regulations to further the City's goals in protecting water quality, reducing nonpoint source pollution, protecting sensitive natural areas, and managing stormwater (Appendix F):

- Erosion and Sediment Control Ordinance
- Shoreland Ordinance
- Floodplain Ordinance

The City's Stormwater Management Ordinance references Rule C: Stormwater Management Plans of RCWD's District Rules.

The Erosion and Sediment Control Ordinance was adopted in 2008 and the Shoreland and Floodplain ordinances were adopted in 2002 and 2001, respectively. The City intends on reviewing the Shoreland, Floodplain and Erosion Control ordinances regularly to ensure that they are effectively advancing City goals and policies.

13.1.3.3 National Pollutant Discharge Elimination System (Appendix F)

On March 17, 2014, the Minnesota Pollution Control Agency (MPCA) approved the City's Municipal Separate Storm Sewer System (MS4) permit. This permit is set to expire in 2018 and will need to be renewed at this time. The MS4 general permit is mandated by federal regulations under the Clean Water Act and administered by the MPCA. In general terms, MS4s are publicly owned or operated stormwater infrastructure, used solely for stormwater, and which are not part of a publicly owned wastewater treatment system. Examples of stormwater infrastructure include curbs, ditches,

culverts, stormwater ponds and storm sewer pipes. The City of Arden Hills is an MS4.

The MS4 general permit focuses on reducing the pollution that enters these public systems and discharges to wetlands, streams and lakes (“waters of the state”). The MS4 permitting program gives owners or operators of municipal separate storm sewer systems approval to discharge stormwater to lakes, rivers and wetlands in Minnesota. All owners or operators of MS4s are required to satisfy the requirements of the MS4 general permit.

The MS4 general permit requires the MS4 operator or owner to create a Stormwater Pollution Prevention Program (SWPPP) with six important components (included in the attached MS4 permit):

- Public education and outreach, which includes teaching citizens about better stormwater management.
- Public participation: Include citizens in solving stormwater pollution problems. This includes a required public annual meeting and an annual report.
- A plan to detect and eliminate illicit discharges to the stormwater system (such as chemical dumping and wastewater connections)
- Construction-site runoff controls. This includes the implementation of an Erosion and Sedimentation Control ordinance.
- Post-construction runoff controls
- Pollution prevention and municipal “good housekeeping” measures, such as covering salt piles and street-sweeping.

13.1.3.4 Total Maximum Daily Load (TMDL)

Table 2.6 in Section 2 of the LSWMP (Appendix F) includes the TMDL listing status for the major water bodies in Arden Hills or that receive drainage from Arden Hills. Lakes Johanna, Josephine, and South Long Lake are listed for mercury in fish tissue. Little Lake Johanna has a TMDL approved for chloride and nutrients. The Upper Mississippi River has an approved TMDL for fecal coliform. The Minnesota Pollution Control Agency (MPCA) is underway with the remainder of the TMDLs for the waterbodies in Arden Hills. The City will cooperate with the MPCA and other related agencies as TMDL studies that impact Arden Hills are approved and implemented.

Table 13.2 - TMDL Status

Waterbody/Watercourse	Year Added to List	Affected Use	Pollutant/Stressor	TMDL Status
Rice Creek	2006	Aquatic Life	Aquatic macroinvertebrate bioassessments	Approved
Rice Creek	2004	Aquatic Life	Fishes bioassessments	Approved
Valentine Lake	2014	Aquatic Life	Chloride	Approved
Valentine Lake	2002	Aquatic Recreation	Nutrient/eutrophication biological indicators	Approved
Lake Johanna	2002	Aquatic Consumption	Mercury in fish tissue	Approved
Lake Johanna	2010	Aquatic Consumption	PFOS in fish tissue	Underway
Little Johanna Lake	2014	Aquatic Life	Chloride	Approved
Little Johanna Lake	2004	Aquatic Recreation	Nutrient/eutrophication biological indicators	Approved
Little Johanna Lake	2012	Aquatic Consumption	PFOS in fish tissue	Underway
Lake Josephine	1998	Aquatic Consumption	Mercury in fish tissue	Approved
Upper Mississippi River	1996	Aquatic Recreation	Fecal Coliform	Approved
Upper Mississippi River	1998	Aquatic Consumption	Mercury in fish tissue	Underway
Upper Mississippi River	1998	Aquatic Consumption	Mercury in water column	Underway
Upper Mississippi River	1998	Aquatic Consumption	PCB in fish tissue	Underway
Upper Mississippi River	2014	Aquatic Life	Total suspended solids	Underway
South Long Lake	2014	Aquatic Life	Chloride	Underway
South Long Lake	1998	Aquatic Consumption	Mercury in fish tissue	Underway
South Long Lake	2002	Aquatic Recreation	Nutrient/eutrophication biological indicators	Underway

