



Department of Public Works

2019 Annual Report

2019 Photo Highlights



BUILDING AND GROUNDS

East Fire Station

Construction of the East Fire Station began in June of 2018 and was completed in mid-2019. This 26,800 square foot station is located at 2950 South Syene Road. It will improve fire and EMS emergency response times for the eastern half of the City.

City Hall and Community Center HVAC Upgrades

The cooling systems at both City Hall and the Community Center were replaced in 2019.

Library Maintenance

Teen Room was painted and new carpet was installed in Teen Room, Quiet Room and Conference rooms.

Fire Station 1

Replaced blower motor in office furnace.

Fire Station 2

Did maintenance on roof top units and interior heat pumps.

City Hall

LED lights were installed in reception areas on second and third floor, replaced old cleaning machine for campus buildings, replaced heating valves on second and third floor, and worked on chiller to make emergency repairs.

Community Center/Senior Center

Installed water fountain/bottle filler in Senior Center. Hired new evening custodian for Community Center/Senior Center and hired new attendant for weekend rentals.

Public Works Maintenance Facility

Replaced emergency lights throughout the building, installed new time clock for exterior lighting and repaired roof leaks.

ENGINEERING

Application Reviews

Architectural Design	21
Preliminary Plat & Final Plat	7
Rezoning Request	18
Conditional Use Permits	15
Certified Survey Map Request	24

PLATS

Terravessa and Terravess CSM

Public improvements for the Terravessa developments began in 2018 and will be completed in 2020. Terravessa is a SmartCode development. It includes approximately 159 buildable lots with mixed uses including single family, duplexes, town homes, multi-family, commercial and an elementary school. Public improvements included construction of approximately 7,400 linear feet of streets, and associated sanitary sewers, water mains, storm sewers and facilities, sidewalks, and paths.



1st Addition to North Park

Public improvements for the 1st Addition to North Park development including sanitary sewer, water main, storm sewer, streets and sidewalks were installed on Addison Drive in 2019.

Promega CSM

The East Cheryl and Fahey Glen roundabout and associated utilities were reconstructed in 2019. New utilities were also installed along Fahey Glen. Completion of this project is anticipated in mid-2020.

Fahey Fields Phase 3

This phase of construction saw the extension of infrastructure along Mary Lane, Holstein Lane, and Notre Dame Drive. Eighteen (18) new single family lots were created in this new development.

Stoner Prairie 1st Addition

Public improvements including sanitary sewer, water main, storm sewer, streets, sidewalks, paths and lighting were installed and accepted in 2019. These improvements will service 48 residential properties.

TRANSPORTATION

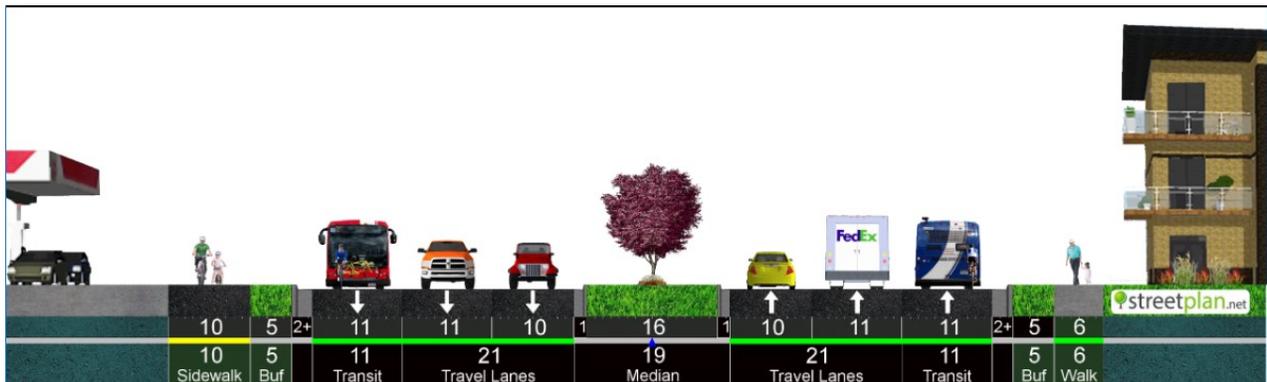
Major Street Construction Projects

North Fish Hatchery Road Project

TID 10 was amended to include project redevelopment area from Greenway Cross to the High Ridge Shopping Center in 2020-2021. The N. Fish Hatchery Road project includes the reconstruction of the road from Greenway Cross to McKee Road including intersection improvements for traffic flow. The contract was let, revised, and rebid due to high construction bids received. The project was awarded to Integrity



Grading and Excavating realizing an 18% reduction with the rebid. A significant amount of time was spent acquiring real estate interests, utility relocation coordination, and new development changes.



