



**Department of Public Works
Engineering Division**

W240N3065 Pewaukee Road • Pewaukee, WI 53072

Phone: (262) 691-0804 • Fax: (262) 691-5729

Email: publicworks@pewaukee.wi.us

**PUBLIC WORKS COMMITTEE
MEETING NOTICE AND AGENDA**

Thursday, March 31, 2022

4:00 PM

City Hall Common Council Chambers
W240N3065 Pewaukee Road Pewaukee, WI 53072

-
1. Call to Order and Pledge of Allegiance
 2. Public Comment - Please limit your comments to 2 minutes, if further time for discussion is needed please contact your local Alderperson prior to the meeting.
 3. Discussion and Action Regarding the Minutes of January 27, 2022
 - 3.1. Discussion and Action Regarding Minutes of 1-27-2022
 4. Communications
 5. Old Business
 6. Status Reports
 - 6.1. Status Update on Well #5 Alternative Water Main Loop
 7. Storm Water Management Division
 - 7.1. Discussion and possible action regarding the 2021 MS4 Annual Report.
 8. Water and Sewer Division
 - 8.1. Discussion and possible action regarding the possible PFAS testing.
 9. Engineering Division
 - 9.1. Discussion and Possible Action regarding a stop sign request at the intersection of Nottingham Drive and Busse Road.
 - 9.2. Discussion and possible action regarding establishing Railroad Quiet Zones
 10. Highway Division
 - 10.1. Discussion and possible action regarding removing the Heavy Weight Restriction on Lindsay Road from Redford Boulevard (CTH F) to Duplainville Road.
 11. Public Comment - Please limit your comments to 2 minutes, if further time for discussion is needed please contact your local Alderperson prior to the meeting.
 12. Adjournment

Magdelene Wagner
Director of Public Works

March 31, 2022

NOTICE

It is possible that members of other governmental bodies of the municipality may be in attendance to gather information that may form a quorum. At the above stated meeting, no action will be taken by any governmental body other than the governmental body specifically referred to above in this notice.

Any person who has a qualifying disability under the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible format must contact the DPW Main Office, at (262) 691-0804 by 12:00 p.m. the Tuesday prior to the meeting so that arrangements may be made to accommodate your request.

**CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 3.1.**

DATE: March 31, 2022

DEPARTMENT: PW - Water/Sewer

PROVIDED BY:

SUBJECT:

Discussion and Action Regarding Minutes of 1-27-2022

BACKGROUND:

FINANCIAL IMPACT:

RECOMMENDED MOTION:

ATTACHMENTS:

Description

1-27-2022 Minutes

In attendance

Mayor S. Bierce, Alderman J. Wamser, Committee Members: M. Kreiter, D. Swan, J. Tormey

Also in Attendance

M. Wagner-Director of Public Works, J. Mueller-Utility Manager, R. Wirtz-Chief Engineer Utilities, M. Gabbey-Chief Engineer Streets & Development, S. Smaxwill-DPW Administrative Assistant

1. Call to Order and Pledge of Allegiance

Mayor Bierce called the meeting to order at 4:00 p.m. and requested everyone stand for the Pledge of Allegiance.

2. Public Comments - None

3. Discussion and Action Regarding the Minutes of November 11, 2021

3.1. Discussion and Action Regarding the Minutes of November 11, 2021.

Mr. Swan referred to his question on page 4 of the minutes, where he asked about the policy and how much ahead time do people need to call the sheriff's office for parking on city streets if they are having an event?

Mr. Swan asked about the status of a request from a previous meeting to have staff look into possible ways to lessen the burden for residents who may need financial help connecting to municipal water. Ms. Wagner stated she plans to place this item on a future agenda under Old Business when the committee discusses the assessment policy and potential changes. Mr. Swan then asked Ms. Wagner if she would reach out to the city of Waukesha water utility to see if they offer any type of dispensation for water hook ups. Ms. Wagner said she would contact them and check on if they have any payment policies.

Mr. Kreiter complimented the staff on the comprehensive minutes.

A motion was made and seconded, (J. Tormey, M. Kreiter) to approve the November 11, 2021 meeting minutes. Motion Passed: 5-For, 0-Against.

4. Communications - None

5. Old Business - None

6. Status Reports - None

7. Storm Water Management Division - None

8. Water and Sewer Division

8.1. Status Update Well #5 and Bluemound Water Main Loop

Ms. Mueller updated the committee on the status of Well #5 alternative. She stated that staff is working with Ruekert-Mielke to obtain boring information along the Bluemound Road side between Busse Road and Foster Court to figure out the bedrock depths for final planning. She said we will need that depth to bedrock information to speak with the DNR to determine whether we will need to open cut the river or if they will make us bore the crossing.

Ms. Mueller stated the PSC requires prior approval and budget approval before for any large projects can take place. She has sent a letter to the PSC asking for information on how to close out the Well 5 treatment plant project and start another project. She said this process is moving slowly and updates will continue as more information is received.

8.2. Discussion and possible action regarding the Town of Lisbon Water Service request.

Ms. Wagner provided the committee with a copy of a formal request from the Town of Lisbon (Lisbon) asking for the City of Pewaukee to serve a portion of Lisbon with water. Lisbon also provided a map of the areas of the town to be served. She noted that though Area 3 is shown on the exhibit map, Lisbon indicated that they are not interested the city serving this area; they are only looking for service to Areas 2, 4, and 5.

Ms. Wagner stated she brought this information to the committee to see if they were interested in considering serving areas beyond our municipal borders. She said Lisbon did something similar with the Village of Sussex (Sussex). Lisbon paid for all the infrastructure and turned it over to Sussex for maintenance and operation with the contingency that if Lisbon ever got a water system of their own that they could buy back the system from Sussex for a dollar. Ms. Wagner guesses they will be looking for a similar agreement from us.

Ms. Wagner expressed concern regarding the city's current water system in that area. It is essentially a long dead end that we have been working slowly towards looping the water main up to Woodleaf Reserve to provide backup. She explained that one portion of the loop was part of the Weyer Road project; the next portion will be from the Sports Complex to our new short cut through Swan View Farms, which brought water up to the back side of Balmer Park, basically cutting our route by two-thirds. We could get that loop through Swan View Farms and Broken Hill so that completes a larger loop of the system, and ultimately, we will run it along Lindsay Road and connect to Swan Road, closing the loop for the system. Ms. Wagner answered questions from the committee about the areas she discussed.

Ms. Wagner reported on several issues that would need to be researched.

1. The City of Pewaukee would need an overall system capacity analysis done to determine whether our existing wells are able to serve our municipality as well as its future growth *and* potentially Lisbon, or if we would need an additional well in order to serve the areas outside the municipality. Our current

analysis indicates that at full build-out our city will need an additional well at some point in the future, it's just a matter of where that is. Lisbon had some research done, and they do have the potential for a well in this area, which could be of benefit to us. The analysis we have done previously did not show we have any potential well locations in this general vicinity of the city.

2. We would need to research the pressure and a potential interconnect with Sussex, and how or if we would be able to loop the water main that would extend into Lisbon. Lisbon is looking to serve the little business park which could potentially loop down into our Lindsay Road water main and then down to Lisbon and serve their areas, and then make the connection in Weyer Road to create the looping system in that area.

3. The other concern would be potential water quality issues. Since this is a long dead end, we have to be concerned with potential water quality issues from stagnant water. A need for more flushing would also be necessary.

Ms. Wagner stated an agreement with Lisbon would need to be made indicating who will operate and maintain the system, how we will bill for the water - whether bulk sale or by individual customer, who owns the meters, etc. These would be some of the factors we would need to look into first before we could move forward with some sort of agreement to serve Lisbon.

Ms. Wagner asked the committee if they are interested in considering serving outside the city borders. She said that Lisbon is not looking to annex into the City of Pewaukee. She believes they are using this as a component to incorporate into a village, and we should be cognizant as to what impact that could have on our city.

Alderman Wamser asked how we are billing the people in Delafield on Golf Road? Ms. Mueller stated we never pursued that; they decided on a community well. Ald. Wamser feels billing individual customers would be difficult and feels bulk water would be the preferred method.

Ms. Mueller stated that some of these decisions may be made for us; that they may be determined by the Public Service Commission. She said the capacity analysis study is an important part of this decision because eventually we will have to abandon the 400,000 gallons a minute of water at Well 5 and will need to pick that up somewhere. There is a deep well location at Still River, but we are not sure that will make up the difference we are losing at Well 5.

Mr. Tormey asked if the city has ever done something like this before? Ms. Wagner said we have not served beyond our boundaries before. Mr. Tormey asked if that is the case, do we want to set a precedent? Ms. Wagner said that is what she is asking the committee.

Ms. Mueller mentioned that from a benefit standpoint, we are able to collect a surcharge when we serve customers outside our community, so we would have the opportunity to have more revenue coming in, but she wasn't sure if it would offset the cost of service.

Mr. Tormey questioned if Lisbon is requesting service in Areas 2, 4, and 5, but not Area 3, don't we have to go through Area 3 to get to Area 2? Ms. Wagner said yes, she had that conversation with the

Lisbon engineer who agreed with her, but Lisbon is taking the stance that they don't need service for their customers in that area, so they are not seeking service for them. For looping purposes, Ms. Wagner recommended we either service Area 3 or we do not service any of them. Mr. Tormey stated otherwise we may have a significant amount of cost with no potential for revenue coming in. Ms. Wagner agreed. He suggested we proceed cautiously.

Mr. Swan asked how close we are to Weyer Road with our water loop? Do we use that to loop? Ms. Wagner said we would, that our water main extends to the end of Weyer Road at our municipal boundary, and that is why we would need Area 3 to make the loop of that system.

Mayor Bierce stated he is always in favor of cooperating with people, and his preference would be to annex this land. We have no agreements with Lisbon and they will need to have an agreement with us to become a village.

The committee discussed potential concerns and benefits, and how they might affect our city should we choose to service Lisbon. Following this discussion, Ms. Wagner asked the committee if they are interested in serving beyond our borders. If so, we would need to ask the same questions of the council and if they agree to it, we would go to Lisbon and provide an agreement with a list of studies that need to be done at their cost with our review, or we would do them, depending on who they are using for consultants. We would then bring those results back to the committee with the answer for whether we would have the capacity to do it. And if so, the next question would be do we move on with the design based on those studies or not.

Mayor Bierce asked that if we do the study and this falls apart would we gain any valuable information for our city, or would it just be information for Lisbon? Ms. Wagner stated that we would gain useful information. She said we are planning to do this anyway as part of our facility plan/capacity study, especially with Well 5 coming out of the mix we will need to know how much time we have before the next well needs to be put in service to meet the demands of our city.

Mr. Kreiter asked if this would affect the Great Lakes Basin with keeping water in the watershed? Ms. Wagner said no, not for this particular area.

Mayor Bierce asked the committee if there were any objections to staff bringing this forward to common council to see if they are interested in pursuing serving Lisbon; there were none.

Mr. Kreiter suggested we move cautiously.

A motion was made and seconded, (J. Tormey, D. Swan) to have staff bring the request to council to see if there is interest in serving areas outside city boundaries, and if they want to pursue the formal request by the Town of Lisbon. Motion Passed: 5-For, 0-Against.

9. Engineering Division - None
10. Highway Division - None

11. Public Comments - Please limit your comments to 2 minutes. If further time for discussion is needed, please contact your local Alderperson prior to the meeting.

Ms. Wagner introduced new employee, Michaelis Gabbey, Chief Engineer-Streets & Development, to the committee and briefly explained some of the projects he will be working on. The committee gave Mr. Gabbey a warm welcome.

12. Adjournment

A motion was made and seconded, (J. Tormey, D. Swan) to adjourn the meeting at 4:27 p.m.

Motion Passed: 5-For, 0-Against.

Respectfully Submitted,

Magdelene Wagner
Director of Public Works

**CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 6.1.**

DATE: March 31, 2022

DEPARTMENT: PW - Water/Sewer

PROVIDED BY:

SUBJECT:

Status Update on Well #5 Alternative Water Main Loop

BACKGROUND:

Utility staff and consultants continue to work with the Public Service Commission (PSC) to provide the required documentation for the change in scope of this project. We are experiencing delayed responses and conflicting or unclear direction from PSC staff. A teleconference was held on March 24, 2022 with PSC staff that established more directives for the project. Another detailed report is required explaining the basis for the scope of the original water treatment plant determination, the discovery of the well collapse, and the justification to move forward with the Looping Water Main Alternative.

At this meeting, PSC staff indicated that Construction Authorization (90-120 day project review) would not be required if we can move the water main outside of the Waukesha jurisdictional boundaries.

Preliminary discussion have taken place with the DNR regarding wetlands impacts, and potential funding using Safe Drinking Water Loans with/or without principal forgiveness and other possible funds that may be available. Funding this project will be a huge hurdle. A recent review of project the estimate have escalated the potential costs adding an additional \$1M for the original \$3.2M to \$4.2M for construction due to inflation and supply chain problems.

With setting the time line for required project reviews by the PSC, DNR; wetlands engineers, water main construction approvals, and DNR funding applications, it is difficult to establish a clear bidding and construction schedule. Once we can provide a reasonably accurate time line, we then need to address whether we can complete this work in order to comply with the DNR Consent Order that was put into effect to address the radium exceedance at Well #5. The required compliance date is May 31, 2024.

FINANCIAL IMPACT:

RECOMMENDED MOTION:

**CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 7.1.**

DATE: March 31, 2022

DEPARTMENT: Public Works

PROVIDED BY: Magdelene Wagner

SUBJECT:

Discussion and possible action regarding the 2021 MS4 Annual Report.

BACKGROUND:

The WDNR requires we complete an annual report for our NR216 permit. Attached is our Draft 2021 MS4 Annual Permit.

FINANCIAL IMPACT:

RECOMMENDED MOTION:

Committee review the draft NR216 Annual Report for 2021.

ATTACHMENTS:

Description

Annual MS4 Report for 2021



Department of Public Works
Engineering Division
W240N3065 Pewaukee Road
Pewaukee, WI 53072
(262) 691-0804 Fax: (262) 691-5720

Memorandum

To: Magdelene Wagner, P.E.

From: Richard J. Wirtz, P.E., CFM

Subject: City of Pewaukee Annual MS4 Report for 2021

Date: March 31, 2022

The Wisconsin Department of Natural Resources changed the format of the annual report to an electronic filing process as of 2017. The eReporting system provides the DNR a standardized method and form for receiving reports from permitted communities who must report on specific program components and the measurable goals of their permit. However, this standardized method of reporting may not provide enough information to interested residents or elected officials of the City who are unfamiliar with the programs and processes required by the City's MS4 permit. As in the previous five reporting cycles, we are providing a brief summary report to be posted on the City's website and provided to members of the Common Council which briefly describes the major components of the City's permit, the measurable goals of these components, the results achieved during the reporting year and any recommended changes to the programs. This summary report as well as the information provided in Items B through Item F were submitted to the DNR along with the City's eReport. A copy of the 2021 eReport filed with the DNR is attached at the end of the report as Item A.

**CITY OF PEWAUKEE
ANNUAL REPORT TO
THE DEPARTMENT OF NATURAL RESOURCES
IN ACCORDANCE WITH
NR216 PERMIT REQUIREMENTS
SUBMITTED MARCH 31, 2022**

DRAFT

Illicit Discharge Detection and Elimination/Spills Response Program

Description of Program

The purpose of the Illicit Discharge Detection and Elimination program as well as the Spills Response program is to prevent harmful substances from entering the City's Municipal Separate Storm Sewer System (MS4) and being discharged to waters of the state. The Illicit Discharge Detection and Elimination program incorporates field screening procedures of 20 major outfalls for the purpose of detecting, investigating, and eliminating discharges to the MS4 system which are not entirely composed of storm water. The Spills Response program is a procedure for responding to, investigating and remediating material spills which could enter the City's MS4 system.

Measurable Goals

Perform field screening of the City's major outfalls to determine if illicit discharges are occurring and document the findings. The measurable goal of the Spills Response program is to document and report on the spills reported to the City.

Results Achieved

City staff performed biannual field screening of the 20 major outfalls identified in its plan. There were no illicit discharges detected during the field screening program.

The City of Pewaukee Fire Department (PFD) responded to 4 spills in the past reporting year; three of these occurred either on Waukesha County Highways or Wisconsin State Highways. The fourth spill occurred on August 4, 2021, at W231 N1125 Redford Boulevard. Workers on the site were crushing 55-gallon oil drums and were unaware of oil leaking out of the drums. Approximately 50 to 60 gallons of oil were reported to have been spilled. Staff on site were in process of cleaning the spill with oil dry.

City Staff responded to two illicit discharges during the reporting year. The first occurred on July 21, 2021, when the Director of Public Works and Utility Manager witnessed sewage coming out of a manhole at N25 W23040 Paul Road. Sandbags were placed in the curb line and on the downstream end of the crossing culvert to prevent any discharge from leaving the area. The cause of the discharge was an obstruction and leaking joint in the buildings sanitary lateral. The building owner was notified and contracted with Visu-Sewer to clean, televise and repair the line.

The second illicit discharge occurred on August 24, 2021, and involved a City Contractor pumping disinfection water (i.e. chlorinated water) from City Well No. 1 to a storm inlet. Complaints of a chemical smell were made by City Staff to the Director of Public Works. The Contractor was informed that water discharged to the City's storm sewer system must have a residual chlorine concentration at or below that of potable water. The Contractor did not immediately know the chlorine concentration level in the discharge. The Contractor was informed to cease the discharges. No chlorine odor or other chemical smell was noted at the storm sewer inlet or at the system outfall. Approximately 7500 gallons of disinfection water were pumped into the storm sewer system.

Describe Any Planned Changes to the Program

City staff have been unable to complete a re-evaluation of the outfalls selected for field screening in 2021. The City's MS4 map needs to be adjusted based upon inventory data collected on the City's storm sewer system between 2014 and 2016. Staff anticipate updating the City's MS4 map and re-evaluating the program in conjunction with the preparation of a comprehensive storm water management plan to be

conducted in 2022. Any program re-evaluation will be consistent with the recommendations provided in DNR program guidance document 3800-2012-01.

DRAFT

Construction Site Pollutant Control

Description of Program

The City regulates land disturbing activity according to Chapters 14 and 19 of the Municipal code. Chapter 14 of the Municipal Code pertains to the design, construction, alteration, demolition and moving of buildings and structures within the City and associated land disturbing construction activities. The requirements of this chapter are regulated and enforced by the City's Building Inspection Department. Chapter 19 of the Municipal Code pertains to construction site erosion control, post construction site storm water management and illicit discharges. Regulation and enforcement of the requirements of this chapter are conducted by the City's Engineering Department. The construction site erosion control requirements of the ordinance are consistent with the provisions of NR 216 and the performance standards of NR 151 of the Administrative Code.

Measurable Goals

The Engineering Department reviews proposed development for conformance with the erosion control requirements of Chapter 19 of the Municipal Code and issues a Certificate of Permit Coverage for development plans meeting the requirements of the ordinance. The Department and its consultants also conduct weekly and post 0.5-inch rainfall event compliance inspections of permitted construction sites for the purpose of maintaining compliance with Chapter 19 of the Municipal Code. A report is generated for each inspection performed and provided to the owner/designated representatives of the permitted site. The compliance inspection reports detail any maintenance to be performed, deficiencies noted and/or additional BMP's required to maintain compliance. Sites which are out of compliance are subject to enforcement which can include issuing Notices of Noncompliance, Notices of Violations, issuing fines, posting stop work orders, requiring enforcement conferences and revoking permits.

The Building Inspection Department issues erosion control permits for land disturbing construction activities associated with buildings and structures. Inspections of the erosion control best management practices are performed on sites with disturbances less than 1 acre in area. Inspections are performed each time the Building Inspector is on a site having an erosion control permit.

Results achieved

The Engineering Department issued eleven erosion control permits for new development and conducted approximately 517 compliance inspections in 2021. Seven Notices of Noncompliance, five Notices of Violation, and \$1500.00 in Recommendations for Fines were issued during the reporting year.

The Building Inspection Department conducted approximately 59 erosion bond and 146 erosion control inspections in 2021.

Describe Any Planned Changes to the Program

None at this time.

Post-Construction Site Storm Water Management

Description of Program

The City regulates post-construction site storm water management according to Chapter 19 of the Municipal code. The post-construction storm water management requirements are compliant with the applicable provisions of NR 216 and the performance standards contained in NR 151 of the Administrative Code regarding infiltration and TSS reductions. However, the City's ordinance is more restrictive than the performance standards contained in NR 151 in terms of the pre- and post-developed discharge rates from the developed site. The City's ordinance requires the discharge from the 1, 2, 10 and 100-year storm events from the post developed site be at or below the discharge rates from the site under pre-settlement conditions. Post construction site storm water management practices are required to be maintained and the City requires a maintenance agreement be executed and recorded at Waukesha County Register of Deeds for the perpetual maintenance of the practices.

Measurable Goals

The City reviews proposed development plans for conformance with the post-construction site storm water management requirements of Chapter 19 of the Municipal Code and issues a Certificate of Permit Coverage for development plans meeting the requirements of the ordinance.

Results Achieved

The City issued five permits for post-construction site discharges from new development in 2021. City Staff and consultants have conducted reviews of submittals for twelve different proposed developments for compliance with the post-construction site storm water management requirements of the Municipal Code during the reporting year.

Describe Any Planned Changes to the Program

The City is in the process of documenting its storm water management program and formalizing procedures for inspection and tracking of existing storm water management facilities built to comply with Chapter 19 of the Municipal Code and NR 216 and NR 151 of the State Statutes. This work has been delayed by the review, permitting and enforcement of the City's construction site erosion control and post-construction site storm water management ordinance. To date the bulk of the program has been documented and forms have been created for the inspection of various storm water management practices. Remaining work items include documenting the procedures for the inspection of the existing storm water management facilities, and a program for the tracking of inspections, maintenance and violations of the post-construction site BMP's. City Staff continue to locate and compile available data on the existing storm water management facilities that have been constructed over the years. This data will aid in the inspection of these facilities and determine what agreements are in place for the maintenance of these facilities.

Pollution Prevention

The City is required to implement a number of programs under the Pollution Prevention criteria identified within its WPDES permit. These programs are:

1. Inspection, maintenance, and inventory of post-construction site storm water management facilities.
2. Catch basin cleaning program.
3. Street sweeping program.
4. Winter road management program.
5. Leaf management program.
6. SWPPP for municipal facilities.
7. Nutrient management plan for municipal properties with pervious surfaces over 5 acres.
8. Management procedures for unplanned water main discharges.
9. Other Reportable Results.

The following will provide a brief summary of each of the above programs, identify the measurable goals (if any), the results achieved and any planned program changes or improvements.

Inspection, Maintenance and Inventory of Post-Construction Site Storm Water Management Facilities

Description of Program

The program consists of an inventory of the existing storm water management facilities and ensuring the facilities are properly maintained to perform according to the performance standards used for the design of the facility. The City owns eight municipal facilities between Wagner Park, the City Hall Campus and the Pewaukee Sports Complex. Additional City storm water management facilities are under construction with the development of the highway garage on Green Road.

Measurable Goals

In 2010 the City identified through aerial photographs approximately 192 facilities within the municipal boundaries that were potential storm water BMP's implemented to control post-developed discharges and/or provide for TSS reduction. A significant amount of information still needs to be collected from available City records in order to complete the inventory and conduct inspections of these facilities.

The inventory includes such items as the location, general condition, age, and ownership of each facility; whether a long-term maintenance agreement exists for the facility; the general design of the facility; results of any previous inspections; and completion of any previously recommended maintenance and repairs.

All eight municipal facilities were inspected by City Staff during the reporting period. The facilities are located in Wagner Park (2 wet ponds and a biofiltration device), the Pewaukee Sports Complex (2 wet ponds, an infiltration pond, and a dry pond), and City Hall Campus Site (a biofiltration device).

Results achieved

As indicated previously, City Staff have begun and continue to locate and compile available data on the existing storm water management facilities that have been constructed over the years. To date, approximately 30 pond asbuilts, 36 maintenance agreements and 98 storm water management plans have been located and scanned into the City's network.

Inspections of the City owned facilities indicated all three facilities at Wagner Park and the two wet ponds at the Sports Complex require maintenance. City Staff also conducted two inspections of privately owned storm water management ponds and received an additional 8 inspection reports from private facility owners.

Describe Any Planned Changes to the Program

The completion of the inventory is still lagging due to the time requirements of other permit programs. As time allows staff will work on the completion of the inventory, preparation of inspection forms and the development of procedures for conducting and tracking inspections. This work element shares many of the components which are in process of being prepared as a part of the Post Construction Site Storm Water Management Program.

Catch Basin Cleaning Program

Description of Program

The City identified 12 catch basins along Peterson Drive in 2005 to be inspected and cleaned annually when the program proposal was initially created. This list has been expanded to include 69 catch basins along Green Road which were installed as a part of a road construction project in 2013. This program has also been expanded to include the maintenance and repair of the City's existing storm sewer structures

Measurable Goals

To ensure the continued function of the MS4 system and to remove sediment deposits from the system.

Results achieved

Approximately 19 tons of solids were removed as a result of catch basin cleanings in 2021. Additionally, 5 storm sewer structures were repaired by the Highway Department in 2021. The City released a contract in late 2020 for the repair or replacement of approximately 228 storm sewer structures. As of the end of 2021, approximately 172 storm sewer structures had been repaired or replaced from that contract. An additional 7 inlets were also repaired or replaced as a part of the Meadowbrook Farms Phase 1 paving project which was released in 2021.

Describe Any Planned Changes to the Program

The program needs to be updated to include the catch basins installed along Green Road and to include the maintenance and repairs of the storm inlets and manholes that has been occurring annually over the last seven years. Previously storm sewer structures were repaired in conjunction with road reconstruction and road maintenance projects as a part of the City's road program. Due to the number of structures requiring immediate attention, maintenance efforts have been accelerated. From 2015 to 2019 over 446 storm sewer structures have been repaired or replaced.

Street Sweeping Program

Description of Program

The City Highway Department is responsible for the sweeping of the City Streets. The current program consists of sweeping all City streets once in the spring (as soon as the snow melts) and sweeping once in the fall all City streets with a curb and gutter cross-section. Additionally, City crews sweep arterial streets once per week for 1.5 months in the spring (as soon as the snow cover permits).

Measurable Goals

To remove sediment and debris from the road surface and gutter line prior to being transported by runoff into the City's MS4 system.

Results Achieved

Approximately 156 hours were spent sweeping 1306 miles of streets in 2021. This effort removed approximately 57 tons of solids prior to entering into the City's MS4 system.

Describe Any Planned Changes to the Program

None at this time.

Winter Road Management Program

Description of Program

The winter road management program prescribes the methodologies and guidelines for the removal and control of snow and ice buildup on the City's streets. The City Highway Department is responsible for establishing the procedures, methods, equipment, and labor to implement the program. Details of the program evolve coincident with the evolution of technology and experience within the department regarding snow and ice removal.

Measurable Goals

The goal of the program is to maintain the roadway in a safe driving condition within the limitations of resources, climactic conditions, preservation of the driving surface and environmental concerns. In balancing these concerns, the department is recommended to strive for "passable roadway" conditions on the driving lanes during the storm event. A "passable roadway" is defined as a roadway surface that is free from drifts, snow ridges and as much ice and snowpack as is practical and can be traveled safely at reasonable speeds.

Secondary to maintaining safe driving conditions is the reduction of the amount of salts used during a winter storm event. To this extent the City has invested in equipment which allows for the use of a salt brine for pre-wetting of salt or as a stand-alone pre-treatment of the pavement surface. As a stand-alone treatment, salt brine helps to prevent ice/snow from bonding to the pavement surface thereby providing for easier removal during plowing operations. When used to pre-wet dry salt prior to application to a pavement surface, the brine helps to maintain the salt on the pavement surface rather than be displaced into the ditch or curb line. In either case the salt brine is anticipated to reduce the amount of dry salt required to achieve a "passable roadway."

The equipment utilized by the Highway Department is calibrated annually. Salt applications are set based upon the ground speed of the vehicle and the temperature of the pavement. The brine solution used for pre-wetting the salt is set not to exceed 10 gallons per ton with 8 gallons per ton being typical.

City Staff from the Highway Department attend training periodically regarding winter management operations. The last training event was held in 2016 (Smart Salting Level 1) with seven members of the Highway Department attending. Two City Staff members from the Engineering Department attended the Wisconsin Salt Wise training in 2021 and one received certification as an applicator.

Results Achieved

The Highway Department maintains records of each event during the winter season which includes the amount of product used, pertinent weather data, hours worked, number of trucks in service and other measurable data. These records are maintained for the purpose of evaluating the program on a yearly basis. Snowfall totals used in this evaluation are taken from the weather station at Milwaukee International Airport.

The amount of salt used for a given event or season is highly variable and dependent on a number of conditions such as but not limited to: air temperature; pavement temperature; type of precipitation; intensity of storm; the miles of road to be maintained; and the number of events in a given year. It is therefore difficult to evaluate whether or not the City's salt application is reduced through the use of salt brines for pre-wetting or as a stand-alone pre-treatment from year to year. Table 1 below summarizes the City's salt use for the winter seasons beginning with the 2010-2011 winter season. A typical salt brine solution is composed of 23.3 % salt which yields approximately 2.5 pounds of salt per gallon of brine.

Table 1. City of Pewaukee Salt Use for Winter Road Management.

Winter Season	Tons of Salt	Gallons of Salt Brine	Total Tons of Salt	Lane Miles of Roads	Tons of Salt/lane mile
2010-2011	3203*		3203*	176.4	18.2
2011-2012	1540	14200	1558	176.6	8.8
2012-2013	3520	22679	3548	177.0	20.0
2013-2014	3160	11490	3174	176.8	18.0
2014-2015	2390	4800	2396	179.4	13.4
2015-2016	1865	5100	1871	183.0	10.2
2016-2017	2900	11225	2914	183.0	15.9
2017-2018	3365	5650	3372	184.3	18.3
2018-2019	3365	9070	3376	184.3	18.3
2019-2020	2450	7750	2460	184.3	13.4
2020-2021	2240	7819	2250	185.2	12.2
2021-2022	2060	4500	2066	185.2	11.2

*Total includes salt and salt/sand mixture.

The City implemented the use of salt brines with the 2011-2012 winter season. Prior to that combinations of salt and salt/sand were used in conjunction with plowing for removal of ice and snow from the municipal streets. As can be seen in Table 1, overall salt use in terms of tons/lane mile of roadway has generally been less since initiating the use of salt brines. However, this simplistic evaluation is a little misleading as it does not consider the severity of the winter season, or the effort required by road crews to maintain a "passable roadway".

