

PUBLIC WORKS AND UTILITIES

Facilities Maintenance

*Pictured (left to right)
Tom Florek, Jarrod Molise,
Barry Just, and Mike Sjolund*



Sewer Maintenance

*Pictured (left to right)
Front Row: Bruce Gauthier,
Pat Nordquist, Jim Tregear,
and Chris Sgouris
Back Row: Jerry Bartlett,
Dave Whaley, and Randy Paavola
Not pictured: Dan Beerman (photo
taken with Street Maintenance)*



Equipment Maintenance

*Pictured (left to right)
Al Wendrick, Carl Miller,
John Steadman, Eric Hinze,
Duane Suckow, Anthony Baez,
and Alex Hinze*



Water Transmission and Distribution

*Pictured (left to right)
Front Row: Dave Outinen, Kyle
Johnson, Randy Bullock, and Tim Smith
Back Row: Chris Tracy, Todd Brugman,
Art Carlson, and Mark Trembath*

Wastewater Treatment Plant

(From L to R): Weston Dishaw, Lyle Michaels, Neil Hayward, Bernie Stanaway, Mark O'Neill, Dan Johnston, Pam Greenleaf, Curt Goodman, Neil Traye and Adam Diedrich.

Not pictured: Jim MacDonald, Roger Ohman, Randy Ritari, Mary Maki and Mark Spanton



Forestry and Cemetery

(From L to R): Dan Carter, Chad Hightshoe, Paul Albert, and Wayne Goodwin

Street Maintenance

(From L to R): Mike Parsons, Dave Contois, Mark Brandel, Bridget Holm, Dan Chapman, Mark Romero, Luke Chapman, Jim Fraley, Dan Beerman (Sewer Maintenance), Mike Koval, and Jack O'Neill Not pictured: Steve Matt, Don Trezona, George LaFave and Rob Hulverson



Administrative

(From L to R): Tonya Beerman, Curt Goodman, Eric Stemen, Scott Cambensy and Stacie Stone



PUBLIC WORKS AND UTILITIES

2014 - 2015 ANNUAL REPORT

In accordance with Section 2-80 of the City Code, listed below is a summary of activities for the Public Works and Utilities Department for the 2014-2015 fiscal year.

Department Overview

The Public Works and Utilities Department provides maintenance and support for the City of Marquette vehicle/equipment fleet, water tanks, infrastructures, roads, park cemetery, all recreational parks, lift stations as well as the operations of the water and wastewater plants.

The Public Works and Utilities Department is comprised of the following divisions: Water Transmission and Distribution, Street, Sewer, Forestry, Park Cemetery, Motor Vehicle Equipment, Facility Maintenance, Parks and Recreation Maintenance, Water Plant and Wastewater Treatment Plant. Some of the core functions of the Department include: routine preventative and corrective maintenance activities for local and major roads, water main valves, fire hydrants, system water flushing, water and sewer lateral and/or main repair and/or replacement, signage, snow and ice control, sidewalk repair, street paving, storm sewer maintenance, televising sewer laterals, tree maintenance and park maintenance. The Department also performs daily, weekly, monthly and yearly testing of the drinking water system to ensure we comply with both state and federal guidelines. The Marquette Water and Wastewater Treatment Department is a leader in effective water pollution control, continuously evolving to reflect the ever changing demand of our many customers at the local, regional, state, national and international levels. Protecting public health and preserving our resources through technology is our focus in achieving our goals.

WATER TRANSMISSION AND DISTRIBUTION

Winter Freeze

With prolonged cold temperatures through the winter season, the Water Distribution Department responded to another year of unusually high number of residential water line freeze-ups. Frost depth were observed to six feet and our frost index was recorded at 1,678. Normally our average index for the year would be 1,220.

- 200 water customers thawed due to freeze-up
- 300 water service customers authorized to let run to prevent freezing
- Frost index was 1,678, normally is on average at 1,220
- Cross connection accounts - 749
- Backflow devices in system - 979
- Installed 746 new meters
- Tested 35 large meters for accurate meter water consumption
- One-third of the total distribution system was flushed
- 16 water main repaired
- 21 water service line repaired
- Backflow devices needing repair – 35

Mountain Tank was taken out of service for a full coating replacement of the interior wet surface and exterior surface. Replacement of safety equipment to access top of tank was also done. Lincoln Tank required a small repair to the foundation along with a yearly foundation coating. Grove Station required replacement of the PLC chassis, corrosion had compromised its operational integrity. Also failure of pump “B” motor starter required replacement.

STREET DIVISION

- Collected approximately 9,000 cubic yards of leaves during the curbside collections.
- Collected approximately 800 cubic yards of brush during the curbside collections.
- Compost site had 6,950 vehicles for grass/leaf drop off.
- Compost site had 3,150 vehicles for brush drop off.
- Household rubbish site had 6,888 vehicles with 1,174 cubic yards of rubbish and 40.2 tons of metal being collected.
- 1,058 tons of salt was used for ice control.
- 3,569 cubic yards of sand was used for ice control.
- More than 225 traffic or parking signs were repaired or upgraded this past year.
- Over 500 lineal feet of concrete curb, sidewalk and drive aprons were poured.
- 6,000 gallons of 32% liquid calcium chloride were applied for dust control.