McKee Road Reconstruction Project

Reconstruction of McKee Road between Commerce Park Drive and Seminole Highway will occur in 2020. This project was designed in 2019. Design work included intersection improvements for traffic flow, a multi-use path bridge, utility relocations, traffic control, right-of-way acquisitions, business and community stakeholder outreach.



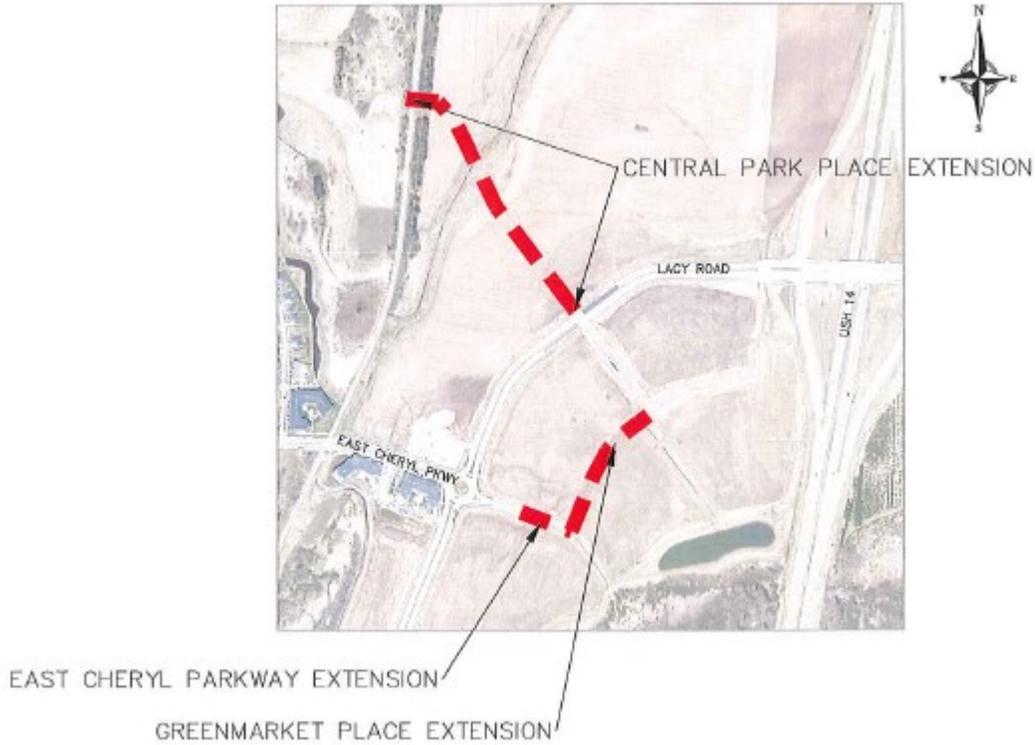
Nesbitt Road/Fitchrona Road Roundabout

Reconstruction of the 4-way stop intersection to a modern roundabout occurred in 2019. Project management included consultant and contractor management, utility relocation, property owner and business/community stakeholder outreach.



Central Park Place RR Crossing Project

Construction of this project has been ongoing. The RR crossing itself is paved and underground public utilities are in place throughout the majority of the project. The Central Park Place extension to Lacy Road, and East Cheryl Parkway and Greenmarket place extensions are anticipated to be completed on schedule in 2020.



Traffic Related Studies

Volume and speed counts were conducted on Whalen Road, Irish Lane, Syene Road, Longford Terrace and Seminole Hwy in an effort to evaluate the impacts of our area’s larger ongoing transportation projects. Additionally, the department has purchased two radar traffic counters, which allow studies to be conducted year round, and increase safety by keeping staff out of the roadway.