The Wisconsin DOT has created a Winter Severity Index (WSI) which it utilizes in evaluating the severity of the winter season in relation to its winter management program. The index considers factors such as number of snow events, amount of snow, number of freezing rain events, storm durations, and number

of incidents (frost runs, drifting and clean up). The State DOT developed the WSI in 1995. Prior to the 2013-2014 winter season, index values ranged from 0 to 100. Therefore, the higher the index value, the more severe the winter season and the lower the index value the milder the winter season. The State DOT revised the WSI in the 2013-2014 winter season to provide results which are scaled and compared to the average of the 5 previous winters; the value of which is set as 100. Therefore, values in excess of 100 indicate a severer than average winter and values less than 100 indicate a milder than average winter.

The statewide average WSI is shown in Table 2 for each winter season. Included in Table 2 are values for the WSI for Waukesha County as well. Previously, values for the Waukesha County WSI from 2010 to 2013 were only given in the previous index (weighted from 0 to 100) with the remainder provided in the revised index. The values shown for Waukesha County in Table 2 for those years before the revised index were extrapolated based upon the statewide average values which were available in both versions of the index.

The approximate total snowfall per season and the number of measurable snow events are taken from the Mitchell International weather station in Milwaukee. The average snowfall is based upon the total snowfall for the season divided by the number of measurable events shown.

Figure 1 compares the Winter Severity Index for the statewide average and Waukesha County versus the salt usage for the City of Pewaukee and Waukesha County in tons of salt per lane mile. Overall, the WSI generally coincides with the amount of salt utilized per lane mile to maintain the City's streets in a passable condition for a winter season. The WSI for the 2021-2022 winter season will not be available until the State publishes its Annual Winter Maintenance Report, usually at the end of the year.

As of the writing of this report, the salt use for the 2021-2022 winter season is calculated to be 184 tons lower than the previous season with approximately 2066 total tons of salt used. This translates to approximately 11.2 tons per lane mile of salt applied to City Streets which is 1.0 tons per lane mile lower than the previous year. By comparison, Waukesha County was reported to have utilized approximately 11.7 tons of salt/lane mile for the 2020-2021 winter season which was 0.5 tons per lane mile lower than the City of Pewaukee's application over the same period. The average application for the City of Pewaukee since beginning the use of salt brines in the 2011-2012 winter season to 2021-2022 winter season is approximately 14.5 tons per lane mile. The winter management summary tables for each year of the program are attached to this report as Item B.

Describe Any Planned Changes to the Program

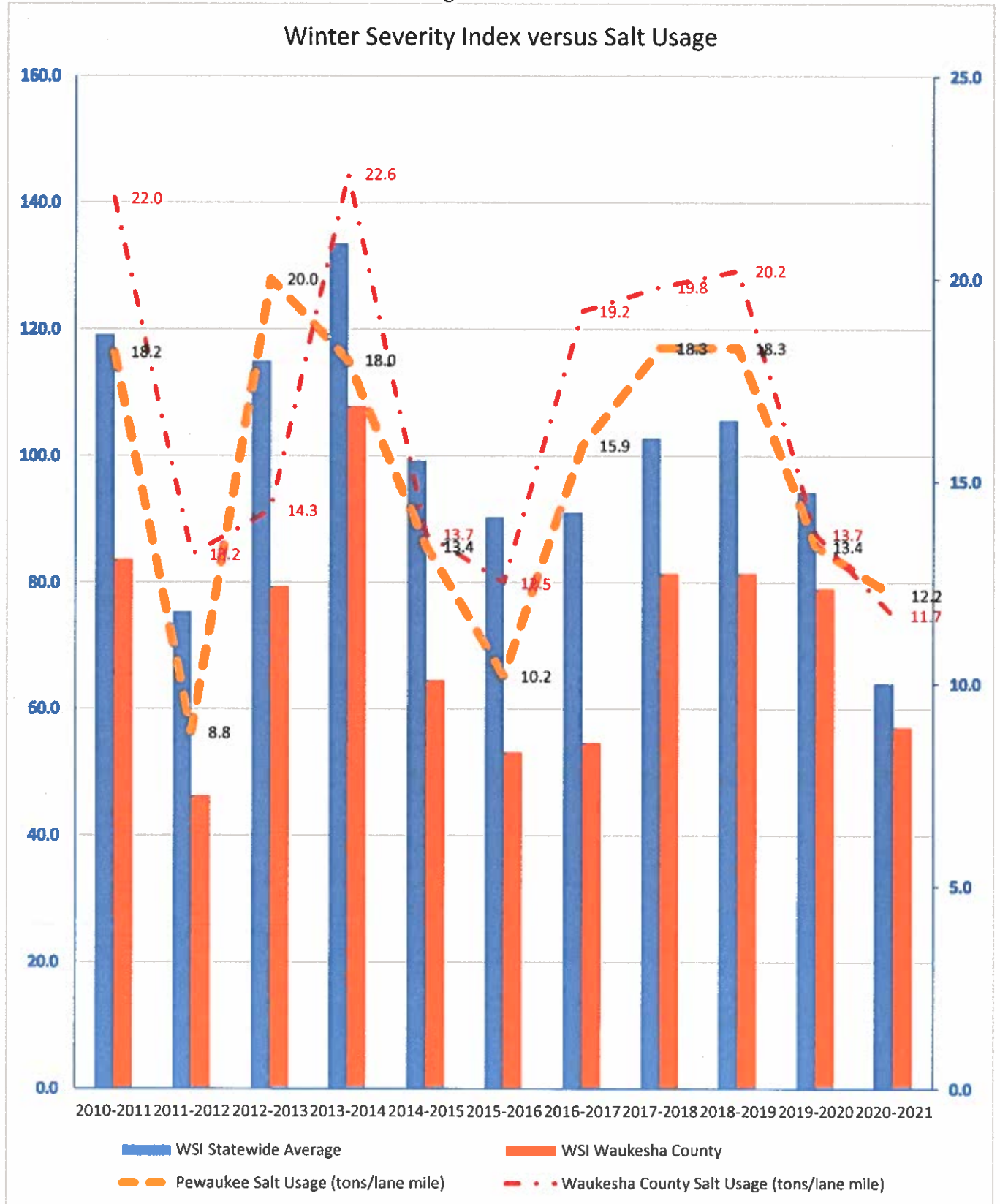
None at this time.

Table 2. Comparison of Winter Seasons and City of Pewaukee Salt Use.

Winter Season	2010 - 2011	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2017	2017 - 2018	2018 - 2019	2019 - 2020	2020 - 2021	2021 - 2022
Approx. Total Snowfall (inches)	61.9	29.6	45.0	63.4	43.0	39.1	37.6	46.7	55.8	36.7	47.8	23.5
Number of Measurable Events	45	26	31	52	38	25	23	36	40	31	29	22
Average Snowfall per event (inches)	1.4	1.1	1.5	1.2	1.1	1.6	1.6	1.3	1.4	1.2	1.7	1.1
Total Tons of Salt	3203 *	1558	3548	3174	2396	1881	2914	3372	3376	2460	2250	2066
Total Hours Worked	NA	596	1272	1863	903	812	1171	1215	1564	1213	1230	1123
Tons of Salt per lane mile of Road	18.2	8.8	20.0	18.0	13.4	10.2	15.9	18.3	18.3	13.4	12.2	11.2
Average Pavement Temp. (degrees F)	NA	NA	NA	19.8	20.1	25.6	25.3	23.1	26.4	28.3	22.8	21.0
WisDOT Statewide WSI	119.2	75.4	115.1	133.6	99.3	90.4	91.1	102.9	105.7	94.3	64.1	
WSI for Waukesha County	83.7 ^a	46.3 ^a	79.4 ^a	107.9	64.6	53.2	54.7	81.5 ^b	81.5 ^b	79.1	57.2	
Waukesha County Tons of Salt per Lane mile	22.0	13.2	14.3	22.6	13.7	12.5	19.2	19.8	20.2	13.7	11.7	

*Total includes salt and salt/sand mixture. **Not determined at the time of reporting. ^aExtrapolated values to statewide index. ^bCorrected WSI from previous report.

Figure 1



Leaf Management Program

Description of Program

The City accepts leaves and grass clippings at the City Recycling Center drop off site located on the lower level of the Pewaukee City Hall campus. Material collected at the site is taken to a facility in Menomonee Falls for composting. The City's waste hauler will also pickup leaves and grass clippings for a fee.

Measurable Goals

To provide an alternative means of disposing of leaves and grass clippings for the City residents as opposed to burning or dumping the debris into the City's right-of-way or ditches.

Results Achieved

In previous years yard waste was broken down into categories to determine the mass of leaves taken to the yard waste site. Similar to last year's reporting by Waukesha County the mass of leaves collected is included in the total yard waste collected which was 718 tons of material. The City's waste hauler reported collecting approximately 10.8 tons of yard waste in 2021.

Describe Any Planned Changes to the Program

None at this time.

SWPPP for Municipal Facilities

Description of Program

The City had prepared an update to its Evaluation of Public Works Yard in 2011. The goal of the evaluation was to identify potential sources of non-point pollution and provide recommendations to mitigate these sources. The City provided additional information in the 2015 annual report regarding planned projects to occur within the City "campus" site which would impact operations on site as well as potentially how storm water is handled. These planned projects included the construction of a new water tower, the construction of a new salt storage facility and repairs to the City Hall and highway garage. To date the new water tower and the repairs to City Hall and highway garage have been completed.

Measurable Goals

The goal of the program is to reduce non-point pollutant loadings from the City "campus" site.

Results achieved

An inspection of the Public Works Yard was performed in 2021.

Describe Any Planned Changes to the Program

The City began the construction of a new highway garage on the northwest corner of Green Road and Duplainville Road in the fall of 2021. The new location will ultimately include a new salt storage facility, recycling location and refueling site. Completion of the highway garage is planned for late summer of 2022. The new highway garage and the repurposing of the current City Hall Campus site will necessitate the preparation of a new SWPPP. Item C of this report includes a site plan of the new site and renderings of the new highway garage.

Nutrient Management Plan for Municipal Properties with Pervious Surfaces over 5 acres

Description of Program

The City has 5 parks with pervious areas over 5 acres: Balmer Park, Wagner Park, South Park, Nettesheim Park and the Pewaukee Sports Complex. A formal nutrient management plan was prepared for the Pewaukee Sports Complex while it was under construction. The remaining parks do not have a formal plan as of yet.

The current practice for maintaining the turf areas in the City's park system is to contract with a company specializing in turf maintenance to assess the condition of the fields and to apply treatments as recommended. Treatments are typically composed of one or more of the following products: Dimension 2EW (a post emergence herbicide); a Urea Nitrogen-Potash fertilizer 25-0-5; a Urea Nitrogen-Potash fertilizer 17-0-5; Trupower 3 (a selective post emergence herbicide); and Cool Power (a selective post emergence herbicide). In addition, the infields of existing baseball fields receive a non-phosphorous fertilizer treatment (composed of a 33-0-5 NPK ratio) three times a year. Mowing of the established turf areas occurs on a weekly rotation with mowing of the baseball infields occurring up to three times a week if necessary.

Measurable Goals

The goal of the program is to reduce the amount of nutrients (namely phosphorous) applied to the turf areas and to apply only what is required to maintain a vigorous growth of vegetation.

Results Achieved

The City's current practices and ordinance bans the use of fertilizers containing phosphorous except for the establishment of new turf areas or if soil tests confirm phosphorous is required.

Describe Any Planned Changes to the Program

Formal plans for the remaining 4 parks need to be developed.

Management Procedures for Unplanned Water Main Discharges

Description of Program

The City is required by permit to develop a program to mitigate discharges of sediment to its MS4 system from unplanned water main discharges otherwise known as "water main breaks." The program was developed for Water and Sewer Utility staff who may be responding to such incidents. The priority for staff responding to a water main break is to locate the source of the discharge and to isolate it, or in layman's terms to "shut it off" as quickly as possible. Temporary erosion control measures, if required, can then be employed to prevent sediment from entering the MS4 system or Waters of the State. The program identifies potential erosion control measures that can be employed to contain/limit the discharge of sediment from a water main break.

Measurable Goals

The goal of the program is to reduce the amount of sediment entering the City's MS4 system or a Water of the State from an unplanned water main discharge.

Results Achieved

The City had 4 unplanned water main discharges last year resulting in an estimated, combined discharge of approximately 652,000 gallons of municipal water. Three of these unplanned discharges were related to water services and one was related to a leaking 6 inch valve.

Describe Any Planned Changes to the Program

None at this time.

Other Reportable Results

Roadways within the City are comprised of a combination of rural cross sections and urban cross sections. Rural cross sections include roadside ditches to collect storm water runoff along with gravel shoulders and paved travel lanes. Urban cross sections include storm sewers and curb and gutter to collect storm water runoff and paved travel lanes. The City of Pewaukee contains approximately 92.6 lineal miles of roads with almost 45 miles of roads having a rural cross-section. Roadside swales need to be periodically cleaned of accumulated sediment to function properly. Each year the City's Highway Department cleans a number of its roadside swales of sediment. Last year the Highway Department cleaned approximately 1267 feet of roadside swales which netted roughly 590 tons of soil.

Worksheets for the Fiscal Analysis required as a part of the City's annual report are included in Item D.

Members of the City's Engineering Staff attended multiple erosion control and storm water management workshops during 2021. These included:

- 2021 Waukesha County Storm Water Management Workshop, April 20-21, 2021 (2 attendees)
- Wisconsin Salt Wise Smart Winter Maintenance for Roads, February 23, 2021 (1 attendee)
- Wisconsin Salt Wise Road Salt 101 for WI Towns and Villages, March 2, 2021 (1 attendee)
- NASECA-WI's 18th Annual Conference and Trade Show, February 10-11, 2021 (1 attendee)

The Wisconsin DNR completed an audit of the City's Illicit Discharge, Detection & Elimination Program, Construction Site Erosion Control Program and Pollution Prevention Program on September 8, 2021. A copy of the audit summary letter from the WDNR is attached as Item E. In general, the DNR required:

- The City revises and submits to the WDNR the MS4 outfall map and to re-evaluate the screening locations for illicit discharge monitoring and screening.
- The City identifies the BMP's utilized in the City's pollutant reduction analysis and submit the information to the WDNR.
- The City develops a schedule, maintenance plan or other form of commitment to City owned or operated BMP maintenance

Public Education and Outreach and Public Involvement and Participation Programs

Description of Program

The City of Pewaukee along with other members of the Upper Fox River Watershed Group contract with Waukesha County to implement the public education and outreach and public involvement and participation programs as required by Group WPDES permit. The County organizes the plan based upon a target audience. For each target audience a set of activities and goals are defined.

Item F contains the County's 2021 Activity Summary Report identifying the key components of last year's plan, the measurable goals and the results achieved. Also included is the County's 2020-2024 MS4 Public Education and Outreach Plan.

City Staff work with our elected and Municipal officials regarding the City's municipal storm water discharge permit through discussions regarding: the function and need of the City's Storm Water Utility; budget hearings and discussions; discussion regarding potential changes to the City's MS4 permit; changes to the City's post construction site storm water management and construction site erosion control ordinance; discussions related to capital improvement projects that impact storm water discharges; and discussions regarding enforcement of the City's post construction site storm water management and construction site erosion control ordinance.

City Staff knowledgeable of the MS4 permit requirements disseminate this knowledge internally as well as to the public through answering general questions regarding the operations and maintenance of storm water BMP's; questions regarding what storm water utility fees are used for; answering drainage concerns; and discussions regarding how permit requirements impact internal job functions and the burden of reporting requirements.

City Engineering Staff have ongoing discussions educating contractors, developers and engineers regarding: the requirements of the City's construction site erosion control and post construction site storm water management ordinance; the City's Technical Standards; WDNR guidance documents, permit conditions and Technical Standards; and enforcement of erosion control.

Item A

WDNR eReporting System Annual Report

DRAFT



ePermitting

Submittal of Annual Reports and Other Compliance Documents for Municipal Separate Storm Sewer System (MS4) Permits

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. After 120 days your draft is deleted.

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
------	----------	----------	------------	------------	-------------	--------

Form 3400-22-4(RB/2021)

Reporting Information :

Will you be completing the Annual Report or other submittal type? ☒ Annual Report ☐ Other

Project Name: 2021 Annual Report

County: Waukesha

Municipality: Pewaukee, City

Permit Number: S050105

Facility Number: 30726

Reporting Year: 2021

Is this submittal also satisfying an Urban Nonpoint Source Grant funded deliverable? ☐ Yes ☒ No

Continue to Next Section

Required Attachments and Supplemental Information

Please complete the contents of each tab to submit your MS4 permit compliance document. The information included in this checklist is necessary for a complete submittal. A complete and detailed submittal will help us review about your MS4 permit document. To help us make a decision in the shortest amount of time possible, the following information must be submitted:

Annual Report

- Review related web site and instructions for [Municipal storm water permit eReporting](#) (Exit Form)
- Complete all required fields on the annual report form and upload required attachments
- Attach the following other supporting documents as appropriate using the attachments tab above
 - Public Education and Outreach Annual Report Summary
 - Public Involvement and Participation Annual Report Summary
 - Illicit Discharge Detection and Elimination Annual Report Summary
 - Construction Site Pollution Control Annual Report Summary
 - Post-Construction Storm Water Management Annual Report Summary
 - Pollution Prevention Annual Report Summary
 - Leaf and Yard Waste Management
 - Municipal Facility (BMP) Inspection Report
 - Municipal Property SWPPP
 - Municipally Property Inspection Report
 - Winter Road Maintenance
 - Storm Sewer Map Annual Report Attachment
 - Storm Water Quality Management Annual Report Attachment
 - TMDL Attachment
 - Storm Water Consortium/Group Report
 - Municipal Cooperation Attachment
 - Other Annual Report Attachment
- Attach the following permit compliance documents as appropriate using the attachments tab above
 - Storm Water Management Program
 - Public Education and Outreach Program
 - Public Involvement and Participation Program
 - Illicit Discharge Detection and Elimination Program
 - Construction Site Pollutant Control Program
 - Post-Construction Storm Water Management Program
 - Pollution Prevention Program
 - Municipal Storm Water Management Facility (BMP) Inventory
 - Municipal Storm Water Management Facility (BMP) Inspection and Maintenance Plan
 - Total Maximum Daily Load documents (**If applicable, see permit for due dates.*)
 - TMDL Mapping*
 - TMDL Modeling*
 - TMDL Implementation Plan*

- Fecal Colliform Screening Parameter*
- Fecal Colliform Inventory and Map (S050075-03 general permittees Appendix B B.5.2 – document due to the department by March 31, 2022)
- Fecal Colliform Source Elimination Plan (S050075-03 general permittees Appendix B - document due to the department by October 31, 2023)

- Sign and Submit form



ePermitting



Save

Do not close your work until you SAVE.



Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
------	----------	----------	------------	------------	-------------	--------

Form 3400-224 (R8/2021)

Municipal Contact Information- Complete

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (Department) by March 31 of each year to report on activities for the previous calendar year ("reporting year"). This form is being provided by the Department for the user's convenience for reporting on activities undertaken in each reporting year of the permit term. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Note: Compliance Items must be submitted using the Attachments tab.

Municipality Information

Name of Municipality: Pewaukee, City

Facility ID # or (FIN): 30726

Updated Information: ☐ Check to update mailing address information[Edit](#)

Mailing Address: W240 N3065 Pewaukee Road

Mailing Address 2:

City: Pewaukee

State: Wisconsin

Zip Code: 53072

XXXXX or XXXXX-XXXX

Primary Municipal Contact Person (Authorized Representative for MS4 Permit)

The "Authorized Representative" or "Authorized Municipal Contact" includes the municipal official that was charged with compliance and oversight of the permit conditions, and has signature authority for submitting permit documents to the Department (i.e., Mayor, Municipal Administrator, Director of Public Works, City Engineer).

☐ Select to *create new* primary contact

First Name: Magdelene

Last Name: Wagner

☐ Select to *update* current contact information

Title: Director of Public Works

Mailing Address: W240 N3065 Pewaukee Road

Mailing Address 2:

City: Pewaukee

State: Wisconsin



Zip Code: 53072-4044

XXXXX or XXXXX-XXXX

Phone Number: 262-691-0804

Ext:

XXX-XXX-XXXX

Email: wagner@pewaukee.wi.us

Additional Contacts Information (Optional)Individual with responsibility for: ☐ I&E Program(Check all that apply) ☒ IDDE Program☐ IDDE Response Procedure Manual

- ☒ Municipal-wide Water Quality Plan
- ☒ Ordinances
- ☒ Pollution Prevention Program
- ☒ Post-Construction Program
- ☐ Winter roadway maintenance

First Name: Richard
Last Name: Wirtz
Title: Chief Engineer-Utili
Mailing Address: W240 N3065 Pewaukee Road
Mailing Address 2:
City: Pewaukee
State: Wisconsin
Zip Code: 53072
Phone Number: 262-691-0804 **Ext:**
Email: wirtz@pewaukee.wi.us

☐ Add contact

1. Does the municipality rely on another entity to satisfy some of the permit requirements?

☒ Yes ☐ No

☒ Public Education and Outreach Waukesha County

☒ Public Involvement and Participation Waukesha County

☐ Illicit Discharge Detection and Elimination

☐ Construction Site Pollutant Control

☐ Post-Construction Storm Water Management

☐ Pollution Prevention

2. Has there been any changes to the municipality's participation in group efforts towards permit compliances (i.e., the municipality has added or dropped consortium membership)?

☐ Yes ☒ No

Missing Information

Press to Refresh Missing Fields

Save

Continue to Next Section



ePermitting



Save

Do not close your work until you **SAVE**.  Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (R8/2021)

Minimum Control Measures- Section 1 : Complete**1. Public Education and Outreach**

a. Complete the following information on Public Education and Outreach Activities related to storm water. Select the Delivery Mechanism that best describes how the topics were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	1/5/2021 		
Project/Event Name	Waukesha County MS4 Education and Outreach		
Delivery Mechanism	Other ▾ *Active		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☒ Illicit discharge detection and elimination ☒ Household hazardous waste disposal/pet waste management/vehicle washing ☒ Yard waste management/pesticide and fertilizer application ☒ Stream and shoreline management ☒ Residential infiltration ☒ Construction sites and post-construction storm water management ☒ Pollution prevention ☒ Green Infrastructure/low impact development ☐ Other: _____	☒ General Public ☐ Public Employees ☐ Residents ☒ Businesses ☒ Contractors ☒ Developers ☐ Industries ☐ Other	101 + ▾	☒ Yes ☐ No

 Add Event (Ctrl D to remove event)

b. Brief explanation on Public Education and Outreach reporting. *Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached Waukesha County spreadsheet for regional effort.

Missing Information[Press to Refresh Missing Fields](#)[Save](#)[Continue to Next Section](#)

Save Do not close your work until you SAVE. Clear

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Form 3400-224 (10/2021)

Minimum Control Measures - Section 2 : Complete

2. Public Involvement and Participation

a. **Permit Activities:** Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how the permit activities were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	1/1/2021	☐ NA (Individual Permittee).	
Project/Event Name	Ongoing discussion regarding City storm water and erosion control req...		
Delivery Mechanism	Other		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
☐ MS4 Annual Report ☐ Storm Water Management Program ☒ Storm Water related ordinance ☐ Other:	☐ General Public ☐ Public Employees ☒ Residents ☐ Businesses ☒ Contractors ☒ Developers ☐ Industries ☐ Other	11-50	☒ Yes ☐ No

[Add Event](#)

b. **Volunteer Activities:** Complete the following information on Public Involvement and Participation Activities related to storm water. Select the Delivery Mechanism that best describes how volunteer activities were conveyed to your population. Use the Add Event to add additional entries.

Event Start Date	5/1/2021	☐ NA (Individual Permittee).	
Project/Event Name	WAV		
Delivery Mechanism	Stream monitoring		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	☒ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other	11-50	☒ Yes ☐ No

Event Start Date	7/1/2021	☐ NA (Individual Permittee).	
Project/Event Name	Adopt A Drain		
Delivery Mechanism	Storm drain stending		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	☒ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other	51-100	☒ Yes ☐ No

Event Start Date	3/1/2021	☐ NA (Individual Permittee).	
Project/Event Name	Green Home Make Over		
Delivery Mechanism	Public Workshop		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	☒ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☐ Contractors ☐ Developers ☐ Industries ☐ Other	51-100	☒ Yes ☐ No

Event Start Date	5/5/2021	☐ NA (Individual Permittee).	
Project/Event Name	Storm Water Workshop		
Delivery Mechanism	Presentation of Storm Water Information		
Topics Covered	Target Audience	Estimated People Reached (Optional)	Regional Effort (Optional)
Volunteer Opportunity	☐ General Public ☐ Public Employees ☐ Residents ☐ Businesses ☒ Contractors ☒ Developers ☐ Industries ☐ Other	101+	☒ Yes ☐ No

[Add Event](#)

c. Brief explanation on Public Involvement and Participation reporting. Limit response to 250 characters and/or attach supplemental information on the attachments page.
See attached City of Pewaukee Annual Report and 2020-2024 Waukesha County Summary Report

Missing Information



ePermitting



Save

Do not close your work until you SAVE.  Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 3 : Complete**3. Illicit Discharge Detection and Elimination**

- a. How many total outfalls does the municipality have? ☐ Unsure
- b. How many outfalls did the municipality evaluate as part of their routine ongoing field screening program? ☐ Unsure
- c. From the municipality's routine screening, how many were confirmed illicit discharges? ☐ Unsure
- d. How many illicit discharge complaints did the municipality receive? ☐ Unsure
- e. From the complaints received, how many were confirmed illicit discharges? ☐ Unsure
- f. How many of the identified illicit discharges did the municipality eliminate in the reporting year (from both routine screening and complaints)? ☐ Unsure
(If the sum of 3.c. and 3.e. does not equal 3.f., please explain below.)
- g. How many of the following enforcement mechanisms did the municipality use to enforce its illicit discharge ordinance? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure
- | | |
|--|--------------------------------|
| ☒ Verbal Warning | <input type="text" value="2"/> |
| ☐ Written Warning (including email) | <input type="text"/> |
| ☐ Notice of Violation | <input type="text"/> |
| ☐ Civil Penalty/ Citation | <input type="text"/> |
- Additional Information:
- h. Brief explanation on Illicit Discharge Detection and Elimination reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.
- See attached City of Pewaukee Annual Report

Missing Information

Press to Refresh Missing Fields

Save

Continue to Next Section



ePermitting



Save

Do not close your work until you SAVE.  Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 4 : Complete**4. Construction Site Pollutant Control**

- a. How many total construction sites with one acre or more of land disturbing construction activity were active at any point in the reporting year? ☐ Unsure
- b. How many construction sites with one acre or more of land disturbing construction activity did the municipality issue permits for in the reporting year? ☐ Unsure
- c. How many erosion control inspections did the municipality complete in the reporting year (at sites with one acre or more of land disturbing construction activity)? ☐ Unsure
- d. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure

☐ No Authority	
☐ Verbal Warning	
☒ Written Warning (including email)	7
☒ Notice of Violation	5
☒ Civil Penalty/ Citation	1
☒ Stop Work Order	0
☐ Forfeiture of Deposit	
☒ Other - Describe below	0

Enforcement Conference

- e. Brief explanation on Construction Site Pollutant Control reporting. *If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See attached City of Pewaukee Annual Report **Missing Information**[Press to Refresh Missing Fields](#)[Save](#)[Continue to Next Section](#)



ePermitting



Save

Do not close your work until you SAVE.  Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 5 : Complete**5. Post-Construction Storm Water Management**

- a. How many sites with new structural storm water management facilities* have received local approval? ☐ Unsure

*Engineered and constructed systems that are designed to provide storm water quality control such as wet detention ponds, constructed wetlands, infiltration basins, grassed swales, permeable pavement, catch basin sumps, etc.

- b. Does the permittee have procedures for inspecting and maintaining private storm water facilities? ☒ Yes ☐ No ☐ Unsure

- c. If Yes, how many privately owned storm water management facilities were inspected in the reporting year? ☐ Unsure

Inspections completed by private landowners should be included in the reported number.

- d. What types of enforcement actions does the municipality have available to compel compliance with the regulatory mechanism? Check all that apply and enter the number of each used in the reporting year. ☐ Unsure

☐ No Authority☐ Verbal Warning☒ Written Warning (including email)☒ Notice of Violation☒ Civil Penalty/ Citation☐ Forfeiture of Deposit☒ Complete Maintenance☒ Bill Responsible Party☒ Other - Describe below

Loss of Storm Water Utility Credit

- e. Brief explanation on Post-Construction Storm Water Management reporting. If marked 'Unsure' on any questions above, justify your reasoning. Limit your response to 250 characters and/or attach supplemental information on the attachments page.

See attached City of Pewaukee Annual Report

Missing Information

Press to Refresh Missing Fields

Save

Continue to Next Section

Save Do not close your work until you Save. Clear

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7.

Minimum Control Measures - Section 6: Complete Form M50-324 (08/2011)

6. Pollution Prevention

Storm Water Management Facility Inspections ☐ Not Applicable

- a. Enter the total number of municipally owned or operated structural storm water management facilities? ☐ Unsure
- b. How many new municipally owned storm water management facilities were installed in the reporting year? ☐ Unsure
- c. How many municipally owned storm water management facilities were inspected in the reporting year? ☐ Unsure
- d. What elements are looked at during inspections (250 character limit)?
 Embankment, outlets, vegetation status, erosion, pretreatment, accumulated trash and debris, etc.
- e. How many of these facilities required maintenance? ☐ Unsure
- f. Brief explanation on Storm Water Management Facility inspection reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.
 See Attached City of Pewaukee Annual Report

Public Works Yards & Other Municipally Owned Properties (SWPPP Plan Review) ☐ Not Applicable

- g. How many municipal properties require a SWPPP? ☐ Unsure
- h. How many inspections of municipal properties have been conducted in the reporting year? ☐ Unsure
- i. Have amendments to the SWPPPs been made?
☐ Yes ☒ No ☐ Unsure
- j. If yes, describe what changes have been made. Limit response to 250 characters and/or attach supplemental information on the attachment page.
- k. Brief explanation on Storm Water Pollution Prevention Plan reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.
 See attached City of Pewaukee Annual Report

Collection Services - Street Sweeping / Cleaning Program ☐ Not Applicable

- l. Did the municipality conduct street sweeping/cleaning during the reporting year?
☒ Yes ☐ No ☐ Unsure
- m. If known, how many tons of material was removed? ☐ Unsure
- n. Does the municipality have a low hazard exemption for this material?
☐ Yes ☒ No
- o. If street cleaning is identified as a storm water best management practice in the pollutant loading analysis, was street cleaning completed at the assumed frequency?
☐ Yes Explain frequency:
☐ No Explain:
☒ Not Applicable

Collection Services - Catch Basin Sump Cleaning Program ☐ Not Applicable

- p. Did the municipality conduct catch basin sump cleaning during the reporting year?
☒ Yes ☐ No ☐ Unsure
- q. How many catch basin sumps were cleaned in the reporting year? ☐ Unsure
- r. If known, how many tons of material was collected? ☐ Unsure
- s. Does the municipality have a low hazard exemption for this material?
☐ Yes ☒ No
- t. If catch basin sump cleaning is identified as a storm water best management practice in the pollutant loading analysis, was cleaning completed at the assumed frequency?
☐ Yes Explain frequency:
☐ No Explain:
☒ Not Applicable

Collection Services - Leaf Collection Program ☒ Not Applicable

Winter Road Management ☐ Not Applicable

*Note: We are requesting information that goes beyond the reporting year, answer the best you can.