Promotional

The Street Division provides support for the following activities/events:

- | | | |
|--------------------------|-------------------------------|----------------------------------|
| • Art on the Rocks | • New Year's Eve Ball Drop | • Fourth of July Parade |
| • Petunia Pandemonium | • Baraga Harvest Fest | • Hiawatha Music Festival |
| • U.P. 200 Dog Sled Race | • Block parties | • Homecoming Parade |
| • Blueberry Fest | • Ore to Shore Bike Race | • Beer Fest |
| • Harbor Fest | • International Food Festival | • Support for Projects by Groups |
| • Noquemanon Ski Race | | |

STORM SEWER MAINTENANCE

- 3,885 storm sewer manholes and catch basins cleaned
- Nine storm sewer manholes repaired
- 20 catch basins repaired
- Six storm sewer point repairs
- Cleaned 4,705 feet of ditch
- Thawed five frozen storm pipes

SANITARY SEWER MAINTENANCE

- 159,495 feet of sewer main cleaned
- 1,150 sanitary manholes inspected
- 31 sewer backups with all but one being the homeowner's side
- Three sanitary point repairs which included the one City side that caused a sewer backup
- Zero sanitary sewer overflow
- 11 sanitary lateral replacements with 10 laterals being Orangeburg pipe
- One new sewer lateral tap
- 181 laterals televised
- 14 sanitary sewer manholes repaired

FORESTRY DIVISION

- Zero in-house tree planting
- 64 street-side and park trees were planted via contractor
- 364 small (diameter <10") trees were pruned
- 186 large (diameter >10") trees were pruned
- 264 dead, dying, diseased or otherwise dangerous trees were removed while 40 of these were street side, residential trees
- 64 stumps were ground out

PARK CEMETERY

- 29 traditional burials
- 45 cremains burial
- 58 grave space sales
- 72 monument foundations placed
- 193 genealogy searches
- Four special projects:
 - Created an electronic file for nearly 13,000 interments beginning in 1892 to present.
 - Twenty-six recycled park posts were placed along the newly reconstructed road at the far north end to allow for a year-round driving surface in that area.
 - With assistance from the Board of Light and Power, a recycled flag pole replaced the very old primary flag pole.
 - Three landscape mounds were shaped, sodded and 100 grave spaces were laid out with metal pins for the beginning of a cremation garden.

MOTOR VEHICLE EQUIPMENT DIVISION

Below is a list of equipment approved for purchase for Fiscal Year 2014-2015:

- Small equipment - \$5,200
- Vibratory Compactor - \$10,000
- Small All Terrain Turf Vehicle - \$25,000
- Asphalt Paver - \$75,000
- 4WD 1 Ton Cab/Chassis with Service Body - \$50,000
- Three Police Patrol Vehicles - \$105,000

Marquette City Online Auction

The City of Marquette Surplus Online Auction generated \$34,036.50 worth of surplus equipment revenue last year. Most of these items are purchased by local residents.

Equipment in Fleet

- Small Equipment - 169
- Sedan/Pickups – 99
- Large Equipment – 112

Maintenance

- Tune up – 55
- Brakes – 60
- Suspension work – 43
- Drive Train – 10
- Engine work – 6
- Oil changes – 375
- Restoration work (average restoration takes 120 hours) – 6
- Equipment Painting – 3
- Snow Plow under body changes – 75
- Schedule Maintenance (above routine oil change) – 155
- New Equipment Outfitted – 5

Fuel Usage

- Waste Water Treatment Plant – 1,861 gallons
- Marquette Housing – 948 gallons
- Downtown Development Authority (DDA) – 2,121 gallons
- Lakeview Arena – 1,187 gallons
- Motor Pool – 111,388 gallons
- Marquette Area Public Schools (MAPS) – 45,133
- AMCAB – 4,073 gallons
- Powell Township – 4,455 gallons
- Peter White Public Library (PWPL) – 32 gallons

FACILITY MAINTENANCE DIVISION

- Upgraded HVAC control systems at City Hall, Lakeview Arena, Water Plant and Wastewater Treatment Plant.
- Rebuilding of docks and ramps at Cinder Pond Marina.
- Festival preparations at Mattson Park.
- Presque Isle parking lot barrier post replacement.
- Installation of a new gate at Tourist Park.
- Bike path lighting maintenance.
- Tourist Park ballfield topsoil project.
- The copper rock at Presque Isle was removed.
- Pulled three ramps and repaired the structural framing, decking, and handrails at Cinder Pond Marina.

PARKS AND RECREATION MAINTENANCE DIVISION

- Playgrounds with woodchip replacement – 3
- Toys that were replaced – 2
- Toys that were repaired – 35
- Playground inspections – 416
- Trash cans maintained – 214
- Dog boxes maintained – 14
- Picnic tables maintained – 135
- Flag pole maintained occurrences – 30
- Gravel parking lots graded occurrences – 33
- Barrier post replacement – 15
- Lift station pump repairs – 2

WATER PLANT AND WASTEWATER TREATMENT PLANT

The previous 12 months period of time, staff has worked through and “unraveled” several complex technical issues. The plant operation has been stable and overall operation has been excellent. A few National Pollutant Discharge Elimination System minor permit violations occurred during the year. The Water Filtration Plant continues to provide excellent water quality to the residents of Marquette. The City met all water quality standards in accordance of the Safe Drinking Water Act. Water usage and wastewater treatment volumes continue to show a small decrease as a result of water conservation efforts by customers. Major accomplishments within the Department included a complete retrofit of two lift stations and replacement of the 720 microfiltration membrane modules. The Water and Wastewater Facilities operated within budget with few surprises.

Beach Monitoring Program

Through a grant from the State of Michigan and the Great Lakes Restoration Initiative Program, the Department along with the Superior Watershed Partnership monitored five beaches in the City of Marquette. In 2015, the water quality met all standards and did not have any beach closures.



Photo by Yvonne Bonsall, Marquette City Employee