Permits

The City continues to require utilities within the City to register and pay permit fees for disturbing right-of-way under the Street Opening Permit put in place by Chapter 27-173. There were 119 permits issued in 2019 that generated more than \$20,950 in revenue. There are 17 public utilities and 4 private utilities in Fitchburg that are covered under the ordinance.

Bicycle and Pedestrian Projects

Seminole Hwy Bike Path

The existing 10' path on the west side of Seminole South of Schumann was replaced with a new 10' path.

McGaw Park Bike Path

A new 10' multi-use path was constructed around the southwest baseball diamond at McGaw Park.

Techlands Bike Path

A new 10' multi-use path was constructed south of Nobel Drive to connect to an existing path that had dead-ended.

Street Maintenance Projects

Each year, under the Road Pavement and Management Program, the Public Works Department outlines plans to maintain and improve local roadways. Three types of repairs or maintenance are performed. These include resurfacing, crack filling, and chip sealing. The method used is determined by the condition of the existing road and other engineering considerations.

Resurfacing includes pulverizing the existing asphalt surface, and relaying a new 3 ½" to 4" layer of asphalt. This portion of the contract included the following roadways: Norwich St, Modenaire St, Stanbrook St, Osmundsen Rd from Stanbrook to Mutchler, Tudor Dr from Stanbrook to Norwich St, Whalen Rd from Seminole Hwy to Mutchler Rd including new 4' paved shoulders.

Crack Filling was performed at the following locations: Sub-Zero Parkway, Scarlet Drive, Persimmon Drive, Aleo Court, Jasmine Drive, Tall Oaks Road, Lancashier Court, Pembroke Street, Restal Street, Margate Street, Frusher Lane, East Cheryl Parkway, Lacy Road, Whalen Road, Yarmouth Greenway, Bantry Lane, Osmundsen Road, Schumann Drive, Schumann Circle, Marledge Street, Nobel Drive, Targhee Street, Treeline Drive, Bryn Wood Drive, Oak Leaf Circle, Marshview Court, Spoke/Spocket Drive, Verona Frontage Road, Kapec Road, Fitchrona Road, Anton Drive, Commerce Park Drive, the Northeast Library Parking Lot, and the Quarry Ridge Parking Lot.

Chip Sealing was performed throughout the City on the following streets: Whalen Road, Caine Road, Nobel Drive, Byrneland Road, Carriedale Court, Chapel Valley Road, and Yarmouth Greenway, totaling more than 60,000 square yards.

Public Works Operations - Streets

The Streets Division is responsible for maintaining and repairing over 130 miles of streets and right-of-way which includes sign maintenance, brush and tree removal, drainage way cleaning, mowing, painting, street sweeping, and snow removal. In 2019, the Streets Division plowed the eight lane miles of McKee Road from Fish Hatchery Road to Verona Road. The Streets Division also maintains the Fitchburg Recycling Drop off Site and provides maintenance and repairs to City Public Storm water Facilities. This year the street crews continued to compost the yard waste that is dropped off at Fitchburg's Recycling Drop off Site maintenance facility. Compost was placed in windrows, turned. The compost is made available to the residents and used for City of Fitchburg landscaping projects.



Training

The Streets, Parks and Utility departments attended numerous training/safety courses throughout the year.



Repairs and Construction

Streets crews used a 4-ton paver and 2-ton hot box to repair sections of pavement that failed over the winter/spring months.



Storm Sewer Repair

Street crews worked on repairing storm sewers as well as replacing some failing culverts. Streets has also continued to operate and maintain the street sweeper.



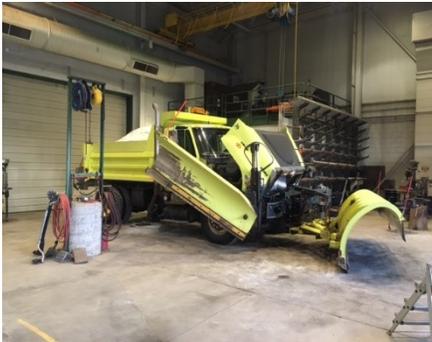
New Streets Equipment

Streets continues with its equipment replacement plan and replaced a 2004 International plow truck with a 2019 International Plow truck. Streets also purchased a used 4-ton Gehl paver; this will be used for pavement repairs and a used 2-ton black top hot box, to be used for pothole patching.