- u. How many lane-miles of roadway is the municipality responsible for doing snow and ice control? ☐ Unsure
- v. Provide amount of de-icing products used by month last winter season?

Solids (tons) (ex. sand, or salt-sand)		Product	Oct	Nov	Dec	Jan	Feb	Mar
Salt						470	700	630
						70		

☐ Insert Note

Liquids (gallons) (ex. brine)		Product	Oct	Nov	Dec	Jan	Feb	Mar
Brine						1800	800	1900
						200		

☐ Insert Note

- w. Was salt applying machinery calibrated in the reporting year? ☒ Yes ☐ No ☐ Unsure
- x. Have municipal personnel attended salt reduction strategy training in the reporting year? ☒ Yes ☐ No ☐ Unsure

Training Date	Training Topic	# Attendance
2/23/2021	Smart Salting for Wisconsin Roads	1
3/2/2021	Good Salt 101 for Wisconsin Roads and...	1

☐ Add training (Click D to delete item)

- y. Brief explanation on Winter Road Management reporting. If you marked Unsure for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.
 See attached City of Pewaukee Annual Report

Internal (Staff) Education & Communication

- aa. Has training or education been held for municipal or other personnel involved in implementing each of the pollution prevention program elements?
☒ Yes ☐ No ☐ Unsure
- ab. If yes, describe what training was provided (250 character limit):
 City engineering staff attended the Waukesha County Storm Water Workshop (2) and HASECA Annual Conference (1).
 When: various times in 2021
 How many attended: 3
- ac. Describe how the municipality has kept the following local officials and municipal staff aware of the municipal storm water discharge permit programs and its requirements.
 Elected Officials
 See attached City of Pewaukee Annual Report
- Municipal Officials
 See attached City of Pewaukee Annual Report
- Appropriate Staff (such as operators, Department heads, and those that interact with public)
 See City of Pewaukee Annual Report



ePermitting



Save

Do not close your work until you **SAVE**.

Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7

Note: For the minimum control measures, you must fill out all questions in sections 1 through 7

Form 3400-224 (R8/2021)

Minimum Control Measures - Section 7 : Complete**7. Storm Sewer System Map**

a. Did the municipality update their storm sewer map this year?

☐ Yes ☒ No ☐ Unsure

If yes, check the areas the map items that got updated or changed:

- ☐ Storm water treatment facilities
☐ Storm pipes
☐ Vegetated swales
☐ Outfalls
☐ Other - Describe below

b. Brief explanation on Storm Sewer System Map reporting. *If you marked Unsure for an question for any questions above, justify the reasoning. Limit response to 250 characters and/or attach supplemental information on the attachments page.*

See City of Pewaukee Annual Report

Missing Information

Press to Refresh Missing Fields

Save

Continue to Next Section

☒ Add Program Element

Other (describe) Storm Water Quality Management

7260

350000

350000

Storm water utility



Other (describe) Storm Sewer System Map

0

5000

5000

Storm water utility



☒ Add Program Element

Please provide a justification for a "0" entered in the Fiscal Analysis. *Limit response to 250 characters.*

Water Quality

a: Were there any known water quality improvements in the receiving waters to which the municipality's storm sewer system directly discharges to?

☐ Yes ☒ No ☐ Unsure If Yes, explain below:

b: Were there any known water quality degradation in the receiving waters to which the municipality's storm sewer system directly discharges to?

☐ Yes ☒ No ☐ Unsure If Yes, explain below:

c: Have any of the receiving waters that the municipality discharges to been added to the impaired waters list during the reporting year?

☐ Yes ☒ No ☐ Unsure

d: Has the municipality evaluated their storm water practices to reduce the pollutants of concern?

☐ Yes ☒ No ☐ Unsure

Storm Water Quality Management

a. Has the municipality completed or updated modeling in the reporting year (relating to developed urban area performance standards of s. NR 151.13(2)(b)1., Wis. Adm. Code)?

☐ Yes ☒ No

b. If yes, enter percent reduction in the annual average mass discharging from the entire MS4 to surface waters of the state as compared to implementing no storm water management controls:

Total suspended solids (TSS)

Total phosphorus (TP)

Additional Information

Based on the municipality's storm water program evaluation, describe any proposed changes to the municipality's storm water program. *If your response exceeds the 250 character limit, attach supplemental information on the attachments page.*

See attached City of Pewaukee Annual report

Missing Information

Press to Refresh Missing Fields

Save

Continue to Next Section



ePermitting



Save

Do not close your work until you SAVE.



Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
------	----------	----------	------------	------------	-------------	--------

Form 3400-224 (R8/2021)

Requests for Assistance on Understanding Permit Programs

Would the municipality like the Department to contact them about providing more information on understanding any of the Municipal Separate Storm Sewer Permit programs?

Please select all that apply:

- ☐ Public Education and Outreach
- ☐ Public Involvement and Participation
- ☐ Illicit Discharge Detection and Elimination
- ☐ Construction Site Pollutant Control
- ☐ Post-Construction Storm Water Management
- ☐ Pollution Prevention
- ☐ Storm Water Quality Management
- ☐ Storm Sewer System Map
- ☐ Water Quality Concerns
- ☐ Compliance Schedule Items Due
- ☐ MS4 Program Evaluation

[Continue to Next Section](#)



ePermitting



Save

Do not close your work until you **SAVE**. Close

Home	Contacts	Measures	Evaluation	Assistance	Attachments	Submit
------	----------	----------	------------	------------	-------------	--------

Form 3400-224(R8/2021)

Required Attachments and Supplemental Information

Any other MS4 program information for inclusion in the Annual Report may be attached on here. Use the Add Additional Attachments to add multiple documents.

Upload Required Attachments (15 MB per file limit) - [Help reduce file size and trouble shoot file uploads](#)

*Required Item

Note: To replace an existing file, use the 'Click here to attach file ' link or press the to delete an item.

Attach - Other Supporting Documents

▼

Add additional attachments

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

[More Detail](#)

Attach - Permit Compliance Documents

▼

Add additional attachments

(To remove items, use your cursor to hover over the attachment section. When the drop down arrow appears, select remove item)

[More Detail](#)

Missing Information[Press to Refresh Missing Fields](#)

Save

Draft and Share PDF Report with the permittee's governing body or delegated representatives.

Press the button below to create a PDF. The PDF will be sent to the email address associated with the WAMS ID that is signed in. After the annual report has been reviewed by the governing body or delegated representative, return to the MS4 eReporting System to submit the final report to the DNR.

Item B

Winter Road Management Summary Tables

DRAFT

**Road Salt / Deicers Usage
City of Pewaukee
2010-2011**

Dates of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
4-Dec-10	Plow	0	Salt	128	23 to 30		3		8		
9-Dec-10	Plow	0	Salt	145	19 to 23		2		8		
12/11/2010 to 12/12/2010	Plow	0	Salt	290	0 to 30		2.5		8		Storm began as drizzle before changing to snow
12/20/2010 to 12/21/2010	Plow	0	Salt	160	25 to 31		2		8		
30-Dec-10	Salting Only	0	Salt	80	16 to 40		Ice		8		Due to drop in tem, slush and light drizzle on road turned to ice
4-Jan-11	Salting Only	0	Salt	80	10 to 24		1		8		Early am event
5-Jan-11	Salting Only	0	Salt	80	10 to 20		0.5		8		Start flurries at approx 2 pm
11-Jan-11	Plow	0	Salt	160	17 to 27		3		8		
14-Jan-11	Salting Only	0	Salt	80	15 to 24		0.25		8		
15-Jan-11	Plow	0	Salt	90	13 to 22		2.5		8		Overnight snowfall
01/17/2011 to 01/18/2011	Plow	0	Salt	260	13 to 30		5		8		Snow start at approx 7 am
22-Jan-11	Salting Only	0	Salt	90	5 to 20				8		
27-Jan-11	Plow	0	Salt	120	5 to 22		3		8		Snow start at approx 4:30 am
29-Jan-11	Salting Only	0	Salt	90	20 to 26		0		8		Ice
31-Jan-11	Plow	0	Salt	90	15 to 23		2		8		Snow start at approx 8:30 am
1-Feb-11	Plow	0	Salt	120	8 to 20		8		9		Blizzard
2-Feb-11	Plow	0	Salt	120	9 to 24		11		9		Blizzard - multiple day clean up
6-Feb-11	Salting Only	0	Mix	90	22 to 30		Trace		8		
7-Feb-11	Salting Only	0	Mix	80	11 to 20		Trace		7		
8-Feb-11	Salting Only	0	Salt	80	0 to 11		Trace		7		
20-Feb-11	Salting Only	0	Mix	160	22 to 32		1		8		Rain, sleet, snow and freezing rain mix event
21-Feb-11	Plow	0	Mix	90	15 to 25		3.2		8		See above
22-Feb-11	Plow	0	Mix	90	19 to 21		2		8		See above
02/26/2011 to 02/27/2011	Plow	0	Mix	180	16 to 23		2		8		
5-Mar-11	Salting Only	0	Mix	80	22 to 33		Trace		8		

**Road Salt / Deicers Usage
City of Pewaukee
2010-2011**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
9-Mar-11	Plow	0	Mix	80	20 to 34		3		8		rain, snow, sleet
24-Mar-11	Salting Only	0	Salt	90	19 to 25		1		8		
Total Brine Used (gal)		0	Total Salt Used (tons)		170						

**Road Salt / Deicers Usage
City of Pewaukee
2011-2012**

Dates of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
17-Dec-11	Plow	450	Salt	80	23 to 28		1	28	7	0	Started at 2 am ended 7 am
29-Dec-11	Salting Only	450	Salt	80	28 to 30		Ice	32	8	0	Rain at 4:30 am ended 7:30 am
1-Jan-12	Plow	450	Salt	80	30 to 32		1	30	8	0	Rain @ 4:00 am switched to snow 1"
2-Jan-12	Plow	450	Salt	90	19		1	32	8	0	1" overnight with 40 mph winds
12-Jan-12	Plow	1200	Salt	220	32 to 15		6	52	8	24	10:00 am start 6" total Ended 3:00 am o the 13th
17-Jan-12	Plow	1000	Salt	160	29 to 23		4	64	8	12	5:30am start snow @6:00am done @ noon
20-Jan-12	Plow	800	Salt	120	15 to 20		3	90	8	0	3"Started @ noon ended @ 7 PM
22-Jan-12	Salting Only	400	Salt	60	32		Ice	24	8	0	Freezing Rain started @4:30 PM
23-Jan-12	Salting Only	500	Salt	60	32		Ice	24	8	0	Freezing rain through the the night
28-Jan-12	Plow	450	Salt	80	26		1	32	8	0	10 PM start ended 3AM 1"
9-Feb-12	Pre-Wetting	1100									Pre- storm Pre- Wet
10-Feb-12	Plow	450	Salt	120	32 to 18		3	64	8	0	11 AM start 5PM
13-Feb-12	Pre-Wetting	1050									Pre- storm Pre- Wet
14-Feb-12	Plow	500	Salt	70	29		1	32	8	0	3 PM start 1 AM ended
21-Feb-12	Plow	450	Salt	80	31		2	31	8	0	5AM start 8Am ended 2"
23-Feb-12	Pre-Wetting	1425									Pre- storm Pre- Wet
24-Feb-12	Plow	925	Salt	120	30		4	32	8	24	Started 8PM ended 6 Am on 24th
1-Mar-12	Pre-Wetting	1450									Pre- storm Pre- Wet
2-Mar-12	Plow	700	Salt	120	30		5	29	8	0	Started at 2 pm and ended at 6 pm
Total Brine Used (gal)		14200	Total Salt Used (tons)				Total event hours worked		596	Number of Entries	18

**Road Salt / Deicers Usage
City of Pewaukee
2012-2013**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
7-Dec-12	Pre-Wetting	1200									Pre- storm Pre- Wet
18-Dec-12	Pre-Wetting	1375									Pre- storm Pre- Wet
18-Dec-12	Plow	500	Salt	140	32 to 34		2	45	9	0	Started at 2 pm and ended at 6 pm
19-Dec-12	Pre-Wetting	650									Pre- storm Pre- Wet
20-Dec-12	Plow	600	Salt	120	32 to 36		6	100	9	0	1 am started with 3 inches by morning; switched to rain 1.30 inches.....
21-Dec-12	Plow	500	Salt	120	28		3	36	9	0	Clean up from night before
28-Dec-12	Plow	500	Salt	100	29		1	27	9	0	7 am start 1 inch
29-Dec-12	Plow	500	Salt	110	27		1	32	8	0	5:30 start 1 inch
29-Dec-12	Plow	600	Salt	110	26		1	27	8	0	All day snow 1 inch
5-Jan-13	Salting Only	400	Salt	120	31		0.5	24	7	0	4 pm start 0.5 inch salt run
13-Jan-13	Plow	500	Salt	110	23		1	30	8	0	1 inch overnight
13-Jan-13	Plow	350	Salt	90	16		0	32	8	0	Had to re-plow and salt; roads wouldn't melt
23-Jan-13	Salting Only	350	Salt	90	14		0.5	20	7	0	Light dusting; temperatures dropping
27-Jan-13	Plow	450	Salt	140	28		1	28	8	0	1 inch of snow turned to rain
28-Jan-13	Salting Only	500	Salt	150	32		Ice	32	8	0	Roads refroze with rain turning to ice
30-Jan-13	Salting Only	500	Salt	150	33		Ice	16	8	0	Rain changing to ice; no accumulation
30-Jan-13	Plow	500	Salt	120	33		2	32	8	0	Snow, 2 inches by mid-morning
30-Jan-13	Plow	400	Salt	100	28		1	32	8	0	1 inch of additional snow with full clean-up
31-Jan-13	Plow	250	Salt	120	16		0.5	24	8	0	Light dusting with temperatures dropping and high winds
2-Feb-13	Plow	0	Salt	100	13		2	36	8	0	10 pm snow began; snow ends at 5 am
4-Feb-13	Plow	0	Salt	100	10		2	36	9	0	3 am start
4-Feb-13	Plow	0	Salt	80	8					0	Clean up from morning run
5-Feb-13	Plow	500	Salt	80	17		2	36	8	0	Started at 11 am and ended at 1 pm
7-Feb-13	Plow	700	Salt	150	28		7	36	9	0	Snow started at 11 am and ended at 11 pm
8-Feb-13	Plow	500	Salt	80	20			54	9	0	Clean up from 2/7
13-Feb-13	Plow	672	Salt	60	22		3	27	9	0	Pre-storm Pre-wet/3 inches of snow
14-Feb-13	Plow	500	Salt	60	33		Ice	24	9	0	Light rain turning to ice
15-Feb-13	Salting Only	450	Salt	70	13		0.5	24	7	0	Light snow overnight
19-Feb-13	Plow	500	Salt	90	16		2	36	9	0	0.5 inch rain changed over to snow
19-Feb-13	Plow	400	Salt	90	16			40	9	0	Second run for storm slush and ice.
22-Feb-13	Plow	500	Salt	90	30		5	36	9	0	2 am start with 5 inches ending be 6 am
22-Feb-13	Plow	40	Salt	60	32			24	8	0	Clean up from storm
25-Feb-13	Pre-Wetting	1497	Salt								Pre-storm Pre-wet
26-Feb-13	Plow	500	Salt	60	31		7	27	9	0	Start of Storm
27-Feb-13	Plow	500	Salt	36	32			36	9	0	Beginning of clean up
27-Feb-13	Plow	500	Salt	45	32			48	9	0	Finished clean up
28-Feb-13	Salting Only	500	Salt	40	32		0.5	20	8	0	Dusting overnight
5-Mar-13	Plow	500	Salt	50	30		3	36	9	0	9 am snow started; out until rush hour

**Road Salt / Deicers Usage
City of Pewaukee
2012-2013**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
6-Mar-13	Plow	500	Salt	70	30		3	36	9	0	3 am start total cleanup
6-Mar-13	Plow	500	Salt	40	32		0	24	8	0	Slush run
12-Mar-13	Salting Only	500	Salt	54	28		0.5	24	9	0	Rain chaging to ice; no accumulation
15-Mar-13	Pre-Wetting	695	Salt								Pre-storm Pre-wet
16-Mar-13	Salting Only	500	Salt	45	30		0.5	24	9	0	Light dusting
18-Mar-13	Plow	400	Salt	50	31		2	27	9	0	Started at 8 am and done at 5 pm
19-Mar-13	Salting Only	200	Salt	30	12		0	24	9	0	Temps dropped overnight; spotty ice

Total Brine Used
(gal)

22679

Total Salt Used
(tons)

3520

Total event hours
worked

1272

Number of Entries

44

**Road Salt / Deicers Usage
City of Pewaukee
2013-2014**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (Inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
25-Nov-13	Salting Only	250	Salt	70	30	30	2	60	8	0	2" started at 6:30 am and ended at 11:00 am
8-Dec-13	Plow	400	Salt	60	23	21	2	38	9	0	2" started at 10:00 am
9-Dec-13	Plow	300	Salt	70	16	16	3	45	9	0	Snowed throughout the night; 3:00 am start
9-Dec-13	Plow	200	Salt	60	23	25	0			27	
10-Dec-13	Plow	0	Salt	60	5	7	Drifting	28	7	0	30 mph wind from the West
10-Dec-13	Plow	0	Salt	80	5	7	Drifting	12	4	0	30 mph wind from the West
11-Dec-13	Plow	0	Salt	60	7	9	1	27	9	0	1" started at 3:00 am
11-Dec-13	Plow	0	Salt	60	8	17	Drifting	15	5	0	25 mph wind from the Northwest
14-Dec-13	Plow	450	Salt	70	22	25	2	36	9	0	2" started at 2:00 am with another 2" during the day
14-Dec-13	Plow	450	Salt	70	26	28	2	40	9	0	
15-Dec-13	Plow	0	Salt	70	12	17	0.5	27	9	0	0.5" started at 2:00 am
16-Dec-13	Plow	450	Salt	70	15	18	2	27	9	0	2" Clipper started @ 3:30 and ended at 7:30
17-Dec-13	Plow	450	Salt	70	21	20	0.5	27	9	0	0.5" from 5:00 am to 7:00 am
19-Dec-13	Plow	0	Salt	70	29	31	Ice	20	9	0	Rain with freezing rain
20-Dec-13	Plow	0	Salt	90	26	22	Ice	32	9	0	Freezing rain
20-Dec-13	Plow	0	Salt	80	28	28	Ice	27	9	0	Freezing rain
21-Dec-13	Plow	0	Salt	70	26	28	Ice	18	9	0	Freezing rain
22-Dec-13	Plow	900	Salt	120	29	31	9	99	9	0	9" started at 3:00 am
23-Dec-13	Plow	200	Salt	60	22	24	0.5	18	7	0	0.5" overnight
24-Dec-13	Plow	0	Salt	60	0	4	1	27	9	0	1" overnight
25-Dec-13	Plow	200	Salt	60	17	19	2	32	9	0	2" overnight
26-Dec-13	Plow	200	Salt	60	18	19	0.5	36	8	0	0.5" overnight
31-Dec-13	Plow	0	Salt	60	2	8	1	27	9	0	1" overnight
31-Dec-13	Plow	0	Salt	80	7	13	1	24	9	0	1" started at 3:00 pm
1-Jan-14	Plow	200	Salt	60	15	21	2	32	9	0	2" started at 7:00 am
2-Jan-14	Plow	300	Salt	60	18	22	2	27	9	0	2" started at 5:00 am
4-Jan-14	Plow	400	Salt	60	29	30	1	27	9	0	30 mph winds from Southwest and 1" of snow
10-Jan-14	Plow	400	Salt	30	35	34	Ice	27	9	0	Heavy freezing rain
10-Jan-14	Plow	200	Salt	40	36	35	Ice	27	9	0	Heavy freezing rain with 0.5" of ice
11-Jan-14	Plow	400	Salt	40	33	32	Ice	27	9	0	Roads refroze overnight
14-Jan-14	Plow	0	Salt	50	25	24	3	27	9	0	Still snowing back at 3:00 am
15-Jan-14	Plow	0	Salt	50	12	14	0	42	9	0	Total clean-up
16-Jan-14	Plow	300	Salt	40	27	25	0.5	25	9	0	Light dusting
17-Jan-14	Plow	400	Salt	50	18	15	1	30	9	0	1" all day snow
18-Jan-14	Plow	400	Salt	50	15	19	1	24	8	0	1" all day snow
20-Jan-14	Plow	0	Salt	40	13	15	1	25	9	0	1" all day snow
22-Jan-14	Plow	0	Salt	50	13	18	0.5	27	9	0	Light dusting
25-Jan-14	Plow	200	Salt	60	16	12	2	38	9	0	2" with a 40 mph wind and heavy drifting

**Road Salt / Deicers Usage
City of Pewaukee
2013-2014**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (Inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
26-Jan-14	Plow	0	Salt	60	15	12	3	45	9	0	3" started at 3:00 am
27-Jan-14	Plow	0	Salt	50	0	2	Drifting	72	9	0	40 mph wind out of the Northwest
30-Jan-14	Plow	400	Salt	50	26	28	1	30	9	0	1" from fast moving system
1-Feb-14	Plow	500	Salt	60	15	18	2	74	9	0	All day snow
5-Feb-14	Plow	40	Salt	50	20	23	2	30	9	0	2" overnight
8-Feb-14	Plow	100	Salt	40	15	12	1	32	9	0	1" from fast moving system
12-Feb-14	Salting Only	400	Salt	50	20	18	0.5	27	9	0	0.5" in 4 hours
13-Feb-14	Plow	400	Salt	40	26	28	2	36	9	0	2" from fast moving system
17-Feb-14	Plow	500	Salt	70	25	26	6	96	9	0	6" all day snow
20-Feb-14	Plow	200	Salt	30	32	31	1	36	9	0	freezing rain turning to snow
21-Feb-14	Salting Only	200	Salt	30	26	26	0	18	9	0	1" of rain with temps dropping
27-Feb-14	Plow	0	Salt	40	0	1	0.5	27	9	0	Light dusting of snow
1-Mar-14	Plow	400	Salt	40	15	16	2	30	9	0	2" overnight
2-Mar-14	Plow	0	Salt	50	6	8	2	42	9	0	2" overnight
4-Mar-14	Plow	200	Salt	50	13	15	3	64	9	0	3" from fast moving system
5-Mar-14	Plow	200	Salt	50	16	18	0.5	27	9	0	Light dusting of snow
25-Mar-14	Plow	300	Salt	40	18	22	1	30	9	0	1" overnight

Total Brine Used (gal)	<u>11490</u>	Total Salt Used (tons)	<u>3160</u>	Average Air Temp per Entry (deg F)	<u>18.36</u>	Average Pavement Temp. per Entry (deg F)	<u>19.76</u>	Number of Entries	<u>55</u>
---------------------------	--------------	---------------------------	-------------	---------------------------------------	--------------	--	--------------	-------------------	-----------

Total event hours
worked 1863

**Road Salt / Deicers Usage
City of Pewaukee
2014-2015**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (Inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
15-Nov-14	Plow	400	Salt	80	24	27	2	27	9	0	2" of snow; very icy
16-Nov-14	Salting Only	300	Salt	60	27	29	1	27	9	0	1" overnight
19-Nov-14	Salting Only	300	Salt	70	18	21	1	24	8	0	1" of snow; 7:00 am run
22-Nov-14	Salting Only	400	Salt	40	30	32	Ice	22	6	0	Light icing
24-Nov-14	Plow	400	Salt	80	28	30	3	36	8	0	3" total precip; rain changing to snow
25-Nov-14	Plow	300	Salt	80	25	28	2	45	9	0	2" overnight
28-Nov-14	Salting Only	300	Salt	60	29	28	Ice	18	9	0	Light icing
2-Dec-14	Plow	300	Salt	80	28	27	1	36	9	0	1" overnight; fast moving system
8-Dec-14	Salting Only	200	Salt	60	34	31	Ice	22	8	0	Light icing
18-Dec-14	Plow	200	Salt	60	31	30	Ice	24	8	0	Light icing
3-Jan-15	Plow	300	Salt	120	32	29	3	36	9	0	3" changing to freezing rain
4-Jan-15	Plow	0	Salt	80	10	13	2	96	9	0	2" of blowing snow
6-Jan-15	Plow	0	Salt	80	0	4	2	45	9	0	2" of blowing snow
8-Jan-15	Plow	0	Salt	120	0	3	3	27	9	0	3" of snow with high winds
8-Jan-15	Plow	0	Salt	80	-2	0	1	30	9	0	1" during rush hour
9-Jan-15	Plow	0	Salt	80	6	8	2	30	9	0	2" overnight
9-Jan-15	Plow	0	Salt	80	8	12	0	21	7	0	Drifting and slush run
21-Jan-15	Plow	300	Salt	90	27	28	2	24	9	0	2" overnight
25-Jan-15	Salting Only	300	Salt	60	27	26	0.5	21	9	0	Light dusting of snow
26-Jan-15	Plow	400	Salt	70	24	26	1	24	9	0	1" overnight; fast moving system
29-Jan-15	Salting Only	100	Salt	50	34	31	Ice	18	9	0	Light icing
1-Feb-15	Plow	0	Salt	120	10	14		40	9	0	Beginning of storm
1-Feb-15	Plow	0	Salt	120	10	14		40	9	0	
2-Feb-15	Plow	0	Salt	150	8	10	9	54	9	0	9" total accumulation with high winds
3-Feb-15	Plow	0	Salt	100	13	15	2	30	9	0	2" from fast moving system
18-Feb-15	Salting Only	0	Salt	100	3	5	1	30	9	0	Light dusting of snow
25-Feb-15	Plow	0	Salt	100	12	16	1	20	9	0	1" from fast moving system
3-Mar-15	Plow	300	Salt	120	30	27	2	36	9	0	2" from fast moving system

Total Brine Used (gal)

4800

Total Salt Used (tons)

2390

Average Air Temp per Entry (deg F)

18.72

Average Pavement Temp. per Entry (deg F)

20.14

Number of Entries

28

Total Event hours worked

903

**Road Salt / Deicers Usage
City of Pewaukee
2015-2016**

[illegible]

Total Brine Used (gal) 5100

Total Salt Used (tons)	1955
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000
1100	1100
1200	1200
1300	1300
1400	1400
1500	1500
1600	1600
1700	1700
1800	1800
1900	1900
2000	2000
2100	2100
2200	2200
2300	2300
2400	2400
2500	2500
2600	2600
2700	2700
2800	2800
2900	2900
3000	3000
3100	3100
3200	3200
3300	3300
3400	3400
3500	3500
3600	3600
3700	3700
3800	3800
3900	3900
4000	4000
4100	4100
4200	4200
4300	4300
4400	4400
4500	4500
4600	4600
4700	4700
4800	4800
4900	4900
5000	5000
5100	5100
5200	5200
5300	5300
5400	5400
5500	5500
5600	5600
5700	5700
5800	5800
5900	5900
6000	6000
6100	6100
6200	6200
6300	6300
6400	6400
6500	6500
6600	6600
6700	6700
6800	6800
6900	6900
7000	7000
7100	7100
7200	7200
7300	7300
7400	7400
7500	7500
7600	7600
7700	7700
7800	7800
7900	7900
8000	8000
8100	8100
8200	8200
8300	8300
8400	8400
8500	8500
8600	8600
8700	8700
8800	8800
8900	8900
9000	9000
9100	9100
9200	9200
9300	9300
9400	9400
9500	9500
9600	9600
9700	9700
9800	9800
9900	9900
10000	10000

Average Air Temp
per Entry (deg F) 25.9

Average Pavement
Temp. per Entry
(deg F)

25.55 *Number of Entries*

20

Total Event Hours
Worked

812

**Road Salt / Deicers Usage
City of Pewaukee
2016-2017**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
4-Dec-16	Plow	850	Salt	160	31	29	2	27	9		Long storm start 8:00am and end 8:00pm. Clean up included.
9-Dec-16	Pre-storm	750		0							Pre-storm treatments.
10-Dec-16	Plow	400	Salt	80	24	22	4	50	10		Start 7:00pm on the 10th.
11-Dec-16	Plow	300	Salt	80	28	27	5	55	10		End 8pm on the 11th.
14-Dec-16	Plow	0	Salt	60	6	6	0	16	6		30mph winds - drift run.
15-Dec-16	Plow	0	Salt	80	8	10	0	16	4		Drift run.
16-Dec-16	Plow	0	Salt	140	10	11	7	64	8 to 10		Light dusting followed by long duration storm starting at 2:00pm.
17-Dec-16	Plow	0	Salt	170	16	18	6	88	10 to 9		Salt snowing.
18-Dec-16	Plow	0	Salt	80	8	9	2	50	9		Storm ends.
19-Dec-16	Plow	0	Salt	60	12	14	0	36	9	50	
20-Dec-16	Plow	100	Salt	60	26	30	0	36	9	50	
23-Dec-16	Plow	300	Salt	80	31	30	4	50	9		Fast moving storm.
3-Jan-17	Salt	100	Salt	90	34	34	ice	32	8		Light icing.
9-Jan-17	Salt	200	Salt	60	34	31	1	24	9		Pre-storm salting.
10-Jan-17	Plow/salt	400	Salt	260	34	31	1	84	9		1 inch snowfall overnight followed by freezing rain.
11-Jan-17	Salt	400	Salt	120	28	26	ice	27	9		Freezing rain.
16-Jan-17	Salt	900	Salt	260	34	32	ice	76	9		Freezing rain.
17-Jan-17	Salt	300	Salt	80	34	32	ice	27	9		Freezing rain.
18-Jan-17	Salt	100	Salt	40	32	32	ice	15	5		Freezing rain.
25-Jan-17	Salt	300	Salt	60	32	32	0.5	36	9		Light snow.
26-Jan-17	Plow	300	Salt	80	27	29	1	36	9		1 inch overnight.
30-Jan-17	Plow	1400	Salt	70	27	29	1	18	9		Pre-storm treatments followed by a salt run.
31-Jan-17	Plow	300	Salt	80	29	29	2	36	9		2 inches overnight.
3-Feb-17	Pre-storm	1390		0							
12-Feb-17	Salt	300	Salt	60	31	32	ice	22	8		Light freezing rain.
24-Feb-17	Salt	400	Salt	140	30	31	ice	36	9 to 8		Light freezing rain.
25-Feb-17	Plow	200	Salt	100	23	25	1	30	9		1 inch overnight.
1-Mar-17	Plow	400	Salt	120	32	28	2	47	9		1 inch in morning followed by light snow all day.
13-Mar-17	Plow	400	Salt	130	22	25		81	9		Start storm with 3 inches and continues to snow.
14-Mar-17	Plow	200	Salt	50	18	19	6	32	9		Storm wraps up with 6 inch total.
16-Mar-17	Pre-storm	335									
17-Mar-17	Salt	200	Salt	50	32	31	ice	24	8		Light freezing rain.