13.1.3.5 Additional Water Quality Plans and Tools

The City is committed to adopting plans, policies, and tools that effectively advance the City’s, RCWD’s, and regional water quality goals. As part of LSWMP updates, development reviews, regulatory updates, and other related policies, the City will work to address the following issues:

- Formally adopt criteria to protect and improve stormwater runoff and quality, such as the Nationwide Urban Runoff Program (NURP);

- Require stormwater plans for new development and redevelopment that requires increased stormwater infiltration and a decreased use of impervious materials;
- Identify and adopt best management practices that reduce stormwater runoff using tools such as the Minnesota Stormwater Manual;
- Where feasible, require pre-settlement stormwater discharge on new developments and redevelopments;
- Identify and adopt methods for minimizing the effects of temperature, especially for streams and wetlands;
- In cooperation with the RCWD, collect water quality data on lakes within the City and establish goals for each water body;
- Educate residents on the link between surface water and ground water quality; and,
- In cooperation with the RCWD, complete a wetland management plan;

13.2 OTHER UTILITIES

Electricity, natural gas, and cable television are provided and maintained by private companies; however, they do use the right-of-way for distribution of these services. Electricity and natural gas is provided by Xcel Energy. Comcast provides cable television services to Arden Hills.

13.3 CITY STREET AND RIGHT-OF-WAY MAINTENANCE

The City has an on-going Pavement Management Program (PMP) that documents the physical condition of the approximately 31 miles of streets. The condition of each of the streets is evaluated and given a Pavement Condition Index (PCI), which is used to prioritize street reconstruction and maintenance. The PMP reviews roadway pavement condition as well as presence of concrete curb and gutters, storm drainage system, and public utility conditions. These factors are weighted together to generate a prioritized list of roadway improvements. A financial analysis is conducted and the proposed improvements are grouped into annual programs in the Capital Improvement Plan (CIP) and annual budgeting process.

Technological advances and development activities are placing increasing strains on the City's right-of-way. Right-of-way (ROW) is used to provide area for electric, gas, telephone, cable, and other public and private utility lines. Unplanned use of the ROW can lead to a confusing jumble of underground utilities that increase the maintenance and reconstruction costs to all users. It is in the City's best interest to revise its right-of-way ordinance to provide for a comprehensive approach for the maintenance and construction for all public and private utilities within the City ROW.

13.4 EMERGENCY PREPAREDNESS

The City adopted the Ramsey County-wide Emergency Operations Plan in 2005, and updated its City supplemental plan in July 2009. The purpose of this Plan is to maximize the protection of life and property, ensure the continuity of government, sustain survivors, and repair essential facilities and utilities. The Plan is intended to assist key City officials and emergency organizations to carry out their responsibilities for protection of life and property under a wide range of emergency conditions. It is also important to be able to efficiently coordinate emergency services and communicate with other governmental organizations.

13.5 CITY BUILDINGS

13.5.1 City Hall

The City Hall building was opened in October 2001 and is located at 1245 West Highway 96, which is approximately half way between Lexington and Hamline Avenues on the north side of Highway 96. The building includes a community room, Council chambers, and additional space for future needs.

13.5.2 Public Works/Joint Maintenance Facility

In October 2004, the City of Arden Hills, Ramsey County, and the Mounds View School district opened a joint maintenance and operations facility on Paul Kirkwold Drive, which is in the northwest corner of the Highway 96 and Hamline Avenue intersection. The City's Public Works Department, including staff and equipment is located at this facility.