Fleet Maintenance

Streets has continued with the maintenance of the Public Works Fleet along with assisting other City of Fitchburg departments with their vehicle maintenance.



Public Works Operations – Parks

Maintenance, operations and facility construction is managed by Public Works. This includes prairie burns, mowing, equipment repair, snow removal on paths and parking lots, forestry work, athletic field maintenance, preparation, and shelter maintenance.

Park/Playground Improvements

- In McGaw Park 8 new LED path lights were installed along the path that runs from the shelter east to the Wildheather Parking lot. Also with this project, a power pedestal was installed by the east softball field to help the recreation department with their machine pitch baseball and softball programs, and to help supply larger events with additional power. Also in McGaw Park, work started on the forestry management plan in stand one, which involves removing the invasive trees and brush. This work will continue over time as our crews have time and weather permits.
- In McKee Farms Park 6 LED lights were installed along the path that goes from Richardson St east into the park, and the Kids Crossing playground structure was cleaned, stained, and painted.
- The development of Quarry Vista Park continued in 2019 with the addition of a new playground, swing set and new Gazebo. A water fountain is planned for 2020.



- In Briarwood Park, the old playground and swing set were replaced with new.
- In Swan Creek, an underground water line was installed out to the community gardens, helping the gardeners keep their plants watered during dry times of the summer.
- The restroom shelter at Quarry Ridge Park is now running on City water. A new water line was bored underground from Fitchrona Road to the shelter. The old well pump was removed and the original well was abandoned.



- A new half court basketball court was paved in Wildwood South Park. The basketball hoop will be installed early spring 2020.
- In Country Vineyard park, the old basketball court was removed and a new base was installed for paving. Due to the wet fall that we had, we were unable to get it paved in 2019. Paving and the hoop install will hopefully happen in 2020 as soon as the weather allows.

Park Additions and Improvements

Fahey Fields is a new 10+ acre facility that was graded and seeded to grass in 2019. Our Engineering department did a great deal of work developing the grading plan and bidding documents for this project. The plan in 2020 is to develop a park plan for this area.



Multi-Use Paths

In 2019, approximately 1640' of new multi-use path was added throughout the city with 1150' being in McGaw Park around the west softball field, and 450' off Nobel Dr. connecting 2 dead end paths. Along with the new paths that were installed, 1070' of path was resurfaced with one path being on the west side of Seminole Hwy from Executive Drive south, and also the School Path from Persimmon Drive North 175' to help with a drainage problem.

In addition, approximately 1.79 miles of bike paths were crack filled, some being in the Oak Meadow neighborhood, and paths along Nobel Dr, Research Dr, and Woods Hollow.

Parks New Equipment

The Parks department replaced their 2000 GMC 75' forestry truck with a 2019 75' Altec forestry truck. A new chipper truck was also purchased, replacing a 1999 chipper truck, and a new Toro Groundsmaster 16' wing mower was purchased to replace a 2009 Toro Groundsmaster.



WATER & SANITARY UTILITIES

Water System Maintenance

In 2019, the Water Utility took 504 water samples required by the DNR. All samples collected by the City were safe. The water system was flushed twice to ensure cleaner drinking water. Eighty percent of the hydrants were flushed and 166 valves were turned to ensure operation. The City crews hand painted 32 hydrants. The Utility repaired five water main breaks and one service leak throughout the year.



Sanitary System Maintenance

The Utility cleaned one-third of the sanitary sewer system and televised approximately 60,000 feet of sanitary sewer mains. The Utility Department purchased a new cleaning nozzle to improve the sanitary cleaning. This helps ensure proper operation to avoid backups, property damage and root removal.

Utility Locating for Replacement of Infrastructure

In 2019, the Utility Department processed 4,292 Digger's Hotline locating tickets. The Utility locates the sanitary sewer, water mains, and storm drain system along with the city owned streetlights.

Toilet Rebate Program

The toilet rebate program continued to encourage replacement of high gallon per flush toilets, manufactured prior to 1994, with efficient WaterSense-approved models. This is to promote water conservation. The Utility provided rebates of up to \$100 to 26 customers with an estimated annual savings of 338,000 gallons of water. This program will be continue in 2020.