Total Brine Used
(gal)

11225

Total Salt Used
(tons)

2900

Average Air Temp
per Entry (deg F)

25.28

Average Pavement
Temp. per Entry
(deg F)

25.31

Number of Entries

29

Total Event Hours
Worked

1171

**Road Salt / Deicers Usage
City of Pewaukee
2017-2018**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (Inches)	Hours of Event (worked)	# of Drivers# of Trucks	Hours of Post-Event Clean-Up	Other Information
9-Dec-17	Plow	500	Salt	100	26	24	2	64	9		All night snow
11-Dec-17	Salt	300	Salt	80	26	22	1	27	9		Fast moving storm - 1 inch
13-Dec-17	Salt	300	Salt	60	22	19	0.5	24	9		Light Dusting
13-Dec-17	Salt	300	Salt	50	32	30	2	24	9		2" north part of City/dusting south part of City
13-Dec-17	Plow	500	Salt	50	28	26	1.5	27	9		Flurries predicted - 1.5 inches
14-Dec-17	Plow	100	Salt	50	28	25	0.5	24	9		Light Dusting
24-Dec-17	Plow	350	Salt	80	22	22	2	36	9		Fast moving storm -2 inches
25-Dec-17	Plow	200	Salt	60	16	18	1	27	9		Fast moving storm -1 inch
28-Dec-17	Plow	0	Salt	80	14	14	1	22	9		Fast moving storm - 1 inch
29-Dec-17	Plow	0	Salt	80	15	15	1	22	8		Fast moving storm -1 inch
30-Dec-17	Plow	0	Salt	80	8	10	1	24	8		1 inch overnight.
3-Jan-18	Plow	0	Salt	80	15	15	1	27	9		1 inch overnight.
11-Jan-18	Salt	0	Salt	80	34	32	ice	36	9		Rain to ice
15-Jan-18	Plow	300	Salt	120	28	24	3	56	9		3 inches overnight - slow mover
15-Jan-18	Plow	200	Salt	80	24	22	3	36	9		3 inches - same storm lake effect
16-Jan-18	Plow	200	Salt	50	24	28	0	24	9	24	Slush run
23-Jan-18	Plow	400	Salt	160	28	28	4	72	9		Heavy rain changing to snow turning to hardpack
28-Jan-18	Salt	400	Salt	60	28	28	1	20	9		Fast moving storm - 1 inch
3-Feb-17	Plow	400	Salt	160	29	29	1	27	9		1 inch beginning of storm
4-Feb-18	Plow	400	Salt	240	16	18	7	108	9		7 inches of snow - total storm was 8 inches
5-Feb-18	Plow	0	Salt	120	8	8	1	27	9		1 inch - still snowing
6-Feb-18	Plow	0	Salt	120	6	6	1	36	9		1 inch overnight.
9-Feb-18	Plow	0	Salt	180	14	16	4	72	9		4 inches - 12 hour storm
17-Feb-18	Salt	400	Salt	100	28	28	0.5	18	9		Light Dusting
4-Mar-18	Plow	400	Salt	100	31	31	3	36	9		Fast moving storm - 3 inches
4-Apr-18	Plow	0	Salt	100	21	22	2	36	9		Rain changing to snow
4-Apr-18	Plow	0	Salt	100	24	26	0	0	9		Hard pack ice
14-Apr-18	Plow	0	Salt	100	28	28	ice	20	9		Light icing
15-Apr-18	Plow	0	Salt	250	30	30	4	108	9		Rain with heavy snow
16-Apr-18	Plow	0	Salt	180	28	28	1	36	9		1 inch - slow mover
18-Apr-18	Plow	0	Salt	140	32	32	2	63	9		2 inches - still snowing
19-Apr-18	Plow	0	Salt	75	34	34	3	36	9		5 inches total from storm -wet and heavy

Total Brine Used
(gal)

6650

Total Salt Used
(tons)

3365

Average Air Temp
per Entry (deg F)

23.34

Average Pavement
Temp. per Entry
(deg F)

23.06

Number of Entries

32

Total Event Hours
Worked

1215

**Road Salt / Deicers Usage
City of Pewaukee
2018-2019**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
9-Nov-18	Salt	200	Salt	40	31	32	1	22	6	0	Light Dusting
10-Nov-18	Plow	200	Salt	60	31	32	2	27	6	0	2 inches - fast mover
16-Nov-18	Plow	200	Salt	40	29	30	1	27	5	0	Light Dusting
17-Nov-18	Salt	300	Salt	50	28	30	1.5	24	5	0	Slower moving storm - lingering snow showers
26-Nov-18	Salt	200	Salt	15	30	30	0.05	12	3	0	Blizzard to the south - worked 3 routes south of I-94
29-Nov-18	Plow	200	Salt	70	30	29	1	32	9	0	1 inch overnight - slow mover
2-Dec-18	Salt	300	Salt	70	31	32	Ice	24	8	0	Light icing
12-Dec-18	Plow	200	Salt	70	33	31	0.05	24	8	0	Light Dusting
25-Dec-18	Plow	100	Salt	80	28	30	1	30	9	0	1 inch - fast mover
28-Dec-18	Salt	200	Salt	80	32	32	0.05	22	9	0	Light Dusting
29-Dec-18	Salt	200	Salt	80	32	32	0	27	9	0	Ice - very slippery
31-Dec-18	Plow	200	Salt	80	30	30	2	45	9	0	All day - changed to snow
2-Jan-19	Salt	200	Salt	70	32	31	Ice	32	9	0	Melt off and re-freeze
2-Jan-19	Salt	150	Salt	80	32	32	0.05	27	9	0	Light Dusting
9-Jan-19	Pre-wet	700	Brine	0				8	1	0	Pre-wet run
18-Jan-19	Plow	200	Salt	100	22	21	1	30	9	0	Beginning of storm - 6 inches expected
19-Jan-19	Plow	0	Salt	160	22	21	5	80	9	0	Snow all night - total clean up
22-Jan-19	Plow	200	Salt	80	21	21	1	27	9	0	Beginning of storm - 5 inches expected
23-Jan-19	Plow	200	Salt	240	22	21	6	96	9	0	Total snow 7 inches
26-Jan-19	Salt	0	Salt	80	4	4	0.05	22	9	0	Light Dusting
28-Jan-19	Plow	0	Salt	400	19	21	11	180	9	0	Started at 3 am and snowed all day
5-Feb-19	Pre-wet	500	Brine	0	27	26		21	9	0	Pre-wet/pre-salt runs - ice expected
6-Feb-19	Plow	400	Salt	240	31	30	1	140	10	0	1 inch of sleet then rain then freezing
7-Feb-19	Plow	500	Salt	180	33	32	Ice	60	10	0	Freezing rain
7-Feb-19	Salt	200	Salt	80	25	31	Ice	30	10	0	Heavy rain turned to ice
10-Feb-19	Plow	300	Salt	60	29	28	1	24	10	0	Fast moving storm
12-Feb-19	Plow	400	Salt	100	31	30	9	110	10	0	Wet - heavy snow
13-Feb-19	Plow	200	Salt	80	24	22	1	50	10	0	1 inch overnight followed by lots of drifting
17-Feb-19	Plow	200	Salt	100	28	26	2	32	10	0	6 inches of expected snow
18-Feb-19	Plow	200	Salt	100	26	24	2	40	10	0	End of storm - 7 inches
20-Feb-19	Plow	300	Salt	140	31	28	1	60	10	0	1 inch snow with freezing rain
22-Feb-19	Pre-wet	820	Brine	0							

**Road Salt / Deicers Usage
City of Pewaukee
2018-2019**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
23-Feb-19	Salt	400	Salt	80	32	31	Ice	30	10	0	Ice with rain to follow
24-Feb-19	Salt	100	Salt	80	31	29	Ice	24	10	0	Heavy rain over night that turned to ice with 60 mph wind
27-Feb-19	Plow	100	Salt	80	25	24	1	40	10	0	1 inch over night
2-Mar-19	Plow	0	Salt	80	13	11	2	30	9	0	2 inches from fast moving over night storm
5-Mar-19	Plow	0	Salt	10	6	4	0.05	25	10	0	Light Dusting
10-Mar-19	Plow	300	Salt	10	32	31	1	30	10	0	

<i>Total Brine Used (gal)</i>	<u>2070</u>	<i>Total Salt Used (tons)</i>	<u>3365</u>	<i>Average Air Temp per Entry (deg F)</i>	<u>26.75</u>	<i>Average Pavement Temp. per Entry (deg F)</i>	<u>26.36</u>	<i>Number of Entries</i>	<u>36</u>
-------------------------------	-------------	-------------------------------	-------------	---	--------------	---	--------------	--------------------------	-----------

Total Event Hours Worked
1564

	Salt	Brine
October	0	0
November	275	1300
December	460	1200
January	1210	1650
February	1320	4620
March	100	300

**Road Salt / Deicers Usage
City of Pewaukee
2019-2020**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (Inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
31-Oct-19	Plow	300	Salt	140	28	29	7	96	8		Happy Halloween Slow mover; 2- RUNS
6-Nov-19	Plow	300	Salt	70	30	28	2	32	8		2" Started @ 3AM done @ 9AM
6-Nov-19	Plow	300	Salt	70	30	27	1	24	8		1" continuation of storm
11-Nov-19	Plow	400	Salt	160	22	23	3	96	9		2 " Very slippery; 2- Runs
14-Nov-19	Plow	300	Salt	60	28	27	1	24	7		1" fast mover
12-Dec-19	Pre-wet	850									
14-Dec-19	Salt	500	Salt	80	31	29	Ice	30	9		Light mist turned to Ice
16-Dec-19	Plow	300	Salt	80	21	23	1	27	9		1" overnight
31-Dec-19	Plow	300	Salt	150	26	24	4	80	10		3" overnight super slippery; 2- Runs
10-Jan-20	Salt	0	Salt	50	32	34	0	27	9		Pre- Salt prior to Storm 10" inches expected
11-Jan-20	Salt	0	Salt	100	28	27	ICE	30	10		ICE Temperature Dropped 6 Degrees in 30 Minutes
11-Jan-20	Salt	300	Salt	80	26	27	1"	30	10		Beginning of Strom
11-Jan-20	Salt	300	Salt	120	24	25	3"	50	10		End of Strom
13-Jan-20	Salt	300	Salt	80	32	30	2"	30	10		2" overnight
17-Jan-20	Salt	0	Salt	50	32	31	0	27	9		Pre salt Run
17-Jan-20	Plow	300	Salt	80	32	31	3	30	10		Beginning of Storm
18-Jan-20	Plow	300	Salt	140	32	31	3	80	10		6" Total from storm High Winds coming; 2- Runs
23-Jan-20	Plow	300	Salt	80	32	31	2	40	10		Overnight Beginning of long drawn out storm
24-Jan-20	Plow	300	Salt	100	34	33	1	40	10		Storm continuing
24-Jan-20	Plow	300	Salt	80	36	32	2	40	10		Still Snowing
25-Jan-20	Plow	300	Salt	80	34	32	1	50	10		Still Snowing
25-Jan-20	Plow	300	Salt	60	36	32	2	50	10		End of Storm 8" Total
9-Feb-20	Plow	300	Salt	100	32	31	2	30	10		Start of storm 5" predicted.
9-Feb-20	Plow	300	Salt	100	30	28	5	50	10		Total storm 8" Fast mover
13-Feb-20	Plow	0	Salt	180	12	10	4	120	10		Quick mover Cold Blast to follow; 2- Runs
17-Feb-20	Plow	300	Salt	80	32	30	2	40	10		Beginning of storm
18-Feb-20	Plow	300	Salt	80	32	30	2	40	10		Fast mover 4 " total

Total Brine Used (gal)

2250

Total Salt Used (tons)

2450

Average Air Temp per Entry (deg F)

29.38

Average Pavement Temp. per Entry (deg F)

28.27

Number of Entries

26

Total Event Hours Worked

1213

**Road Salt / Deicers Usage
City of Pewaukee
2019-2020**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
	Salt	Brine									
October	300	140									
November	360	1300									
December	310	1950									
January	1100	3000									
February	540	1200									
March	0	0									

**Road Salt / Deicers Usage
City of Pewaukee
2020-2021**

[illegible]Total Brine Used
(gal)

7819

Total Salt Used
(tons)

2240

Average Air Temp
per Entry (deg F)

23.59

Average
Pavement Temp.
per Entry (deg F)

22.76

Number of
Entries

12

**Total Event
Hours Worked**

1230

**Road Salt / Deicers Usage
City of Pewaukee
2020-2021**

Date(s) of Event	Activity	Salt/Brine Used (gal)	Product Used (mix-salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
	Brine	Salt									
October	0	0									
November	0	0									
December	2268	440									
January	4751	1000									
February	800	800									
March	0	0									

**Road Salt / Deicers Usage
City of Pewaukee
2020-2021**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mlr=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
6-Dec-21	Salt	300	Salt	60	28	26	1	30	10	0	Light dusting
11-Dec-21	Salt	300	Salt	80	30	28	1	30	10	0	Light dusting
27-Dec-21	Plow	400	Salt	100	28	2	3	50	10	0	Fast mover
28-Dec-21	Plow	500	Salt	160	32	30	3	60	10	0	Slow mover
31-Dec-21	Salt	400	Salt	70	31	29	Ice	26	10	0	Light mist freezing to road surface
1-Jan-22	Plow	0	Salt	80	17	15	2	48	10	0	Plow and salt; snow continues
2-Jan-22	Plow	0	Salt	80	15	13	2	55	10	0	4 inches total from storm
5-Jan-22	Salt	200	Salt	80	19	24	1	30	10	0	Fluffy light snow and winds to 40 mph
5-Jan-22	Plow	0	Salt	80	14	13	1	30	10	0	Same storm
6-Jan-22	Plow	0	Salt	80	13	11	1	44	10	0	Same storm
15-Jan-22	Plow	300	Salt	80	26	25	1	30	10	0	Fast mover
23-Jan-22	Plow	0	Salt	80	13	10	3	45	9	0	3 inces overnight with ice build up under snow
24-Jan-22	Plow	0	Salt	80	15	13	2	40	10	0	Slippery road conditions
24-Jan-22	Plow	0	Salt	60	15	13	1	60	10	0	Same storm; required full clean-up
4-Feb-22	Plow	300	Salt	60	24	22	2	50	10	0	Fast mover
7-Feb-22	Salt	400	Salt	60	23	21	Ice	40	10	0	Spotty icing of roadway
10-Feb-22	Salt	400	Salt	60	24	21	1	27	9	0	Light dusting
11-Feb-22	Salt	200	Salt	50	34	32	1	45	9	0	1 inch overnight
18-Feb-22	Plow	0	Salt	60	15	15	2	36	9	0	Fast snow squall with low visibility
19-Feb-22	Plow	0	Salt	60	10	13	0	36	9	0	High winds and ice
21-Feb-22	Salt	0	Salt	80	34	32	Ice	40	10	0	Very icy
22-Feb-22	Salt	0	Salt	80	31	30	Ice	40	10	0	Ice
22-Feb-22	Plow	0	Salt	80	30	29	Sleet	40	10	0	Sleet from same storm
22-Feb-22	Plow	200	Salt	80	28	26	Ice	40	10	0	Re-freezing from same storm
23-Feb-22	Plow	0	Salt	60	15	13	Hard pack ice	36	9	0	Re-freezing from same storm
25-Feb-22	Plow	300	Salt	60	23	21	5	50	10	0	Overnight fast mover
25-Feb-22	Plow	100	Salt	30	32	31	Slush run	20	8	0	Melting
7-Mar-22	Plow	200	Salt	70	32	30	Start	45	10	0	Beginning of storm

Total Brine Used (gal)

4500

Total Salt Used (tons)

2060

Average Air Temp per Entry (deg F)

23.25

Average Pavement Temp. per Entry (deg F)

21

Number of Entries

28

Total Event Hours Worked

1123

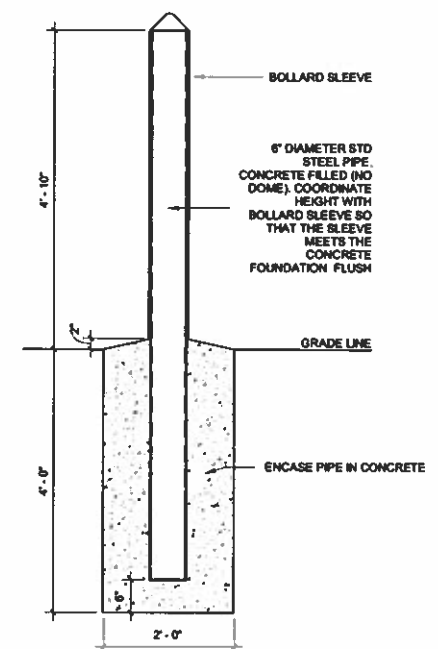
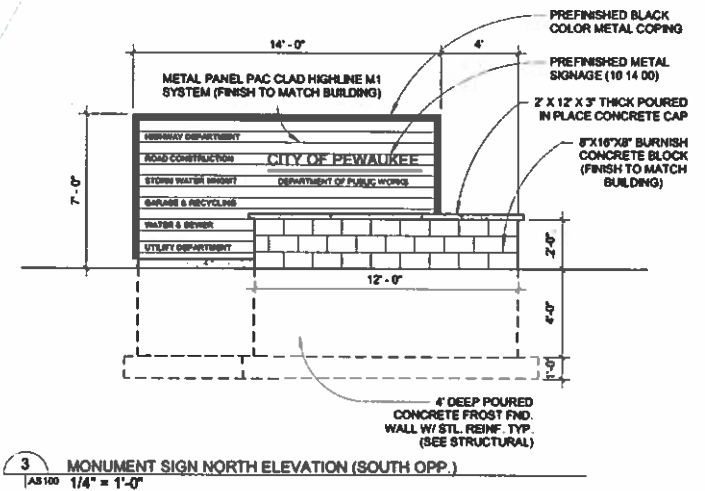
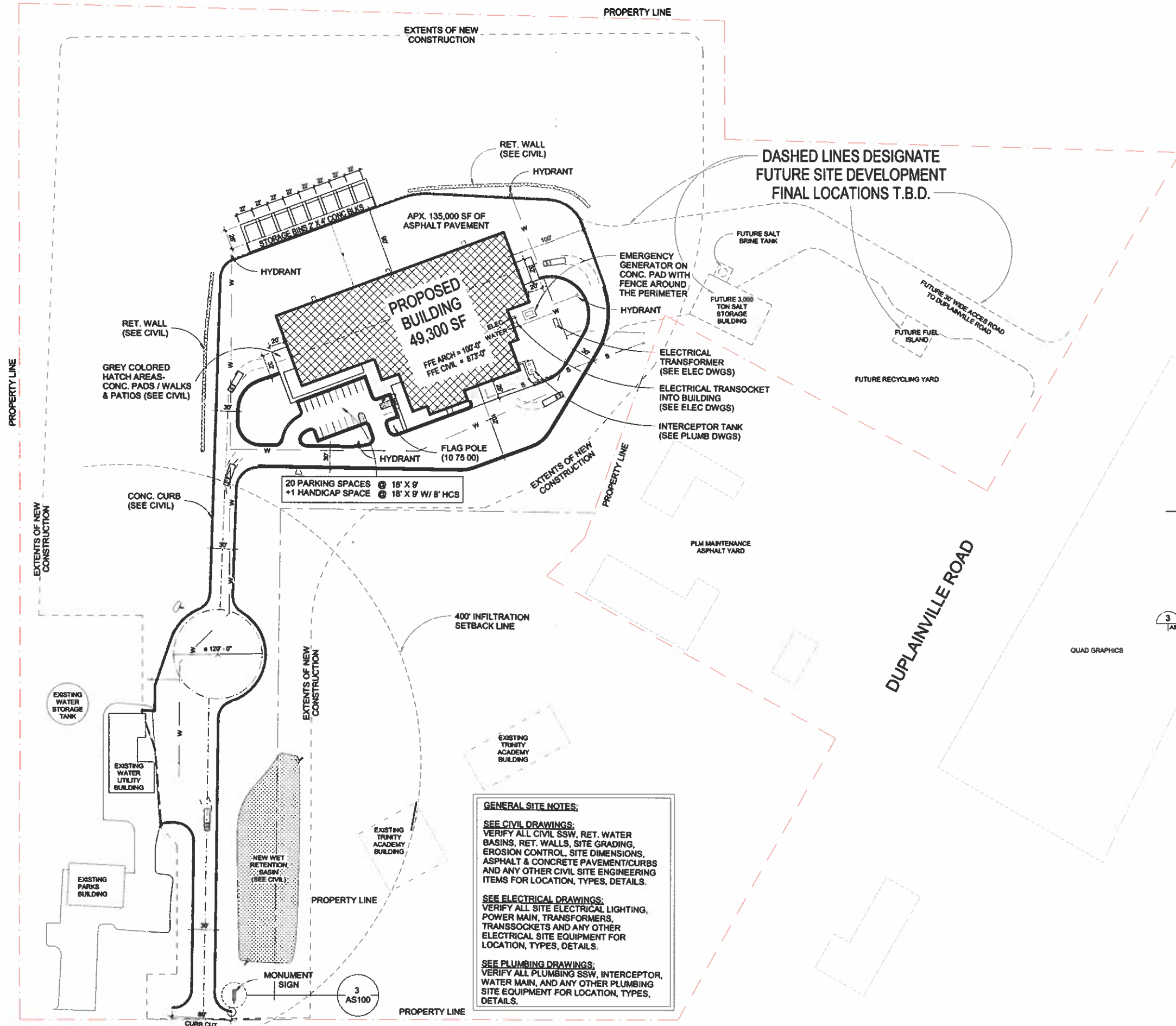
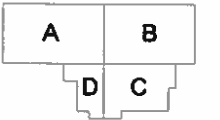
**Road Salt / Deicers Usage
City of Pewaukee
2020-2021**

Date(s) of Event	Activity	Salt Brine Used (gal)	Product Used (mix=salt/sand)	Amount of Product Used (Tons)	Air Temperature Range during event (°F)	Pavement Temperature Range during event (°F)	Precipitation Amount (inches)	Hours of Event (worked)	# of Drivers/# of Trucks	Hours of Post-Event Clean-Up	Other Information
	Brine	Salt									
October	0	0									
November	0	0									
December	1900	470									
January	500	700									
February	1900	820									
March	200	70									

Item C

Highway Garage Site Plan and Renderings

DRAFT



CITY OF PEWAUKEE DPW GARAGE

N31W22606 GREEN ROAD,
PEWAUKEE, WI 53072

NO.	DATE	DESCRIPTION
1	10/1/78	...
2	10/2/78	...
3	10/3/78	...
4	10/4/78	...
5	10/5/78	...
6	10/6/78	...
7	10/7/78	...
8	10/8/78	...
9	10/9/78	...
10	10/10/78	...
11	10/11/78	...
12	10/12/78	...
13	10/13/78	...
14	10/14/78	...
15	10/15/78	...
16	10/16/78	...
17	10/17/78	...
18	10/18/78	...
19	10/19/78	...
20	10/20/78	...
21	10/21/78	...
22	10/22/78	...
23	10/23/78	...
24	10/24/78	...
25	10/25/78	...
26	10/26/78	...
27	10/27/78	...
28	10/28/78	...
29	10/29/78	...
30	10/30/78	...
31	10/31/78	...

Copyright 2001 Bartlett Group

This drawing and/or content is not to be reproduced, changed, copied or assigned to any third party in any way or manner without first obtaining the expressed written consent of Services Design. The user agrees to indemnify and hold the Architect harmless from any damages, liability, or cost, including attorney's fees and costs of defense resulting from any changes or modifications made by anyone other than the Architect. The Owner or owner's agent shall be held harmless the Architect from any claims of damages or costs without the securing written consent of the Architect.

**BID PACKAGE II -
CD SET**

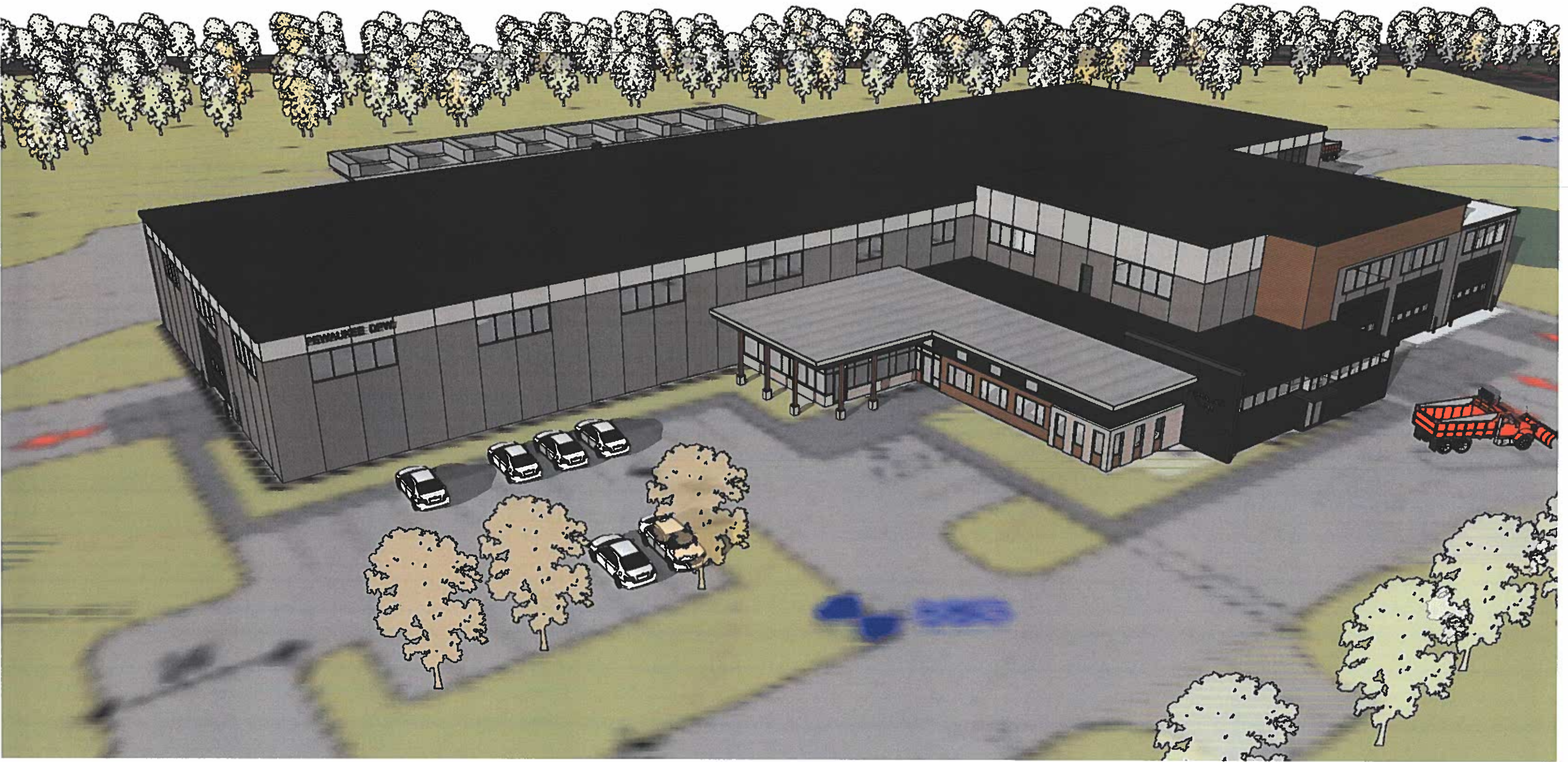
APPENDIX DESIGN PROJECT
0859

Date: 08/09/2021

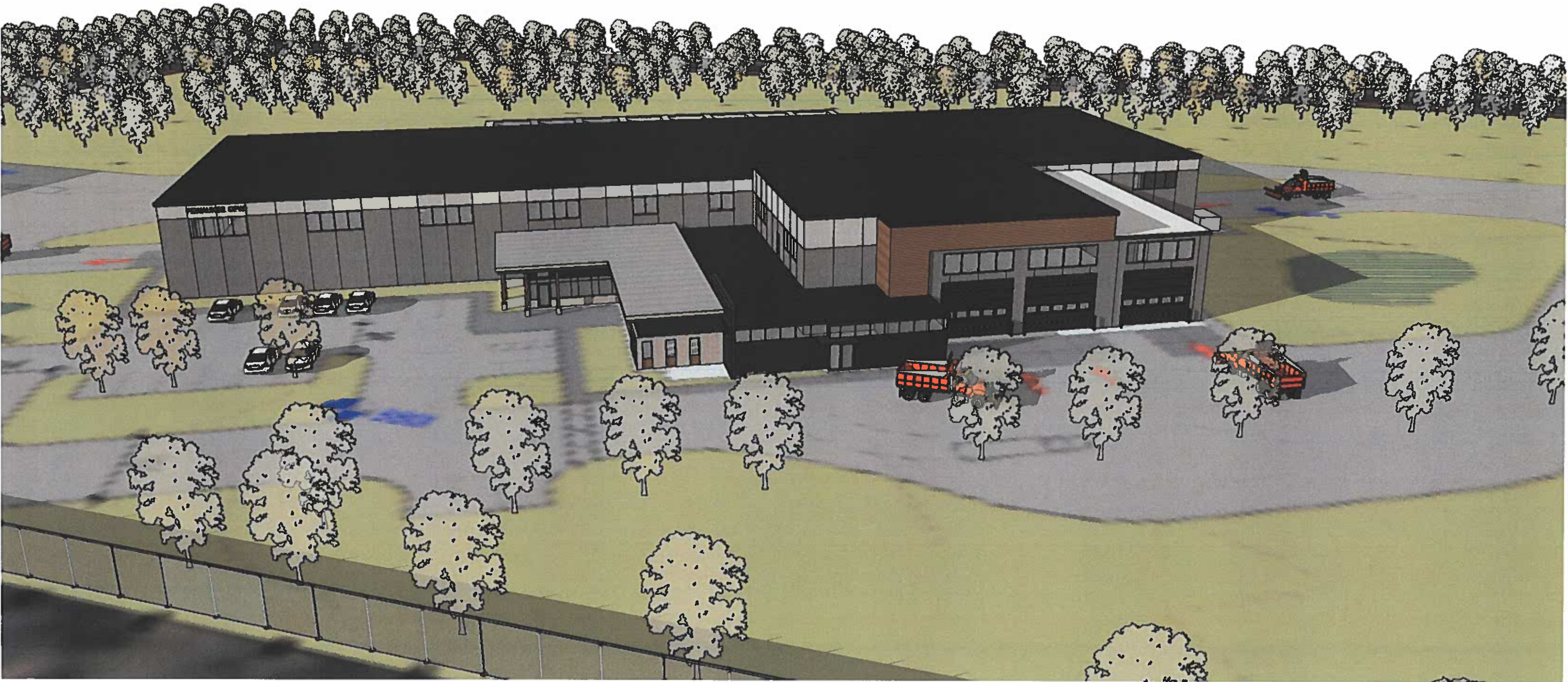
SITE PLAN

QUEST

.AS100







ITEM D

Fiscal Analysis Worksheets

DRAFT

Spreadsheet for Fiscal Analysis Portion of City of Pewaukee's 2021 MS4 Annual Report

	Budget for Reporting Year	Annual Expenditures for Reporting year	Budget for Upcoming Year
Public Education and Outreach	\$1,500.00	\$1,465.50	\$1,500.00
Public Involvement and Participation	\$1,500.00	\$1,465.50	\$1,500.00
Illicit Discharge Detection and Elimination	\$1,430.00	\$2,770.00	\$1,470.00
Construction Site Pollution Control	\$36,575.00	\$113,090.00	\$38,065.50
Post-Construction Storm Water Management	\$44,575.00	\$97,840.00	\$46,065.50
Pollution Prevention	\$824,815.10	\$1,231,841.24	\$692,439.64
Storm Water Quality Management	\$350,000.00	\$7,260.36	\$350,000.00
Storm Sewer System Map	\$5,000.00	\$0.00	\$5,000.00
Totals	\$1,265,395.10	\$1,455,732.60	\$1,136,040.64

Public Information and Outreach

Budget for Reporting Year	\$1,500.00
Expenditures for Reporting Year	\$1,465.50
Budget for Upcoming year	\$1,500.00

Budget item for reporting purposes is identified as Permit Compliance-Information and Education and includes contracted amount to Waukesha County. This dollar figure is half of the reported/budgeted number as the Public Involvement and Participation program is included in here as well.