13.6 CITY SERVICES

In addition to basic infrastructure needs, the City provides a variety of public services, including police and fire protection as well as day to day administrative functions. In 2017, the City had 27 full-time employees and 44 seasonal employees. The number of temporary employees changes throughout the year depending on the time of year. Many of the temporary employees are hired by the Public Works Department for park and recreation services. The City continually strives to provide services in an efficient manner. In order to provide services at a low-cost, Arden Hills has sought partnerships with other cities and Ramsey County.

13.6.1 Police

The City contracts with the Ramsey County Sheriff's Office for all police services. As with all its vendors, the City periodically reviews this arrangement to ensure that the City is obtaining the most cost-effective services for its residence. The Ramsey County Patrol Division is located in Arden Hills at the Joint Maintenance Facility. As development occurs on TCAAP, the City and Ramsey County will evaluate the services provided to the City to determine if additional facilities or services are needed.

13.6.2 Fire

The Lake Johanna Volunteer Fire Department provides fire fighting services to Arden Hills, Shoreview, and North Oaks. The fire department owns three fire stations:

- Station 120 in North Oaks at 4676 Hodgson Road;
- Station 130 in Shoreview at 5545 Lexington Ave N; and,
- Station 140 in Shoreview at 3615 Victoria Street.

As with all its vendors, the City periodically reviews this arrangement to ensure that the City is obtaining the most cost-effective services for its residence. As development occurs on TCAAP, the City and Lake Johanna Fire Department will evaluate the services provided to the City to determine if additional facilities are needed.

13.6.3 Administration

The City operates under a City Administrator style government, and the administrator manages the function of all other departments as well as implementation of the City Council's policies and decisions.

The City also has had a Joint Powers Agreement with the City of Roseville for information technology services since 2001.

13.7 POSTAL SERVICES

The City receives regular mail service via the New Brighton Post Office. If the need or opportunity arises for new or additional facilities, it has been a longstanding desire to have a full service post office within Arden Hills.

13.8 PUBLIC SCHOOLS

Almost all of Arden Hills is in the Mounds View School District (ISD 621); however, a small area in the southern part of Arden Hills is within the Roseville School District (ISD 623). Two of the eleven Mounds View School District buildings are located in Arden Hills: the Mounds View High School at 1900 Lake Valentine Road and Valentine Elementary at 1770 West County Road E2. The Mounds View School is also a partner in the joint maintenance facility used by the City and Ramsey County.

The Mounds View School District is one of the highest rated school districts in the state and is a valued organization in the community. In addition to serving Arden Hills, the Mounds View School District also serves all or part of the cities of Blaine, Mounds View, New Brighton, Roseville, Shoreview, North Oaks, Spring Lake Park, and Vadnais Heights as well as White Bear Township. During the 2015-2016 school year, Mounds View High School had approximately 1,650 students and was the twenty-seventh largest high school in the State. Valentine Elementary currently serves approximately 600 students. The district is anticipating 1,600 additional students over the next seven years and expects to accommodate these additional students by renovating and expanding its existing facilities.

The Roseville School District has 10 buildings; however, none of them are located in Arden Hills. In addition to serving Arden Hills, the district also includes all or parts of the cities of Falcon Heights, Lauderdale, Little Canada, Maplewood, Roseville, and Shoreview.

13.9 HIGHER EDUCATION

While not technically a public service, Arden Hills is home to two private higher education institutions: Bethel University and University of Northwestern. Bethel University is located south of Interstate 694 and is on the shoreline of Lake Valentine. The University has a long range Master Plan and future expansion on the campus is expected. Bethel University acquired the former Country Financial campus at 2 Pine Tree Drive in 2013 and plans to slowly grow into the facility over the next 5 to 10 years. The site will be used for classrooms and general office uses.

Split by the Roseville-Arden Hills border, University of Northwestern is located in the south part of the City on the southern shore of Lake Johanna. The College does not have road access into Arden Hills; however, many of the College's educational buildings are located in Arden Hills. Both Roseville and Arden Hills approved a long range Master Plan for University of Northwestern in 2007.

Bethel University and Northwestern College have abundant natural resources and trails that are open for use to the residents of Arden Hills. The City strives to maintain a strong working relationship with both institutions to help ensure long term recreational access to these campuses and to coordinate any changes or expansions with the adjacent residential areas.