New Equipment

The Utility purchased a utility Marker Ball locator. This locator will be used to locate sanitary sewer laterals at the property line.



Cross Connection Program

Aqua Backflow completed cross connection inspects of all commercial, industrial and public authority facilities within the City in 2019. A cross connection is any connection or potential connection between the City's safe drinking water and any other source of water that could potentially combine the two water sources when a backflow condition occurs. These inspections are required by the Wisconsin Department of Natural Resources' administrative code.

SCADA System Upgrade

The SCADA system software, computer and server were replaced in 2019. This replacement will improve security of the system while providing better access.



Verona Road Utility Relocations

The second phase of utility relocations for reconstruction of Verona Road started in 2017 and was completed in 2019. This includes approximately \$600,000 in water and sanitary infrastructure replacements. The third phase of utility relocations begin in 2020.

Lift Station No. 1

Construction of Lift Station No. 1 was complete in 2019. This station will pump wastewater from the Terravessa Development to MMSD's Nine Springs Interceptor located along Meadowview Road in the Town of Blooming Grove. This station is designed to meet a maximum design flow rate of 1,327 gpm with two submersible pumps and includes a third submersible pump for emergency purposes. Lift Station No. 1 includes an electrical room, a generator room, and a mechanical room that includes accommodations for future odor control if needed.



This station will service a population of approximately 4,850 in the Terravessa plat and land between County Highway MM and Hwy 14.

Meadowview Interceptor and Terravessa Force Main

The 18-inch Meadow View Interceptor and 10-inch Terravessa Force Main was constructed in 2020. In conjunction with Lift Station No. 1, this interceptor and force main will provide sanitary sewer service for the Terravessa plat and lands between County Hwy MM and Hwy 14.

STORMWATER UTILITY

Annual Waterway Cleanup: On April 6 and April 20, Resource Conservation Commission (RCC) commissioners and other volunteers collected trash and recyclables from a few Fitchburg waterways. These included Swan Creek, the Yarmouth Greenway, Belmar Neighborhood near Dunn’s Marsh, and Quarry Hill Park of Fahey Glen Neighborhood. A Cleanup was also held at Placon in Fitchburg. The employees from Placon cleaned up public land throughout stormwater facilities and bike trails.



Emergency Stormwater Repairs:

A culvert on Fitchrona road needed to be repaired after a large rainfall event. Public Works crews responded and replaced the culvert. A failing box culvert on Whalen Road was also replaced in conjunction with resurfacing operations.



Yahara WINS Adaptive Management:

Participated in quarterly meetings and outreach to reduce phosphorus and sediment loading to downstream water resources.

Erosion Control and Stormwater Management (ECSWM) Permitting Program Updates: The City implemented several process changes to improve and standardize the ECSWM permitting program. These improvements included:

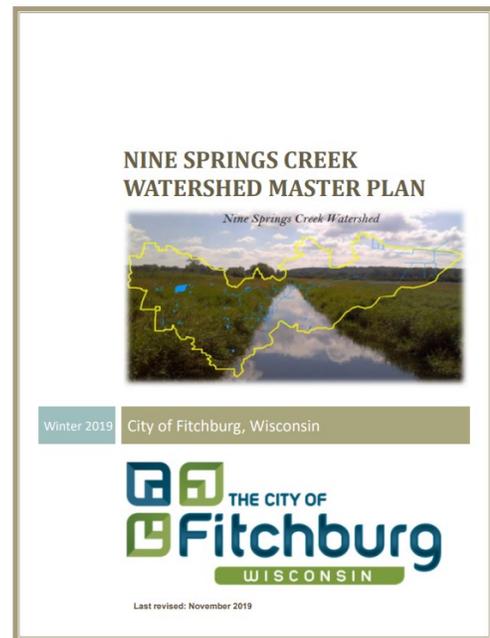
- Provided an Erosion Control Training on May 21 to provide contractors, designers, and inspectors with an overview of erosion control requirements.
- Developed a Standard Operating Procedures (SOP) for ECSWM permit enforcement **during construction** and permit close-out procedures to better provide uniform oversight and obtain erosion control and stormwater management permit compliance on projects under the City Engineering’s jurisdiction for inspection and enforcement.