Note: for upcoming year budget, dollars are estimated for reporting purposes and may not necessarily correspond to the City's Budget summary. DNR catagories do not correspond to City Budget Accounting Fields.

Public Involvement and Participation

Budget for Reporting Year	\$1,500.00
Expenditures for Reporting Year	\$1,465.50
Budget for Upcoming year	\$1,500.00

Budget item for reporting purposes is identified as Permit Compliance-Information and Education and includes contracted amount to Waukesha County. This dollar figure is half of the reported/budgeted number as the Public Education and Outreach program is included in here as well.

Note: for upcoming year budget, dollars are estimated for reporting purposes and may not necessarily correspond to the City's Budget summary. DNR catagories do not correspond to City Budget Accounting Fields.

Budget item for reporting purposes is an estimation of Engineering Technicians time and Civil Engineers time to inspect identified MS4 outfalls and review reports. Costs will include estimates of time spent pursuing spills/dumping complaints by Engineering Staff and by City Fire Services.

Budget for Reporting Year

Budget Upcoming Year

Engine cost assumed based on apparatus cost of 650,000 with 10 year life cycle and 100 hours of use per year.
Command Vehicle assumed based on cost of 49,613 with 8 year life cycle and 100 hours of use per year.
ALS Unit assumed based on cost of 350,000 with 7 year life cycle and 100 hours of use per year.
Mileage costs based on vehicle distance of 30 miles (expenditures) and 50 miles (budget) at mileage rate of 56 cents for 2021 and 58.5 cents for 2022.
Wages based upon hourly rate multiplied by 1.42 to account for benefits, etc.

Construction Site Pollutant Control Program

Note: The City's Construction Site Pollution Control Program includes compliance inspections, enforcement, erosion control plan review and permitting. The financial estimates contained in this spreadsheet are for construction sites over an acre only and do not include estimates of Building Inspection costs. Developer driven expenditures are generally billed back to the Developer. Budget dollars are taken from line items under "Permit Compliance" in the Storm Water Utility Budget (one half of Numbers 230-53656-51290 and 230-53656-51950 and all of 230-53656-53530).

Budget for Reporting Year \$36,575.00 **Budget for Upcoming Year** \$38,065.50

Annual Expenditures for Reporting Year \$113,090.00

Project		Wages	Hours	Total
Briohn Bldrs-Angulus Bldg Springdale Rd	R/M Bills			\$1,359.85
	AECOM Bills			\$0.00
	Engineer Tech	\$38.91	0.00	\$0.00
	Sr. Engineer Tech	\$42.42	0.00	\$0.00
	Civil Engineer	\$42.12	0.00	\$0.00
	Chief Engineer-Utilities	\$59.62	2.25	\$134.15
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
	DPW Director	\$77.34	0.00	\$0.00
	Total			\$1,494.00
Rainbow Childcare	R/M Bills			\$1,335.55
	AECOM Bills			\$0.00
	Engineer Tech	\$38.91	0.00	\$0.00
	Sr. Engineer Tech	\$42.42	0.00	\$0.00
	Civil Engineer	\$42.12	0.00	\$0.00
	Chief Engineer-Utilities	\$59.62	2.00	\$119.24
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
	DPW Director	\$77.34	0.00	\$0.00
	Total			\$1,454.79
Briohn Builders Northmound Bldg	R/M Bills			\$1,447.20
	AECOM Bills			\$0.00
	Engineer Tech	\$38.91	0.00	\$0.00
	Sr. Engineer Tech	\$42.42	0.00	\$0.00
	Civil Engineer	\$42.12	0.00	\$0.00
	Chief Engineer-Utilities	\$59.62	1.75	\$104.34
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
	DPW Director	\$77.34	0.00	\$0.00
	Total			\$1,551.54
Christ Evangelical Lutherine Church	R/M Bills			\$1,051.50
	AECOM Bills			\$0.00
	Engineer Tech	\$38.91	0.00	\$0.00
	Sr. Engineer Tech	\$42.42	0.00	\$0.00
	Civil Engineer	\$42.12	0.00	\$0.00
	Chief Engineer-Utilities	\$59.62	1.75	\$104.34
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
	DPW Director	\$77.34	0.00	\$0.00
	Total			\$1,155.84
Swan View Farms Ph. 1	R/M Bills			\$12,970.71
	AECOM Bills			\$0.00
	Engineer Tech	\$38.91	0.00	\$0.00
	Sr. Engineer Tech	\$42.42	0.00	\$0.00
	Civil Engineer	\$42.12	0.25	\$10.53
	Chief Engineer-Utilities	\$59.62	27.50	\$1,639.55
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
	DPW Director	\$77.34	0.00	\$0.00

				Total	\$14,620.79
Swan View Farms Ph. 2					
	Wages	Hours	Total		
R/M Bills			\$3,456.00		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	16.00	\$673.92		
Chief Engineer-Utilities	\$59.62	15.50	\$924.11		
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$5,054.03
Woodleaf Reserve Phase 3					
	Wages	Hours	Total		
R/M Bills			\$0.00		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	0.00	\$0.00		
Chief Engineer-Utilities	\$59.62	0.00	\$0.00		
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$0.00
Glen of Parkway Ridge					
	Wages	Hours	Total		
R/M Bills			\$9,597.77		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	0.50	\$21.06		
Chief Engineer-Utilities	\$59.62	10.25	\$611.11		
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$10,229.94
James Craig Builders-Swan Road					
	Wages	Hours	Total		
R/M Bills			\$0.00		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	0.00	\$0.00		
Chief Engineer-Utilities	\$59.62	0.00	\$0.00		
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$0.00
Baenen_Northview Road					
	Wages	Hours	Total		
R/M Bills			\$0.00		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	0.00	\$0.00		
Chief Engineer-Utilities	\$59.62	1.25	\$74.53		
Chief Engineer-Roads/Develop	\$55.71	4.75	\$264.62		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$339.15
Klein Dickert Glass					
	Wages	Hours	Total		
R/M Bills			\$1,718.65		
AECOM Bills			\$0.00		
Engineer Tech	\$38.91	0.00	\$0.00		
Sr. Engineer Tech	\$42.42	0.00	\$0.00		
Civil Engineer	\$42.12	0.00	\$0.00		
Chief Engineer-Utilities	\$59.62	2.50	\$149.05		
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00		
DPW Director	\$77.34	0.00	\$0.00		
				Total	\$1,867.70
Oak and Peninsula Road Project and Water Main					
	Wages	Hours	Total		
R/M Bills			\$9,045.00		
AECOM Bills			\$0.00		

Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	0.00	\$0.00
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$9,045.00
Green Acres LLC Office Building			
R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	3.50	\$147.42
Chief Engineer-Utilities	\$59.62	6.00	\$357.72
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$505.14
Pewaukee Industrial South			
R/M Bills			\$8,288.05
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.25	\$10.53
Chief Engineer-Utilities	\$59.62	15.00	\$894.30
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$9,192.88
Waters Senior Living			
R/M Bills			\$7,950.97
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	38.00	\$1,600.56
Chief Engineer-Utilities	\$59.62	41.25	\$2,459.33
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	3.75	\$290.03
Total			\$12,300.88
Woodleaf Reserve Phase 4			
R/M Bills			\$10,636.80
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.25	\$10.53
Chief Engineer-Utilities	\$59.62	12.00	\$715.44
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$11,362.77
Emerald Acres Flood Mitigation			
R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	8.00	\$339.36
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	4.00	\$238.48
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$577.84
Zigzag Repair Building			
R/M Bills			\$8,589.91
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.25	\$10.53
Chief Engineer-Utilities	\$59.62	9.25	\$551.49
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00

DPW Director	\$77.34	0.00	\$0.00	
Total				\$9,151.93
Roundy's Cricle/Amazon				
	Wages	Hours	Total	
R/M Bills			\$2,983.60	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	9.00	\$379.08	
Chief Engineer-Utilities	\$59.62	12.00	\$715.44	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$4,078.12
Lakewood Bapt. Church Expansion				
	Wages	Hours	Total	
R/M Bills			\$1,254.42	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	14.75	\$621.27	
Chief Engineer-Utilities	\$59.62	11.75	\$700.54	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$2,576.23
Greenland/Cardinal Meadow Subd.				
	Wages	Hours	Total	
R/M Bills			\$4,218.80	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	6.50	\$273.78	
Chief Engineer-Utilities	\$59.62	9.50	\$566.39	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$5,058.97
Woodleaf Reserve Phase 5				
	Wages	Hours	Total	
R/M Bills			\$1,304.66	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	11.00	\$463.32	
Chief Engineer-Utilities	\$59.62	18.00	\$1,073.16	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$2,841.14
J & R Dreamfields				
	Wages	Hours	Total	
R/M Bills			\$0.00	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	1.50	\$63.18	
Chief Engineer-Utilities	\$59.62	1.25	\$74.53	
Chief Engineer-Roads/Develop	\$55.71	0.75	\$41.78	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$179.49
Yench/Lynndale CSM				
	Wages	Hours	Total	
R/M Bills			\$0.00	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	1.75	\$73.71	
Chief Engineer-Utilities	\$59.62	0.00	\$0.00	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
Total				\$73.71
Century Fence Storage Area				
	Wages	Hours	Total	
R/M Bills			\$905.28	
AECOM Bills				
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	0.25	\$10.53	

Chief Engineer-Utilities	\$59.62	6.75	\$402.44
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00

Total **\$1,318.25**

Paul Road/Joseph Road Water Main Relay and Road project

	Wages	Hours	Total
R/M Bills			\$3,807.00
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	0.00	\$0.00
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00

Total **\$3,807.00**

DPW Highway Garage

	Wages	Hours	Total
R/M Bills			\$0.00
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	9.00	\$381.78
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	48.00	\$2,861.76
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00

Total **\$3,243.54**

Post Construction Storm Water Management

Note: The City's Post Construction Site Storm Water Management Program includes pond inspections, review of maintenance agreements, plan review and permitting. Estimates are provided for Engineer Tech's review of Wagner Park Ponds and Civil Engineer's review of the Green Road Pond, the Pewaukee Sports Complex Ponds, City Hall Bio-infiltration device and the Rockwood Drive Pond. Developer driven expenditures are generally billed back to the Developer. Budget dollars are taken from line items under "Permit Compliance" in the Storm Water Utility Budget (one half of Numbers 230-53656-51290 and 230-53656-51950 and all of numbers 230-53656-52150 and 230-53656-53510).

Budget for Reporting Year \$44,575.00 **Budget for Upcoming Year** \$46,065.50

Annual Expenditures for Reporting Year \$97,840.00

Project	Green Acres LLC Office Building	Wages	Hours	Total	
	AECOM Bills			\$4,238.97	
	Engineer Tech	\$38.91	0.00	\$0.00	
	Sr. Engineer Tech	\$42.42	0.00	\$0.00	
	Civil Engineer	\$42.12	3.50	\$147.42	
	Chief Engineer-Utilities	\$59.62	6.25	\$372.63	
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
	DPW Director	\$77.34	0.00	\$0.00	
	Total				\$4,759.02
	Yench/Lynddale CSM	Wages	Hours	Total	
	AECOM Bills			\$2,910.90	
	Engineer Tech	\$38.91	0.00	\$0.00	
	Sr. Engineer Tech	\$42.42	0.00	\$0.00	
	Civil Engineer	\$42.12	1.75	\$73.71	
	Chief Engineer-Utilities	\$59.62	1.00	\$59.62	
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
	DPW Director	\$77.34	0.00	\$0.00	
	Total				\$3,044.23
	Greenland/Cardinal Meadow Subd.	Wages	Hours	Total	
	AECOM Bills			\$4,468.14	
	Engineer Tech	\$38.91	0.00	\$0.00	
	Sr. Engineer Tech	\$42.42	0.00	\$0.00	
	Civil Engineer	\$42.12	6.50	\$273.78	
	Chief Engineer-Utilities	\$59.62	5.50	\$327.91	
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
	DPW Director	\$77.34	0.00	\$0.00	
	Total				\$5,069.83
	Lakewood Bapt. Church Expansion	Wages	Hours	Total	
	AECOM Bills			\$11,492.70	
	Engineer Tech	\$38.91	0.00	\$0.00	
	Sr. Engineer Tech	\$42.42	0.00	\$0.00	
	Civil Engineer	\$42.12	14.25	\$600.21	
	Chief Engineer-Utilities	\$59.62	11.50	\$685.63	
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
	DPW Director	\$77.34	0.00	\$0.00	
	Total				\$12,778.54
	Swan View Farms Ph 2	Wages	Hours	Total	
	AECOM Bills			\$15,816.66	
	Engineer Tech	\$38.91	0.00	\$0.00	
	Sr. Engineer Tech	\$42.42	0.00	\$0.00	
	Civil Engineer	\$42.12	15.25	\$642.33	
	Chief Engineer-Utilities	\$59.62	12.50	\$745.25	
	Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
	DPW Director	\$77.34	0.00	\$0.00	
	Total				\$17,204.24

Roundy's Cricle/Amazon			
	Wages	Hours	Total
AECOM Bills			\$11,387.88
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	8.75	\$368.55
Chief Engineer-Utilities	\$59.62	10.25	\$611.11
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$12,367.54
Baenen_Northview Road			
	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	1.50	\$89.43
Chief Engineer-Roads/Develop	\$55.71	4.75	\$264.62
DPW Director	\$77.34	0.00	\$0.00
Total			\$354.05
Pewaukee Industrial South			
	Wages	Hours	Total
AECOM Bills			\$2,226.93
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	7.00	\$417.34
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$2,644.27
Waters Senior Living			
	Wages	Hours	Total
AECOM Bills			\$29,997.51
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	37.50	\$1,579.50
Chief Engineer-Utilities	\$59.62	36.25	\$2,161.23
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	3.75	\$290.03
Total			\$34,028.26
Woodleaf Reserve Phase 4			
	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	0.00	\$0.00
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$0.00
Woodleaf Reserve Phase 5			
	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	10.75	\$452.79
Chief Engineer-Utilities	\$59.62	17.75	\$1,058.26
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$1,511.05
Swan View Farms Ph 1			
	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	2.00	\$84.24
Chief Engineer-Utilities	\$59.62	0.00	\$0.00
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00

DPW Director	\$77.34	0.00	\$0.00	
				Total \$84.24
Klein Dickert Glass				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	0.00	\$0.00	
Chief Engineer-Utilities	\$59.62	0.75	\$44.72	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$44.72
Green Road Pond Inspection				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	1.50	\$63.18	
Chief Engineer-Utilities	\$59.62	0.00	\$0.00	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$63.18
Sports Complex Pond Inspections				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	7.00	\$294.84	
Chief Engineer-Utilities	\$59.62	0.00	\$0.00	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$294.84
Rockwood Drive Pond Inspection				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	3.00	\$126.36	
Chief Engineer-Utilities	\$59.62	0.00	\$0.00	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$126.36
Wagner Park Pond Inspections				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	2.75	\$107.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	0.00	\$0.00	
Chief Engineer-Utilities	\$59.62	3.00	\$178.86	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$285.86
City Hall Biofiltration Device				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	
Civil Engineer	\$42.12	1.50	\$63.18	
Chief Engineer-Utilities	\$59.62	0.00	\$0.00	
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00	
DPW Director	\$77.34	0.00	\$0.00	
				Total \$63.18
Glen at Parkway Ridge				
	Wages	Hours	Total	
AECOM Bills			\$0.00	
Engineer Tech	\$38.91	0.00	\$0.00	
Sr. Engineer Tech	\$42.42	0.00	\$0.00	

Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	2.75	\$163.96
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$163.96

J & R Dreamfields	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	1.50	\$89.43
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$89.43

DPW Highway Garage	Wages	Hours	Total
AECOM Bills			\$0.00
Engineer Tech	\$38.91	0.00	\$0.00
Sr. Engineer Tech	\$42.42	0.00	\$0.00
Civil Engineer	\$42.12	0.00	\$0.00
Chief Engineer-Utilities	\$59.62	48.00	\$2,861.76
Chief Engineer-Roads/Develop	\$55.71	0.00	\$0.00
DPW Director	\$77.34	0.00	\$0.00
Total			\$2,861.76

Pollution Prevention

	2021 Budgeted	2021 Expenditure	2022 Budgeted
Catch Basin Cleaning and Maintenance	\$45,000.00	\$20,467.00	\$44,000.00
Storm Inlets and Catch Basins	\$250,000.00	\$641,929.05	\$75,000.00
Street Sweeping	\$21,000.00	\$23,485.06	\$22,850.00
Ditch and Culvert Maintenance	\$272,796.00	\$219,944.56	\$293,925.00
Storm Sewer Maintenance	\$133,518.00	\$235,978.25	\$151,859.00
Yard Maintenance	\$10,000.00	\$0.00	\$10,000.00
Yard Waste Recycling	\$92,501.10	\$90,037.32	\$94,805.64
Totals	\$824,815.10	\$1,231,841.24	\$692,439.64

Items reported here were typically broken out in the budget. Yard Maintenance used to be found under Permit Compliance. Storm Inlets and Catch Basins was found under Storm Water Projects. Yard Waste Recycling was taken as a fraction of the budgeted and actual expenditures from Refuse Collection and Recycling (10.307% of totals). Actual expenditures for Storm Sewer Maintenance include expenses the Roundy's Industrial Park #2 (420-57422-58210) and Spice Creek/Meadowbrook Farms #1 (420-57554-58210) for storm sewer lining and half the curb repair. Actual expenditures for Storm Inlets and Catch Basins include expenses from Spice Creek/Meadowbrook Farms #1 (420-57554-58210) for inlet repair and curb repair.

Storm Water Quality Management

Budget for Reporting Year	\$350,000.00
Expenditures for Reporting Year	\$7,260.36
Budget for Upcoming year	\$350,000.00

Storm Water Quality Management within the permit is the maintenance of the City's pollution reduction total at the time the law was changed to negate the 40% requirement. As there is no budget line item for this, I have included the budgeted costs for a new Storm Water Study found under Projects (230-57340-58210). This would include a complete remodel for water quality purposes. Expenditures for the reporting year were for the City's application for a Storm Water Management Planning Grant through the Wisconsin Department of Natural Resources.

Storm Sewer System Mapping

Budget for Reporting Year	\$5,000.00
Expenditures for Reporting Year	\$0.00
Budget for Upcoming year	\$5,000.00

Storm Sewer System Mapping is lumped within Storm Sewer Maintenance budget category. The breakout for this is under 230-53651-53520 within the budget software General Ledger. Dollars shown here have been removed from the Storm Sewer Maintenance category.

Item E

City of Pewaukee MS4 Program Audit Summary

DRAFT



February 22, 2022

Magdelene Wagner
City of Pewaukee
W240 N3065 Pewaukee Road
Pewaukee, WI 53072

Subject: City of Pewaukee MS4 Permit Program Audit Summary
WPDES Permit No. WI-SO50105-3 MS4 Permit

Dear Magdelene Wagner,

On September 8th, 2021, Department of Natural Resources (Department) staff met with City of Pewaukee (City) staff to evaluate implementation of the City's Municipal Separate Storm Sewer System (MS4) Permit Program. During the evaluation, the Department identified "Required Actions" and "Recommendations" as reflected in Table 1 of the enclosed summary. The "Required Actions" listed in the table are necessary to comply with the permit. Please review this information carefully as it is intended to help inform the City's internal processes and procedures to improve overall consistency and effectiveness of the MS4 Permit Program.

This evaluation was conducted through the Department's authority under Permit Section IV.K and focused on the City's implementation of the following program elements:

Illicit Discharge Detection and Elimination
Construction Site Pollutant Control
Pollution Prevention

The evaluation was attended by:

Department Staff

Samantha Katt – Storm Water Specialist
Jacob Zimmerman – Storm Water Engineer

City Staff

Maggie Wagner – Director of Public Works and City Engineer
Rich Wirtz – Chief Engineer
Brian Leightner – Engineer
Jeff Faber – Engineer
Matt Stevens – Street Superintendent
Dan Neubauer – Parks Maintenance Supervisor

Please provide a written response within forty-five (45) calendar days of receipt of this letter addressing efforts on behalf of the City to resolve any issues described in the summary. This response should include both completed and proposed action items as well as a proposed schedule. Please feel free to annotate Table 1 with your responses for this purpose.

Thank you for your cooperation with the Department's Municipal Storm Water Management Program. If you have any questions or concerns regarding this letter, then please contact me at (414) 522-0073 or samantha.katt@wisconsin.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Samantha Katt', with a stylized, flowing script.

Samantha Katt
Storm Water Specialist
Watershed Bureau

Enclosure: City of Pewaukee MS4 Program Audit Summary Report w/exhibits

TABLE OF CONTENTS

BACKGROUND	2
Audit Overview.....	2
ILLCIT DISCHARGE DETECTION AND ELIMINATION PROGRAM	3
Overview.....	3
Required Actions	4
CONSTRUCTION SITE POLLUTANT CONTROL PROGRAM.....	6
Overview.....	6
Recommendations.....	7
POLLUTION PREVENTION PROGRAM	8
Overview.....	8
Required Actions	9
Recommendations.....	10
TABLE 1.....	11
EXHIBITS	12

BACKGROUND

The City of Pewaukee was first permitted in November 2004 under the Department's Storm Water Municipal Group Permit, WPDES Permit No. WI-SO50105-1, along with co-permittees City of Waukesha, the Villages of Pewaukee and Sussex, and Towns of Brookfield, Delafield, Lisbon, and Waukesha. The MS4 permit was reissued coverage under WPDES Permit No. WI-SO50105-2 in October 2009, and again in December 2014 under WPDES Permit No. WI-SO50105-3. The Village's current MS4 permit, WPDES Permit No. WI-SO50105-3, is provided in Exhibit A.

According to the US Census Bureau's webpage, the City is approximately 19.5 square miles and has experienced a positive population growth of 10.9% from 2010 to 2019 (estimated population in 2010 was 13,190 with a population density of 676.4 per square mile; and 14,631 in 2019 with a population density of 750.3 per square mile). The City, found within the Upper Fox River Watershed, contains a mix of residential, commercial, industrial, and many natural resource areas.

Completed in 2011, the City's pollutant loading analysis showed the City is achieving developed urbanized area performance standards as required by s. NR 151.13 Wis. Admin. Code reporting a 32% TSS reduction¹. A copy of this report is provided in Exhibit B.

Audit Overview

As part of the audit, the Department requested the City submit specific documentation pertaining to the MS4 Permit Program according to Permit Part IV.L: Duty to Provide Information. During this request, it was noted these documents were to be discussed specifically with the City staff implementing them during the audit. The purpose of these discussion was to 1) obviate any inconsistencies between documented procedures and program implementation, 2) identify areas where program implementation is deficient in meeting the minimum permit requirements, 3) identify areas where the City is improving or excelling at MS4 program implementation, and 4) clear up any concerns or questions regarding a permit requirement, purpose and intent, and implementation.

The MS4 audit occurred September 8, 2021 and consisted of in-office discussions and field inspections. See Exhibit C for audit agenda, locations of the activities, and attendees.

¹ The City is achieving a 32% TSS reduction utilizing roadside grassed swales and City-owned wet detention ponds. This report explains a 59% TSS reduction could be achieved if the City obtained maintenance authority on the numerous privately owned wet ponds.

ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

Overview

To comply with MS4 Part II.C, the City is required to implement a program to detect and remove illicit connections and discharges to the municipal separate storm sewer systems. The program shall maintain and enforce the municipal ordinance regarding the prevention and elimination of illicit discharges and illicit connections to the MS4, include an on-going dry weather field screening of outfalls, and contain a procedure for responding to, with the ultimate goal of eliminating, known or suspected illicit discharges.

Illicit Discharge City Ordinance

The City's ordinance regarding the prevention and elimination of illicit discharges and illicit connections to the MS4 is located in Section 19.20 of the City's Municipal Code. A copy of the ordinance can be found within Exhibit D. The ordinance defines and prohibits illicit discharges and illicit connections, identifies non-storm water discharges or flows that are not considered illicit discharges, and provides inspection and enforcement authority.

Dry-weather Outfall Screening Procedure

The City is required to conduct dry-weather outfall screenings at all priority outfalls at least once per year and all other major (non-priority) outfalls at least once every five years. Field screenings shall include a narrative description of visual observations including color, odor, turbidity, oil sheen or surface scum, flow rate or any other relevant observations regarding the potential presence of illicit discharges. If flow is observed, a field analysis shall be conducted to determine the presence of illicit discharges and shall include testing for one or more indicator parameters (e.g., ammonia, detergents, pH, chlorine, copper, or phenol) or by conducting video, smoke, or dye testing in the storm sewer system.

Jeff Faber, City Engineer, is the main person responsible for conducting dry-weather outfall screenings. Twice per year (once in May or June, the second time in July or August), Faber inspects each of the 20 MS4 outfalls identified as major. Each outfall is screened and documented for visual observations; however, it was said during the audit that some outfalls with flow are not tested as the flow from these outfalls are assumed to be base flow. Consequently, though the City has a test kit, the test kit is said to not be brought to dry-weather screenings as it is never used.

Though it hasn't occurred in recent years, if a screening showed signs of a potential illicit discharge², Faber said he would attempt to locate the source and notify Maggie Wagner (the City's Director of Public Works/City Engineer) and/or Rich Wirtz (the City's Chief Engineer). Wagner and Wirtz are ultimately responsible for continuing the investigation and elimination – this includes assigning the most appropriate person to investigate the potential illicit discharge, notify appropriate parties (e.g., neighboring municipalities, DNR, violating party, etc.), documentation, and enforcement.

If an illicit discharge or connection is found, the City may order compliance by written notice of

² In the event of a hazardous substance, Pewaukee Fire Department would be contacted and is responsible for further investigation and elimination.

violation to the responsible person. Enforcement mechanisms include cease and desist within 72 hours, abatement or remediation of storm water pollution or contaminated hazards and the restoration of any affected property, and forfeitures for each day of the violation and costs of prosecution.

Response to Known or Suspected Illicit Discharges

To comply with the permit, the City shall conduct a field investigation in the contributing drainage area within 24 hours after a known or suspected illicit discharge is detected or reported. If the source is found, the City is required to take appropriate action to remove the illicit discharge as soon as practicable but no later than 30 days. If the source cannot be found, the associated outfall shall be added to the list of priority outfalls for on-going dry weather screening. If indirect sources, such as sanitary leakage or contaminated groundwater are suspected, the City shall develop and implement a strategy to locate and eliminate these sources. If the City plans to conduct a dye test, identifies a spill or release of a hazardous substance which has resulted or may result in the discharge to waters of the state, or identifies an illicit discharge that originates from or discharges to another MS4, they shall notify the Department and/or appropriate municipality.