- Developed an SOP for **ongoing maintenance** of private stormwater facilities (R-201-19) to better provide uniform oversight and obtain compliance on projects under the City Engineering’s jurisdiction.
- Developed an Annual Maintenance Report Template to help ensure annual reports meet ordinance requirements.
- Developed an Erosion Control Inspector Form to collect inspector contact information and have inspectors acknowledge minimum requirements for inspection.
- Revised the permit application fee structure (R-137-19) to ensure developers pay the City for the actual cost of administration and oversight of the ECSWM program.

Green Tier Clear Waters: The City began discussing opportunity to join the Green Tier Clear Waters Initiative in November of 2019 (R-200-19). The expressed purpose of the Green Tier Clear Waters Initiative Charter is to establish a foundation pursuant to s. 299.83, Stats., by which voluntary methods can be used and improved to minimize and prevent storm water run-off problems associated with land disturbing activities. On January 28, 2020, Common Council voted to join the chartered.

Salt Reduction: Several members of the Public Works Crews attended the Regional Winter Salt Reduction Workshop. Promoted salt reduction through the Fitchburg Star, City website, City Facebook page, and green e-news blasts. In addition, the City sent a direct mailing to commercial water users to let them know about grant opportunities to encourage improvements to water softeners, which would reduce the amount of salt entering our fresh water resources.

Nine Springs Creek Master Plan: The Final Nine Springs Creek Watershed Master Plan was published in November 2019. The plan was created to better understand the spatial distribution of existing stormwater facilities and how new stormwater best management practices might be integrated to establish a more comprehensive stormwater system.



Outreach Presentations

- **Waubesa Wetlands / SaltWise Presentation.** On February 7, the RCC and City staff organized a presentation called “Water in Two Parts” and invited UW-Madison Water Resources Management graduate students and members of SaltWise to present on local water quality concerns.
- **Erosion Control Training.** On May 21, the City hosted an erosion control training event (see ECSWM section above for more details).
- **UW Presentation.** On October 9, City staff presented to a group of approximately 35 environmental engineering students at the University of Wisconsin to discuss runoff in urban environments, how stormwater management facilities work, the City’s role in ensuring compliance with erosion and stormwater regulatory requirements, and additional things that residents can do to help protect our local water resources.

SOLID WASTE

Shred Day Events: About 22,280 pounds of paper was shredded for recycling in the spring and fall 2019. On April 13th & November 2nd, residents brought their unwanted paper to be shredded by Pellitteri Data Destruction in the City Campus parking lot. Both event days were very busy and with the help of a few Fitchburg staff members and Pellitteri staff, things went very smoothly. Altogether, the Shred Day Events helped to save around 190 trees.

Electronics Recycling Events: Approximately 21,637 pounds of electronic items were collected at the spring and fall collection events. This includes roughly 2,458 pounds of mixed electronics, 2,252 pounds of computers, 999 pounds of monitors, 2,812 pounds of TV's, 1,588 pounds of freon, 8616 pounds of steel, and 485 pounds of cables. These events served over 500 people.



Recycling at City Hall: The City continues to collect inkjet cartridges, cell phones, hearing aids, and eyeglasses for recycling and reuse. Battery collection was discontinued due to fire and housekeeping concerns; however, 182 lbs. of batteries were collected (177 lbs of alkaline and 5 lbs of rechargeable). Cell phones are now being sent to Cell Phones for Soldiers, a nonprofit organization that recycles the cell phones and smart phones to generate funding to provide free communications to service men, women and veterans.

Compost Facility Implementation: Staff continues to operate the new aerobic compost facility near the Public Works Maintenance Facility to process yard waste (leaves, twigs, grass clippings, etc.). The high-quality compost is made available for residents to pick up at the Recycling Drop Off Site (2373 S. Fish Hatchery Road), and is used by the parks department and streets department for restoration work for various city projects. Using our own compost and topsoil results in a significant cost savings.

Wood Chip Grinding – Brush is ground into wood chips at the Public Works Maintenance Facility to provide wood chips for resident and municipal use.

Holiday lighting recycling: The City collected holiday string lights in the lobby of City Hall during the winter of 2018-2019.

Med-Drop Collection: In 2019, 1,258 pounds of unwanted medications were collected at the Fitchburg Police Department's permanent MedDrop Box. Disposal was conducted in conjunction with www.safecommunities.org.

Recycling Education: RCC members helped co-host a Global Climate Change panel on April 30. This event highlighted the new information and policies that the Dane County Council on Climate Change will be implementing in our county.

On September 18, RCC members and staff held a showing of “Plastic Planet,” a documentary that discusses the problems with plastic waste and how it threatens both the environment and human health. On November 2, RCC members held a “Bring Your Own Bag” event at Dairy Cream to encourage Fitchburg residents to bring a reusable bag when shopping for groceries.

RCC members continued to lead a recycling education program at Aldo Leopold Elementary in 2019. Currently, there is a focus to expand this program beyond Aldo Leopold Elementary School.

PERSONNEL

New Hires

- **Mike Bisbach** was hired as the Director of Public Works/City Engineer
- **Thomas Ballweg** was hired as Senior Project Engineer
- **John Roach** was hired as the Engineering Technician II
- **Jacob Zaemich** was hired as the Utility Maintenance Worker
- **John Ferger** was hired as a Public Works Maintenance Worker in the Streets Department
- **Brad Nelson** was hired as a Public Works Maintenance Worker in the Streets Department
- **Angie Moreno** was hired as Community Center Building Attendant

Public Works Summer Interns

- **Lindsey Budde**, Public Works Transportation Intern, assisted transportation in inspection of road and sidewalk maintenance.
- **Kate Meagher**, Public Works Utility intern, assisted with utility inspections on Terravessa, annual report updates, and record drawings.
- **Natalie McCraw**, Public Works Environmental Intern, assisted with stormwater inspections, website updates.

Professional Involvement

- **Mark Hodel** continues to participate in SWAPS.
- **Mike Bisbach and Thomas Ballweg** attended the Annual League of Wisconsin Municipalities Conference.
- **Claudia Guy, Dakota Dorn and Mike Bisbach** have participated in various Green Tier Events.
- **Claudia Guy and Dakota Dorn** attended the Naseca Stormwater Training.
- **Bill Balke, Mike Bisbach and Tom Ballweg** have shared involvement with the Madison Area Transportation Planning Board.

	<u>Years of Service</u>
Mike Bisbach, P.E., Director of Public Works/City Engineer	
Dena Uselmann, Administrative Assistant	3
 <u>Engineering Division</u>	
Tracy Foss, P.E., Senior Utility Project Engineer	20
Bill Balke, P.E., Senior Transportation Project Engineer	3
Claudia Guy, P.E., Senior Environmental Project Engineer	1
Thomas Ballweg, P.E., Senior Project Engineer	
Dakota Dorn, Engineering/GIS Specialist	3
Zach Trzebiatowski, Engineering Technician II	2
John Roach, Engineering Technician II	
 <u>Utility Division</u>	
Phil Manion, Utility Supervisor	15
Jim Sandlin, Utility Maintenance Worker	15
Brian Kalupa, Locator/Utility Maintenance Worker	2
Ken Anderson, Utility Maintenance Worker	1
Jacob Zaemisch, Utility Maintenance Worker	
 <u>Streets Division</u>	
Mark Hodel, Streets Supervisor	29
Todd Sanford, Streets Maintenance Worker	14
Russ Jones, Streets Maintenance Worker	11
Lonnie Tracy, Streets Maintenance Worker	11
Robert Wipperfurth, Streets Maintenance Worker	10
Jason Anderson, Streets Maintenance Worker	8
Jon Feger, Streets Maintenance Worker	1
Brad Nelson, Streets Maintenance Worker	1
 <u>Parks Maintenance Division</u>	
Johren Frydenlund, Parks & Forestry Maintenance Supervisor	16
T.J. Pelletter, Parks Maintenance Worker	23
Norbert Staszak, Parks Maintenance Worker	18
Michael Mahal, Parks Maintenance Worker	18
Andrew Shackleton, Parks Maintenance Worker	10
Steve Droster, Parks/Streets Maintenance Worker	9
 <u>Building Maintenance Division</u>	
Kevin Richmond, Building and Grounds Supervisor	10
Larry Schlimgen, Custodian	18
Dan Ohm, Custodian	6
Dale Riek, Custodian	8
John Ly, Custodian	3