Noted on past MS4 Annual Reports and discussed during the audit, detection or reports of known or suspected illicit discharges are uncommon. However, the public can report known or suspected illicit discharges by calling the City or filling out an online form – these reports are directed to Wirtz. Wirtz tracks the complaints and writes the summary reports that are submitted to the Department. As with known or suspected illicit discharges found during dry-weather outfall screenings, the City Engineer is the main person responsible for continuing the investigation, elimination, and enforcement.³

Required Actions

After the audit, Department and City staff had further discussions concerning the City's major outfalls with observed flow which are not undergoing field analysis (i.e., tested for indicator parameters and/or conducting a video, smoke, or dye test). Outfall P14-5 was specifically discussed however, other major outfalls may be similar. Through this discussion, it was determined that while the screening location for P14-5 may fit the definition of major, due to hydrological and other physical conditions such as vegetation, it is not the most effective location to screen for potential illicit discharges. Similar to the *submerged outfalls* and *storm water practices* scenarios in the Department's Illicit Discharge Detection and Elimination Guidance⁴, it is recommended screening occur upstream where there is less background influence which may mask the presence of an illicit discharge. The City should re-evaluate screening locations using the considerations provided in Permit Part II.C.1 and the Department's Illicit Discharge Detection and Elimination Guidance. If flow is observed at these revised

³ Local police and fire departments are the primary people responsible for responding to hazardous spills, such as gasoline resulting from a car accident. Discussions pertaining to the City's response (e.g., investigation, elimination, and enforcement) to known or suspected hazardous discharges do not necessarily reflect their response to these hazardous discharges.

⁴ The Department's IDDE Guidance and other publications can be found here:
<https://dnr.wisconsin.gov/topic/Stormwater/publications.html>

locations during screening, the City must conduct a field analysis according to the permit to determine the presence of illicit discharges.

Provided in Exhibit E, the City's storm sewer system map does not identify MS4 outfalls. To comply with Permit Part II.H.2, the City must revise their map to identify all MS4 outfalls. Noting that screening locations should be re-evaluated, the Department is requesting the City submit a map identifying the current screening locations. After screening locations have been re-evaluated, a revised map shall be submitted to the Department with the Annual Report as required by Permit Part II.I.2.

CONSTRUCTION SITE POLLUTANT CONTROL PROGRAM

Overview

To comply with MS4 Part II.D, the City is required to implement and enforce a program consistent with all permit conditions. At a minimum, this includes: maintaining inspection and enforcement authority; enforcing permitting requirements, procedures, and fees, reviewing and approving plans with design criteria, standards, and specifications that meet or exceed the technical standards approved by the Department; update and enforce the ordinance to incorporate s. NR 151 Wis. Adm. Code requirements by March 31, 2016; conduct erosion control inspections at all permitted sites according to their program; and maintain records of erosion control inspections and any enforcement actions taken.

The City's requirements for construction site erosion control are located in Section 19.11 of the City's Municipal Code. It includes s. NR 151 Wis. Adm. Code requirements and describes other aspects of the construction program like persons responsible and available enforcement mechanisms. A copy of the ordinance can be in Exhibit D. The City also has a written program procedure which provides much more detail and example templates used to implement the program, a copy of this is provided in Exhibit F.

Applicants intending to develop in the City of Pewaukee can find information on design standards and permitting process on the City's website, the City will also send this information to the applicant. Plans for sites that will disturb one acre or more of soil are sent to the City's Engineering Department where the City's Chief Engineer, Rich Wirtz, reviews plans. If Wirtz has comments about the plan, he electronically marks the plan and sends it back to the developer. After comments have been addressed, Wirtz issues the permit. Pre-construction meetings are usual but do not always occur as part of the permitting process. During the permitting process, the City also informs the applicant to apply for a DNR construction permit.

Consultants from the engineering firm Ruekert & Mielke, Inc. are the main persons responsible for conducting construction site inspections. Inspections occur weekly and after ½ inch rain events. Inspectors submit inspection reports to Wirtz for review and will notify him of any egregious or outstanding noncompliance. If noncompliance issues are noted, the City typically compels compliance using noncompliance letters (NON) followed by notice of violation letters (NOV). The NON identifies the problem(s) to be resolved and a time frame for its resolution and is proceeded with a follow up inspection to verify problem(s) have been addressed. If the problem(s) identified have not been resolved, the City will issue a NOV. The NOV identifies the problem(s) to be resolved in an expected time frame, informs the responsible party that financial penalties are being assessed for each day the problem(s) remain unresolved, and identifies the date which fines will begin. A follow up inspection is also performed to verify problem(s) have been addressed. NON and NOV are typically all that is required to bring a construction site back into compliance, however, the City also has the authority to issue citations and stop-work orders, and perform the necessary work to return the site to compliance charging back the cost to the developer, using the collected security deposit bond, or collecting the costs via a special assessment against the property on the tax roll.

Recommendations

Verified through the audit process and through various WPDES permitted construction site compliance checks completed by the Department, the City is following their written procedure as described. The Department is highly encouraged by the City's construction site pollutant control program and only recommends the City continue current procedures.

POLLUTION PREVENTION PROGRAM

Overview

To comply with MS4 Part II.F, the City is required to implement and enforce a program that is consistent with all permit conditions. In general, pollution prevention activities can be grouped into six areas: inspection, maintenance, and inventory of post-construction storm water management facilities⁵; storm water pollution prevention for municipal garages, storage areas, and other municipal owned sources of storm water pollution; proper management of collected leaves and grass clippings, catch basin cleaning, and street sweeping materials; winter road management, and turf management.

Inspection, maintenance, and inventory of post-construction storm water management facilities

During the audit, it was said City Engineers (Wirtz and/or Brian Leightner), inspect nine BMPs once per year, either in the fall or spring. However, there are more than nine BMPs in the community. In 2010, the City identified approximately 190 BMPs using air photos (inventory is provided in Exhibit G) however, this inventory must still be verified. Deficiencies surrounding required documentation for this permit section (e.g., a verified and complete BMP inventory, long-term maintenance agreement for private BMPs, inspection results such, maintenance logs, etc.) was discussed.

As part of the audit, a City owned BMP, a wet pond located at Wagner Park, was inspected – Department photographs of the inspection are available upon request. Overall, both Department and City staff determined maintenance was required – slumping on the banks need repairing and muskrats must be removed to prevent further damage. While at this pond, Department and City staff discussed the important of maintaining BMPs (i.e., for effective storm water treatment) and the importance of creating a maintenance schedule. In other words, the Department understands the City has multiple matters to attend to and every project cannot be completed immediately, however, a schedule, maintenance plan, or another commitment to action must be in place to provide assurance BMPs, will be maintained. If BMPs are not maintained the City may stand to lose the pollutant reduction credit from the corresponding controls, necessitating the need for construction of additional controls to meet permit requirements.

Storm water pollution prevention for municipal owned sources

The City has one property requiring a storm water pollution prevention plan (SWPPP) – the DPW yard located at W240N3065 Pewaukee Road – adjacent to City Hall. Last updated in 2015, the SWPPP appears adequate for existing site activities – a copy of the original SWPPP with revisions is provided in Exhibit H. Overall, the DPW Yard appeared to be well organized and maintained. Salt is stored inside of a covered storage shed, the majority of equipment is stored inside storage buildings, and materials stored outside are limited (additionally, materials appear to leave the site quickly which limits their potential to generate storm water pollution. Department photographs of the inspection are available upon request.

⁵ Also referred to as storm water management controls or BMPs.

As the City is in the process of constructing a new DPW Yard, the Department provided a few temporary BMP recommendations (e.g., perimeter controls surrounding stockpiled materials) for current site and site activities.

Collected Materials: Leaf Collection, Street Sweeping, and Catch Basin Cleanings

The City of Pewaukee does not collect residential leaves. However, residents can bring leaves to the City Recycling Center (located within the DPW Yard adjacent to City Hall). Though atypical, if residential leaves are found pushed onto the street, the City sends a letter to the property owner requesting the leaves be removed.

Street sweeping in the City occurs three times per year: once after the winter thaw (March or April), a second time in June or July, and a third time in late fall (after leaves drop). During the late fall sweep, the areas around the lake are swept four or five times. Currently, street sweeping material is brought to the DPW Yard for temporary storage before being brought to the Emerald Park Landfill for final disposal. The City has plans to buy a new street sweeper in the near future which will discharge collected material directly to a dumpster, thus eliminating the need to stage material on the ground at the DPW Yard.

The City cleans catch basins at least once per year and, like street sweeping, concentrates on areas surrounding the lake. Since cleaning all of the catch basins is said to take weeks, the City follows a route (similar to a plow or street sweeping route) to track which basins have been cleaned. Catch basin materials are staged and disposed with street sweeping materials.

Winter Road Management

The City Street Superintendent, Matt Stevens, is the main person responsible for winter road management and is responsible for determining application rates (typically starting at 100 pounds per lane mile and may go up to 400 pounds per lane mile) and products (salt, brine, and pre-wetting). Trucks are calibrated each year by the City's mechanic and quantity and type of deicing products used are tracked per storm event. Storm event (e.g., duration, event type, temperature) are also tracked which Stevens uses to better determine application rates and products for each storm.

Turf Management

Required under Permit Part II.F.8, nutrient management plans based on appropriate soil tests are required on all municipally controlled properties (e.g., parks, athletic fields, golf courses, lawns, etc.) over five acres of pervious area which receive fertilizer. The City contracts with TruGreen to apply fertilizer once per year.

Required Actions

To comply with the MS4 permit, the City's program shall be consistent with permit conditions listed in Part II.F. The City's areas of non-compliance are listed below.

Storm Water Management Facilities Inspection and Maintenance

The City must inspect, maintain, and inventory post-construction management facilities (BMPs) according to permit conditions. As indicated by the submitted materials (e.g., revision to the 2010 inventory, copies of existing maintenance agreements, as-builts, etc.), the City is aware of

the documentation deficiencies and has begun gathering missing information. The Department recommends the City focus their efforts on BMPs utilized in their pollutant reduction analysis (i.e., the BMPs the City is utilizing for “credit”) first and requests the City provide the name, type, year built, location, last date of inspection, ownership (if privately-owned, confirmation if long-term maintenance agreement exists) for these BMPs.

As previously discussed, City staff recognize maintenance is needed on BMPs. To provide reasonable assurance the BMPs will be maintained, the City should develop a schedule, a maintenance plan, or other form of commitment to BMP maintenance. If BMPs are not maintained, the City may stand to lose the pollutant reduction credit from the corresponding controls, necessitating the need for construction of additional controls to meet permit requirements.

Recommendations

Collection Services: Street Sweeping and Catch Basin Cleanings

Street sweeping and catch basin cleaning are best management practices to remove pollutants carried by storm water. Consequently, this collected material should be stored in a manner that prevents stormwater runoff to surface or ground water. Ultimately, the Department recommends these materials be staged in a location that eliminates the potential to generate storm water pollution (e.g., covered or immediately disposed) and/or discharges to sanitary sewer (i.e., staged on an impervious surface that drains to sanitary or stored in liquid tight container and decanted into sanitary). However, as the City has plans to purchase new equipment that eliminates the need for staging and will be constructing a new DPW Yard, the Department’s recommendation is to continue their practice of temporary staging⁶ and incorporate best management practices for collected materials at the new DPW Yard.

Winter Road Management

The Department recognizes communities must consider multiple factors for winter road management: predicted forecasts and changing weather conditions, maintaining public safety, reducing storm water pollution, balancing the cost and staff time with other public work functions, etc. Given these complexities and obvious challenges, the Department is encouraged by the City’s actions to evaluate and reduce their salt usage. The Department recommends the City continue to track, evaluate, and update their winter road management procedures. As procedures are updated, the Department recommends the City update their written road management plan and provide training to staff to ensure they are implementing the procedure as planned.

Turf Management

Though the City applies fertilizer to turf areas over five acres, the fertilizers applied do not contain phosphorous. Thus, the Department recommends the City develop a written program which includes language that a nutrient management plan based on appropriate soil test will be conducted if fertilizers containing phosphorous are applied to turf areas over five acres.

⁶ Based on site observations, Department staff found the duration of temporarily staged collected materials sufficient.

TABLE 1

Permit W1-SO50105-3	Observations (A – Required Action*, B – Recommended Action) <i>*necessary to maintain compliance with referenced permit condition</i>
Illicit Discharge Detection and Elimination	A.1 Re-evaluate screening locations for major outfalls. A.2 Submit map with identifying all MS4 outfalls. <i>Noting that outfall screening locations should be re-evaluated, the Department requests the City submit a map identifying the current screening locations.</i>
Pollution Prevention	A.3 Identify BMPs utilized in their pollutant reduction analysis and submit the following information for said BMPs in a tabular format: BMP name, type, year built, location, last date of inspection, ownership (if privately-owned, confirmation if long-term maintenance agreement exists). A.4 Develop a schedule, maintenance plan, or other form of commitment to City owned or operated BMP maintenance. B.1 Continue to update written road management plan and provide training to staff to ensure procedures are implemented as planned. B.2 Develop a turf management written program which includes language that a nutrient management plan based on appropriate soil test will be conducted if nutrients containing phosphorous are applied to turf areas over five acres.

Item F

Waukesha County Contracted Program Summary Report & 2020-2024 Public Education and Outreach Plan

DRAFT

Target Audience	Requ #	Requ #	Requ #	Program Name	Activity	Month	Year	Date	Location	# People	Description
General Public	7				news releases/articles	Jan	2021	1-5-21		1	press release for Salt Awareness Week
General Public	7				social media	Jan	2021	1-11-21		1	social media for Salt Awareness Week
General Public	7				presentation	Jan	2021	1-11-21	statewide-virtual	154	statewide virtual salt awareness week program- an ecosystem perspective on salt by Hillary Dugan and Bill Hintz
General Public	7				presentation	Jan	2021	1-12-21	statewide-virtual	163	statewide virtual salt awareness week program - be saltwise and pet smart with veterinarian Brian Ray
General Public	7				presentation	Jan	2021	1-13-21	statewide-virtual	144	statewide virtual salt awareness week program - salt in our drinking water with Kevin Masarek and Amy Barilleaux
General Public	7				presentation	Jan	2021	1-14-21	statewide-virtual	138	statewide virtual salt awareness week program - Put your house on a low salt diet with Juan Lopez and Matthew Meier
General Public	7				presentation	Jan	2021	1-15-21	statewide-virtual	135	statewide virtual salt awareness week program - salt reduction champions stories from around the state
General Public	7				news releases/articles	Jan	2021	1-15-21		1	salt awareness segment on The Morning Blend TV show on WTMJ4
General Public	3	5			presentation	Jan	2021	1-21-21		1400	Ask the Experts program on Green lawn practices-live on facebook then recording posted
General Public	3	5			social media	Jan	2021	1-29-21		1	social media with crossword puzzle of nonpoint words
General Public	3	5		Crystal	presentation	Feb	2021	2-4-21	Retzer	13	Outdoor classroom: Crystal's Clean Water Adventure - kids take a hike to see where water down the storm drain goes and how to keep it clean
General Public	3	5		Crystal	presentation	Feb	2021	2-4-21	Retzer	6	Outdoor classroom: Crystal's Clean Water Adventure - kids take a hike to see where water down the storm drain goes and how to keep it clean
General Public	3	5		Crystal	presentation	Feb	2021	2-9-21	Retzer	3	Outdoor classroom: Crystals Clean Water Adventure - kids take a hike to see where water down the stormdrain goes and how to keep it clean
General Public	3				social media	Feb	2021	2-26-21		1	social media post for National Tell a Fairy Tale Day--Poop Fairy isn't real....pick up after your dog!
General Public	2	3		Water Cycle	presentation	Mar	2021	3-3-21	Retzer	6	outdoor classroom program covering water cycle highlighting runoff in a game and hike
General Public	2	3		Water Cycle	presentation	Mar	2021	3-3-21	Retzer	9	outdoor classroom program covering water cycle highlighting runoff in a game and hike
General Public	9			asian clam	presentation	Mar	2021	3-9-21	virtual state-wide	109	lightning talk on Asian Clam Monitoring as part of Wisconsin Water Week
General Public	1	9		Adopt a Drain	Presentation	Mar	2021	3-10-21	virtual state wide	48	presentation on Adopt a Drain program as part of Wisconsin Water Week
General Public	2	3		Water Cycle	Presentation	Mar	2021	3-16-21	Retzer	2	outdoor classroom program covering water cycle highlighting runoff in a game and hike
General Public	1				social media	Mar	2021	3-22-21		1	social media post for World Water Day launch of Adopt a Drain campaign in Pewaukee
General Public	1				press release	Mar	2021	3-22-21		1	press release for Adopt a Drain program launch in Pewaukee
Teachers and Students	5				rain barrels	Mar	2021	3-24-21	Prairie Hill Waldorf	1	Provided 2 rain barrels to Prairie Hill Waldorf School
General Public	2	3		Water Cycle	Presentation	Mar	2021	3-25-21	Retzer	12	outdoor classroom program covering water cycle highlighting runoff in a game and hike
General Public	2	3		Water Cycle	Presentation	Mar	2021	3-25-21	Retzer	6	outdoor classroom program covering water cycle highlighting runoff in a game and hike
General Public	3				social media	Mar	2021	3-28-21		1	social media about weed control without chemicals for National Weed Appreciation Day
Teachers and Students	4	5			Presentation	Mar	2021	3-30-21	Carroll Field Station	15	environmental science lab for Carroll University on water quality in Genesee Creek at field station
General Public	2	3	5	Green Home Makeover	Presentation	Mar	2021	3-31-21	Muskego Public Libr	13	virtual program for Muskego Library on "green" home practices
General Public	1	2	3		press release	Apr	2021	4-1-21		1	press release promoting 30 day Earth Day activities including pet waste pickup, adopt a drain, green cleaning and lawn care practices
General Public	3				social media	Apr	2021	4-1-21		1	social media post about picking up pet waste
Teachers and Students	4	5			presentation	Apr	2021	4-1-21	Carroll Field Station	10	environmental science lab for Carroll University on water quality in Genesee Creek at field station
Teachers and Students	4	5			presentation	Apr	2021	4-1-21	Carroll Field Station	19	Environmental science lab for Carroll University on water quality in Genesee Creek at field station
General Public	4			Stream Life	presentation	Apr	2021	4-8-21	Retzer	11	outdoor classroom on Stream Life - macroinvertebrates that live in streams and how pollution affects them
General Public	4			Stream Life	presentation	Apr	2021	4-8-21	Retzer	9	outdoor classroom on Stream Life - macroinvertebrates that live in streams and how pollution affects them
General public	3				social media	Apr	2021	4-11-21		1	social media post on pet waste and picking up
General Public	1				TV media	Apr	2021	4-13-21	Retzer	1	Fox 6 at Retzer - segment on Adopt a Drain program
General Public	4			Stream Life	presentation	Apr	2021	4-14-21	Retzer	13	outdoor classroom on Stream Life - macroinvertebrates that live in streams and how pollution affects them
Teachers and Students	2	3	5	water resources	presentation	Apr	2021	4-16-21	New Berlin	16	program for Hoover Elementary, Wauwatosa that includes a portion of New Berlin, program on causes of pollution and prevention
General Public	4			Stream Life	presentation	Apr	2021	4-20-21	Retzer	4	outdoor classroom on Stream Life - macroinvertebrates that live in streams and how pollution affects them
General Public	4			Stream Life	presentation	Apr	2021	4-20-21	Retzer	11	outdoor classroom on Stream Life - macroinvertebrates that live in streams and how pollution affects them
Contractors, Dev & Consul				Stormwater Workshop	workshop	Apr	2021	4-20-21	virtual	173	stormwater updates - training on green infrastructure and other BMP's
Contractors, Dev & Consul				Stormwater Workshop	workshop	Apr	2021	4-21-21	virtual	164	green infrastructure case studies as part of annual stormwater workshop
General Public	4			Natural Shorelines	presentation	Apr	2021	4-21-21	virtual	25	presentation for Lake Country Clean Waters on natural shorelines for healthy lakes
General Public				clean up	River Clean up	Apr	2021	4-24-21	Fox River Park	3	Earth day clean up of River and banks in Fox River Park
General Public	5	3		podcast	presentation	Apr	2021	4-21		29	Gardening, Landscaping and Rain Barrel podcast for health and wellness series for Waukesha County and Waukesha School District employees
Teachers and Students	9	7		stream monitoring	field work	May	2021	5-4-21	Jericho Creek	12	taught 2nd chance high school students monitoring procedures to participate in WAV at Jericho Creek
General Public	6	7		BMP maintenance	Presentation	May	2021	5-5-21	Merton	21	Homeowners Association meeting to teach care and maintenance of BMP's
Teachers and Students	3	5		Healthy Soils	Presentation	May	2021	5-7-21	New Berlin	16	Healthy Soils program for Hoover Elementary that serves a portion of New Berlin, program on causes of pollution and prevention methods
Teachers and Students	3	5		Healthy Soils	Presentation	May	2021	5-7-21	Waukesha	27	Healthy Soils program for Montessori School in Waukesha covers infiltration and importance of organic matter
General Public	5			Wetlands	Presentation	May	2021	5-11-21	Retzer	3	Outdoor Classroom to teach about Wetlands--nature's stormwater filtration
Teachers and Students	5			green schools		May	2021	5-11-21	Delafield	1	Delivered 5 trays of native plants to Prairie Hill Waldorf School for students to plant on school grounds
General Public	5			Wetlands	Presentation	May	2021	5-12-21	Retzer	24	Outdoor Classroom to teach about Wetlands--nature's stormwater filtration
General Public	5			Wetlands	Presentation	May	2021	5-12-21	Retzer	7	Outdoor Classroom to teach about Wetlands--nature's stormwater filtration
General Public	2	3	5	Green home makeover	Presentation	May	2021	5-13-21	Menomonee Falls	8	virtual program on environmentally friendly house and lawn care for Menomonee Falls Public Library
General Public	9			stream monitoring	benchmark	May	2021	5-18-21	Genesee	2	trained new volunteer to monitor at Genesee Creek and Spring Brook
General Public	9			stream monitoring	benchmark	May	2021	5-20-21	Pewaukee	10	trained new volunteers to monitor at Coco Creek and Pewaukee Lake outlet
General Public	9			stream monitoring	benchmark	May	2021	5-20-21	Pewaukee	2	trained volunteers to monitor at Pewaukee River at Hwy F
General Public	5			Wetlands	Presentation	May	2021	5-27-21	Retzer	5	Outdoor Classroom to teach about Wetlands--nature's stormwater filtration
General Public	5			rain barrels	Presentation	May	2021	5-27-21	virtual	828	Ask the Experts broadcast through Facebook on the topic of rain gardens and rain barrels
General Public	2				social media	Jun	2021	6-1-21	virtual	1	post about fertilizer use for National Go Barefoot Day
General Public	7			invasives	presentation	Jun	2021	6-3-21	Retzer	10	Outdoor Classroom program about aquatic invasives and how to not spread them
General Public	2				social media	Jun	2021	6-5-21		1	Social media post about HHW collections
Teachers and Students	3	5		healthy soils	presentation	Jun	2021	6-7-21	Retzer	22	healthy soils program for home school group
General Public	1				press release	Jun	2021	6-8-21		1	press release for Adopt a Drain in Oconomowoc
General Public	1				social media	Jun	2021	6-8-21		1	social media post about World Ocean Day and start of adopt a drain in Oconomowoc
General Public	7			invasives	presentation	Jun	2021	6-9-21	Retzer	4	Outdoor Classroom program about aquatic invasives and how to not spread them
General Public	7			invasives	presentation	Jun	2021	6-9-21	Retzer	5	Outdoor Classroom program about aquatic invasives and how to not spread them
General Public	2				social media	Jun	2021	6-13-21		1	social media post for National Weed Your Garden Day about weeding instead of using chemicals
Teachers and Students	7			aquatic insects	presentation	Jun	2021	6-22-21	Retzer	33	Aquatic insects of the stream for school group including pollution effects on aquatic life
Teachers and Students	7			aquatic insects	presentation	Jun	2021	6-22-21	Retzer	32	Aquatic insects of the stream for school group including pollution effects on aquatic life

Teachers and Students	7		aquatic insects	presentation	Jun	2021	6-24-21	Retzer	29 Aquatic insects of the stream for school group including pollution effects on aquatic life
Teachers and Students	7		aquatic insects	presentation	Jun	2021	6-24-21	Retzer	30 Aquatic insects of the stream for school group including pollution effects on aquatic life
General Public	3	5		displays and handouts	Jun	2021	6-26-21	Pewaukee	250 Display about simple actions homeowners can take to protect water and aquatic invasives at Pewaukee Clean Water Festival
General Public	3	5		displays and handouts	Jun	2021	6-28-21	Brookfield	20 Display with enviroscape model covering pollution sources at Altar'D State in The Corners shopping in Brookfield
General Public	1	5	7 thermodynamics	presentation	Jul	2021	7-1-21	Retzer	2 program about thermodynamics of water - benefits of infiltration vs runoff
General Public	1	5	7 thermodynamics	presentation	Jul	2021	7-1-21	Retzer	2 program about thermodynamics of water - benefits of infiltration vs runoff
General Public	9		asian clam	citizen science survey	Jul	2021	7-8-21	Pewaukee River	0 asian clam survey on the Pewaukee River at Steinhafels - no participants
General Public	1	5	7 thermodynamics	presentation	Jul	2021	7-13-21	Retzer	5 program about thermodynamics of water - benefits of infiltration vs runoff
General Public	1	5	7 thermodynamics	presentation	Jul	2021	7-13-21	Retzer	2 program about thermodynamics of water - benefits of infiltration vs runoff
General Public	9		asian clam	citizen science survey	Jul	2021	7-15-21	Bark River	0 asian clam survey on the Bark River at Nixon Park Hartland - no participants
General Public	4	5	Env Science	merit badge class	Jul	2021	7-20-21	Retzer	20 Environmental Science merit badge class covering water pollution and soil erosion
General Public	2			social media	Jul	2021	7-27-21		1 social media on proper disposal of used motor oil
General Public	1			displays and handouts	Jul	2021	7-28-21	Hartland	2000 Staffed Outreach with stormwater runoff information at Hartland Kids Fest
General Public	1	3	7	displays and handouts	Jul	2021	7-28-21	Pewaukee	300 Stormdrain display with fertilizer use highlighted at Pewaukee Library for 2 weeks
General Public	2	3	4 WI MN training	presentation	Jul	2021	7-30-21	Retzer	20 day long training for Wisconsin Master Naturalist training covering sources of pollution, prevention, AIS and more
General Public	2			social media	Jul	2021	7-31-21		1 social media about proper disposal of pet waste
General Public	2	3	5 Nat Night Out	displays and handouts	Aug	2021	8-3-21	Mukwonago	150 watershed model at National Night Out in Mukwonago
General Public	2	3	5 Nat Night Out	displays and handouts	Aug	2021	8-4-21	Sussex	200 watershed model at National Night Out in Sussex
General Public	2	3	5 Nat Night out	displays and handouts	Aug	2021	8-5-21	Hartland	100 recycling and water at National Night Out in Hartland
General Public	9		Asian Clam	citizen science survey	Aug	2021	8-5-21	Oconomowoc	0 asian clam survey on the Oconomowoc river - no participants
General Public	2			social media	Aug	2021			1 social media post about proper disposal of pet waste
General Public	9		Cit stream monitor	appreciation	Aug	2021	8-7-21	Retzer	16 volunteer appreciation event for stream monitors with program updates, dragonfly program and lunch
General Public	3			social media	Aug	2021	8-8-21		1 social media post about pet waste
General Public	3			social media	Aug	2021	8-10-21		1 social media post on healthy lawncare for National Lazy Day
General Public	1			displays and handouts	Aug	2021	8-10-21	Oconomowoc	2000 staffed outreach with stormwater runoff information at Oconomowoc Kids Fest
contractors, Dev & consul	7		Smart Salting	presentation	Aug	2021	8-10-21	virtual	43 Smart Salting training for roads by Fortin consulting
general public			soil health field day	field day	Aug	2021	8-11-21	Oconomowoc	18 Soil health field day in Oconomowoc in partnership with Farmers for Lake Country and ORWPP
general public	3			social media	Aug	2021	8-11-21		1 social media post about not mowing for National Lazy Day
general public	7		aquatic insects	presentation	Aug	2021	8-17-21	Retzer	32 Stream health and aquatic insects for Brookfield area YMCA daycamp
Teachers and Students	3	5	8 green schools	teacher training	Aug	2021	8-18-21	Retzer	6 green school training for teachers covering parking lot management, runoff and rain gardens
Teachers and Students	8	6	sustainable building	presentation	Aug	2021	8-23-21	WCTC	14 presentation to Sustainable Building class at WCTC with BMP's and green infrastructure
General Public	2	3	5 Sustainability Fair	displays and handouts	Aug	2021	8-28-21	Retzer	300 unstaffed outreach at Sustainability Fair with runoff information
General Public	1			social media	Aug	2021	8-31-21		1 social media about caring for Storm Drains for National Beach Day
General Public	7			social media	Sep	2021	9-1-21		1 social media about salt damage for National No Rhyme or Reason Day
General Public	3			social media	Sep	2021	9-4-21		1 social media about lawn care for National Lazy Morn Day
Teachers and Students	3	5	healthy soils	presentation	Sep	2021	9-7-21	Waukesha	48 healthy soils program as part of the Cooperative at Rose Glen Elementary
Teachers and Students	3	5	healthy soils	presentation	Sep	2021	9-7-21	Waukesha	48 healthy soils program as part of the Cooperative at Rose Glen Elementary
General Public	1	7	Aquatic Insects	presentation	Sep	2021	9-8-21	Retzer	10 Secrets of Stream Life program for Outdoor Classroom at Retzer covering effects of pollution on aquatic life
Teachers and Students	2	3	5 water resources	presentation	Sep	2021	9-9-21	Waukesha	33 water resources program as part of the Cooperative at Prairie Elementary - covers pollution sources and prevention
Teachers and Students	2	3	5 water resources	presentation	Sep	2021	9-16-21	Waukesha	30 water resources program as part of the Cooperative at Lowell Elementary - covers pollution sources and prevention
Teachers and Students	2	3	5 water resources	presentation	Sep	2021	9-16-21	Waukesha	30 water resources program as part of the Cooperative at Lowell Elementary - covers pollution sources and prevention
General Public	1	3		displays and handouts	Sep	2021	9-16 to 30-21	Oconomowoc	300 storm drain display on fertilizer runoff with adopt a drain information
General Public	3	5		displays and handouts	Sep	2021	9-17 to 19-21	North Prairie	3000 unstaffed display at Harvest Fest with information on rain gardens/barrels, natural shorelines, Pet waste and fertilizers
General Public	1			displays and handouts	Sep	2021	9-18-21	Retzer	4000 staffed outreach at Apple Harvests Fest with information on storm drains
General Public	2			social media	Sep	2021	9-19-21		1 social media about pet waste for National Talk Like a Pirate Day
Teachers and Students	3	5	healthy soils	presentation	Sep	2021	9-20-21	Waukesha	22 healthy soils as part of the Cooperative for Banting Elementary
Teachers and Students	3	5	healthy soils	presentation	Sep	2021	9-22-21	Waukesha	50 healthy soils as part of the Cooperative for Prairie Elementary
Teachers and Students	3	5	healthy soils	presentation	Sep	2021	9-23-21	Waukesha	20 healthy soils as part of the Cooperative for Banting Elementary
Teachers and Students	1	3	5 water monitoring	field experience	Sep	2021	9-30-21	Eagleville	33 water testing with students at Eagleville Elementary in Jericho Creek
General Public	1			social media	Oct	2021	10-1-21		1 World Smile Day about adopting and caring for a storm drain
contractors, Dev & Consul	7		open house	presentation	Oct	2021	10-5-21	Waukesha	54 Smart Salting open house at Waukesha County DPW facility
Teachers and Students	3	5	healthy soils	presentation	Oct	2021	10-7-21	Eagleville	33 healthy soils program for Eagleville Elementary
General Public	3	5	Nat Night Out	displays and handouts	Oct	2021	10-12-21	Oconomowoc	200 watershed model at National Night Out event
Techers and Students	1	3	5 career	presentation	Oct	2021	10-14-21	Pewaukee	54 Pewaukee High School Junior Achievement Career Day - covers pollution sources and prevention
General Public	1	3	5 I live in a watershed	presentation	Oct	2021	10-14-21	Mukwonago	5 watershed discussion with AmerCorps volunteers covering pollution sources and prevention
General Public	1	3	5 Green Home	presentation	Oct	2021	10-16-21	Retzer	2 part of fall workshops - covers environmentally friendly tips for the home inside and out
General Public	3		composting	presentation	Oct	2021	10-16-21	Retzer	9 part of fall workshops - learn to "recycle" yard waste by making compost and improve your soil health too
Teachers and Students	3	5	healthy soils	presentation	Oct	2021	10-18-21	Waukesha	21 Healthy Soils program as part of Cooperative for Banting Elementary
Teachers and Students	3	5	healthy soils	presentation	Oct	2021	10-18-21	Waukesha	20 Healthy Soils program as part of Cooperative for Banting Elementary
General Public	2			social media	Oct	2021	10-24-21		1 post about pet waste disposal for National Make a Difference Day
Teachers and Students	8	6	sustainable building	presentation	Oct	2021	10-25-21	WCTC	19 presentation to Sustainable Building class at WCTC covering BMP's and green infrastructure
Teachers and Students	2	3	5 I Live/Healthy Soils	presentation	Oct	2021	10-26-21	Retzer	34 Cushing Elementary program with parts of both I Live in a Watershed and Healthy Soils
Teachers and Students	2	3	5 I Live/Healthy Soils	presentation	Oct	2021	10-26-21	Retzer	35 Cushing Elementary program with parts of both I Live in a Watershed and Healthy Soils
Contractors, Dev & Consul	7	3		presentation	Nov	2021	11-1-21	Wisconsin Dells	4 presentation for school grounds and facilities professionals on salt use, nutrient management and stormwater management
General Public	7	3	United Way mini golf	displays and handouts	Nov	2021	11-4-21	Waukesha	80 sponsored a hole of mini golf with education on salt use and clean water highlighted in the course
General Public	3	5	healthy soils	presentation	Nov	2021	11-6-21	Retzer	12 soil ninja hike at science fest covering healthy soil for a healthy environment
General Public	2	3	5 Crystal	presentation	Nov	2021	11-6-21	Retzer	25 Crystal's clean Water adventure at science fest - hike to learn about stormdrains, sources of pollution and prevention
General Public	2	3	5 I Live in a watershed	presentation	Nov	2021	11-6-21	Retzer	30 I Live in a Watershed at science fest - covers pollution sources and prevention
General Public	2	3	5 science fest	displays and handouts	Nov	2021	11-6-21	Retzer	400 dissecting scope with macroinvertebrates and information about keeping water clean for science fest
General Public	1			stenciling	Nov	2021	11-13-21	North Prairie	20 Girl Scout troop marked drains in North Prairie

General Public	2	3	5 I Live in a watershed	presentation	Nov	2021	11-15-21	Pewaukee	18 watershed program for girl scouts covering pollution sources and prevention
Teachers and Students	3	5	healthy soils	presentation	Nov	2021	11-16-21	Waukesha	24 healthy soils program as part of Cooperative for Hawthorne Elementary
Teachers and Students	3	5	healthy soils	presentation	Nov	2021	11-16-21	Waukesha	24 healthy soils program as part of Cooperative for Hawthorne Elementary
General Public	2	3	5 I Live in a watershed	presentation	Nov	2021	11-18-21	Waukesha	2 watershed program for 4-H at Expo as part of a special event covering pollution sources and prevention
Teachers and Students	2	3	water testing	presentation	Nov	2021	11-30-21	Sussex	30 water testing with AP Environmental Science students at Sussex Hamilton High School
Teachers and Students	2	3	water testing	presentation	Nov	2021	11-30-21	Sussex	20 water testing with AP Environmental Science students at Sussex Hamilton High School
General Public	7		tax inserts	displays and handouts	Dec	2021	12-21		68000 tax inserts provided to communities with recycling and smart salting information
Teachers and Students	1	3	5 career	presentation	Dec	2021	12-16-21	Muskego	44 Junior achievement career day for Muskego High School covering pollution sources and prevention
General Public	1			displays and handouts	Dec	2021	12-22 to 31-2	Pewaukee	200 storm sewer display with Adopt a Drain information at City Hall during tax time

86567

MS4 Public Education and Outreach Plan for Waukesha County Partner Communities 2020 to 2024

Permit Topic Areas	I&E Programs	Audience	Municipal I&E Plan Program Descriptions	2020	2021	2022	2023	2024	Municipal Activities (describe)	Passive or Active P/A
1. Illicit Discharge and Elimination	Storm Drain Stenciling	Teachers/Students, General Public	Continue to promote Storm Drain Stenciling (markers) especially as service learning project	X	X	X	X	X		A
	Adopt a Storm Drain	General Public, Businesses	Launch Adopt a Storm Drain Program with press release associated with World Water Day Set goal for # of adopters/year.	X	X	X	X	X		A
	social media	general public	media posts to help with launch of storm drain program	X	X	X	X	X		P
2. Household Hazardous Waste Disposal/Pet Waste Management/Vehicle Washing	HHW Collections	General Public	Partner with communities to host HHW collection events, website to help residents know how to dispose of items	X	X	X	X	X		A
	Watershed educational programs	Teachers/Students , general public	educational programs that cover pet waste and car washing	X	X	X	X	X		A
	Home Makeover: Green Edition program	General Public	program that covers pet waste, car washing and more	X	X	X	X	X		A
	Green Cleaning and Household Elf programs	General Public	program that covers toxic cleaners and safer alternatives	X	X	X	X	X		
	Displays and Handouts	General Public	Display that covers pet waste and car washing	X	X	X	X	X		P
	social media	General Public	timely posts on seasonal topics	X	X	X	X	X		P
3. Yard Waste Management/Pesticide and Fertilizer Application	Watershed educational programs	Teachers/Students , general public	educational programs that cover leaf management and fertilizers	X	X	X	X	X		A
	Home Makeover: Green Edition program	General Public	program that covers leaf management and fertilizer use	X	X	X	X	X		A
	Healthy Soils through Composting program	Teachers/Students	program that covers composting leaves and other yard waste	X	X	X	X	X		A

	Home Composting for Healthy Soils program	General Public	program that covers composting leaves and other yard waste	X	X	X	X	X		A
	Displays and Handouts	General Public	display with handouts that covers yard waste management and fertilizer use	X	X	X	X	X		P
	yard waste collection/processing	municipalities	work with municipalities to provide processing of yard wastes in partnership with Johnson Nursery	X	X	X	X	X		A
	social media	General public	timely posts on seasonal topics	X	X	X	X	X		P
4. Stream and Shoreline Management	Displays and Handouts	General Public	display with handouts that covers native plantings for shorelines	X	X	X	X	X		P
	Healthy Lakes Conference	Lakeshore property owners	Conference that covers shoreline restoration		X		X			A
5. Residential Infiltration	Rain Barrels/rain gardens workshop	General Public	program covering installation and use of rain gardens and rain barrels		X		X			A
	Displays and Handouts	General Public	Display that covers rain gardens and rain barrels as well as native plants	X	X	X	X	X		P
	Composting for Healthy Soils workshop	General Public	program that covers using compost to increase infiltration and water holding capacity of soils	X	X	X	X	X		A
	social media	General Public	timely posts on seasonal topics	X	X	X	X	X		
6. Construction Sites/Post-Construction Stormwater Management	Annual Stormwater Workshop	Developers. Builders, Contractors, Municipal Staff	workshop that covers a variety of topics regarding constructions sites and BMP management and maintenance	X	X	X	X	X		A
	Homeowners Association BMP maintenance workshop	Homeowners Associations	workshop that covers management and maintenance for BMP's	X	X	X	X	X		A
7. Pollution Prevention	Salt Management for Parking Lots Workshop	Businesses, Municipal staff, school facility staff	workshop that covers salting best management practices for sidewalks and parking lots	X			X			A

	Adopt a Storm Drain	Businesses	Launch Adopt a Storm Drain Program with press release associated with World Water Day Set goal for # of adopters/year.	X	X	X	X	X		A
	business resource webpage	businesses	launch website with resources specific to businesses	X	X	X	X	X		
8. Green Infrastructure/Low Impact Development	Green Infrastructure class	WCTC students	teach session in WCTC class on planning and development/building	X	X	X	X	X		A
	Annual Stormwater Workshop	Developers, Builders, Contractors, Municipal Staff	workshop that covers a variety of topics regarding constructions sites and BMP management and maintenance	X	X	X	X	X		A
9. Miscellaneous	Citizen Stream Monitoring	General Public	citizens trained to collect water quality data on local streams	X	X	X	X	X		A
	Municipal board/council meeting	General Public, elected officials	present annual workplan and report to public	X	X	X	X	X		A
	web page	General public	up to date information on pollution prevention and available programs	X	X	X	X	X		P

CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 8.1.

DATE: March 31, 2022

DEPARTMENT: Public Works

PROVIDED BY: Magdelene Wagner/Jane Mueller

SUBJECT:

Discussion and possible action regarding the possible PFAS testing.

BACKGROUND:

On February 18th the Utility was notified that the Wisconsin DNR is launching a voluntary program to fund PFAS testing for municipal water systems statewide. (No analytical cost to the municipality.) The State will be using recently acquired funding from the federal government to pay for this program.

PFAS and PFOA are contaminants that have been identified in drinking water sources throughout the country over the last several years. They are chemicals commonly used to create nonstick coatings and fire fighting foam. They are known as Forever Chemicals as they are slow to degrade in the environment.

In January the Utility was notified that we will be required to participate in the 2023 Environmental Protection Agency Fifth Unregulated Contaminant Monitoring Rule (EPA UCMR 5). The UCMR 5 monitoring will include the PFAS contaminants that the DNR has offered to sample.

The Maximum Contaminant Level of PFAS & PFOA are being discussed throughout the State and EPA. The Natural Resources Board recently approved an amendment to raise the recommended (DNR & DHS) MCLs from 20 ppt to 70 ppt for Wisconsin.

FINANCIAL IMPACT:

The Wisconsin DNR will pay for the initial voluntary sampling program in 2022. The EPA UCMR5 will pay for the initial sampling for the required program in 2023.

The initial sampling costs will have no impact to the City with either program.

RECOMMENDED MOTION:

Recommend that the City not participate in the Wisconsin DNR voluntary monitoring program at this time as the federal EPA UCMR 5 monitoring program will be taking place in 2023.

ATTACHMENTS:

Description

email DNR PFAS Sampling

Voluntary Sampling letter DNR
email EPA UCMR5

Mueller, Jane

From: DNR DG PFAS Sampling <DNRDGPFASSampling@wisconsin.gov>
Sent: Friday, February 18, 2022 4:52 PM
Subject: WI Department of Natural Resources - Voluntary PFAS Sampling Project
Attachments: Voluntary Municipal PFAS Sampling Project Letter.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

This message is being sent to all WI Municipal Drinking Water System Owners and Operators

Hello Drinking Water System Owner or Operator,

The Wisconsin Department of Natural Resources (DNR) has launched a new **voluntary, no analytical cost, PFAS Sampling Program** for all municipal public water systems statewide. To get more information or express interest in participating in the project systems can reply to this email address (DNRDGPFASSAMPLING@wisconsin.gov) The attached letter has additional information about the project and future communications.

Why is DNR implementing this project?

The state of Wisconsin and the EPA have developed PFAS Action Plans

- Primary goals of these plans include the identification of potential sources of PFAS contaminants, identification of PFAS contaminants in drinking water, and the establishment of drinking water health-based guidance levels and maximum contaminant levels protective of public health. This project continues DNR's efforts to partner with public water systems and communities to ensure Wisconsinites have access to drinking water that meets recommended and required standards.

Why might a Municipal Public Water System take advantage of this sampling project?

Some or all municipal systems will soon be required to sample for PFAS.

- Beginning in 2023, many of Wisconsin's public water systems will need to monitor for PFAS under the EPA's Unregulated Contaminant Monitoring Rule Five (UCMR 5). The DNR is proposing drinking water MCLs for PFOA and PFOS which, if approved would require PFAS sampling at all municipal systems. The EPA has also indicated it will be proposing federal standards in the near future. Sampling for PFAS under the state's voluntary monitoring program this year will allow systems to sample for PFAS at no cost and have results prior to any required sampling.

Funding specific to addressing PFAS impacted will soon be available.

- The recently signed federal Bipartisan Infrastructure Law will provide the DNR (through its State Revolving Loan Program) funding specific to addressing PFAS impacts at municipal systems. Opportunities to access this funding will be available in late 2022 and only be available for a 5-year window. Participating in this sampling project will give impacted systems the opportunity to be among the first to apply for these resources.

Opportunity to partner with DNR, DHS, and WI State Lab of Hygiene to proactively assess impacts and protect public health.

- Throughout this project DNR, DHS, and WI State Lab of Hygiene will be working to partner with all participating systems to educate, train, communicate, and address any impacts.

Please read the attached letter for more information about the voluntary municipal PFAS sampling program and how you can express interest in participating in the program.

Thank you for your consideration.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Kyle Burton

Field Operations Director – Bureau of Drinking Water and Groundwater
Wisconsin Department of Natural Resources



dnr.wi.gov





February 18, 2022

SUBJECT: PFAS Drinking Water Samples – 2022 Wisconsin PFAS Sampling Program

Dear Water System Owner/Operator:

Environmentally persistent synthetic chemicals known as Per- and Polyfluoroalkyl Substances (PFAS) are chemicals with production and use since at least the 1950s. Due to the identified environmental and human health concerns for PFAS, the Department of Natural Resources (DNR) will fund and support local communities with a voluntary statewide PFAS drinking water sampling program for municipal public water systems. The PFAS sampling program will begin in Spring 2022.

The purpose of PFAS drinking water sampling is to assist municipal public water systems and their local communities that are interested in learning whether their municipal water supply is impacted by PFAS. The sampling can provide information for protection of public health, welfare, and the environment. Certain PFAS substances have identified public health concerns. PFAS samples will be analyzed at the Wisconsin State Lab of Hygiene (WSLH) at no cost to your public water system.

Additional information regarding the PFAS sampling program is available on our DNR website at <https://dnr.wisconsin.gov/topic/PFAS/PWSampling>. The PFAS sampling program is expected to begin in Spring 2022. Please contact us at DNRDGPFASSampling@wisconsin.gov if you would like to sign up to participate in the program or if you have any questions. All interested water systems will be invited to a virtual information session where staff from DNR, WSLH, and Department of Health Services will provide details of the program.

Thank you for your interest in the PFAS drinking water sampling program and your efforts to provide safe drinking water to your customers.

Sincerely,

Adam DeWeese
Chief, Public Water Supply Section
Department of Natural Resources
Email: Adam.DeWeese@wisconsin.gov
Telephone: 608-630-2204

Mueller, Jane

From: Wagner, Magdelene
Sent: Monday, January 24, 2022 11:38 AM
To: Mueller, Jane
Subject: FW: Medium PWS Registration for U.S. EPA's Fifth Unregulated Contaminant Monitoring Rule

Did you get this? I'm a little suspect as it came in on Sunday and what government agency is working on Sunday?

Magdelene Wagner, P.E.

Director of Public Works/City Engineer

City of Pewaukee

W240N3065 Pewaukee Road

Pewaukee, WI 53072

262-691-0804

[Find us on Facebook](#)

This message originates from the City of Pewaukee. It contains information that may be confidential or privileged and is intended only for the individual named above. It is prohibited for anyone to disclose, copy, distribute, or use the contents of this message without permission, except as allowed by the Wisconsin Public Record Law. If this message is sent to a quorum of a governmental body, my intent is the same as though it were sent by regular mail and further e-mail distribution is prohibited. All personal messages express views solely of the sender, which are not attributed to the municipality I represent and may not be copied or distributed with this disclaimer. If you have received this message in error please notify me immediately.

From: ucmr@epacdx.net [mailto:ucmr@epacdx.net]
Sent: Sunday, January 23, 2022 10:00 AM
To: Wagner, Magdelene <wagner@pewaukee.wi.us>
Subject: RE: Medium PWS Registration for U.S. EPA's Fifth Unregulated Contaminant Monitoring Rule

RE: Medium PWS Registration for U.S. EPA's Fifth Unregulated Contaminant Monitoring Rule

WI2680214 - PEWAUKEE CITY WATER AND SEWER UTILITY

Your CRK is: **323AD970**

Dear Public Water System:

Our records indicate that your public water system (PWS) is subject to the requirements of the next [Unregulated Contaminants Monitoring Rule \(UCMR 5\)](#), published on December 27, 2021 (86 FR 73131). UCMR 5 requires certain PWSs to collect drinking water samples for 29 per- and polyfluoroalkyl substances (PFAS) and lithium analysis during a 12-month period between 2023 and 2025. This notification provides you with information to access the UCMR 5 internet-based reporting system, the Safe Drinking Water Accession and Review System (SDWARS 5), so that your account will be ready to support your pre-sampling and monitoring responsibilities.

The Safe Drinking Water Act (SDWA) requires the U.S. Environmental Protection Agency (EPA) to establish criteria for a program to monitor unregulated contaminants in drinking water and to identify contaminants to be monitored every five years. The UCMR dataset is one of the primary sources of information on occurrence and

population exposure EPA uses to develop regulatory decisions for contaminants in the public drinking water supply.

SDWA was amended in 2018 and now specifies that, subject to the availability of appropriations, PWSs serving between 3,300 and 10,000 people as of February 1, 2021, including those that purchase all their water, are among the PWSs required to participate in UCMR. For any PWS serving 10,000 or fewer people, such as yours, EPA will pay for the cost of shipping the samples to an EPA-designated laboratory as well as the cost of analysis. Since EPA's ability to do so depends on future appropriation of funds, **EPA will confirm your UCMR 5 requirement to collect drinking water samples using a SDWARS 5 generated notification approximately 6-months prior to your scheduled year of sampling.**

EPA's contractor will supply participating PWSs with sampling kits and instructions. In some situations, State personnel will collect the UCMR 5 samples for PWSs. Unless they are advised that this is the case, PWSs are responsible for collecting the samples per EPA's instructions. The EPA-designated laboratory will post analytical results to SDWARS 5 so that PWSs are aware of the results and can meet their Public Notification and Consumer Confidence Report requirements.

Those reporting or reviewing UCMR 5 data will be using a secure portal, the Central Data Exchange (CDX), to access SDWARS 5. To register for your CDX/SDWARS 5 account, go to <http://cdx.epa.gov/preregistration/>, if prompted, enter the customer retrieval key (CRK) listed above, and follow the directions to complete registration. You will have the option of using an existing CDX account, by entering your CDX User ID and Password, or creating a new CDX account to access SDWARS 5. **If you are not the appropriate contact for your PWS's CDX/SDWARS 5 account, you may forward this letter to the correct PWS contact. To receive your confirmation of your requirement to collect UCMR 5 drinking water samples, you must establish a CDX/SDWARS 5 account.**

What actions must your PWS complete in SDWARS 5 before December 31, 2022?

After establishing a CDX/SDWARS 5 account, UCMR 5 requires you to take the following actions in SDWARS 5 during the open-inventory period to prepare for your tentatively scheduled sampling:

- Read and accept your UCMR 5 Notification Letter which contains additional details about UCMR 5 monitoring and reporting requirements.
- Ensure proper sample location inventory (i.e., identify/confirm all entry points to your distribution system).
 - Some PWSs will have entry-point locations pre-populated using information provided by their State/Primacy Agency to EPA in late 2021. If that is the case for your PWS, please review the locations. You are able to edit facility and sample point names only. After reviewing, select a response under the 'Correct?' field. If you select 'No, it is not' correct for a location(s), please contact the UCMR Message Center at UCMR5@glec.com or 1 800 949 1581 for assistance with completing your corrections and/or additions.
 - If your PWS does not have pre-populated locations, please contact the UCMR Message Center at UCMR5@glec.com or 1 800 949 1581 for assistance with adding your locations.
- Confirm or add your physical address for the shipment of the sampling kits to you (not a P.O. Box).
- Add the zip codes associated with all customers in your service area.
- Select appropriate responses for the following UCMR 5 Data Elements:
 - Disinfectant Type,
 - Treatment Information,
 - Historical Information for PFAS Detections and Treatment,
 - Historical Information for Lithium Detections and Treatment, and
 - Potential PFAS Sources

- You may nominate other individuals to serve as representatives for your PWS using the **Nominate User** function by selecting your account/person icon in the upper right-hand corner. A new CRK letter will be generated and emailed to the nominee for use in establishing their own account.

Questions?

- The first post-final UCMR 5 stakeholder meeting has been announced for March 16 & 17, 2022. Please register for one of the dates here:
<https://www.epa.gov/dwucmr/unregulated-contaminant-monitoring-rule-ucmr-meetings-and-materials>
- For more information about the program, please review the [UCMR 5 Website](#).
- For CDX/SDWARS 5 registration issues, please contact the CDX Help Desk at helpdesk@epacdx.net or call 1 888 890 1995.
- For general questions about requirements or navigating SDWARS, please contact the UCMR Message Center at UCMR5@glec.com or 1 800 949 1581

We look forward to working with you to carry out the UCMR 5 monitoring and will be assisting your PWS throughout the process. Thank you in advance for your cooperation.

**CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 9.1.**

DATE: March 31, 2022

DEPARTMENT: Public Works

PROVIDED BY: Magdelene Wagner

SUBJECT:

Discussion and Possible Action regarding a stop sign request at the intersection of Nottingham Drive and Busse Road.

BACKGROUND:

The City received a request for a speed limit reduction on Busse Road and a request to reduce the stop sign request at the intersection of Busse Road and Nottingham Drive.

The reduction of the speed limit to 25 mph was previously approved in Ordinance 16-16. It appears the signs along the Busse Road has not been updated to reflect this nor has Chapter 5 been updated. We will update these signs and the ordinance.

In addition to this request, a request for a stop sign at the intersection of Busse Road and Nottingham Drive was made. The request was made to reduce the speeding traffic along Busse Road.

Busse Road is a dead end road with little traffic aside from the neighborhood traffic. A stop sign at this intersection does not appear to be warranted. As we have previously discussed, a stop sign does not address speeding traffic. Staff does not support its installation.

FINANCIAL IMPACT:

RECOMMENDED MOTION:

Committee recommend to deny the stop sign at the intersection of Nottingham Drive and Busse Road.

ATTACHMENTS:

Description

Ordinance 16-16

ORDINANCE NO. 16-16

**AN ORDINANCE TO REPEAL AND RECREATE SECTION 5.02(2)(b) OF
THE CITY OF PEWAUKEE MUNICIPAL CODE REGARDING TRAFFIC**

The Common Council of the City of Pewaukee, Waukesha County, Wisconsin,
DOES ORDAIN AS FOLLOWS:

SECTION 1: Repeal and Recreate Section 5.02(2)(b) under Chapter 5 of the Municipal Code entitled "Traffic", Section 5.02 "Speed Limits.", (2) "Particular Speed Limits Designated", (b) "Thirty-Five (35) miles per hour", (c) Forty-five 45) miles per hour speed zone" as follows:

5.02 SPEED LIMITS (Rep. & Rec. 06-18, Rep. & Rec. 13-24)

- (1) **State Speed Limits Adopted.** The provisions of §§346.57, 346.58, and 346.59, Wis. Stats., relating to the maximum and minimum speed of vehicles are hereby adopted as part of this section as if fully set forth herein, except as specified by Section 5.02, Subsection 2, pursuant to §349.11(3)(c), Wis. Stats. Any act required to be performed or prohibited by any regulation incorporated herein by reference is required or prohibited by this Code. Any future additions, amendments, revisions or modifications of the current or future statutory regulations incorporated herein are intended to be made part of this Code in order to secure to the extent legally practicable uniform statewide regulation of vehicular traffic on the highways, streets, and alleys of the State of Wisconsin.
- (2) **Particular Speed Limits Designated.** No person shall operate any motor vehicle at speeds in excess of the following speed limits on roads in the City of Pewaukee, to wit:

(a) **Thirty (30) miles per hour speed zone.**

1. Green Road from its intersection with Duplainville Road easterly to its intersection with Springdale Road.

(b) **Thirty-five (35) miles per hour speed zone**

1. Northview Road from the City limits of the City of Waukesha westerly to Hilltop Drive.
2. Duplainville Road from its intersection with Redford Blvd. (C.T.H. "F") northerly to a location .2 miles north of Overhill Road.

3. Green Road from its intersection with Duplainville Road west to its intersection with Pewaukee Road (S.T.H. "164")
4. Lindsay Road from Swan Road easterly to Duplainville Road and from County Trunk Highway "KF" easterly to Pewaukee Road (S.T.H. "164").
5. Swan Road from Pewaukee Road (S.T.H. "164") north to City line of the Township of Lisbon.
6. Weyer Road from Duplainville Road .75 miles to City limits.

(c) **Forty-five (45) miles per hour speed zone.**

1. Northview Road from Hilltop Drive westerly to City limits.
2. Duplainville Road from a location 0.2 miles north of Overhill Road north to City line of the Township of Lisbon.
3. Watertown Road from Springdale Road to North Avenue.

(d) **Fifty (50) miles per hour speed zone.**

1. Silvernail Road from Meadowbrook Road westerly to Prospect Avenue (C.T.H. "SS").

(e) **Twenty-five (25) miles per hour speed zone.** All other roads owned by the City of Pewaukee not otherwise specifically delineated in 5.02(2) of this section.

SECTION 2: SEVERABILITY

The several sections of this ordinance are declared to be severable. If any section or portion thereof shall be declared by a court of competent jurisdiction to be invalid, unlawful or unenforceable, such decision shall apply only to the specific section or portion thereof directly specified in the decision, and shall not affect the validity of any other provisions, sections or portions thereof of the ordinance. The remainder of the ordinance shall remain in full force and effect. Any other ordinances whose terms are in conflict with the provisions of this ordinance are hereby repealed as to those terms that conflict.

SECTION 3: EFFECTIVE DATE.

This ordinance shall take effect immediately upon passage and posting or publication as provided by law.

Dated this 6th day of June, 2016.

CITY OF PEWAUKEE

Scott J. Klein, Mayor

ATTEST:

Kelly Tarczewski, Clerk/Treasurer

Published and posted this _____ day of _____, 2016.

**CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 9.2.**

DATE: March 31, 2022

DEPARTMENT: PW - Engineering

PROVIDED BY: Magdelene Wagner/Michaelis Gabbey

SUBJECT:

Discussion and possible action regarding establishing Railroad Quiet Zones

BACKGROUND:

Please find the attached memorandum regarding the Railroad Quiet Zone.

FINANCIAL IMPACT:

The 2022 Budget does not have funds designated for any additional quiet zone studies. To complete the study for Weyer Road is \$15,000 and the study for Green Road is \$33,010.

To complete both studies, the City would need to fund \$48,010. This could be funded by the contingency fund or borrowed in the 2022 borrowing.

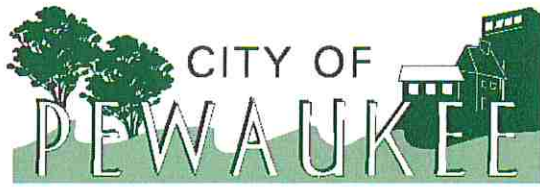
RECOMMENDED MOTION:

Committee to determine if they wish to continue with the Quiet Zone studies and forward a recommendation to the Council for approval and funding.

ATTACHMENTS:

Description

Railroad Quiet Zone Memo



Department of Public Works

W240N3065 Pewaukee Road

Pewaukee, WI 53072

Phone: (262) 691-0804 • Fax: (262) 691-5729

Email: publicworks@pewaukee.wi.us

Memorandum

To: Maggie Wagner

From: Michaelis Gabbey

Subject: Railroad Quiet Zones

Date: 01/12/2022

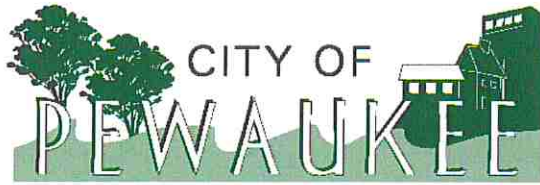
Interest has been expressed by the City of Pewaukee Common Council to establish Quiet Zones along the Canadian National (CN) railroad at the Green Road and Weyer Road intersections in the City of Pewaukee. The establishment of the quiet zones at these locations along the CN railroad would restrict locomotive horn sounding within this section of the community. All private and public grade crossings within the proposed quiet zones are required to be evaluated to establish the quiet zones. Along with Green Road and Weyer Road, two private crossings exist along this stretch of railroad; a driveway 500' North of Sunder Creek Drive and an access road on the Zignego Group property. Each of these crossings will be analyzed to evaluate what actions, if any, need to be taken to create a safe quiet zone crossing.

In 2013, engineering consulting firms provided preliminary reviews of the public railroad crossings within the area of interest. The City chose not to pursue the recommendations when the reviews were completed, however the consultants summarized their reviews in 2019. A summary of the findings of these initial reviews is provided below along with the status and next steps for each crossing.

Weyer Road Crossing

A preliminary quiet zone evaluation was prepared for the Weyer Road grade crossing by R.A. Smith National (raSmith) in 2013 and, at the request of the City of Pewaukee, a summary of the findings from this evaluation was prepared in 2019. This evaluation and subsequent summary established alternatives which would qualify the crossing for a Quiet Zone, presented the Federal Railroad Administration (FRA) recommended alternative, and established steps to establish the Quiet Zone.

The current railroad crossing at Weyer Road does not meet the criteria required to establish a quiet zone (Quiet Zone Risk Index (QZRI) > National Significant Risk Index (NSRI)). Two types of improvements could be implemented to lower the QZRI below the NSRI threshold. These types of improvements are Supplemental Safety Measures (SSMs) and Alternative Safety Measures (ASMs). SSMs are improvements "pre-approved" by the FRA which allow



Department of Public Works

W240N3065 Pewaukee Road

Pewaukee, WI 53072

Phone: (262) 691-0804 • Fax: (262) 691-5729

Email: publicworks@pewaukee.wi.us

for a simpler approval process while ASMs require a more thorough review.

Existing conditions at the Weyer Road grade crossing result in a QZRI = 27,230.38 while the NRSI = 13,722.00. This intersection will require additional safety measures to be implemented to establish a quiet zone because QZRI > NRSI. The following safety measures were presented as alternatives for implementation at the Weyer Road grade crossing in the evaluation with approximate construction costs:

Safety Measure	Type	Cost
Temporary Closure	SSM	\$5,000
Four-Quadrant Gate System	SSM	\$100,000 - \$140,000
Wayside Horns	SSM	\$100,000
Three-Quadrant Gate System with Median Channelization	ASM	\$65,000 - \$85,000
Retractable Bollards	ASM	\$40,000 - \$60,000

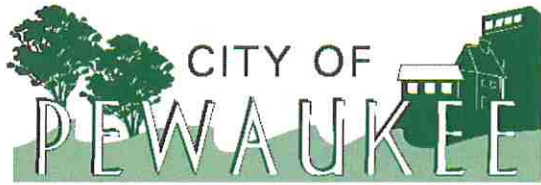
Additionally, a Two-Quadrant Gate System with Channelization and Full Closure were considered as alternatives but were initially determined to be either impractical or unfeasible.

A Weyer Road Quiet Zone Diagnostic Review meeting was held in 2014 following the results of the 2013 Quiet Zone Evaluation. At this meeting, the FRA identified that gates with medians would be the preferred alternative and would need to be submitted as an ASM because the 60' median could not be achieved west of the grade crossing. To move forward with implementation of this alternative, the following steps would need to be taken in order:

1. Host a Diagnostic Team Review meeting to re-evaluate any changes to conditions or policies since 2014.
2. Send formal Notice of Intent (NOI) of Quiet Zone Implementation to project stakeholders.
3. Apply to FRA for approval of raised median ASM on west side of crossing.
4. Apply to FRA for Quiet Zone (3-month review time)
5. Implement recommended Quiet Zone crossing improvements
6. Send Notice of Establishment (NOE) to stakeholders once improvements are complete.

The costs for implementation of this alternative are listed below:

Consultant's Fees (Application, Coordination, and Design) = \$15,000
Total Construction Fees = \$60,000
Total Cost (Weyer Road) = \$75,000



Department of Public Works

W240N3065 Pewaukee Road

Pewaukee, WI 53072

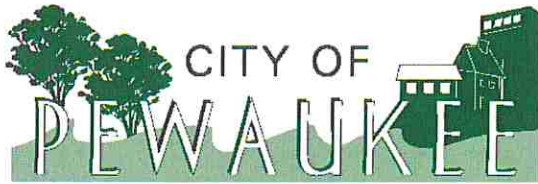
Phone: (262) 691-0804 • Fax: (262) 691-5729

Email: publicworks@pewaukee.wi.us

Green Road Crossing

A summary of work for the creation of a quiet zone at the Green Road grade crossing was prepared by Ruekert & Mielke, Inc. in 2019. One major issue was identified in this summary of work. Canadian Pacific Railway (CP) owns railroad tracks approximately 600 feet south of the Green Road / Canadian National Railway intersection. CP requires that all railroad crossings within 1 mile are considered for a quiet zone designation. Two additional public and one private crossing exist within the one-mile buffer zone. These crossings are located 300' south of the Green Road / Springdale Road intersection along the CP railway (#1), 50' north of the Duplainville Road / Marjean Lane intersection along the CP railway (#2), and 450' south of the CN railway / CP railway intersection along the CP railway on the Zignego Company property (#3). In preliminary discussions with the CP railway it was also determined that an analysis of the Watertown at grade crossing (#4) would also be required for the establishment of a quiet zone due to the proximity to the other crossings. The figure below illustrates the locations of the crossing referenced above.





Department of Public Works

W240N3065 Pewaukee Road

Pewaukee, WI 53072

Phone: (262) 691-0804 • Fax: (262) 691-5729

Email: publicworks@pewaukee.wi.us

Ruekert & Mielke has prepared a proposal to complete a quiet zone feasibility study, field surveys and traffic counts, final recommendations at each crossing, and Railroad Quiet Zone permit preparation and submittal. The total fee to complete the work outlined in the proposal would be \$33,010.

Recommendations

The NOI and application for the quiet zone at the Weyer Road grade crossing should be completed and submitted. raSMith provided a proposal to complete this work and the construction plans for improvements for \$15,000 on December 12, 2022. The City should request an updated cost which separates the coordination costs from the construction plans. Weyer road is currently in need of reconstruction and it would be more cost effective to address the improvements at the railroad crossing during reconstruction.

This location has a few potential roadblocks to achieving the Quiet Zone. Comments from the FRA regarding the preferred alternative were received in 2014 and design criteria may have changed since this time. Additionally, there is a single private crossing $\frac{3}{4}$ mile south of the crossing which may need to be evaluated. The preferred alternative utilizes an ASM and the review period for an ASM is longer than a typical quiet zone application review and may take 6 months or longer. Additionally, the Town of Lisbon will need to be involved in agreements due to the mutual ownership of Weyer Road. Construction could be postponed if the application is submitted and the City later determines this strategy is too expensive, but the process can't be sped up if this item becomes more urgent in the future. For this reason, it is recommended that the NOI and application be completed at this time.

The implementation of the Quiet Zone at Green Road is far more complicated due to the additional nearby railroad crossings. It is recommended that the City work with a consultant to study the feasibility of this quiet zone further and determine what measures each of the crossings would need to meet the requirements. Ruekert & Mielke has provided a proposal to complete this study for a fee of \$33,010. Once this study is complete, the City will have a construction cost associated with these improvements and will be able to perform the appropriate cost versus benefit analysis to determine if further action should be taken.

Sincerely,

Michaelis Gabbey

December 30, 2021

Ms. Magdelene J. Wagner, P.E.
Director of Public Works
City of Pewaukee
W240 N3065 Pewaukee Road
Pewaukee, WI 53072

Re: Green Road and Watertown Road Railroad Crossing – Quiet Zone

Dear Ms. Wagner:

We have reviewed your request to provide professional services estimate to perform a Quiet Zone analysis for the railroad crossing located on Green Road, approximately 500 feet east of Duplainville Road and at Watertown Road. The analysis of the Quiet Zone involves multiple factors. In order to accurately assess the railroad crossing, it must have lights and gates, which it currently has.

We will provide the following scope of services:

1. Perform a 7-day traffic count using two counters at the crossing. This service will include providing counters, set up and removal of the counters and downloading the data.
2. Create diagrams of the existing crossing conditions based on field measurements from gates and tracks to existing driveways and intersections, using the prior plans as created for Green Road and available aerial photography for both Green Road and Watertown Road.
3. Coordinate with railroads to obtain current data on train operations for updating the US DOT Grade Crossing Inventory Forms.
4. Prepare Grade Crossing Inventory Form updates and send them to the Wisconsin Department of Transportation and Office of Commission of Railroads for updating on the national system.
5. Create Quiet Zone scenarios for the FRA Quiet Zone Calculator and update grade crossing inventory information at the crossing.
6. Calculate the existing Quiet Zone Risk Index for the crossing and evaluate the recommended Supplementary Safety Measures if required to reduce the Quiet Zone Risk Index to acceptable levels.
7. Prepare a Summary Report documenting the existing conditions, recommended improvements to establish a Quiet Zone and estimated cost to perform improvements.
8. Present findings to your staff at a meeting to determine whether or not to pursue the Quiet Zone.
9. Prepare the Notice of Intent to create a Quiet Zone Notification with appropriate documentation to provide copies to the City of Pewaukee for signature. The City will then send the notification to the effective parties by Certified Mail.
10. Facilitate meetings with the railroad, City and Zignego Company for the private crossing located on the Zignego parcel. Design or analysis of safety measures on the Zignego parcel is not included. The Zignego crossing is located approximately 1,100 feet to the south of Green Road and impacts both Green Road and Watertown Road.

We propose to undertake the above work in a staged approach:

1. Initial meetings and study to determine project feasibility including initial meetings with the City, County, and affected railroads.
Estimated cost: \$4,310.00.

Ms. Magdelene J. Wagner, P.E.
City of Pewaukee
December 30, 2021
Page 2

2. Field surveys and traffic counts if it is determined to proceed with all the quiet zones.
Estimated cost: \$18,800.00.
3. Final recommendations and study report on improvements at each crossing.
Estimated cost: \$4,350.00.
4. Prepare final documents for Railroad Quiet Zone Permits with the railroad including review and approval. Any, and all permit fees are not included in our costs.
Estimated cost: \$5,550.00.

We are recommending the above phased approach so that if it is determined that a full study and report or permit is not feasible work may be halted. If it is determined that the Quiet Zone is feasible, additional services for the following items would then be quoted for implementation.

- Easement descriptions.
- Design of Quiet Zone items.
- Assist the City in applying for Municipal Grants and funding options.
- Final design and possible bidding of options.
- Preparation of the "Notice of Quiet Zone" notification to effective parties.

If you have any questions on the above, please contact this office.

Respectfully,

RUEKERT & MIELKE, INC.



Kenneth R. Ward, P.E. (WI)
Vice President/Office Manager
kward@ruekert-mielke.com

KRW:sjs

cc: Michaelis Gabbey, P.E., City of Pewaukee
Brian Leightner, City of Pewaukee
Greg R. Calhoun, P.E., Ruekert & Mielke, Inc.
DeLeah M. Willman, E.I.T., Ruekert & Mielke, Inc.



Ms. Magdelene J. Wagner, P.E.
City of Pewaukee
December 30, 2021
Page 3

CLIENT NAME:

City of Pewaukee

Signature: _____

Title: _____

Date: _____

ATTEST:

By: _____

Title: _____

Date: _____

Designated Representative:

Name: _____

Title: _____

Phone Number: _____

ENGINEER:

Ruekert & Mielke, Inc.

Signature: 
Kenneth R. Ward

Title: Vice President

Date: December 30, 2021

Designated Representative:

Name: Kenneth R. Ward, P.E.

Title: Vice President

Phone Number: (262) 542-5733

January 12, 2022

Mr. Michaelis Gabbey, P.E.
Chief Engineer – Streets and Development
City of Pewaukee
W240 N3065 Pewaukee Road
Pewaukee, WI 53072

Re: Proposal for Weyer Road Quiet Zone

Dear Mr. Gabbey:

Thank you for allowing raSmith to provide you with a proposal for professional services. We look forward to working with the City of Pewaukee on the Weyer Road Quiet Zone project. We strive to develop a long-term, mutually beneficial relationship with our clients and are committed to understanding your challenges and developing solutions that meet your needs.

Scope of Services

In December of 2019, we provided the City with a memorandum which summarized the work done in 2013 and 2014 related to this project. Based on that document, we propose the following scope of work.

- A. Meet with City staff to confirm the proposed direction city officials desire to take regarding the establishment of a Quiet Zone at Weyer Road and the Canadian National Railroad and to review the steps as indicated below.
- B. Prepare for and attend a Diagnostic Team Review meeting. This task will include creating an updated contact list, coordinating the meeting time and day, and running the meeting. Anticipated participants would include Wisconsin Department of Transportation (WisDOT), Federal Railroad Administration (FRA) staff, staff from City of Pewaukee and Town of Lisbon.
- C. Prepare and send Notice of Intent to Canadian National RR, FRA, WisDOT and other rail users. The NOI must include a resolution from the City Council (sample form will be provided), a completed U.S. DOT Crossing Form, and other railroad information (#of trains, control devices, signage, photos, pavement markings, physical characteristics of the crossing, AADT at the crossing and school bus use). There is a 60-day comment period for the NOI.
- D. Apply to the FRA for approval of a raised median ASM on the west side of the crossing.
- E. Prepare construction plans and specifications for crossing improvements. We assume that the City would bid out the work and perform contract award, contract preparation, construction coordination and inspection. Modifications to the gate and signals would be performed by the railroad.
- F. Once the improvements have been completed, prepare the Notice of Establishment and provide to all stakeholders. This task will include updating the U.S. DOT Crossing Form and providing photos of the crossing improvements and signage.



Mr. Michaelis Gabbey, Chief Engineer
Page 2 / January 12, 2022

Completion Schedule

We will establish a mutually beneficial project schedule at the initial meeting with the City.

Professional Fees

The above services will be provided for on a time-and-expense basis with an estimate of \$15,000. Services will be billed each month based on the work completed.

Usual and customary expenses such as mileage, printing, delivery, and postage are not included in the above fee and will be billed at cost as a reimbursable expense.

This proposal does not include any services beyond those described in the above scope of services. raSmith offers an array of supplemental services that are available at your request, as this proposal does not include any services beyond those described in the Scope of Services.

Client Responsibilities/Assumptions

- A. The terms and conditions set forth herein are valid for 60 days from the date of this proposal and are conditioned upon our completion of all services within 275 days.
- B. The hourly rates shown on the Professional Fees Rate Schedule are subject to change on an annual basis.
- C. The City shall provide any existing data relevant to the proposed project including but not limited to electronic AutoCAD base files of survey and utilities. Verification of information provided by others is not a part of the Scope of Services; therefore, any problems arising out of the use of such information shall not be the responsibility of raSmith.
- D. City shall pay for all project review and permit fees, and expenses related to sending out critical documents via Certified Mail Receipt Required. Payment of fees to various agencies for plan reviews and other reasons may be necessary throughout the course of this project. Timely remittance of these fees is very important since agencies will not accept review packages without the required fees. The project could be delayed significantly if submittals are not received when needed.
- E. After work has commenced, any revisions requested by the City, FRA, WisDOT or Railroad, or necessitated by conditions beyond our control, will be considered extra work requiring additional compensation.
- F. The Owner shall advertise and receive bids for the construction portion of the project.
- G. Public meeting attendance is not included and will be completed on a time and materials basis, if requested.
- H. Plans to be prepared based on base plans prepared in 2011 (no new survey data anticipated).



Mr. Michaelis Gabbey, Chief Engineer
Page 3 / January 12, 2022

If you would like to authorize raSmith to proceed with your project, please sign the attached Professional Services Agreement Between Client and Professional, and forward a signed copy of the entire Agreement to our office. Once received, we will execute and return a copy for your records. Should you have any questions related to this proposal, please contact me at (262) 317-3307 or tim.barbeau@rasmith.com. We look forward to working with you on this project.

Sincerely,
raSmith

A handwritten signature in blue ink that reads 'Timothy G. Barbeau'.

Timothy G. Barbeau, P.E., P.L.S.
Senior Project Manager

Enclosures: Professional Services Agreement
Rate Schedule

bth:W:\MKTG\Proposals by Division\Municipal\2022\Pewaukee - City Quiet Zone\EP 220112 Gabbey_Pewaukee Weyer Road Quiet Zone.docx



**PROFESSIONAL SERVICES AGREEMENT
BETWEEN CLIENT AND PROFESSIONAL**

THIS IS AN AGREEMENT effective as of _____ ("Effective Date") between City of Pewaukee ("Client") and R.A. Smith, Inc. ("Professional").

Client's Project, of which Professional's services under this Agreement are a part, is generally identified as follows:

Weyer Road Quiet Zone Establishment ("Project").

Professional's services under this Agreement are generally identified as follows:

Application and coordination related to establishing a quiet zone; preparation of plans and specifications. ("Services").

Client and Professional further agree as follows:

1.01 Basic Agreement and Period of Service

- A. Professional shall provide or furnish the Services solely for the benefit of Client as set forth in this Agreement and in the attached proposal. If authorized by Client, or if required because of changes in the Project, Professional shall furnish services in addition to those set forth above ("Additional Services").

2.01 Payment Procedures

- A. *Invoices:* Professional shall prepare invoices in accordance with its standard invoicing practices and submit the invoices to Client on a monthly basis. Invoices are due and payable within 30 days of invoice date. If Client fails to make any payment due Professional for Services, Additional Services, and expenses within 30 days after receipt of Professional's invoice, then (1) the amounts due Professional will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day, and (2) in addition Professional may, after giving seven days written notice to Client, suspend Services under this Agreement until Professional has been paid in full all amounts due for Services, Additional Services, expenses, and other related charges. Client waives any and all claims against Professional for any such suspension.
- B. *Payment:* As compensation for Professional providing or furnishing Services and Additional Services, Client shall pay Professional as set forth in this agreement. If Client disputes an invoice, either as to amount or entitlement, then Client shall promptly advise Professional in writing of the specific basis for doing so, may withhold only that portion so disputed, and must pay the undisputed portion.

2.02 Basis of Payment

- A. Client shall pay Professional for Services in the amount and manner provided in the attached proposal.
- B. *Additional Services:* Unless specified in the attached proposal, for Additional Services, Client shall pay Professional an amount equal to the cumulative hours charged in providing the Additional Services by each class of Professional's employees, times standard hourly rates for each applicable billing class; plus reimbursement of expenses incurred in connection with providing the Additional Services and Professional's consultants' charges, if any.

3.01 Suspension and Termination

- A. The obligation to continue performance under this Agreement may be suspended:
1. *By Client:* Client may suspend the Project for up to 90 days upon seven days written notice to Professional.
 2. *By Professional:* Professional may, after giving seven days written notice to Client, suspend services under this Agreement if Client has failed to pay Professional for invoiced services and expenses, as set forth in this Agreement.
- B. The obligation to continue performance under this Agreement may be terminated:
1. For cause,
 - a. By either party upon 14 days written notice in the event of substantial failure by the other party to perform in accordance with the Agreement's terms through no fault of the terminating party. Failure to pay Professional for its services is a substantial failure to perform and a basis for termination.
 - b. By Professional:
 - 1) upon seven days written notice if Client demands that Professional furnish or perform services contrary to Professional's responsibilities as a licensed professional; or
 - 2) upon seven days written notice if the Professional's Services are delayed for more than 90 days for reasons beyond Professional's control, or as the result of the presence at the Site of undisclosed Constituents of Concern.
 - c. By Client, for convenience, effective upon Professional's receipt of written notice from Client

- d. Professional shall have no liability to Client on account of a termination for cause by Professional.
 - e. Notwithstanding the foregoing, this Agreement will not terminate as a result of a substantial failure under this section if the party receiving such notice begins, within seven days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of notice; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.
- C. In the event of any termination under this section, Professional will be entitled to invoice Client and to receive full payment for all Services and Additional Services performed or furnished in accordance with this Agreement, plus reimbursement of expenses incurred through the effective date of termination in connection with providing the Services and Additional Services, and Professional's consultants' charges, if any.
- 4.01 *Successors, Assigns, and Beneficiaries*
- A. Client and Professional are hereby bound and the successors, executors, administrators, and legal representatives of Client and Professional are hereby bound to the other party to this Agreement and to the successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.
 - B. Neither Client nor Professional may assign, sublet, or transfer any rights under or interest (including, but without limitation, money that is due or may become due) in this Agreement without the written consent of the other party, except to the extent that any assignment, subletting, or transfer is mandated by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
 - C. Unless expressly provided otherwise, nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Client or Professional to any Constructor, other third-party individual or entity, or to any surety for or employee of any of them. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Client and Professional and not for the benefit of any other party.
- 5.01 *General Considerations*
- A. *Standard of Care*
The standard of care for all professional engineering and related services performed or furnished by Professional under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Professional makes no warranties, express or implied, under this Agreement or otherwise, in connection with any services performed or furnished by Professional. Subject to the foregoing standard of care, Professional and its consultants may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
 - B. *Design Without Construction Phase Services*
Professional shall not at any time supervise, direct, control, or have authority over any Constructor's work, nor shall Professional have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, or the safety precautions and programs incident thereto, for security or safety at the Project site, nor for any failure of a Constructor to comply with laws and regulations applicable to such Constructor's furnishing and performing of its work. Professional shall not be responsible for the acts or omissions of any Constructor. Professional neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish and perform its work.
 - C. *Opinions of Cost*
Professional's opinions (if any) of probable construction cost are to be made on the basis of Professional's experience, qualifications, and general familiarity with the construction industry. However, because Professional has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, Professional cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost prepared by Professional. If Client requires greater assurance as to probable construction cost, then Client agrees to obtain an independent cost estimate. Professional shall not be responsible for any decision made regarding the construction contract requirements, or any application, interpretation, clarification, or modification of the construction contract documents other than those made by Professional or its consultants.
 - D. *Use of Documents*
All documents prepared or furnished by Professional are instruments of service, and Professional retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. Client shall have a limited license to use the documents on the Project, extensions of the Project, and for related uses of the Client, subject to receipt by Professional of full payment due and owing for all Services and Additional Services relating to preparation of the documents and subject to the following limitations:
 - 1. Client acknowledges that such documents are not intended or represented to be suitable for use on the Project unless completed by Professional, or for use or reuse by Client or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Professional;

2. Any such use or reuse, or any modification of the documents, without written verification, completion, or adaptation by Professional, as appropriate for the specific purpose intended, will be at Client's sole risk and without liability or legal exposure to Professional or to its officers, directors, members, partners, agents, employees, and consultants;
3. Client shall indemnify and hold harmless Professional and its officers, directors, members, partners, agents, employees, and consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the documents without written verification, completion, or adaptation by Professional; and
4. Such limited license to Client shall not create any rights in third parties.

E. **Liability**

To the fullest extent permitted by Laws and Regulations, and notwithstanding any other provision of this Agreement, the total liability, in the aggregate, of Professional and Professional's officers, directors, employees, and Consultants, to Client and anyone claiming by, through, or under Client for any and all injuries, claims, losses, expenses, costs, or damages whatsoever arising out of, resulting from, or in any way related to the Project, Professional's or its Consultants services or this Agreement from any cause or causes whatsoever, including but not limited to the negligence, professional errors or omissions, strict liability, breach of contract, indemnity obligations, or warranty express or implied of Professional or Professional's officers, directors, employees, or Consultants shall not exceed the total amount of \$100,000 or the total compensation received by Professional under this Agreement, whichever is less.

F. **Indemnification**

To the fullest extent permitted by Laws and Regulations, Client shall indemnify and hold harmless Professional and Professional's officers, directors, employees, and Consultants from and against any and all claims, costs, losses and damages (including but not limited to all fees and charges of Professionals, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to the Project, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of the Client or Client's officers, directors, members, partners, agents, employees, consultants, or others retained by or under contract to the Client with respect to this Agreement or to the Project.

G. **Dispute Resolution**

Client and Professional agree to negotiate each dispute between them in good faith during the 30 days after written notice of dispute. If negotiations are unsuccessful in resolving the dispute, then the dispute shall be mediated. If mediation is unsuccessful, then the parties may exercise their rights at law. The venue for all disputes shall be the state of Wisconsin. Attorney fees will be borne by the non-prevailing party.

H. **Governing Law**

This Agreement is to be governed by the law of the state of Wisconsin.

6.01 **Agreement**

- A. This Agreement (including any expressly incorporated attachments), constitutes the entire agreement between Client and Professional and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument. Nothing in this Agreement between Professional and Client shall create a contractual relationship between either Professional and Client and an outside third party.

7.01 **Lien Notice**

- A. As required by the Wisconsin construction lien law, Professional hereby notifies Client that persons or companies performing, furnishing, or procuring labor, services, materials, plans, or specifications for the construction on Client's land may have lien rights on Client's land and buildings if not paid. Those entitled to lien rights, in addition to the undersigned Professional, are those who contract directly with the Client or those who give the Client notice within 60 days after they first perform, furnish, or procure labor, services, materials, plans or specifications for the construction. Accordingly, Client probably will receive notices from those who perform, furnish, or procure labor, services, materials, plans, or specifications for the construction, and should give a copy of each notice received to the mortgage lender, if any. Professional agrees to cooperate with the Client and the Client's lender, if any, to see that all potential lien Professionals are duly paid.



IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

Project Name: Weyer Road Quiet Zone

Client: City of Pewaukee

Professional: R.A. Smith, inc.

By: _____

By: _____

Print name: _____

Print name: Timothy G. Barbeau, P.E., P.L.S.

Title: _____

Title: Senior Project Manager

Date Signed: _____

Date Signed: _____

Address for Client's receipt of notices:

Address for Professional's receipt of notices:

City of Pewaukee

R.A. Smith, Inc.

W240 N3065 Pewaukee Road

16745 West Bluemound Road

Pewaukee, WI 53072

Brookfield, WI 53005

Client's Phone:

Professional's Phone: 262-317-3307

Client's Email:

Professional's Email: tim.barbeau@rasmith.com

**PROFESSIONAL FEES RATE SCHEDULE
GENERAL 2022 RATES**

<u>ENGINEERING SERVICES</u>	<u>2022 PER HOUR</u>
Principal-In-Charge.....	\$245
Division Director	\$219
Senior Project Consultant.....	\$198
Senior Project Manager.....	\$179
Project Manager	\$163
Senior Project Engineer.....	\$163
Project Engineer	\$155
Civil Engineer	\$109 - \$146
Engineering Technician	\$ 79 - \$140
Planner	\$116 - \$163
Landscape Architect.....	\$150 - \$175
Landscape Technician.....	\$123
Irrigation Designer	\$160
Ecologist	\$124 - \$150
Senior Structural Engineer	\$148 - \$182
Structural Engineer.....	\$108 - \$137
Structural CAD Technician	\$ 90 - \$108
<u>SURVEYING SERVICES</u>	
Survey Director.....	\$172
Senior Project Manager.....	\$161
Project Manager	\$147
2-Member Field Crew GPS/Robotics	\$218
Field Person GPS/Robotics	\$150
GPS Equipment.....	\$ 29
Project Surveyor	\$124
Survey Technician	\$ 90 - \$121
3D Laser Scan Project Manager	\$147
3D Laser Scan Technician	\$108
2-Member Field Crew w/Scanner.....	\$244
3-Member Field Crew w/Scanner.....	\$420
<u>CONSTRUCTION SERVICES</u>	
Construction Services Manager	\$177
Construction Technician	\$ 94 - \$153
<u>GIS & VISUALIZATION SERVICES</u>	
GIS Project Manager	\$147 - \$166
GIS Technician	\$ 90 - \$130
Visualization Services Manager	\$141
Visualization Technician	\$119 - \$132
<u>IT & ADMINISTRATIVE SERVICES</u>	
Computer Services	\$191
Grants Specialist	\$130
Project Technician	\$ 89
Litigation/Expert Witness	\$289 - \$314

CITY OF PEWAUKEE
PUBLIC WORKS COMMITTEE AGENDA ITEM 10.1.

DATE: March 31, 2022

DEPARTMENT: Public Works

PROVIDED BY: Magdelene Wagner

SUBJECT:

Discussion and possible action regarding removing the Heavy Weight Restriction on Lindsay Road from Redford Boulevard (CTH F) to Duplainville Road.

BACKGROUND:

Lindsay Road is currently Heavy Weight Restricted year round to 6 Tons. With the upcoming Duplainville Road Reconstruction, the intersection improvements at Redford Boulevard (CTH F) and Lindsay Road, and development plans for the remaining land in this corridor, Staff is recommending removing the 6 Ton Heavy Weight Restriction between Redford Boulevard (CTH F) and Duplainville Road. Lindsay Road west of Redford Boulevard would remain heavy weight restricted as this area is largely residential and plans to remain this zoning.

This will require an ordinance change by the Common Council.

FINANCIAL IMPACT:

RECOMMENDED MOTION:

Committee recommend removal of the 6 Ton Heavy Weight Restriction on Lindsay Road from Redford Boulevard (CTH F) to Duplainville Road.

ATTACHMENTS:

Description

Heavy Weight Restrictions

(d) Penalty and enforcement of this section shall be pursuant to §348.21(3), Wis. Stats.

(3) REGULATION OF HEAVY TRAFFIC. (Rep. & Recr. 17-05)

(a) All vehicles not operating completely on pneumatic tires and all vehicles or combination of vehicles, other than motor buses, designed or used for transporting property of any nature and having a gross weight of more than 12,000 pounds are prohibited from traveling on any highway in the City of Pewaukee, except as authorized by Section 349.17(1), Wis. Stats. The exemptions allowed by Wisconsin Statutes Section 349.17(1) only apply to the extent necessary for such non-traffic route travel, which is defined as the shortest roadway distance between the heavy traffic route and the applicable place of business or residence which has an entrance within the restricted weight zone.

(b) Main Heavy Traffic Routes. Heavy traffic may travel on these routes in any direction or combination of described highways: all US, State and County Highways within the City. Heavy Traffic is prohibited on the following streets:

- 1) Oakridge Drive in its entirety.
- 2) Badinger Road in its entirety.
- 3) Busse Road from Bluemound Road (CTH JJ to end at south side of I-94)
- 4) Green Road in its entirety.
- 5) Lindsay Road in its entirety.
- 6) Sussex Street in its entirety.
- 7) Swan Road from STH 164 to the North City Boundary
- 8) Tacoma Hills Subdivision (Virginia Drive, Mt. Vernon Drive, Lexington Drive, and Tacoma Drive).
- 9) North Avenue from Watertown Road to the south end.
- 10) Lakeview Drive in its entirety.
- 11) Oak Street in its entirety.
- 12) Milkweed Lane in its entirety.
- 13) Rocky Point Road in its entirety.
- 14) Ishnala Trail in its entirety.
- 15) Spring Hill Drive in its entirety.
- 16) Weyer Road in its entirety.

(c) Policy in Prosecuting Weight Violations. It is declared to be the public policy of the City that prosecutions for heavy traffic route violations shall be instituted against the person or entity on whose behalf the vehicle is traveling in the City, as follows. In instances where a combination of tractor and trailer or semitrailer is used, the person standing in the relationship of the principal or employer to the driver of the tractor portion of the vehicle combination is liable along with the owner. It is a violation of this ordinance for the owner or any other person employing or otherwise directing the operator of the vehicle to require or permit the operation of such vehicle upon a highway contrary to this Section. This section shall not apply to individuals, partnerships, limited liability companies or corporations whose principal business is leasing, for compensation, vehicles including trailers and semitrailers, but such prosecution shall be instituted against the Lessee of the vehicle.